Appendix M
Upper Buffalo
2001 M2

EGU											% of Modeled Extinction by Species					
YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	1	23	2789	340.496	-426.449	D	7.5	7.495	0.005	3.09	0	0	0	0	0	99.98
2001	2	23	2628	320.933	-436.998	D	7.46	7.451	0.009	2.997	0	0	0	0	0	99.98
2001	3	23	2709	330.21	-424.978	D	7.815	7.81	0.005	3.774	0	0	0	0	0	100
2001	4	23	67	319.674	-440.741	D	7.083	7.081	0.001	2.224	0	0	0	0	0	99.83
2001	5	23	2588	318.452	-445.8	D	6.932	6.931	0.001	1.919	0	0	0	0	0	99.86
2001	6	23	2596	318.977	-444.095	D	6.552	6.551	0.001	1.165	0	0	0	0	0	100
2001	7	23	2758	335.862	-424.454	D	7.169	7.14	0.029	2.345	0	0	0	0	0	100
2001	8	23	2789	340.496	-426.449	D	8.339	8.335	0.004	4.964	0	0	0	0	0	99.99
2001	9	23	2758	335.862	-424.454	D	9.754	9.717	0.037	8.408	0	0	0	0	0	100
2001	10	23	1449	329.434	-425.075	D	7.001	7	0.001	2.059	0	0	0	0	0	99.67
2001	11	23	2781	339.842	-425.379	D	9.131	9.131	0	6.888	0	0	0	0	0	98.92
2001	12	23	1	318.65	-445.782	D	9.519	9.519	0	7.886	0	0	0	0	0	0
2001	13	23	2781	339.842	-425.379	D	9.126	9.126	0	6.876	0	0	0	0	0	99.04
2001	14	23	1	318.65	-445.782	D	9.396	9.396	0	7.566	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	6.74	6.74	0	1.537	0	0	0	0	0	0
2001	16	23	2711	330.671	-424.932	D	6.822	6.795	0.027	1.645	0	0	0	0	0	100
2001	17	23	2571	322.646	-445.476	D	6.873	6.869	0.004	1.793	0	0	0	0	0	100.02
2001	18	23	2789	340.496	-426.449	D	6.927	6.885	0.041	1.826	0	0	0	0	0	100
2001	19	23	2758	335.862	-424.454	D	6.929	6.907	0.023	1.87	0	0	0	0	0	100
2001	20	23	2789	340.496	-426.449	D	6.556	6.555	0.001	1.174	0	0	0	0	0	100.19
2001	21	23	2789	340.496	-426.449	D	6.474	6.474	0	1.015	0	0	0	0	0	100.6
2001	22	23	2758	335.862	-424.454	D	6.626	6.626	0	1.312	0	0	0	0	0	99.82
2001	23	23	1	318.65	-445.782	D	6.621	6.621	0	1.303	0	0	0	0	0	0
2001	24	23	2781	339.842	-425.379	D	6.751	6.723	0.029	1.502	0	0	0	0	0	100
2001	25	23	2684	326.713	-427.014	D	6.62	6.586	0.034	1.233	0	0	0	0	0	100
2001	26	23	2789	340.496	-426.449	D	6.538	6.536	0.002	1.136	0	0	0	0	0	100
2001	27	23	2758	335.862	-424.454	D	6.683	6.674	0.009	1.405	0	0	0	0	0	100
2001	28	23	2789	340.496	-426.449	D	6.516	6.516	0	1.097	0	0	0	0	0	99.73
2001	29	23	2588	318.452	-445.8	D	8.91	8.908	0.002	6.335	0	0	0	0	0	99.88
2001	30	23	2384	338.176	-425.941	D	6.773	6.773	0	1.601	0	0	0	0	0	59
2001	31	23	2781	339.842	-425.379	D	6.998	6.998	0	2.054	0	0	0	0	0	96.44
2001	32	23	2781	339.842	-425.379	D	6.48	6.48	0	1.028	0	0	0	0	0	99.67
2001	33	23	2	318.639	-445.533	D	6.561	6.561	0	1.185	0	0	0	0	0	99.58
2001	34	23	2571	322.646	-445.476	D	6.476	6.476	0	1.019	0	0	0	0	0	99.98
2001	35	23	2758	335.862	-424.454	D	6.61	6.609	0.001	1.279	0	0	0	0	0	100
2001	36	23	2758	335.862	-424.454	D	6.605	6.601	0.004	1.263	0	0	0	0	0	100
2001	37	23	2758	335.862	-424.454	D	6.52	6.52	0	1.104	0	0	0	0	0	100.01
2001	38	23	2709	330.21	-424.978	D	7.857	7.856	0.001	3.876	0	0	0	0	0	100.03

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	39	23	1	318.65	-445.782	D	10.07	10.07	0	9.369	0	0	0	0	0	0
2001	40	23	1415	329.185	-425.086	D	9.39	9.39	0	7.55	0	0	0	0	0	99.51
2001	41	23	2789	340.496	-426.449	D	6.659	6.651	0.008	1.361	0	0	0	0	0	99.99
2001	42	23	2789	340.496	-426.449	D	6.475	6.471	0.004	1.009	0	0	0	0	0	99.99
2001	43	23	2277	336.146	-425.03	D	6.792	6.792	0	1.639	0	0	0	0	0	99.53
2001	44	23	1	318.65	-445.782	D	9.412	9.412	0	7.606	0	0	0	0	0	0
2001	45	23	2694	327.861	-425.964	D	10.218	10.218	0	9.779	0	0	0	0	0	99.44
2001	46	23	2781	339.842	-425.379	D	8.301	8.271	0.03	4.814	0	0	0	0	0	99.99
2001	47	23	2758	335.862	-424.454	D	7.564	7.479	0.086	3.056	0	0	0	0	0	100
2001	48	23	2789	340.496	-426.449	D	6.591	6.527	0.064	1.119	0	0	0	0	0	100
2001	49	23	2789	340.496	-426.449	D	6.487	6.472	0.015	1.012	0	0	0	0	0	100
2001	50	23	2781	339.842	-425.379	D	6.494	6.493	0.001	1.052	0	0	0	0	0	100.08
2001	51	23	1	318.65	-445.782	D	9.197	9.197	0	7.056	0	0	0	0	0	0
2001	52	23	2704	329.056	-425.092	D	8.107	8.08	0.027	4.379	0	0	0	0	0	100
2001	53	23	2704	329.056	-425.092	D	7.041	7.029	0.012	2.117	0	0	0	0	0	100
2001	54	23	2789	340.496	-426.449	D	6.783	6.768	0.015	1.592	0	0	0	0	0	99.99
2001	55	23	2413	339.406	-425.637	D	9.379	9.379	0	7.522	0	0	0	0	0	97.89
2001	56	23	2780	339.614	-425.419	D	7.297	7.297	0	2.672	0	0	0	0	0	99.8
2001	57	23	2704	329.056	-425.092	D	6.507	6.499	0.009	1.063	0	0	0	0	0	100.01
2001	58	23	2781	339.842	-425.379	D	6.523	6.517	0.005	1.099	0	0	0	0	0	100.01
2001	59	23	2694	327.861	-425.964	D	7.153	7.142	0.012	2.348	0	0	0	0	0	99.99
2001	60	23	2781	339.842	-425.379	D	6.649	6.643	0.006	1.345	0	0	0	0	0	99.99
2001	61	23	2789	340.496	-426.449	D	8.446	8.444	0.002	5.218	0	0	0	0	0	99.98
2001	62	23	2758	335.862	-424.454	D	6.881	6.747	0.134	1.55	0	0	0	0	0	100
2001	63	23	2684	326.713	-427.014	D	6.664	6.613	0.051	1.285	0	0	0	0	0	100
2001	64	23	2789	340.496	-426.449	D	6.535	6.531	0.004	1.126	0	0	0	0	0	100.01
2001	65	23	2708	329.979	-425	D	6.567	6.529	0.038	1.123	0	0	0	0	0	99.99
2001	66	23	2758	335.862	-424.454	D	6.483	6.471	0.012	1.011	0	0	0	0	0	100.01
2001	67	23	2435	337.211	-428.786	D	6.559	6.539	0.02	1.142	0	0	0	0	0	99.99
2001	68	23	2684	326.713	-427.014	D	6.53	6.493	0.036	1.053	0	0	0	0	0	100
2001	69	23	2468	334.002	-434.887	D	6.478	6.471	0.007	1.009	0	0	0	0	0	100.01
2001	70	23	2781	339.842	-425.379	D	6.502	6.502	0	1.069	0	0	0	0	0	100.07
2001	71	23	1	318.65	-445.782	D	9.154	9.154	0	6.946	0	0	0	0	0	0
2001	72	23	1	318.65	-445.782	D	6.558	6.558	0	1.178	0	0	0	0	0	0
2001	73	23	2758	335.862	-424.454	D	7.577	7.577	0	3.267	0	0	0	0	0	97.01
2001	74	23	199	320.795	-437.944	D	9.731	9.731	0	8.446	0	0	0	0	0	95.54
2001	75	23	2781	339.842	-425.379	D	7.341	7.329	0.011	2.739	0	0	0	0	0	99.97
2001	76	23	2694	327.861	-425.964	D	6.598	6.586	0.012	1.234	0	0	0	0	0	99.98
2001	77	23	2789	340.496	-426.449	D	6.511	6.506	0.004	1.078	0	0	0	0	0	99.99

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	78	23	2628	320.933	-436.998	D	6.49	6.479	0.011	1.025	0	0	0	0	0	100
2001	79	23	2600	318.952	-443.12	D	6.525	6.496	0.029	1.058	0	0	0	0	0	100
2001	80	23	2628	320.933	-436.998	D	6.479	6.473	0.006	1.014	0	0	0	0	0	99.99
2001	81	23	2684	326.713	-427.014	D	6.491	6.49	0.001	1.048	0	0	0	0	0	99.88
2001	82	23	2789	340.496	-426.449	D	6.665	6.661	0.004	1.38	0	0	0	0	0	99.96
2001	83	23	2628	320.933	-436.998	D	6.788	6.77	0.018	1.596	0	0	0	0	0	99.99
2001	84	23	2708	329.979	-425	D	6.56	6.473	0.087	1.014	0	0	0	0	0	100
2001	85	23	2758	335.862	-424.454	D	6.571	6.482	0.089	1.031	0	0	0	0	0	100
2001	86	23	2781	339.842	-425.379	D	6.48	6.468	0.013	1.004	0	0	0	0	0	100
2001	87	23	2781	339.842	-425.379	D	6.504	6.503	0.001	1.073	0	0	0	0	0	99.75
2001	88	23	1	318.65	-445.782	D	7.559	7.559	0	3.227	0	0	0	0	0	0
2001	89	23	2628	320.933	-436.998	D	9.176	9.168	0.008	6.983	0	0	0	0	0	99.98
2001	90	23	2468	334.002	-434.887	D	7.481	7.468	0.013	3.033	0	0	0	0	0	100
2001	91	23	2588	318.452	-445.8	D	6.482	6.481	0.001	1.029	0	0	0	0	0	99.97
2001	92	23	2236	336.149	-430.776	D	7.049	7.049	0	2.157	0	0	0	0	0	60.84
2001	93	23	1	318.65	-445.782	D	10.042	10.042	0	9.289	0	0	0	0	0	0
2001	94	23	2781	339.842	-425.379	D	9.901	9.9	0.001	8.9	0	0	0	0	0	100.05
2001	95	23	1	318.65	-445.782	D	9.747	9.747	0	8.488	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	8.549	8.549	0	5.467	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.507	7.507	0	3.115	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.503	7.503	0	3.108	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.145	7.145	0	2.355	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.606	7.606	0	3.329	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	9.338	9.338	0	7.417	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	103	23	2758	335.862	-424.454	D	6.58	6.576	0.003	1.215	0	0	0	0	0	100
2001	104	23	2417	339.654	-425.626	D	6.885	6.885	0	1.826	0	0	0	0	0	83.45
2001	105	23	2779	339.386	-425.461	D	8.944	8.943	0	6.422	0	0	0	0	0	98.95
2001	106	23	2758	335.862	-424.454	D	6.517	6.501	0.017	1.067	0	0	0	0	0	100
2001	107	23	2789	340.496	-426.449	D	6.489	6.478	0.011	1.024	0	0	0	0	0	100
2001	108	23	2704	329.056	-425.092	D	6.529	6.477	0.052	1.022	0	0	0	0	0	100
2001	109	23	2789	340.496	-426.449	D	6.568	6.568	0	1.198	0	0	0	0	0	99.02
2001	110	23	1	318.65	-445.782	D	10.01	10.01	0	9.202	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	8.281	8.281	0	4.837	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	8.135	8.135	0	4.503	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	8.008	8.008	0	4.216	0	0	0	0	0	0
2001	114	23	2711	330.671	-424.932	D	6.52	6.505	0.015	1.076	0	0	0	0	0	99.99
2001	115	23	2789	340.496	-426.449	D	6.482	6.477	0.005	1.021	0	0	0	0	0	100
2001	116	23	2413	339.406	-425.637	D	6.537	6.537	0	1.137	0	0	0	0	0	103.3

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	117	23	1	318.65	-445.782	D	6.586	6.586	0	1.232	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	6.585	6.585	0	1.231	0	0	0	0	0	0
2001	119	23	2286	336.471	-426.765	D	6.844	6.844	0	1.743	0	0	0	0	0	80.34
2001	120	23	2152	334.916	-425.334	D	7.005	7.005	0	2.069	0	0	0	0	0	87.7
2001	121	23	1	318.65	-445.782	D	6.839	6.839	0	1.734	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.129	7.129	0	2.323	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.25	7.25	0	2.573	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	8.868	8.868	0	6.236	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	8.924	8.924	0	6.374	0	0	0	0	0	0
2001	127	23	2781	339.842	-425.379	D	8.406	8.405	0	5.127	0	0	0	0	0	99.4
2001	128	23	2684	326.713	-427.014	D	6.563	6.552	0.011	1.166	0	0	0	0	0	99.99
2001	129	23	1552	330.178	-425.042	D	6.697	6.695	0.002	1.447	0	0	0	0	0	99.92
2001	130	23	2787	340.091	-426.447	D	6.953	6.953	0	1.963	0	0	0	0	0	97.8
2001	131	23	1	318.65	-445.782	D	8.246	8.246	0	4.756	0	0	0	0	0	0
2001	132	23	2758	335.862	-424.454	D	8.799	8.784	0.014	6.032	0	0	0	0	0	99.99
2001	133	23	2628	320.933	-436.998	D	6.56	6.559	0.001	1.181	0	0	0	0	0	99.93
2001	134	23	2789	340.496	-426.449	D	6.745	6.745	0	1.546	0	0	0	0	0	98.75
2001	135	23	1	318.65	-445.782	D	6.961	6.961	0	1.979	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.897	7.897	0	3.966	0	0	0	0	0	0
2001	138	23	1415	329.185	-425.086	D	7.574	7.574	0	3.259	0	0	0	0	0	100.64
2001	139	23	2789	340.496	-426.449	D	7.36	7.352	0.008	2.786	0	0	0	0	0	99.97
2001	140	23	2789	340.496	-426.449	D	7.47	7.462	0.008	3.019	0	0	0	0	0	99.99
2001	141	23	2781	339.842	-425.379	D	8.843	8.843	0	6.174	0	0	0	0	0	99.27
2001	142	23	2758	335.862	-424.454	D	6.534	6.533	0.001	1.131	0	0	0	0	0	100.01
2001	143	23	2758	335.862	-424.454	D	6.53	6.529	0.001	1.121	0	0	0	0	0	100.07
2001	144	23	1415	329.185	-425.086	D	6.506	6.505	0.001	1.076	0	0	0	0	0	99.99
2001	145	23	2758	335.862	-424.454	D	6.576	6.575	0.001	1.212	0	0	0	0	0	99.96
2001	146	23	1	318.65	-445.782	D	6.546	6.546	0	1.156	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	6.809	6.809	0	1.673	0	0	0	0	0	0
2001	148	23	2704	329.056	-425.092	D	8.101	8.089	0.011	4.399	0	0	0	0	0	99.98
2001	149	23	2588	318.452	-445.8	D	7.079	7.075	0.004	2.211	0	0	0	0	0	100.01
2001	150	23	2781	339.842	-425.379	D	8.428	8.428	0	5.181	0	0	0	0	0	97.34
2001	151	23	2155	334.883	-424.586	D	8.989	8.988	0	6.533	0	0	0	0	0	99.35
2001	152	23	2628	320.933	-436.998	D	7.199	7.197	0.002	2.462	0	0	0	0	0	100
2001	153	23	2781	339.842	-425.379	D	7.214	7.214	0	2.498	0	0	0	0	0	99.74
2001	154	23	2781	339.842	-425.379	D	7.58	7.58	0	3.273	0	0	0	0	0	99.84
2001	155	23	1	318.65	-445.782	D	8.894	8.894	0	6.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	156	23	1	318.65	-445.782	D	8.375	8.375	0	5.056	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.624	7.624	0	3.368	0	0	0	0	0	0
2001	158	23	2704	329.056	-425.092	D	8.14	8.139	0.001	4.512	0	0	0	0	0	99.83
2001	159	23	2468	334.002	-434.887	D	7.308	7.303	0.006	2.683	0	0	0	0	0	100.01
2001	160	23	2684	326.713	-427.014	D	7.414	7.396	0.018	2.879	0	0	0	0	0	99.99
2001	161	23	2784	339.87	-426.019	D	7.628	7.622	0.007	3.363	0	0	0	0	0	99.97
2001	162	23	2789	340.496	-426.449	D	7.013	7.011	0.001	2.081	0	0	0	0	0	99.87
2001	163	23	2781	339.842	-425.379	D	6.863	6.863	0	1.781	0	0	0	0	0	99.7
2001	164	23	2360	337.69	-426.212	D	7.053	7.053	0	2.166	0	0	0	0	0	88.26
2001	165	23	1	318.65	-445.782	D	7.321	7.321	0	2.721	0	0	0	0	0	0
2001	166	23	2182	335.131	-424.575	D	7.951	7.95	0.001	4.086	0	0	0	0	0	99.69
2001	167	23	2789	340.496	-426.449	D	6.522	6.521	0	1.107	0	0	0	0	0	100.63
2001	168	23	381	322.546	-443.863	D	6.545	6.545	0	1.153	0	0	0	0	0	99.23
2001	169	23	2789	340.496	-426.449	D	6.651	6.651	0	1.36	0	0	0	0	0	100.02
2001	170	23	1	318.65	-445.782	D	7.178	7.178	0	2.423	0	0	0	0	0	0
2001	171	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	172	23	2781	339.842	-425.379	D	7.188	7.187	0.001	2.441	0	0	0	0	0	99.91
2001	173	23	2758	335.862	-424.454	D	6.831	6.8	0.031	1.655	0	0	0	0	0	100.01
2001	174	23	2708	329.979	-425	D	6.631	6.604	0.028	1.268	0	0	0	0	0	100
2001	175	23	2789	340.496	-426.449	D	6.762	6.76	0.002	1.576	0	0	0	0	0	100
2001	176	23	2789	340.496	-426.449	D	7.64	7.636	0.003	3.395	0	0	0	0	0	100.01
2001	177	23	2362	338.048	-428.694	D	6.986	6.981	0.005	2.019	0	0	0	0	0	99.95
2001	178	23	1415	329.185	-425.086	D	6.923	6.921	0.003	1.897	0	0	0	0	0	99.97
2001	179	23	2411	339.428	-426.135	D	8.819	8.818	0.001	6.114	0	0	0	0	0	99.89
2001	180	23	2709	330.21	-424.978	D	8.611	8.611	0	5.614	0	0	0	0	0	98.17
2001	181	23	1	318.65	-445.782	D	8.968	8.968	0	6.482	0	0	0	0	0	0
2001	182	23	2704	329.056	-425.092	D	9.396	9.396	0.001	7.564	0	0	0	0	0	99.33
2001	183	23	2781	339.842	-425.379	D	7.174	7.171	0.003	2.409	0	0	0	0	0	99.93
2001	184	23	2781	339.842	-425.379	D	7.339	7.338	0.001	2.757	0	0	0	0	0	99.98
2001	185	23	2396	338.424	-425.93	D	7.064	7.064	0	2.189	0	0	0	0	0	97.27
2001	186	23	2757	335.63	-424.484	D	7.025	7.025	0	2.109	0	0	0	0	0	93.01
2001	187	23	2781	339.842	-425.379	D	7.606	7.597	0.01	3.308	0	0	0	0	0	99.99
2001	188	23	2781	339.842	-425.379	D	8.688	8.687	0	5.797	0	0	0	0	0	99.84
2001	189	23	1	318.65	-445.782	D	7.18	7.18	0	2.428	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.028	7.028	0	2.115	0	0	0	0	0	0
2001	191	23	2417	339.654	-425.626	D	7.241	7.241	0	2.555	0	0	0	0	0	98.81
2001	192	23	2758	335.862	-424.454	D	7.118	7.084	0.033	2.23	0	0	0	0	0	100
2001	193	23	2789	340.496	-426.449	D	7.906	7.903	0.003	3.981	0	0	0	0	0	99.91
2001	194	23	2789	340.496	-426.449	D	9.074	9.072	0.002	6.741	0	0	0	0	0	99.98

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	195	23	2588	318.452	-445.8	D	6.655	6.654	0	1.367	0	0	0	0	0	100.08
2001	196	23	2758	335.862	-424.454	D	6.686	6.685	0.001	1.427	0	0	0	0	0	99.87
2001	197	23	863	325.509	-431.992	D	6.994	6.994	0	2.046	0	0	0	0	0	80.58
2001	198	23	1	318.65	-445.782	D	7.972	7.972	0	4.135	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.881	7.881	0	3.931	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.405	7.405	0	2.898	0	0	0	0	0	0
2001	201	23	2236	336.149	-430.776	D	7.24	7.24	0	2.553	0	0	0	0	0	47.54
2001	202	23	2789	340.496	-426.449	D	6.808	6.808	0	1.67	0	0	0	0	0	99.99
2001	203	23	2789	340.496	-426.449	D	6.907	6.904	0.003	1.864	0	0	0	0	0	100
2001	204	23	2781	339.842	-425.379	D	7.452	7.45	0.002	2.994	0	0	0	0	0	99.89
2001	205	23	2416	339.665	-425.875	D	7.697	7.696	0	3.525	0	0	0	0	0	99.41
2001	206	23	2274	336.179	-425.778	D	7.597	7.597	0	3.309	0	0	0	0	0	99.45
2001	207	23	2414	339.687	-426.374	D	8.928	8.928	0	6.383	0	0	0	0	0	97.02
2001	208	23	2781	339.842	-425.379	D	8.847	8.846	0.001	6.181	0	0	0	0	0	99.86
2001	209	23	2781	339.842	-425.379	D	8.805	8.805	0.001	6.081	0	0	0	0	0	99.5
2001	210	23	2416	339.665	-425.875	D	8.646	8.646	0	5.698	0	0	0	0	0	98.26
2001	211	23	2781	339.842	-425.379	D	8.573	8.573	0.001	5.523	0	0	0	0	0	100.18
2001	212	23	2789	340.496	-426.449	D	8.497	8.496	0.001	5.339	0	0	0	0	0	99.92
2001	213	23	2781	339.842	-425.379	D	8.197	8.196	0.001	4.643	0	0	0	0	0	99.8
2001	214	23	2409	339.158	-425.648	D	7.533	7.533	0	3.172	0	0	0	0	0	99.07
2001	215	23	2385	338.165	-425.691	D	6.959	6.959	0	1.974	0	0	0	0	0	91.45
2001	216	23	2781	339.842	-425.379	D	7.067	7.048	0.019	2.157	0	0	0	0	0	99.99
2001	217	23	2704	329.056	-425.092	D	7.138	7.133	0.006	2.33	0	0	0	0	0	99.96
2001	218	23	2572	322.4	-445.495	D	7.211	7.208	0.003	2.485	0	0	0	0	0	99.96
2001	219	23	2758	335.862	-424.454	D	7.447	7.445	0.002	2.984	0	0	0	0	0	99.94
2001	220	23	2709	330.21	-424.978	D	7.763	7.76	0.003	3.664	0	0	0	0	0	99.97
2001	221	23	2781	339.842	-425.379	D	7.743	7.742	0.002	3.624	0	0	0	0	0	99.96
2001	222	23	2781	339.842	-425.379	D	7.372	7.371	0.001	2.826	0	0	0	0	0	100.1
2001	223	23	2704	329.056	-425.092	D	9.049	9.022	0.026	6.617	0	0	0	0	0	99.99
2001	224	23	2758	335.862	-424.454	D	7.435	7.394	0.041	2.876	0	0	0	0	0	100
2001	225	23	2789	340.496	-426.449	D	7.602	7.587	0.015	3.288	0	0	0	0	0	99.99
2001	226	23	2758	335.862	-424.454	D	6.94	6.932	0.008	1.92	0	0	0	0	0	99.99
2001	227	23	2789	340.496	-426.449	D	6.815	6.81	0.005	1.675	0	0	0	0	0	99.99
2001	228	23	2182	335.131	-424.575	D	7.72	7.72	0	3.577	0	0	0	0	0	99.01
2001	229	23	2468	334.002	-434.887	D	6.684	6.683	0.001	1.423	0	0	0	0	0	100.02
2001	230	23	2789	340.496	-426.449	D	6.949	6.948	0.001	1.953	0	0	0	0	0	99.82
2001	231	23	2758	335.862	-424.454	D	6.925	6.881	0.044	1.817	0	0	0	0	0	100
2001	232	23	2781	339.842	-425.379	D	6.975	6.964	0.011	1.985	0	0	0	0	0	99.98
2001	233	23	2789	340.496	-426.449	D	7.601	7.601	0	3.318	0	0	0	0	0	99.3

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	234	23	1	318.65	-445.782	D	6.991	6.991	0	2.041	0	0	0	0	0	0
2001	235	23	2037	333.945	-425.876	D	6.968	6.968	0	1.993	0	0	0	0	0	20.29
2001	236	23	1	318.65	-445.782	D	7.113	7.113	0	2.289	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.284	7.284	0	2.645	0	0	0	0	0	0
2001	238	23	2781	339.842	-425.379	D	7.359	7.358	0.001	2.799	0	0	0	0	0	99.76
2001	239	23	2758	335.862	-424.454	D	7.333	7.301	0.032	2.68	0	0	0	0	0	100
2001	240	23	2704	329.056	-425.092	D	6.927	6.909	0.018	1.873	0	0	0	0	0	99.99
2001	241	23	2762	336.074	-425.006	D	7.322	7.312	0.01	2.703	0	0	0	0	0	100.01
2001	242	23	2708	329.979	-425	D	8.193	8.191	0.002	4.631	0	0	0	0	0	99.95
2001	243	23	2758	335.862	-424.454	D	8.155	8.154	0.001	4.547	0	0	0	0	0	100.06
2001	244	23	2709	330.21	-424.978	D	8.5	8.489	0.012	5.323	0	0	0	0	0	99.99
2001	245	23	2704	329.056	-425.092	D	8.795	8.788	0.007	6.04	0	0	0	0	0	99.99
2001	246	23	2589	318.383	-445.593	D	8.209	8.207	0.002	4.668	0	0	0	0	0	99.91
2001	247	23	2781	339.842	-425.379	D	7.141	7.137	0.003	2.339	0	0	0	0	0	99.97
2001	248	23	2618	320.301	-439.116	D	7.338	7.323	0.016	2.725	0	0	0	0	0	100
2001	249	23	2694	327.861	-425.964	D	7.395	7.394	0.001	2.876	0	0	0	0	0	99.87
2001	250	23	1	318.65	-445.782	D	8.117	8.117	0	4.462	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	9.202	9.202	0	7.068	0	0	0	0	0	0
2001	252	23	2694	327.861	-425.964	D	9.125	9.124	0.001	6.873	0	0	0	0	0	99.71
2001	253	23	2758	335.862	-424.454	D	7.045	7.008	0.037	2.075	0	0	0	0	0	100
2001	254	23	2628	320.933	-436.998	D	6.791	6.788	0.004	1.631	0	0	0	0	0	99.97
2001	255	23	2571	322.646	-445.476	D	6.856	6.853	0.003	1.761	0	0	0	0	0	99.96
2001	256	23	2588	318.452	-445.8	D	6.988	6.987	0.001	2.031	0	0	0	0	0	99.93
2001	257	23	2758	335.862	-424.454	D	7.434	7.405	0.029	2.898	0	0	0	0	0	99.99
2001	258	23	2571	322.646	-445.476	D	6.963	6.96	0.002	1.977	0	0	0	0	0	100
2001	259	23	2588	318.452	-445.8	D	6.743	6.742	0.001	1.541	0	0	0	0	0	99.95
2001	260	23	2789	340.496	-426.449	D	7.016	7.015	0	2.09	0	0	0	0	0	99.98
2001	261	23	2416	339.665	-425.875	D	8.747	8.747	0	5.94	0	0	0	0	0	92.15
2001	262	23	2614	319.957	-439.987	D	8.585	8.583	0.002	5.548	0	0	0	0	0	99.95
2001	263	23	2571	322.646	-445.476	D	6.894	6.893	0.001	1.841	0	0	0	0	0	99.89
2001	264	23	2781	339.842	-425.379	D	7.188	7.188	0	2.443	0	0	0	0	0	99.87
2001	265	23	2789	340.496	-426.449	D	7.153	7.146	0.007	2.357	0	0	0	0	0	99.98
2001	266	23	2781	339.842	-425.379	D	7.77	7.766	0.005	3.677	0	0	0	0	0	100.01
2001	267	23	2628	320.933	-436.998	D	8.691	8.658	0.033	5.727	0	0	0	0	0	100
2001	268	23	2789	340.496	-426.449	D	6.67	6.665	0.005	1.387	0	0	0	0	0	100
2001	269	23	2589	318.383	-445.593	D	6.554	6.543	0.011	1.15	0	0	0	0	0	99.98
2001	270	23	2600	318.952	-443.12	D	6.651	6.643	0.009	1.344	0	0	0	0	0	99.99
2001	271	23	2789	340.496	-426.449	D	6.742	6.718	0.024	1.492	0	0	0	0	0	99.99
2001	272	23	2589	318.383	-445.593	D	7.093	7.084	0.009	2.229	0	0	0	0	0	100

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	273	23	2684	326.713	-427.014	D	7.158	7.156	0.002	2.378	0	0	0	0	0	100.06
2001	274	23	2704	329.056	-425.092	D	7.234	7.203	0.031	2.474	0	0	0	0	0	100
2001	275	23	2790	340.421	-426.562	D	6.819	6.809	0.01	1.673	0	0	0	0	0	100
2001	276	23	2789	340.496	-426.449	D	7.373	7.373	0	2.831	0	0	0	0	0	100.04
2001	277	23	1	318.65	-445.782	D	8.468	8.468	0	5.274	0	0	0	0	0	0
2001	278	23	2789	340.496	-426.449	D	9.7	9.67	0.03	8.283	0	0	0	0	0	99.99
2001	279	23	2758	335.862	-424.454	D	7.258	7.238	0.02	2.548	0	0	0	0	0	99.99
2001	280	23	2789	340.496	-426.449	D	6.568	6.557	0.011	1.177	0	0	0	0	0	100
2001	281	23	2789	340.496	-426.449	D	6.615	6.613	0.002	1.286	0	0	0	0	0	99.93
2001	282	23	1	318.65	-445.782	D	7.968	7.968	0	4.125	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	284	23	2704	329.056	-425.092	D	10.219	10.218	0.001	9.779	0	0	0	0	0	99.87
2001	285	23	2758	335.862	-424.454	D	9.666	9.66	0.005	8.257	0	0	0	0	0	99.99
2001	286	23	1552	330.178	-425.042	D	9.891	9.89	0	8.876	0	0	0	0	0	96.23
2001	287	23	2758	335.862	-424.454	D	7.51	7.51	0	3.122	0	0	0	0	0	99.92
2001	288	23	2684	326.713	-427.014	D	6.929	6.928	0.001	1.913	0	0	0	0	0	100.01
2001	289	23	2711	330.671	-424.932	D	7.201	7.196	0.005	2.461	0	0	0	0	0	100.01
2001	290	23	2758	335.862	-424.454	D	6.505	6.488	0.017	1.043	0	0	0	0	0	100
2001	291	23	2155	334.883	-424.586	D	6.549	6.549	0	1.16	0	0	0	0	0	100.04
2001	292	23	1	318.65	-445.782	D	6.799	6.799	0	1.653	0	0	0	0	0	0
2001	293	23	1549	330.211	-425.79	D	8.254	8.254	0	4.776	0	0	0	0	0	51.59
2001	294	23	1	318.65	-445.782	D	9.362	9.362	0	7.476	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	9.29	9.29	0	7.294	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	297	23	2781	339.842	-425.379	D	9.448	9.447	0	7.699	0	0	0	0	0	100
2001	298	23	2781	339.842	-425.379	D	6.511	6.511	0	1.088	0	0	0	0	0	97.69
2001	299	23	2758	335.862	-424.454	D	6.477	6.476	0.001	1.02	0	0	0	0	0	99.97
2001	300	23	2758	335.862	-424.454	D	6.546	6.472	0.074	1.012	0	0	0	0	0	100
2001	301	23	1	318.65	-445.782	D	6.493	6.481	0.012	1.03	0	0	0	0	0	99.99
2001	302	23	2781	339.842	-425.379	D	6.5	6.5	0	1.066	0	0	0	0	0	99.68
2001	303	23	1	318.65	-445.782	D	6.572	6.572	0	1.207	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	6.695	6.695	0	1.447	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	9.032	9.032	0	6.64	0	0	0	0	0	0
2001	306	23	1415	329.185	-425.086	D	9.837	9.837	0	8.732	0	0	0	0	0	23.92
2001	307	23	2789	340.496	-426.449	D	9.692	9.685	0.006	8.324	0	0	0	0	0	99.93
2001	308	23	2588	318.452	-445.8	D	6.955	6.948	0.006	1.953	0	0	0	0	0	99.98
2001	309	23	2695	328.074	-426.025	D	8.367	8.311	0.057	4.907	0	0	0	0	0	100
2001	310	23	1548	330.222	-426.04	D	7.888	7.876	0.011	3.921	0	0	0	0	0	99.99
2001	311	23	2781	339.842	-425.379	D	7.137	7.131	0.005	2.327	0	0	0	0	0	100.01

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	312	23	2781	339.842	-425.379	D	7.255	7.247	0.007	2.567	0	0	0	0	0	100
2001	313	23	2704	329.056	-425.092	D	6.672	6.611	0.061	1.281	0	0	0	0	0	100
2001	314	23	2789	340.496	-426.449	D	6.748	6.746	0.001	1.549	0	0	0	0	0	100.15
2001	315	23	2758	335.862	-424.454	D	6.816	6.801	0.014	1.658	0	0	0	0	0	100.01
2001	316	23	2588	318.452	-445.8	D	6.633	6.627	0.006	1.314	0	0	0	0	0	99.99
2001	317	23	623	324.229	-442.54	D	6.703	6.703	0	1.462	0	0	0	0	0	6.15
2001	318	23	1	318.65	-445.782	D	7.492	7.492	0	3.083	0	0	0	0	0	0
2001	319	23	1	318.65	-445.782	D	8.023	8.023	0	4.249	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.729	7.729	0	3.597	0	0	0	0	0	0
2001	321	23	2758	335.862	-424.454	D	7.174	7.172	0.002	2.411	0	0	0	0	0	99.98
2001	322	23	2781	339.842	-425.379	D	7.371	7.37	0.001	2.826	0	0	0	0	0	99.84
2001	323	23	2789	340.496	-426.449	D	8.471	8.463	0.007	5.264	0	0	0	0	0	99.98
2001	324	23	2758	335.862	-424.454	D	6.494	6.475	0.02	1.017	0	0	0	0	0	100
2001	325	23	2789	340.496	-426.449	D	6.471	6.47	0.001	1.008	0	0	0	0	0	100.04
2001	326	23	1	318.65	-445.782	D	6.548	6.548	0	1.159	0	0	0	0	0	0
2001	327	23	1	318.65	-445.782	D	8.475	8.475	0	5.291	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	8.774	8.774	0	6.006	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	6.66	6.66	0	1.377	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.063	7.063	0	2.186	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.026	7.026	0	2.111	0	0	0	0	0	0
2001	332	23	2684	326.713	-427.014	D	9.308	9.291	0.017	7.296	0	0	0	0	0	99.98
2001	333	23	2572	322.4	-445.495	D	10.23	10.218	0.012	9.779	0	0	0	0	0	99.97
2001	334	23	2789	340.496	-426.449	D	8.364	8.348	0.016	4.993	0	0	0	0	0	100
2001	335	23	2781	339.842	-425.379	D	6.654	6.653	0	1.365	0	0	0	0	0	101.16
2001	336	23	2789	340.496	-426.449	D	6.655	6.654	0	1.367	0	0	0	0	0	100.08
2001	337	23	2361	337.679	-425.962	D	6.812	6.812	0	1.679	0	0	0	0	0	34.35
2001	338	23	1	318.65	-445.782	D	7.231	7.231	0	2.534	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	9.653	9.653	0	8.239	0	0	0	0	0	0
2001	340	23	2758	335.862	-424.454	D	9.727	9.725	0.002	8.429	0	0	0	0	0	100.02
2001	341	23	2758	335.862	-424.454	D	8.533	8.531	0.002	5.424	0	0	0	0	0	99.95
2001	342	23	2758	335.862	-424.454	D	8.493	8.46	0.034	5.255	0	0	0	0	0	100
2001	343	23	2758	335.862	-424.454	D	6.633	6.603	0.03	1.266	0	0	0	0	0	100
2001	344	23	1449	329.434	-425.075	D	6.518	6.513	0.005	1.092	0	0	0	0	0	99.98
2001	345	23	2789	340.496	-426.449	D	6.575	6.574	0.002	1.209	0	0	0	0	0	99.99
2001	346	23	976	326.436	-430.452	D	9.736	9.736	0	8.459	0	0	0	0	0	13.68
2001	347	23	2704	329.056	-425.092	D	9.775	9.768	0.008	8.544	0	0	0	0	0	99.98
2001	348	23	2758	335.862	-424.454	D	9.283	9.267	0.016	7.233	0	0	0	0	0	99.99
2001	349	23	2780	339.614	-425.419	D	9.009	9.008	0	6.582	0	0	0	0	0	97.6
2001	350	23	2781	339.842	-425.379	D	10.218	10.218	0	9.779	0	0	0	0	0	94.58

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	351	23	2628	320.933	-436.998	D	9.571	9.555	0.017	7.979	0	0	0	0	0	100
2001	352	23	199	320.795	-437.944	D	6.542	6.542	0	1.147	0	0	0	0	0	41.31
2001	353	23	2789	340.496	-426.449	D	6.75	6.749	0.001	1.554	0	0	0	0	0	99.99
2001	354	23	2588	318.452	-445.8	D	6.471	6.471	0	1.009	0	0	0	0	0	100.07
2001	355	23	1	318.65	-445.782	D	6.487	6.487	0	1.042	0	0	0	0	0	0
2001	356	23	1	318.65	-445.782	D	8.259	8.259	0	4.788	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	6.641	6.641	0	1.34	0	0	0	0	0	0
2001	358	23	2601	319.02	-442.895	D	6.481	6.481	0.001	1.029	0	0	0	0	0	99.97
2001	359	23	2435	337.211	-428.786	D	6.509	6.507	0.002	1.079	0	0	0	0	0	99.96
2001	360	23	2758	335.862	-424.454	D	6.538	6.536	0.001	1.137	0	0	0	0	0	100.02
2001	361	23	2781	339.842	-425.379	D	6.59	6.589	0	1.239	0	0	0	0	0	100
2001	362	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2001	363	23	2711	330.671	-424.932	D	6.653	6.624	0.029	1.308	0	0	0	0	0	100
2001	364	23	2308	337.055	-428.737	D	6.565	6.55	0.016	1.163	0	0	0	0	0	100
2001	365	23	2588	318.452	-445.8	D	6.619	6.619	0	1.298	0	0	0	0	0	98.61
									0.134							
EXIDE											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.785	7.785	0	3.719	0	0	0	0	0	0
2001	2	23	2789	340.496	-426.449	D	7.423	7.421	0.002	2.932	89.91	7.66	0	0	0	2.45
2001	3	23	2789	340.496	-426.449	D	7.762	7.761	0.001	3.667	93.01	5.65	0	0	0	1.19
2001	4	23	1	318.65	-445.782	D	7.031	7.031	0	2.121	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	6.931	6.931	0	1.919	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	6.551	6.551	0	1.165	0	0	0	0	0	0
2001	7	23	2781	339.842	-425.379	D	7.132	7.129	0.003	2.323	84.97	11.13	0	0	0	3.86
2001	8	23	2789	340.496	-426.449	D	8.338	8.335	0.003	4.964	92.72	5.47	0	0	0	1.8
2001	9	23	2783	339.861	-425.806	D	9.574	9.56	0.014	7.993	95.7	3.79	0	0	0	0.49
2001	10	23	2624	320.719	-437.835	D	6.953	6.949	0.004	1.954	95.48	2.98	0	0	0	1.49
2001	11	23	2707	329.748	-425.023	D	9.12	9.119	0	6.86	95.39	2.58	0	0	0	1.47
2001	12	23	1	318.65	-445.782	D	9.519	9.519	0	7.886	0	0	0	0	0	0
2001	13	23	1	318.65	-445.782	D	9.698	9.698	0	8.359	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	9.396	9.396	0	7.566	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	6.74	6.74	0	1.537	0	0	0	0	0	0
2001	16	23	2417	339.654	-425.626	D	6.786	6.786	0	1.627	74.48	8.1	0	0	0	9.05
2001	17	23	2684	326.713	-427.014	D	6.904	6.904	0.001	1.863	83.73	10.66	0	0	0	5.69
2001	18	23	2684	326.713	-427.014	D	6.909	6.909	0	1.874	87.56	5.6	0	0	0	6.57
2001	19	23	2704	329.056	-425.092	D	6.94	6.937	0.002	1.931	78.44	15.68	0	0	0	5.83
2001	20	23	2587	318.699	-445.781	D	6.554	6.553	0.002	1.168	80.87	9.95	0	0	0	9.27

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	21	23	2788	340.294	-426.448	D	6.474	6.474	0	1.015	87.48	7.85	0	0	0	5.76
2001	22	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	6.621	6.621	0	1.303	0	0	0	0	0	0
2001	24	23	2182	335.131	-424.575	D	6.736	6.736	0	1.527	89.4	6.06	0	0	0	4.37
2001	25	23	1	318.65	-445.782	D	6.568	6.568	0	1.197	82.38	6.41	0	0	0	8.37
2001	26	23	1	318.65	-445.782	D	6.538	6.538	0	1.139	0	0	0	0	0	0
2001	27	23	2755	335.167	-424.545	D	6.674	6.674	0	1.405	66.55	19.18	0	0	0	13.65
2001	28	23	2588	318.452	-445.8	D	6.528	6.528	0	1.12	86.1	8.77	0	0	0	4.7
2001	29	23	1	318.65	-445.782	D	8.908	8.908	0	6.335	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	6.819	6.819	0	1.692	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.016	7.016	0	2.09	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	6.478	6.478	0	1.025	0	0	0	0	0	0
2001	33	23	2417	339.654	-425.626	D	6.552	6.552	0	1.167	77.05	9.62	0	0	0	8.04
2001	34	23	1	318.65	-445.782	D	6.476	6.476	0	1.019	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	6.617	6.617	0	1.293	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	6.583	6.583	0	1.226	0	0	0	0	0	0
2001	37	23	2274	336.179	-425.778	D	6.516	6.516	0	1.096	62.2	2.54	0	0	0	9.07
2001	38	23	1415	329.185	-425.086	D	8.001	8.001	0	4.2	81.4	5.39	0	0	0	7.55
2001	39	23	1	318.65	-445.782	D	10.07	10.07	0	9.369	0	0	0	0	0	0
2001	40	23	2704	329.056	-425.092	D	9.409	9.39	0.019	7.55	94.16	5.29	0	0	0	0.54
2001	41	23	2634	322.092	-436.482	D	6.683	6.683	0.001	1.423	76.68	12.55	0	0	0	10.75
2001	42	23	13	319.06	-443.766	D	6.471	6.471	0	1.01	92.21	7.42	0	0	0	6.92
2001	43	23	1	318.65	-445.782	D	6.879	6.879	0	1.812	0	0	0	0	0	0
2001	44	23	1	318.65	-445.782	D	9.412	9.412	0	7.606	0	0	0	0	0	0
2001	45	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	46	23	2589	318.383	-445.593	D	9.317	9.303	0.014	7.326	95.07	4.19	0	0	0	0.73
2001	47	23	2589	318.383	-445.593	D	8.471	8.464	0.007	5.266	92.53	5.96	0	0	0	1.5
2001	48	23	1	318.65	-445.782	D	6.531	6.531	0	1.127	0	0	0	0	0	0
2001	49	23	13	319.06	-443.766	D	6.473	6.473	0	1.013	81.18	3.75	0	0	0	4.41
2001	50	23	1549	330.211	-425.79	D	6.497	6.497	0	1.06	93.79	4.26	0	0	0	3.6
2001	51	23	1	318.65	-445.782	D	9.197	9.197	0	7.056	0	0	0	0	0	0
2001	52	23	2695	328.074	-426.025	D	8.125	8.125	0	4.479	95.13	3.19	0	0	0	0.72
2001	53	23	623	324.229	-442.54	D	7.106	7.106	0	2.275	93.66	3.21	0	0	0	0.95
2001	54	23	1	318.65	-445.782	D	6.752	6.752	0	1.56	0	0	0	0	0	0
2001	55	23	1	318.65	-445.782	D	9.447	9.447	0	7.697	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.222	7.222	0	2.515	0	0	0	0	0	0
2001	57	23	2129	335.167	-431.069	D	6.499	6.499	0	1.064	81.94	0.97	0	0	0	4.14
2001	58	23	2781	339.842	-425.379	D	6.517	6.517	0	1.099	94.67	2.65	0	0	0	2.71
2001	59	23	863	325.509	-431.992	D	7.147	7.146	0	2.358	95.79	2.96	0	0	0	0.63

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	60	23	863	325.509	-431.992	D	6.698	6.698	0	1.453	95.83	2.1	0	0	0	0.9
2001	61	23	1412	329.218	-425.834	D	8.571	8.571	0	5.518	88.87	1.31	0	0	0	0.21
2001	62	23	1	318.65	-445.782	D	6.735	6.735	0	1.527	0	0	0	0	0	0
2001	63	23	2597	318.971	-443.851	D	6.62	6.618	0.002	1.296	94.64	2.54	0	0	0	2.77
2001	64	23	2588	318.452	-445.8	D	6.523	6.523	0.001	1.11	84.01	6.52	0	0	0	9.51
2001	65	23	2788	340.294	-426.448	D	6.526	6.526	0.001	1.116	86.31	6.47	0	0	0	6.84
2001	66	23	2588	318.452	-445.8	D	6.472	6.471	0.001	1.011	92.17	1.66	0	0	0	5.96
2001	67	23	2412	339.417	-425.886	D	6.543	6.541	0.002	1.146	92.12	2.95	0	0	0	4.76
2001	68	23	2780	339.614	-425.419	D	6.494	6.493	0.001	1.052	81.23	7.73	0	0	0	10.95
2001	69	23	863	325.509	-431.992	D	6.471	6.471	0	1.009	83.95	2.44	0	0	0	5.89
2001	70	23	2274	336.179	-425.778	D	6.502	6.502	0	1.069	48.77	0.76	0	0	0	2.2
2001	71	23	2236	336.149	-430.776	D	8.884	8.884	0	6.276	10.04	0.13	0	0	0	0.15
2001	72	23	1	318.65	-445.782	D	6.558	6.558	0	1.178	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	74	23	13	319.06	-443.766	D	9.735	9.735	0	8.455	69.55	2.17	0	0	0	0.41
2001	75	23	1	318.65	-445.782	D	7.879	7.879	0	3.926	77.84	17.18	0	0	0	4.55
2001	76	23	13	319.06	-443.766	D	6.574	6.573	0	1.209	79.37	11.22	0	0	0	9.31
2001	77	23	1	318.65	-445.782	D	6.502	6.502	0	1.069	0	0	0	0	0	0
2001	78	23	1	318.65	-445.782	D	6.479	6.479	0	1.026	0	0	0	0	0	0
2001	79	23	1	318.65	-445.782	D	6.495	6.495	0	1.057	0	0	0	0	0	0
2001	80	23	1	318.65	-445.782	D	6.473	6.473	0	1.013	0	0	0	0	0	0
2001	81	23	1	318.65	-445.782	D	6.492	6.492	0	1.051	0	0	0	0	0	0
2001	82	23	1	318.65	-445.782	D	6.603	6.603	0	1.266	0	0	0	0	0	0
2001	83	23	1	318.65	-445.782	D	6.758	6.758	0	1.572	0	0	0	0	0	0
2001	84	23	1	318.65	-445.782	D	6.471	6.471	0	1.01	0	0	0	0	0	0
2001	85	23	2588	318.452	-445.8	D	6.479	6.478	0	1.024	78.07	8.34	0	0	0	13.45
2001	86	23	1	318.65	-445.782	D	6.468	6.468	0	1.005	0	0	0	0	0	0
2001	87	23	2588	318.452	-445.8	D	6.53	6.529	0	1.123	96.22	2.05	0	0	0	1.93
2001	88	23	2693	327.829	-426.17	D	7.39	7.39	0	2.867	97.44	1.23	0	0	0	0.7
2001	89	23	2653	324.014	-433.36	D	9.21	9.21	0.001	7.088	98.64	0.76	0	0	0	0.24
2001	90	23	1	318.65	-445.782	D	7.628	7.628	0	3.376	98.83	0.93	0	0	0	0.41
2001	91	23	2781	339.842	-425.379	D	6.479	6.479	0	1.026	86.91	4.54	0	0	0	8.56
2001	92	23	1	318.65	-445.782	D	7.269	7.269	0	2.613	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	10.042	10.042	0	9.289	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	9.747	9.747	0	8.488	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	8.549	8.549	0	5.467	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.507	7.507	0	3.115	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.503	7.503	0	3.108	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	99	23	1	318.65	-445.782	D	7.145	7.145	0	2.355	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.606	7.606	0	3.329	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	9.338	9.338	0	7.417	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	6.571	6.571	0	1.204	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.079	7.079	0	2.219	0	0	0	0	0	0
2001	105	23	2274	336.179	-425.778	D	8.944	8.943	0	6.422	89.46	0.31	0	0	0	5.07
2001	106	23	2789	340.496	-426.449	D	6.504	6.503	0.001	1.073	92.71	1.62	0	0	0	5.65
2001	107	23	2275	336.168	-425.529	D	6.478	6.478	0	1.023	83.02	5.89	0	0	0	10.49
2001	108	23	2627	320.879	-437.207	D	6.476	6.476	0	1.02	94.42	0.87	0	0	0	4.48
2001	109	23	1551	330.189	-425.292	D	6.567	6.567	0	1.195	96.6	0.6	0	0	0	2.55
2001	110	23	1	318.65	-445.782	D	10.01	10.01	0	9.202	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	8.281	8.281	0	4.837	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	8.135	8.135	0	4.503	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	8.008	8.008	0	4.216	0	0	0	0	0	0
2001	114	23	2784	339.87	-426.019	D	6.504	6.504	0	1.073	88.87	0.68	0	0	0	9.21
2001	115	23	2417	339.654	-425.626	D	6.477	6.477	0	1.021	92.9	1.05	0	0	0	5.95
2001	116	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	6.586	6.586	0	1.232	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	6.585	6.585	0	1.231	0	0	0	0	0	0
2001	119	23	1	318.65	-445.782	D	6.867	6.867	0	1.788	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.147	7.147	0	2.358	0	0	0	0	0	0
2001	121	23	1	318.65	-445.782	D	6.839	6.839	0	1.734	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.129	7.129	0	2.323	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.25	7.25	0	2.573	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	8.868	8.868	0	6.236	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	8.924	8.924	0	6.374	0	0	0	0	0	0
2001	127	23	2781	339.842	-425.379	D	8.406	8.405	0	5.127	94.4	0.18	0	0	0	5.22
2001	128	23	2	318.639	-445.533	D	6.576	6.575	0.001	1.212	95.53	0.29	0	0	0	4.13
2001	129	23	23	319.319	-444.004	D	6.884	6.883	0.001	1.822	98.05	0.14	0	0	0	1.65
2001	130	23	2788	340.294	-426.448	D	6.953	6.953	0	1.963	96.24	0.09	0	0	0	1.04
2001	131	23	1	318.65	-445.782	D	8.246	8.246	0	4.756	0	0	0	0	0	0
2001	132	23	2684	326.713	-427.014	D	8.857	8.852	0.005	6.196	97.38	2.19	0	0	0	0.39
2001	133	23	67	319.674	-440.741	D	6.56	6.56	0	1.182	96.89	0.06	0	0	0	2.14
2001	134	23	2784	339.87	-426.019	D	6.745	6.745	0	1.546	97.77	0.05	0	0	0	1.36
2001	135	23	1	318.65	-445.782	D	6.961	6.961	0	1.979	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.897	7.897	0	3.966	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	138	23	1	318.65	-445.782	D	7.89	7.89	0	3.951	0	0	0	0	0	0
2001	139	23	1	318.65	-445.782	D	7.288	7.288	0	2.653	0	0	0	0	0	0
2001	140	23	1	318.65	-445.782	D	7.627	7.627	0	3.373	0	0	0	0	0	0
2001	141	23	1	318.65	-445.782	D	8.961	8.961	0	6.464	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	6.534	6.534	0	1.131	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	6.54	6.54	0	1.144	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	6.507	6.507	0	1.08	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	6.566	6.566	0	1.193	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	6.546	6.546	0	1.156	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	6.809	6.809	0	1.673	0	0	0	0	0	0
2001	148	23	2401	338.661	-425.669	D	8.048	8.048	0	4.305	94.16	0.02	0	0	0	3.66
2001	149	23	2784	339.87	-426.019	D	6.969	6.968	0.001	1.993	98.18	0.15	0	0	0	1.79
2001	150	23	2307	336.654	-425.258	D	8.428	8.428	0	5.181	90.5	0.38	0	0	0	0.71
2001	151	23	1	318.65	-445.782	D	9.068	9.068	0	6.73	0	0	0	0	0	0
2001	152	23	13	319.06	-443.766	D	7.159	7.157	0.001	2.381	95.31	1.37	0	0	0	3.15
2001	153	23	2209	335.38	-424.564	D	7.183	7.183	0	2.434	92.94	0.67	0	0	0	5.38
2001	154	23	2789	340.496	-426.449	D	7.576	7.576	0	3.264	97.98	0.43	0	0	0	1.5
2001	155	23	1	318.65	-445.782	D	8.894	8.894	0	6.3	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	8.375	8.375	0	5.056	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.624	7.624	0	3.368	0	0	0	0	0	0
2001	158	23	2780	339.614	-425.419	D	8.144	8.143	0	4.522	98.27	0.02	0	0	0	1.17
2001	159	23	1548	330.222	-426.04	D	7.299	7.292	0.007	2.661	99.11	0.11	0	0	0	0.76
2001	160	23	2704	329.056	-425.092	D	7.436	7.431	0.005	2.954	99.13	0.08	0	0	0	0.76
2001	161	23	2709	330.21	-424.978	D	7.765	7.761	0.003	3.667	99.53	0.03	0	0	0	0.46
2001	162	23	2784	339.87	-426.019	D	7.012	7.011	0	2.081	99.29	0.02	0	0	0	0.68
2001	163	23	2037	333.945	-425.876	D	6.864	6.864	0	1.782	92.05	0.01	0	0	0	0.6
2001	164	23	1	318.65	-445.782	D	7.137	7.137	0	2.339	0	0	0	0	0	0
2001	165	23	1	318.65	-445.782	D	7.321	7.321	0	2.721	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	8.275	8.275	0	4.824	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	6.521	6.521	0	1.108	0	0	0	0	0	0
2001	168	23	1	318.65	-445.782	D	6.545	6.545	0	1.153	96.5	0.01	0	0	0	3.13
2001	169	23	639	324.055	-438.55	D	6.675	6.675	0	1.407	96.71	0.02	0	0	0	1.83
2001	170	23	1	318.65	-445.782	D	7.178	7.178	0	2.423	0	0	0	0	0	0
2001	171	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	172	23	2589	318.383	-445.593	D	7.364	7.364	0	2.812	98.44	0.1	0	0	0	1.04
2001	173	23	2588	318.452	-445.8	D	6.845	6.844	0.001	1.744	95.39	0.1	0	0	0	4.47
2001	174	23	2588	318.452	-445.8	D	6.595	6.592	0.003	1.245	95.55	0.1	0	0	0	4.36
2001	175	23	2571	322.646	-445.476	D	6.774	6.773	0.001	1.602	97.98	0.04	0	0	0	2.06
2001	176	23	1	318.65	-445.782	D	8.457	8.451	0.006	5.235	99.38	0.11	0	0	0	0.48

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	177	23	2694	327.861	-425.964	D	7.157	7.155	0.002	2.376	99.11	0.04	0	0	0	0.87
2001	178	23	1242	327.988	-426.138	D	6.932	6.932	0	1.92	98.76	0.04	0	0	0	1.06
2001	179	23	1242	327.988	-426.138	D	9.023	9.022	0.001	6.616	99.36	0.1	0	0	0	0.26
2001	180	23	1046	326.812	-427.688	D	8.697	8.697	0	5.82	96.94	0.03	0	0	0	0.27
2001	181	23	1	318.65	-445.782	D	8.968	8.968	0	6.482	0	0	0	0	0	0
2001	182	23	1	318.65	-445.782	D	9.28	9.28	0	7.268	0	0	0	0	0	0
2001	183	23	2693	327.829	-426.17	D	7.243	7.243	0	2.559	97.98	0.45	0	0	0	1.13
2001	184	23	2036	333.956	-426.126	D	7.387	7.387	0	2.86	91.58	0.01	0	0	0	0.8
2001	185	23	1	318.65	-445.782	D	7.174	7.174	0	2.415	0	0	0	0	0	0
2001	186	23	1	318.65	-445.782	D	6.973	6.973	0	2.003	0	0	0	0	0	0
2001	187	23	2338	337.551	-428.716	D	7.635	7.635	0	3.392	80.53	0	0	0	0	0.78
2001	188	23	2416	339.665	-425.875	D	8.687	8.687	0	5.797	91.27	0.01	0	0	0	0.23
2001	189	23	1	318.65	-445.782	D	7.18	7.18	0	2.428	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.028	7.028	0	2.115	0	0	0	0	0	0
2001	191	23	2789	340.496	-426.449	D	7.25	7.248	0.002	2.57	99.17	0.07	0	0	0	0.75
2001	192	23	2416	339.665	-425.875	D	7.097	7.096	0.001	2.255	98.97	0.04	0	0	0	0.95
2001	193	23	2412	339.417	-425.886	D	7.983	7.982	0	4.158	99.45	0.03	0	0	0	0.4
2001	194	23	2788	340.294	-426.448	D	9.072	9.072	0	6.741	98.47	0.29	0	0	0	0.21
2001	195	23	1	318.65	-445.782	D	6.654	6.654	0	1.367	0	0	0	0	0	0
2001	196	23	1	318.65	-445.782	D	6.685	6.685	0	1.427	0	0	0	0	0	0
2001	197	23	1	318.65	-445.782	D	7.148	7.148	0	2.362	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.972	7.972	0	4.135	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.881	7.881	0	3.931	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.405	7.405	0	2.898	0	0	0	0	0	0
2001	201	23	1	318.65	-445.782	D	7.353	7.353	0	2.789	0	0	0	0	0	0
2001	202	23	1	318.65	-445.782	D	6.852	6.852	0	1.76	0	0	0	0	0	0
2001	203	23	1	318.65	-445.782	D	6.956	6.956	0	1.97	0	0	0	0	0	0
2001	204	23	1	318.65	-445.782	D	7.813	7.813	0	3.782	0	0	0	0	0	0
2001	205	23	1	318.65	-445.782	D	8.301	8.301	0	4.884	0	0	0	0	0	0
2001	206	23	1	318.65	-445.782	D	8.028	8.028	0	4.26	0	0	0	0	0	0
2001	207	23	1	318.65	-445.782	D	9.042	9.042	0	6.666	0	0	0	0	0	0
2001	208	23	1	318.65	-445.782	D	9.026	9.026	0	6.625	0	0	0	0	0	0
2001	209	23	1	318.65	-445.782	D	9.225	9.225	0	7.126	0	0	0	0	0	0
2001	210	23	1	318.65	-445.782	D	9.071	9.071	0	6.738	0	0	0	0	0	0
2001	211	23	1	318.65	-445.782	D	9.169	9.169	0	6.985	0	0	0	0	0	0
2001	212	23	1	318.65	-445.782	D	8.473	8.473	0	5.286	0	0	0	0	0	0
2001	213	23	1	318.65	-445.782	D	8.245	8.245	0	4.754	0	0	0	0	0	0
2001	214	23	1	318.65	-445.782	D	7.764	7.764	0	3.674	0	0	0	0	0	0
2001	215	23	1	318.65	-445.782	D	7.135	7.135	0	2.335	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	216	23	1	318.65	-445.782	D	6.999	6.999	0	2.056	0	0	0	0	0	0
2001	217	23	1	318.65	-445.782	D	7.138	7.138	0	2.34	0	0	0	0	0	0
2001	218	23	1	318.65	-445.782	D	7.208	7.208	0	2.485	0	0	0	0	0	0
2001	219	23	1	318.65	-445.782	D	7.407	7.407	0	2.902	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.7	7.7	0	3.534	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.773	7.773	0	3.694	0	0	0	0	0	0
2001	222	23	1552	330.178	-425.042	D	7.394	7.393	0.001	2.874	98.05	0.03	0	0	0	1.94
2001	223	23	2781	339.842	-425.379	D	9.079	9.067	0.013	6.729	99.08	0.55	0	0	0	0.36
2001	224	23	2468	334.002	-434.887	D	7.417	7.417	0.001	2.923	99.27	0.1	0	0	0	0.63
2001	225	23	2789	340.496	-426.449	D	7.588	7.587	0.001	3.288	98.96	0.4	0	0	0	0.49
2001	226	23	1549	330.211	-425.79	D	6.932	6.932	0	1.92	34.17	0.01	0	0	0	0.44
2001	227	23	1	318.65	-445.782	D	6.848	6.848	0	1.751	0	0	0	0	0	0
2001	228	23	2413	339.406	-425.637	D	7.723	7.723	0	3.584	100.13	1.53	0	0	0	0.37
2001	229	23	623	324.229	-442.54	D	6.681	6.681	0	1.419	19.51	0	0	0	0	0.45
2001	230	23	2408	339.168	-425.897	D	6.933	6.933	0	1.921	100.28	0.04	0	0	0	1.17
2001	231	23	2416	339.665	-425.875	D	6.882	6.882	0	1.819	88.33	0.62	0	0	0	9.76
2001	232	23	1	318.65	-445.782	D	7.006	7.006	0	2.069	95.48	0.03	0	0	0	3.83
2001	233	23	2386	338.533	-428.423	D	7.601	7.601	0	3.318	27.94	0	0	0	0	0.31
2001	234	23	1	318.65	-445.782	D	6.991	6.991	0	2.041	0	0	0	0	0	0
2001	235	23	1	318.65	-445.782	D	7.076	7.076	0	2.213	0	0	0	0	0	0
2001	236	23	1	318.65	-445.782	D	7.113	7.113	0	2.289	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.284	7.284	0	2.645	0	0	0	0	0	0
2001	238	23	1415	329.185	-425.086	D	7.345	7.342	0.002	2.767	97.36	0.45	0	0	0	2.17
2001	239	23	2571	322.646	-445.476	D	7.367	7.365	0.003	2.813	98.67	0.12	0	0	0	1.3
2001	240	23	1	318.65	-445.782	D	6.92	6.92	0	1.895	98.46	0.04	0	0	0	1.5
2001	241	23	1444	329.488	-426.322	D	7.525	7.524	0.001	3.152	98.87	0.07	0	0	0	0.76
2001	242	23	2415	339.676	-426.124	D	8.503	8.502	0.001	5.355	99.19	0.17	0	0	0	0.3
2001	243	23	73	320.074	-444.221	D	8.684	8.684	0	5.788	91.59	0.13	0	0	0	0.27
2001	244	23	1415	329.185	-425.086	D	8.522	8.52	0.002	5.397	99.17	0.19	0	0	0	0.48
2001	245	23	2695	328.074	-426.025	D	8.855	8.85	0.005	6.192	99.49	0.24	0	0	0	0.3
2001	246	23	2762	336.074	-425.006	D	8.291	8.29	0.001	4.859	99.16	0.04	0	0	0	0.46
2001	247	23	1552	330.178	-425.042	D	7.148	7.147	0.001	2.36	98.9	0.02	0	0	0	0.93
2001	248	23	2704	329.056	-425.092	D	7.445	7.444	0.001	2.981	99.06	0.04	0	0	0	0.91
2001	249	23	2275	336.168	-425.529	D	7.486	7.486	0	3.07	99.07	0.02	0	0	0	0.57
2001	250	23	1	318.65	-445.782	D	8.117	8.117	0	4.462	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	9.202	9.202	0	7.068	0	0	0	0	0	0
2001	252	23	1448	329.444	-425.324	D	9.126	9.124	0.001	6.873	96.24	0.18	0	0	0	3.36
2001	253	23	2789	340.496	-426.449	D	7.006	7.004	0.002	2.066	96.51	0.33	0	0	0	3.13
2001	254	23	16	319.027	-443.017	D	6.788	6.787	0.001	1.629	97.19	0.1	0	0	0	2.63

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	255	23	1412	329.218	-425.834	D	6.849	6.849	0	1.753	96.37	0.14	0	0	0	1.76
2001	256	23	2413	339.406	-425.637	D	7.004	7.004	0	2.066	98.26	0.09	0	0	0	1.36
2001	257	23	2236	336.149	-430.776	D	7.48	7.48	0	3.058	98.95	0.08	0	0	0	0.83
2001	258	23	1	318.65	-445.782	D	6.96	6.96	0	1.977	97.6	0.02	0	0	0	1.03
2001	259	23	623	324.229	-442.54	D	6.74	6.74	0	1.536	58.42	0.06	0	0	0	0.94
2001	260	23	1	318.65	-445.782	D	7.078	7.078	0	2.217	0	0	0	0	0	0
2001	261	23	1	318.65	-445.782	D	9.081	9.081	0	6.764	0	0	0	0	0	0
2001	262	23	2597	318.971	-443.851	D	8.584	8.583	0.001	5.548	97.34	0.32	0	0	0	2.36
2001	263	23	2588	318.452	-445.8	D	6.893	6.893	0	1.841	97.29	0.05	0	0	0	2.6
2001	264	23	2255	335.942	-426.039	D	7.207	7.206	0.001	2.481	98.54	0.14	0	0	0	1.18
2001	265	23	2588	318.452	-445.8	D	7.164	7.163	0.001	2.391	97.66	0.43	0	0	0	1.73
2001	266	23	1415	329.185	-425.086	D	7.987	7.986	0.001	4.165	98.16	0.98	0	0	0	0.65
2001	267	23	2588	318.452	-445.8	D	8.609	8.604	0.005	5.597	97.76	1.99	0	0	0	0.27
2001	268	23	1	318.65	-445.782	D	6.641	6.641	0	1.341	0	0	0	0	0	0
2001	269	23	1	318.65	-445.782	D	6.543	6.543	0	1.15	0	0	0	0	0	0
2001	270	23	1	318.65	-445.782	D	6.643	6.643	0	1.344	0	0	0	0	0	0
2001	271	23	1242	327.988	-426.138	D	6.712	6.712	0	1.48	90.69	0.3	0	0	0	1.57
2001	272	23	1	318.65	-445.782	D	7.084	7.084	0	2.229	0	0	0	0	0	0
2001	273	23	1	318.65	-445.782	D	7.066	7.066	0	2.193	0	0	0	0	0	0
2001	274	23	1	318.65	-445.782	D	7.111	7.111	0	2.285	0	0	0	0	0	0
2001	275	23	1	318.65	-445.782	D	6.85	6.85	0	1.755	0	0	0	0	0	0
2001	276	23	1	318.65	-445.782	D	7.64	7.64	0	3.401	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	8.468	8.468	0	5.274	0	0	0	0	0	0
2001	278	23	1483	329.682	-425.064	D	9.643	9.642	0.001	8.208	98.27	1.21	0	0	0	0.25
2001	279	23	14	319.049	-443.516	D	7.154	7.153	0	2.373	94.49	1.49	0	0	0	3.76
2001	280	23	2788	340.294	-426.448	D	6.558	6.557	0	1.177	94.77	1.01	0	0	0	4.18
2001	281	23	1047	326.802	-427.438	D	6.608	6.608	0	1.276	90.63	0.3	0	0	0	2.76
2001	282	23	1	318.65	-445.782	D	7.968	7.968	0	4.125	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	284	23	2276	336.157	-425.28	D	10.176	10.176	0	9.662	57.81	0.28	0	0	0	0.35
2001	285	23	2704	329.056	-425.092	D	9.669	9.667	0.001	8.276	97.55	1.85	0	0	0	0.43
2001	286	23	1548	330.222	-426.04	D	9.959	9.956	0.003	9.054	98.79	0.64	0	0	0	0.44
2001	287	23	2210	335.901	-430.787	D	7.512	7.507	0.005	3.115	98.13	1.51	0	0	0	0.37
2001	288	23	1	318.65	-445.782	D	6.929	6.929	0	1.915	0	0	0	0	0	0
2001	289	23	2781	339.842	-425.379	D	7.145	7.142	0.002	2.35	95.66	3.03	0	0	0	1.33
2001	290	23	2236	336.149	-430.776	D	6.489	6.488	0.001	1.043	89.34	2.9	0	0	0	7.93
2001	291	23	2789	340.496	-426.449	D	6.549	6.548	0	1.16	95.91	1.11	0	0	0	2.71
2001	292	23	1	318.65	-445.782	D	6.799	6.799	0	1.653	0	0	0	0	0	0
2001	293	23	2684	326.713	-427.014	D	8.385	8.385	0	5.079	96.08	1.09	0	0	0	0.63

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	294	23	1	318.65	-445.782	D	9.362	9.362	0	7.476	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	9.29	9.29	0	7.294	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	297	23	2415	339.676	-426.124	D	9.501	9.501	0	7.837	94.81	1.47	0	0	0	3.5
2001	298	23	1	318.65	-445.782	D	6.508	6.508	0	1.081	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	300	23	1048	326.791	-427.189	D	6.472	6.472	0	1.012	79.64	7.97	0	0	0	12.09
2001	301	23	199	320.795	-437.944	D	6.478	6.478	0	1.023	92.44	1.03	0	0	0	2.94
2001	302	23	1549	330.211	-425.79	D	6.499	6.499	0	1.065	26.2	0.05	0	0	0	0.4
2001	303	23	1	318.65	-445.782	D	6.572	6.572	0	1.207	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	6.695	6.695	0	1.447	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	9.032	9.032	0	6.64	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	9.835	9.835	0	8.726	0	0	0	0	0	0
2001	307	23	2781	339.842	-425.379	D	9.677	9.675	0.002	8.296	97.5	1.96	0	0	0	0.48
2001	308	23	1242	327.988	-426.138	D	6.938	6.937	0	1.931	98.17	0.32	0	0	0	1.45
2001	309	23	2781	339.842	-425.379	D	8.378	8.368	0.01	5.041	97.06	2.01	0	0	0	0.92
2001	310	23	2708	329.979	-425	D	8.056	8.048	0.008	4.305	98.49	0.74	0	0	0	0.75
2001	311	23	607	323.774	-437.813	D	7.216	7.213	0.003	2.497	98.54	0.3	0	0	0	1.22
2001	312	23	2789	340.496	-426.449	D	7.269	7.268	0.001	2.612	97.77	0.29	0	0	0	1.85
2001	313	23	201	321.37	-445.413	D	6.615	6.615	0	1.289	95.8	0.38	0	0	0	2.62
2001	314	23	1	318.65	-445.782	D	6.787	6.786	0.001	1.628	94.9	1.7	0	0	0	3.35
2001	315	23	2788	340.294	-426.448	D	6.799	6.799	0	1.653	94.24	0.8	0	0	0	4.39
2001	316	23	3	318.888	-445.522	D	6.628	6.627	0	1.314	92.86	1.49	0	0	0	5.1
2001	317	23	199	320.795	-437.944	D	6.698	6.698	0	1.453	94.77	0.64	0	0	0	2.76
2001	318	23	1	318.65	-445.782	D	7.492	7.492	0	3.083	0	0	0	0	0	0
2001	319	23	1	318.65	-445.782	D	8.023	8.023	0	4.249	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.729	7.729	0	3.597	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.103	7.103	0	2.268	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	8.032	8.032	0	4.27	0	0	0	0	0	0
2001	323	23	2788	340.294	-426.448	D	8.464	8.463	0.001	5.264	74.84	22.07	0	0	0	2.87
2001	324	23	2602	319.088	-442.669	D	6.476	6.475	0	1.018	76.39	9.54	0	0	0	14.22
2001	325	23	1951	333.842	-434.874	D	6.471	6.471	0	1.009	91.26	3.61	0	0	0	5.5
2001	326	23	2412	339.417	-425.886	D	6.53	6.53	0	1.125	95.84	1.43	0	0	0	2.7
2001	327	23	1	318.65	-445.782	D	8.475	8.475	0	5.291	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	8.774	8.774	0	6.006	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	6.66	6.66	0	1.377	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.063	7.063	0	2.186	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.026	7.026	0	2.111	0	0	0	0	0	0
2001	332	23	2571	322.646	-445.476	D	9.271	9.266	0.005	7.232	91.34	8.02	0	0	0	0.62

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	333	23	2571	322.646	-445.476	D	10.218	10.218	0	9.779	95.22	3.89	0	0	0	0.19
2001	334	23	2588	318.452	-445.8	D	8.544	8.541	0.002	5.448	87.68	10.76	0	0	0	1.57
2001	335	23	1	318.65	-445.782	D	6.625	6.625	0	1.31	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	6.688	6.688	0	1.434	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	6.971	6.971	0	1.999	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.231	7.231	0	2.534	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	9.653	9.653	0	8.239	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	9.943	9.943	0	9.018	0	0	0	0	0	0
2001	341	23	1550	330.2	-425.541	D	8.531	8.531	0	5.424	54.16	0.97	0	0	0	0.81
2001	342	23	2708	329.979	-425	D	8.446	8.445	0.001	5.22	90.77	5.1	0	0	0	4.14
2001	343	23	412	322.208	-436.133	D	6.601	6.601	0	1.262	84.51	7.38	0	0	0	7.91
2001	344	23	1	318.65	-445.782	D	6.522	6.522	0	1.109	91.07	4.2	0	0	0	4.96
2001	345	23	2588	318.452	-445.8	D	6.603	6.603	0	1.266	93.4	2.97	0	0	0	3.17
2001	346	23	1	318.65	-445.782	D	9.752	9.752	0	8.503	0	0	0	0	0	0
2001	347	23	2628	320.933	-436.998	D	9.791	9.791	0	8.607	95.59	3.77	0	0	0	0.5
2001	348	23	2588	318.452	-445.8	D	9.536	9.503	0.034	7.842	95.51	3.97	0	0	0	0.52
2001	349	23	2789	340.496	-426.449	D	9.086	9.077	0.009	6.753	97.47	2.13	0	0	0	0.39
2001	350	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	351	23	2758	335.862	-424.454	D	9.54	9.531	0.009	7.917	93.24	5.75	0	0	0	1.02
2001	352	23	1	318.65	-445.782	D	6.544	6.544	0	1.152	0	0	0	0	0	0
2001	353	23	2588	318.452	-445.8	D	6.816	6.815	0.001	1.686	82.95	9.08	0	0	0	7.81
2001	354	23	1553	330.82	-434.007	D	6.47	6.47	0	1.009	76.11	9.53	0	0	0	13.93
2001	355	23	1	318.65	-445.782	D	6.487	6.487	0	1.042	0	0	0	0	0	0
2001	356	23	1	318.65	-445.782	D	8.259	8.259	0	4.788	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	6.641	6.641	0	1.34	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	6.479	6.479	0	1.026	0	0	0	0	0	0
2001	359	23	2781	339.842	-425.379	D	6.506	6.506	0.001	1.077	71.01	14.44	0	0	0	14.35
2001	360	23	2758	335.862	-424.454	D	6.537	6.536	0.001	1.137	64.47	18.98	0	0	0	16.49
2001	361	23	1	318.65	-445.782	D	6.605	6.605	0	1.269	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2001	363	23	2781	339.842	-425.379	D	6.617	6.617	0.001	1.293	73.56	14.78	0	0	0	11.54
2001	364	23	2789	340.496	-426.449	D	6.55	6.55	0.001	1.163	73.1	13.86	0	0	0	12.83
2001	365	23	2788	340.294	-426.448	D	6.615	6.615	0	1.29	75.13	14.38	0	0	0	10.27
									0.034							
TRIGEN KC											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	2418	339.946	-426.612	D	7.495	7.495	0	3.09	46.48	4.03	0	0	0	0.17

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	2	23	2789	340.496	-426.449	D	7.441	7.421	0.02	2.932	94.72	5.06	0	0	0	0.22
2001	3	23	2789	340.496	-426.449	D	7.77	7.761	0.009	3.667	96.43	3.45	0	0	0	0.1
2001	4	23	1	318.65	-445.782	D	7.031	7.031	0	2.121	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	6.931	6.931	0	1.919	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	6.551	6.551	0	1.165	0	0	0	0	0	0
2001	7	23	2694	327.861	-425.964	D	7.159	7.147	0.011	2.36	86.18	13.15	0	0	0	0.67
2001	8	23	2781	339.842	-425.379	D	8.388	8.383	0.005	5.075	95.08	4.7	0	0	0	0.24
2001	9	23	2758	335.862	-424.454	D	9.796	9.717	0.079	8.408	96.37	3.57	0	0	0	0.06
2001	10	23	2694	327.861	-425.964	D	7.023	7	0.023	2.059	97.17	2.7	0	0	0	0.13
2001	11	23	2758	335.862	-424.454	D	9.136	9.135	0	6.9	98.07	1.74	0	0	0	0.17
2001	12	23	1	318.65	-445.782	D	9.519	9.519	0	7.886	0	0	0	0	0	0
2001	13	23	1	318.65	-445.782	D	9.698	9.698	0	8.359	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	9.396	9.396	0	7.566	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	6.74	6.74	0	1.537	0	0	0	0	0	0
2001	16	23	2781	339.842	-425.379	D	6.788	6.786	0.003	1.627	89.7	9.11	0	0	0	1.24
2001	17	23	2588	318.452	-445.8	D	6.87	6.869	0.002	1.793	90.74	8.55	0	0	0	0.69
2001	18	23	2684	326.713	-427.014	D	6.91	6.909	0.001	1.874	95.91	3.47	0	0	0	0.57
2001	19	23	2597	318.971	-443.851	D	6.908	6.902	0.005	1.861	86.81	12.25	0	0	0	0.9
2001	20	23	2117	334.766	-427.589	D	6.568	6.561	0.007	1.184	86.05	12.36	0	0	0	1.61
2001	21	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	22	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	6.621	6.621	0	1.303	0	0	0	0	0	0
2001	24	23	2704	329.056	-425.092	D	6.742	6.738	0.004	1.533	95.94	3.65	0	0	0	0.39
2001	25	23	2588	318.452	-445.8	D	6.568	6.568	0	1.197	89.03	9.15	0	0	0	1.54
2001	26	23	863	325.509	-431.992	D	6.552	6.552	0	1.166	18.42	1.05	0	0	0	0.13
2001	27	23	2682	326.697	-427.477	D	6.684	6.683	0.001	1.422	79.73	18.06	0	0	0	2.11
2001	28	23	2588	318.452	-445.8	D	6.528	6.528	0	1.12	90.74	7.97	0	0	0	0.48
2001	29	23	1	318.65	-445.782	D	8.908	8.908	0	6.335	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	6.819	6.819	0	1.692	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.016	7.016	0	2.09	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	6.478	6.478	0	1.025	0	0	0	0	0	0
2001	33	23	2417	339.654	-425.626	D	6.552	6.552	0	1.167	78.8	13.08	0	0	0	1.61
2001	34	23	1	318.65	-445.782	D	6.476	6.476	0	1.019	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	6.617	6.617	0	1.293	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	6.583	6.583	0	1.226	0	0	0	0	0	0
2001	37	23	2239	336.117	-430.028	D	6.518	6.518	0	1.101	25.14	0.5	0	0	0	0.35
2001	38	23	1550	330.2	-425.541	D	7.856	7.856	0	3.876	88.64	4.45	0	0	0	0.9
2001	39	23	1	318.65	-445.782	D	10.07	10.07	0	9.369	0	0	0	0	0	0
2001	40	23	2704	329.056	-425.092	D	9.4	9.39	0.01	7.55	97.1	2.86	0	0	0	0.02

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	41	23	2514	327.388	-436.775	D	6.678	6.675	0.002	1.409	81.87	16.2	0	0	0	1.92
2001	42	23	2588	318.452	-445.8	D	6.471	6.471	0	1.01	91.07	7	0	0	0	0.83
2001	43	23	1	318.65	-445.782	D	6.879	6.879	0	1.812	0	0	0	0	0	0
2001	44	23	1	318.65	-445.782	D	9.412	9.412	0	7.606	0	0	0	0	0	0
2001	45	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	46	23	12	319.07	-444.015	D	9.526	9.303	0.223	7.326	97.44	2.51	0	0	0	0.05
2001	47	23	2456	334.644	-432.056	D	8.308	8.241	0.066	4.747	96.55	3.37	0	0	0	0.08
2001	48	23	1	318.65	-445.782	D	6.531	6.531	0	1.127	0	0	0	0	0	0
2001	49	23	200	320.784	-437.694	D	6.473	6.473	0	1.013	92.67	4.95	0	0	0	0.65
2001	50	23	1550	330.2	-425.541	D	6.497	6.497	0	1.06	90	3.53	0	0	0	0.41
2001	51	23	1	318.65	-445.782	D	9.197	9.197	0	7.056	0	0	0	0	0	0
2001	52	23	2695	328.074	-426.025	D	8.127	8.125	0.003	4.479	97.71	2.23	0	0	0	0.07
2001	53	23	660	324.477	-442.529	D	7.107	7.106	0.001	2.275	97.4	2.18	0	0	0	0.1
2001	54	23	1551	330.189	-425.292	D	6.793	6.793	0	1.642	93.5	4.05	0	0	0	0.54
2001	55	23	1	318.65	-445.782	D	9.447	9.447	0	7.697	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.222	7.222	0	2.515	0	0	0	0	0	0
2001	57	23	2781	339.842	-425.379	D	6.499	6.499	0	1.064	97.19	2.15	0	0	0	0.76
2001	58	23	1415	329.185	-425.086	D	6.523	6.522	0.001	1.108	97.41	2.17	0	0	0	0.37
2001	59	23	2624	320.719	-437.835	D	7.107	7.106	0	2.275	97.28	2.15	0	0	0	0.08
2001	60	23	199	320.795	-437.944	D	6.718	6.718	0	1.493	99.38	1.55	0	0	0	0.11
2001	61	23	2708	329.979	-425	D	8.571	8.571	0	5.518	94.78	1	0	0	0	0.03
2001	62	23	2788	340.294	-426.448	D	6.731	6.731	0	1.518	92.43	2.1	0	0	0	0.43
2001	63	23	2597	318.971	-443.851	D	6.628	6.618	0.01	1.296	96.92	2.71	0	0	0	0.37
2001	64	23	2651	323.652	-433.662	D	6.539	6.533	0.006	1.13	89.42	8.97	0	0	0	1.59
2001	65	23	2789	340.496	-426.449	D	6.527	6.526	0.002	1.116	88.08	10.35	0	0	0	1.47
2001	66	23	2684	326.713	-427.014	D	6.473	6.471	0.002	1.011	98.12	1.23	0	0	0	0.7
2001	67	23	2781	339.842	-425.379	D	6.551	6.541	0.01	1.146	96.66	2.75	0	0	0	0.59
2001	68	23	2789	340.496	-426.449	D	6.493	6.493	0.001	1.052	88.77	9.17	0	0	0	1.9
2001	69	23	13	319.06	-443.766	D	6.471	6.471	0	1.01	96.64	1.73	0	0	0	0.62
2001	70	23	1509	330.017	-427.048	D	6.506	6.506	0	1.077	84.94	1.36	0	0	0	0.36
2001	71	23	2274	336.179	-425.778	D	8.827	8.827	0	6.136	61.38	0.64	0	0	0	0.09
2001	72	23	1	318.65	-445.782	D	6.558	6.558	0	1.178	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	74	23	1	318.65	-445.782	D	9.736	9.736	0	8.459	0	0	0	0	0	0
2001	75	23	2588	318.452	-445.8	D	7.889	7.879	0.01	3.926	93.15	6.59	0	0	0	0.26
2001	76	23	2040	333.912	-425.128	D	6.588	6.587	0.001	1.235	83.68	14.04	0	0	0	2.18
2001	77	23	1	318.65	-445.782	D	6.502	6.502	0	1.069	0	0	0	0	0	0
2001	78	23	1	318.65	-445.782	D	6.479	6.479	0	1.026	0	0	0	0	0	0
2001	79	23	168	320.568	-438.453	D	6.496	6.496	0	1.058	99.01	1.3	0	0	0	0.33

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	80	23	2588	318.452	-445.8	D	6.473	6.473	0.001	1.013	98.28	1.03	0	0	0	0.44
2001	81	23	2704	329.056	-425.092	D	6.492	6.49	0.002	1.046	98.65	0.88	0	0	0	0.32
2001	82	23	2781	339.842	-425.379	D	6.667	6.665	0.001	1.388	98.86	0.88	0	0	0	0.21
2001	83	23	1445	329.477	-426.072	D	6.768	6.766	0.002	1.587	98.97	0.8	0	0	0	0.09
2001	84	23	2626	320.826	-437.417	D	6.472	6.472	0	1.012	93.5	5.02	0	0	0	1.23
2001	85	23	2588	318.452	-445.8	D	6.482	6.478	0.003	1.024	93.28	5.9	0	0	0	0.81
2001	86	23	1	318.65	-445.782	D	6.468	6.468	0	1.005	96.44	1.87	0	0	0	0.45
2001	87	23	2617	320.215	-439.334	D	6.527	6.527	0.001	1.118	97.52	2.19	0	0	0	0.25
2001	88	23	1242	327.988	-426.138	D	7.39	7.39	0	2.867	98.3	1.05	0	0	0	0.09
2001	89	23	1242	327.988	-426.138	D	9.158	9.157	0.001	6.956	99.11	0.78	0	0	0	0.03
2001	90	23	707	324.529	-438.03	D	7.576	7.576	0	3.264	99.19	0.71	0	0	0	0.05
2001	91	23	2789	340.496	-426.449	D	6.481	6.48	0	1.028	94.77	3.94	0	0	0	1.66
2001	92	23	1	318.65	-445.782	D	7.269	7.269	0	2.613	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	10.042	10.042	0	9.289	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	9.747	9.747	0	8.488	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	8.549	8.549	0	5.467	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.507	7.507	0	3.115	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.503	7.503	0	3.108	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.145	7.145	0	2.355	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.606	7.606	0	3.329	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	9.338	9.338	0	7.417	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	6.571	6.571	0	1.204	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.079	7.079	0	2.219	0	0	0	0	0	0
2001	105	23	2781	339.842	-425.379	D	8.945	8.943	0.002	6.422	98.87	0.71	0	0	0	0.31
2001	106	23	2789	340.496	-426.449	D	6.504	6.503	0.001	1.073	93.89	4.56	0	0	0	1.54
2001	107	23	1415	329.185	-425.086	D	6.48	6.479	0.001	1.026	94.09	4.26	0	0	0	1.64
2001	108	23	2684	326.713	-427.014	D	6.479	6.477	0.002	1.022	98.63	0.91	0	0	0	0.45
2001	109	23	2788	340.294	-426.448	D	6.569	6.568	0.001	1.198	99.25	0.37	0	0	0	0.24
2001	110	23	1	318.65	-445.782	D	10.01	10.01	0	9.202	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	8.281	8.281	0	4.837	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	8.135	8.135	0	4.503	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	8.008	8.008	0	4.216	0	0	0	0	0	0
2001	114	23	2684	326.713	-427.014	D	6.505	6.504	0.001	1.074	98.53	0.54	0	0	0	0.92
2001	115	23	2589	318.383	-445.593	D	6.48	6.478	0.002	1.024	98.75	0.72	0	0	0	0.52
2001	116	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	6.586	6.586	0	1.232	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	6.585	6.585	0	1.231	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	119	23	1	318.65	-445.782	D	6.867	6.867	0	1.788	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.147	7.147	0	2.358	0	0	0	0	0	0
2001	121	23	1	318.65	-445.782	D	6.839	6.839	0	1.734	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.129	7.129	0	2.323	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.25	7.25	0	2.573	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	8.868	8.868	0	6.236	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	8.924	8.924	0	6.374	0	0	0	0	0	0
2001	127	23	2781	339.842	-425.379	D	8.407	8.405	0.002	5.127	99.42	0.1	0	0	0	0.51
2001	128	23	2588	318.452	-445.8	D	6.582	6.575	0.007	1.212	99.42	0.2	0	0	0	0.39
2001	129	23	12	319.07	-444.015	D	6.887	6.883	0.004	1.822	99.75	0.1	0	0	0	0.14
2001	130	23	2788	340.294	-426.448	D	6.953	6.953	0	1.963	99.12	0.06	0	0	0	0.09
2001	131	23	1	318.65	-445.782	D	8.246	8.246	0	4.756	0	0	0	0	0	0
2001	132	23	2789	340.496	-426.449	D	8.784	8.769	0.015	5.994	98.25	1.72	0	0	0	0.04
2001	133	23	2588	318.452	-445.8	D	6.563	6.561	0.002	1.185	99.68	0.02	0	0	0	0.18
2001	134	23	1282	328.236	-426.127	D	6.759	6.758	0.001	1.572	99.68	0.03	0	0	0	0.11
2001	135	23	1	318.65	-445.782	D	6.961	6.961	0	1.979	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.897	7.897	0	3.966	0	0	0	0	0	0
2001	138	23	2628	320.933	-436.998	D	7.725	7.72	0.005	3.577	99.7	0.22	0	0	0	0.06
2001	139	23	2694	327.861	-425.964	D	7.751	7.713	0.038	3.561	99.8	0.15	0	0	0	0.04
2001	140	23	1282	328.236	-426.127	D	7.562	7.556	0.007	3.22	99.66	0.22	0	0	0	0.08
2001	141	23	2781	339.842	-425.379	D	8.844	8.843	0.001	6.174	99.18	0.69	0	0	0	0.02
2001	142	23	1	318.65	-445.782	D	6.534	6.534	0	1.131	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	6.54	6.54	0	1.144	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	6.507	6.507	0	1.08	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	6.566	6.566	0	1.193	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	6.546	6.546	0	1.156	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	6.809	6.809	0	1.673	0	0	0	0	0	0
2001	148	23	2781	339.842	-425.379	D	8.048	8.048	0	4.305	99.78	0.01	0	0	0	0.28
2001	149	23	2789	340.496	-426.449	D	6.978	6.968	0.01	1.993	99.76	0.09	0	0	0	0.13
2001	150	23	2758	335.862	-424.454	D	8.485	8.484	0.002	5.312	99.74	0.15	0	0	0	0.08
2001	151	23	1412	329.218	-425.834	D	9.006	9.006	0	6.576	96.84	0.29	0	0	0	0.05
2001	152	23	2789	340.496	-426.449	D	7.049	7.049	0	2.158	97.42	1.1	0	0	0	0.45
2001	153	23	2784	339.87	-426.019	D	7.14	7.138	0.002	2.341	99.1	0.21	0	0	0	0.69
2001	154	23	2789	340.496	-426.449	D	7.579	7.576	0.003	3.264	99.5	0.36	0	0	0	0.11
2001	155	23	1	318.65	-445.782	D	8.894	8.894	0	6.3	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	8.375	8.375	0	5.056	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.624	7.624	0	3.368	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	158	23	2781	339.842	-425.379	D	8.147	8.143	0.004	4.522	99.8	0.04	0	0	0	0.1
2001	159	23	2684	326.713	-427.014	D	7.331	7.283	0.048	2.642	99.83	0.11	0	0	0	0.06
2001	160	23	2589	318.383	-445.593	D	7.381	7.36	0.021	2.804	99.92	0.02	0	0	0	0.06
2001	161	23	2709	330.21	-424.978	D	7.783	7.761	0.022	3.667	99.94	0.03	0	0	0	0.04
2001	162	23	2784	339.87	-426.019	D	7.013	7.011	0.002	2.081	99.89	0.01	0	0	0	0.06
2001	163	23	2182	335.131	-424.575	D	6.864	6.864	0	1.782	97.43	0.01	0	0	0	0.05
2001	164	23	1	318.65	-445.782	D	7.137	7.137	0	2.339	0	0	0	0	0	0
2001	165	23	1	318.65	-445.782	D	7.321	7.321	0	2.721	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	8.275	8.275	0	4.824	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	6.521	6.521	0	1.108	0	0	0	0	0	0
2001	168	23	2571	322.646	-445.476	D	6.546	6.545	0.001	1.153	99.74	0.01	0	0	0	0.26
2001	169	23	2789	340.496	-426.449	D	6.653	6.651	0.003	1.36	99.83	0.01	0	0	0	0.18
2001	170	23	2758	335.862	-424.454	D	7.001	7.001	0.001	2.059	99.82	0.01	0	0	0	0.11
2001	171	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	172	23	1513	329.974	-426.051	D	7.34	7.314	0.027	2.706	99.83	0.09	0	0	0	0.08
2001	173	23	2588	318.452	-445.8	D	6.851	6.844	0.007	1.744	99.62	0.1	0	0	0	0.27
2001	174	23	2469	333.771	-434.951	D	6.62	6.606	0.015	1.271	99.37	0.16	0	0	0	0.46
2001	175	23	2571	322.646	-445.476	D	6.774	6.773	0.001	1.602	99.84	0.04	0	0	0	0.23
2001	176	23	2588	318.452	-445.8	D	8.461	8.451	0.01	5.235	99.89	0.05	0	0	0	0.04
2001	177	23	2694	327.861	-425.964	D	7.156	7.155	0.001	2.376	99.82	0.03	0	0	0	0.07
2001	178	23	1242	327.988	-426.138	D	6.932	6.932	0	1.92	99.35	0.04	0	0	0	0.09
2001	179	23	1040	326.878	-429.184	D	9.022	9.022	0	6.616	91.6	0.01	0	0	0	0.02
2001	180	23	1	318.65	-445.782	D	8.855	8.855	0	6.204	0	0	0	0	0	0
2001	181	23	1	318.65	-445.782	D	8.968	8.968	0	6.482	0	0	0	0	0	0
2001	182	23	1415	329.185	-425.086	D	9.396	9.396	0	7.564	98.6	0	0	0	0	0.17
2001	183	23	2695	328.074	-426.025	D	7.246	7.243	0.003	2.559	99.74	0.17	0	0	0	0.07
2001	184	23	2758	335.862	-424.454	D	7.355	7.355	0	2.793	99.4	0.01	0	0	0	0.05
2001	185	23	1	318.65	-445.782	D	7.174	7.174	0	2.415	0	0	0	0	0	0
2001	186	23	2781	339.842	-425.379	D	7.043	7.042	0	2.144	99.96	0	0	0	0	0.18
2001	187	23	2789	340.496	-426.449	D	7.651	7.635	0.015	3.392	99.92	0.02	0	0	0	0.06
2001	188	23	2789	340.496	-426.449	D	8.719	8.713	0.006	5.859	99.97	0.01	0	0	0	0.02
2001	189	23	1	318.65	-445.782	D	7.18	7.18	0	2.428	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.028	7.028	0	2.115	0	0	0	0	0	0
2001	191	23	2789	340.496	-426.449	D	7.259	7.248	0.011	2.57	99.84	0.07	0	0	0	0.09
2001	192	23	2781	339.842	-425.379	D	7.11	7.096	0.014	2.255	99.86	0.02	0	0	0	0.13
2001	193	23	2571	322.646	-445.476	D	7.59	7.589	0	3.293	99.98	0.01	0	0	0	0.07
2001	194	23	1	318.65	-445.782	D	9.103	9.103	0	6.82	0	0	0	0	0	0
2001	195	23	1	318.65	-445.782	D	6.654	6.654	0	1.367	0	0	0	0	0	0
2001	196	23	1	318.65	-445.782	D	6.685	6.685	0	1.427	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	197	23	1	318.65	-445.782	D	7.148	7.148	0	2.362	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.972	7.972	0	4.135	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.881	7.881	0	3.931	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.405	7.405	0	2.898	0	0	0	0	0	0
2001	201	23	1	318.65	-445.782	D	7.353	7.353	0	2.789	0	0	0	0	0	0
2001	202	23	1	318.65	-445.782	D	6.852	6.852	0	1.76	0	0	0	0	0	0
2001	203	23	1	318.65	-445.782	D	6.956	6.956	0	1.97	0	0	0	0	0	0
2001	204	23	1	318.65	-445.782	D	7.813	7.813	0	3.782	0	0	0	0	0	0
2001	205	23	1	318.65	-445.782	D	8.301	8.301	0	4.884	0	0	0	0	0	0
2001	206	23	1	318.65	-445.782	D	8.028	8.028	0	4.26	0	0	0	0	0	0
2001	207	23	2209	335.38	-424.564	D	8.965	8.965	0	6.475	99.09	0.02	0	0	0	0.07
2001	208	23	2784	339.87	-426.019	D	8.907	8.905	0.002	6.326	99.76	0.17	0	0	0	0.02
2001	209	23	1513	329.974	-426.051	D	9.157	9.156	0.001	6.952	99.65	0.12	0	0	0	0.02
2001	210	23	1989	333.97	-432.12	D	8.928	8.928	0	6.384	99.77	0.08	0	0	0	0.02
2001	211	23	2789	340.496	-426.449	D	8.622	8.621	0.001	5.638	99.87	0.04	0	0	0	0.06
2001	212	23	2781	339.842	-425.379	D	8.492	8.49	0.002	5.325	99.93	0.01	0	0	0	0.02
2001	213	23	2399	338.683	-426.168	D	8.238	8.238	0	4.738	99.31	0	0	0	0	0.02
2001	214	23	1	318.65	-445.782	D	7.764	7.764	0	3.674	0	0	0	0	0	0
2001	215	23	1	318.65	-445.782	D	7.135	7.135	0	2.335	0	0	0	0	0	0
2001	216	23	2789	340.496	-426.449	D	7.054	7.049	0.005	2.158	99.77	0.11	0	0	0	0.1
2001	217	23	2588	318.452	-445.8	D	7.138	7.138	0	2.34	99.64	0.02	0	0	0	0.07
2001	218	23	13	319.06	-443.766	D	7.255	7.255	0	2.583	17.47	0	0	0	0	0.02
2001	219	23	1	318.65	-445.782	D	7.407	7.407	0	2.902	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.7	7.7	0	3.534	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.773	7.773	0	3.694	0	0	0	0	0	0
2001	222	23	2709	330.21	-424.978	D	7.395	7.393	0.002	2.874	99.81	0.02	0	0	0	0.21
2001	223	23	2781	339.842	-425.379	D	9.104	9.067	0.037	6.729	99.45	0.51	0	0	0	0.03
2001	224	23	2588	318.452	-445.8	D	7.397	7.393	0.003	2.874	99.8	0.08	0	0	0	0.08
2001	225	23	2790	340.421	-426.562	D	7.59	7.587	0.003	3.288	99.57	0.33	0	0	0	0.04
2001	226	23	199	320.795	-437.944	D	6.929	6.929	0	1.914	59.82	0.01	0	0	0	0.06
2001	227	23	1	318.65	-445.782	D	6.848	6.848	0	1.751	0	0	0	0	0	0
2001	228	23	2784	339.87	-426.019	D	7.582	7.582	0	3.277	98.34	0.5	0	0	0	0.03
2001	229	23	1951	333.842	-434.874	D	6.683	6.683	0	1.423	97.65	0.01	0	0	0	0.24
2001	230	23	2789	340.496	-426.449	D	6.948	6.948	0	1.953	99.64	0.02	0	0	0	0.11
2001	231	23	2779	339.386	-425.461	D	6.882	6.882	0	1.819	96.9	1	0	0	0	1.64
2001	232	23	2694	327.861	-425.964	D	7.033	7.024	0.009	2.106	99.69	0.13	0	0	0	0.18
2001	233	23	2789	340.496	-426.449	D	7.601	7.601	0	3.318	99.41	0.01	0	0	0	0.07
2001	234	23	1	318.65	-445.782	D	6.991	6.991	0	2.041	0	0	0	0	0	0
2001	235	23	1	318.65	-445.782	D	7.076	7.076	0	2.213	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	236	23	1	318.65	-445.782	D	7.113	7.113	0	2.289	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.284	7.284	0	2.645	0	0	0	0	0	0
2001	238	23	2781	339.842	-425.379	D	7.362	7.358	0.005	2.799	99.45	0.27	0	0	0	0.27
2001	239	23	2588	318.452	-445.8	D	7.373	7.365	0.008	2.813	99.71	0.18	0	0	0	0.13
2001	240	23	2588	318.452	-445.8	D	6.926	6.92	0.007	1.895	99.83	0.06	0	0	0	0.12
2001	241	23	2597	318.971	-443.851	D	7.657	7.646	0.011	3.415	99.84	0.08	0	0	0	0.06
2001	242	23	2784	339.87	-426.019	D	8.51	8.502	0.008	5.355	99.77	0.19	0	0	0	0.03
2001	243	23	1387	329.491	-432.067	D	8.449	8.448	0	5.228	99.31	0.17	0	0	0	0.03
2001	244	23	2704	329.056	-425.092	D	8.538	8.52	0.018	5.397	99.68	0.26	0	0	0	0.05
2001	245	23	2693	327.829	-426.17	D	8.867	8.85	0.017	6.192	99.84	0.13	0	0	0	0.03
2001	246	23	1548	330.222	-426.04	D	8.281	8.278	0.004	4.83	99.88	0.02	0	0	0	0.04
2001	247	23	2710	330.44	-424.955	D	7.151	7.147	0.003	2.36	99.86	0.02	0	0	0	0.08
2001	248	23	2762	336.074	-425.006	D	7.523	7.518	0.006	3.139	99.87	0.04	0	0	0	0.06
2001	249	23	2277	336.146	-425.03	D	7.486	7.486	0	3.07	99.82	0.01	0	0	0	0.05
2001	250	23	1	318.65	-445.782	D	8.117	8.117	0	4.462	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	9.202	9.202	0	7.068	0	0	0	0	0	0
2001	252	23	2704	329.056	-425.092	D	9.138	9.124	0.013	6.873	99.42	0.3	0	0	0	0.27
2001	253	23	2789	340.496	-426.449	D	7.012	7.004	0.008	2.066	98.91	0.61	0	0	0	0.47
2001	254	23	2589	318.383	-445.593	D	6.785	6.784	0.001	1.623	99.46	0.06	0	0	0	0.36
2001	255	23	2628	320.933	-436.998	D	6.844	6.844	0	1.744	98.97	0.08	0	0	0	0.14
2001	256	23	2781	339.842	-425.379	D	7.005	7.004	0.001	2.066	99.85	0.1	0	0	0	0.13
2001	257	23	2762	336.074	-425.006	D	7.477	7.473	0.004	3.044	99.77	0.14	0	0	0	0.07
2001	258	23	690	324.128	-434.55	D	6.983	6.983	0	2.024	99.67	0.02	0	0	0	0.07
2001	259	23	1509	330.017	-427.048	D	6.726	6.726	0	1.508	93.52	0.14	0	0	0	0.1
2001	260	23	1	318.65	-445.782	D	7.078	7.078	0	2.217	0	0	0	0	0	0
2001	261	23	1	318.65	-445.782	D	9.081	9.081	0	6.764	0	0	0	0	0	0
2001	262	23	2704	329.056	-425.092	D	8.487	8.427	0.06	5.179	99.07	0.89	0	0	0	0.04
2001	263	23	2789	340.496	-426.449	D	6.898	6.898	0	1.851	101.13	0.01	0	0	0	0.17
2001	264	23	2758	335.862	-424.454	D	7.201	7.201	0	2.471	99.73	0.03	0	0	0	0.27
2001	265	23	2588	318.452	-445.8	D	7.167	7.163	0.004	2.391	99.55	0.26	0	0	0	0.13
2001	266	23	2704	329.056	-425.092	D	8.001	7.986	0.015	4.165	99.07	0.87	0	0	0	0.05
2001	267	23	2588	318.452	-445.8	D	8.627	8.604	0.023	5.597	98.82	1.16	0	0	0	0.02
2001	268	23	1	318.65	-445.782	D	6.641	6.641	0	1.341	0	0	0	0	0	0
2001	269	23	1	318.65	-445.782	D	6.543	6.543	0	1.15	0	0	0	0	0	0
2001	270	23	2764	336.51	-425.05	D	6.646	6.646	0	1.351	97.84	0.05	0	0	0	0.3
2001	271	23	2781	339.842	-425.379	D	6.732	6.721	0.011	1.498	99.63	0.16	0	0	0	0.22
2001	272	23	2597	318.971	-443.851	D	7.116	7.112	0.004	2.287	99.78	0.07	0	0	0	0.12
2001	273	23	1	318.65	-445.782	D	7.066	7.066	0	2.193	0	0	0	0	0	0
2001	274	23	2415	339.676	-426.124	D	7.18	7.18	0	2.428	83.62	0.05	0	0	0	0.22

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	275	23	1	318.65	-445.782	D	6.85	6.85	0	1.755	0	0	0	0	0	0
2001	276	23	1	318.65	-445.782	D	7.64	7.64	0	3.401	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	8.468	8.468	0	5.274	0	0	0	0	0	0
2001	278	23	2704	329.056	-425.092	D	9.647	9.642	0.005	8.208	98.95	0.97	0	0	0	0.02
2001	279	23	2605	319.291	-441.992	D	7.155	7.153	0.001	2.373	97.99	1.12	0	0	0	0.7
2001	280	23	375	322.611	-445.359	D	6.56	6.558	0.001	1.18	98.56	0.88	0	0	0	0.45
2001	281	23	2155	334.883	-424.586	D	6.609	6.609	0	1.278	98.35	0.38	0	0	0	0.32
2001	282	23	1	318.65	-445.782	D	7.968	7.968	0	4.125	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	284	23	2684	326.713	-427.014	D	10.218	10.218	0	9.779	99.53	0.28	0	0	0	0.05
2001	285	23	2628	320.933	-436.998	D	9.755	9.734	0.021	8.454	97.9	2.06	0	0	0	0.04
2001	286	23	1548	330.222	-426.04	D	9.972	9.956	0.016	9.054	99.48	0.47	0	0	0	0.03
2001	287	23	2758	335.862	-424.454	D	7.538	7.51	0.029	3.122	98.97	1	0	0	0	0.03
2001	288	23	2628	320.933	-436.998	D	6.928	6.928	0	1.912	95.53	4.12	0	0	0	0.05
2001	289	23	2704	329.056	-425.092	D	7.238	7.231	0.007	2.533	96.39	3.51	0	0	0	0.12
2001	290	23	2441	336.336	-429.538	D	6.492	6.488	0.004	1.043	95.63	3.4	0	0	0	1.06
2001	291	23	2789	340.496	-426.449	D	6.549	6.548	0.001	1.16	99.23	0.47	0	0	0	0.37
2001	292	23	1	318.65	-445.782	D	6.799	6.799	0	1.653	0	0	0	0	0	0
2001	293	23	1449	329.434	-425.075	D	8.318	8.318	0	4.924	98.03	1.37	0	0	0	0.05
2001	294	23	1	318.65	-445.782	D	9.362	9.362	0	7.476	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	9.29	9.29	0	7.294	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	297	23	641	324.033	-438.052	D	9.621	9.618	0.003	8.147	98.32	1.48	0	0	0	0.23
2001	298	23	1	318.65	-445.782	D	6.508	6.508	0	1.081	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	300	23	2789	340.496	-426.449	D	6.472	6.472	0	1.012	86.92	9.85	0	0	0	2.95
2001	301	23	13	319.06	-443.766	D	6.479	6.479	0	1.025	94.09	0.97	0	0	0	0.46
2001	302	23	1	318.65	-445.782	D	6.511	6.511	0	1.086	0	0	0	0	0	0
2001	303	23	1	318.65	-445.782	D	6.572	6.572	0	1.207	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	6.695	6.695	0	1.447	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	9.032	9.032	0	6.64	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	9.835	9.835	0	8.726	0	0	0	0	0	0
2001	307	23	2789	340.496	-426.449	D	9.691	9.685	0.005	8.324	98	1.91	0	0	0	0.05
2001	308	23	2588	318.452	-445.8	D	6.951	6.948	0.002	1.953	99.15	0.69	0	0	0	0.08
2001	309	23	2758	335.862	-424.454	D	8.517	8.388	0.13	5.086	98	1.94	0	0	0	0.06
2001	310	23	2624	320.719	-437.835	D	8.138	8.052	0.086	4.315	99.35	0.59	0	0	0	0.06
2001	311	23	2758	335.862	-424.454	D	7.194	7.173	0.022	2.413	99.6	0.31	0	0	0	0.09
2001	312	23	2789	340.496	-426.449	D	7.273	7.268	0.005	2.612	99.64	0.2	0	0	0	0.16
2001	313	23	2571	322.646	-445.476	D	6.615	6.615	0	1.289	99.03	0.22	0	0	0	0.23

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	314	23	659	323.836	-433.564	D	6.786	6.783	0.003	1.622	97.26	2.3	0	0	0	0.42
2001	315	23	2781	339.842	-425.379	D	6.798	6.797	0.002	1.649	98.38	0.95	0	0	0	0.64
2001	316	23	2588	318.452	-445.8	D	6.63	6.627	0.003	1.314	98.65	0.84	0	0	0	0.46
2001	317	23	2589	318.383	-445.593	D	6.717	6.716	0.001	1.489	99.14	0.54	0	0	0	0.25
2001	318	23	2274	336.179	-425.778	D	7.234	7.234	0	2.539	58.46	0.08	0	0	0	0.11
2001	319	23	1	318.65	-445.782	D	8.023	8.023	0	4.249	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.729	7.729	0	3.597	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.103	7.103	0	2.268	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	8.032	8.032	0	4.27	0	0	0	0	0	0
2001	323	23	2789	340.496	-426.449	D	8.466	8.463	0.003	5.264	81.29	18.39	0	0	0	0.3
2001	324	23	2589	318.383	-445.593	D	6.476	6.474	0.002	1.016	86.1	11.45	0	0	0	2.44
2001	325	23	2571	322.646	-445.476	D	6.473	6.471	0.002	1.01	95.86	3.4	0	0	0	0.72
2001	326	23	2781	339.842	-425.379	D	6.53	6.53	0	1.125	98.6	1.36	0	0	0	0.36
2001	327	23	1	318.65	-445.782	D	8.475	8.475	0	5.291	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	8.774	8.774	0	6.006	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	6.66	6.66	0	1.377	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.063	7.063	0	2.186	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.026	7.026	0	2.111	0	0	0	0	0	0
2001	332	23	2571	322.646	-445.476	D	9.276	9.266	0.01	7.232	90.19	9.67	0	0	0	0.12
2001	333	23	375	322.611	-445.359	D	10.219	10.218	0.001	9.779	97.08	2.55	0	0	0	0.02
2001	334	23	2588	318.452	-445.8	D	8.559	8.541	0.018	5.448	92.93	6.94	0	0	0	0.14
2001	335	23	1	318.65	-445.782	D	6.625	6.625	0	1.31	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	6.688	6.688	0	1.434	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	6.971	6.971	0	1.999	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.231	7.231	0	2.534	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	9.653	9.653	0	8.239	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	9.943	9.943	0	9.018	0	0	0	0	0	0
2001	341	23	2781	339.842	-425.379	D	8.557	8.557	0	5.485	94.26	4.96	0	0	0	0.1
2001	342	23	2704	329.056	-425.092	D	8.456	8.445	0.011	5.22	95.96	3.72	0	0	0	0.33
2001	343	23	1530	330.418	-430.527	D	6.601	6.6	0.002	1.26	92.13	6.46	0	0	0	1.34
2001	344	23	2588	318.452	-445.8	D	6.523	6.522	0	1.109	95.59	4.03	0	0	0	0.6
2001	345	23	2589	318.383	-445.593	D	6.603	6.603	0.001	1.266	96.53	2.8	0	0	0	0.38
2001	346	23	1	318.65	-445.782	D	9.752	9.752	0	8.503	0	0	0	0	0	0
2001	347	23	1548	330.222	-426.04	D	10.034	9.803	0.231	8.639	96.72	3.21	0	0	0	0.07
2001	348	23	2602	319.088	-442.669	D	9.835	9.514	0.321	7.873	97.01	2.96	0	0	0	0.04
2001	349	23	2789	340.496	-426.449	D	9.087	9.077	0.01	6.753	98.63	1.32	0	0	0	0.03
2001	350	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	351	23	1478	329.736	-426.311	D	9.605	9.555	0.051	7.978	94.25	5.67	0	0	0	0.08
2001	352	23	1	318.65	-445.782	D	6.544	6.544	0	1.152	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	353	23	2588	318.452	-445.8	D	6.819	6.815	0.003	1.686	89.49	9.39	0	0	0	1.05
2001	354	23	2789	340.496	-426.449	D	6.471	6.47	0.001	1.008	90.45	7.48	0	0	0	2
2001	355	23	1	318.65	-445.782	D	6.487	6.487	0	1.042	0	0	0	0	0	0
2001	356	23	2236	336.149	-430.776	D	7.811	7.811	0	3.776	32.12	0.6	0	0	0	0.06
2001	357	23	1	318.65	-445.782	D	6.641	6.641	0	1.34	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	6.479	6.479	0	1.026	0	0	0	0	0	0
2001	359	23	2789	340.496	-426.449	D	6.509	6.507	0.002	1.079	81.27	16.08	0	0	0	2.63
2001	360	23	2781	339.842	-425.379	D	6.534	6.531	0.002	1.127	78.75	18.83	0	0	0	2.39
2001	361	23	1	318.65	-445.782	D	6.605	6.605	0	1.269	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2001	363	23	2781	339.842	-425.379	D	6.62	6.617	0.004	1.293	85.07	13.04	0	0	0	1.87
2001	364	23	2781	339.842	-425.379	D	6.554	6.551	0.004	1.165	84.56	13.94	0	0	0	1.49
2001	365	23	2789	340.496	-426.449	D	6.616	6.615	0.001	1.29	86.82	12.08	0	0	0	1.08
									0.321							
UMC											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.785	7.785	0	3.719	0	0	0	0	0	0
2001	2	23	2789	340.496	-426.449	D	7.421	7.421	0	2.932	91.12	8.89	0	0	0	0.04
2001	3	23	1	318.65	-445.782	D	8.207	8.207	0	4.667	0	0	0	0	0	0
2001	4	23	1	318.65	-445.782	D	7.031	7.031	0	2.121	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	6.931	6.931	0	1.919	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	6.551	6.551	0	1.165	0	0	0	0	0	0
2001	7	23	1	318.65	-445.782	D	7.026	7.026	0	2.11	0	0	0	0	0	0
2001	8	23	1	318.65	-445.782	D	8.597	8.597	0	5.581	0	0	0	0	0	0
2001	9	23	2789	340.496	-426.449	D	9.485	9.48	0.004	7.784	83.07	16.9	0	0	0	0.02
2001	10	23	2783	339.861	-425.806	D	7.007	6.996	0.011	2.05	84.39	15.56	0	0	0	0.04
2001	11	23	2704	329.056	-425.092	D	9.121	9.119	0.002	6.86	90.61	9.27	0	0	0	0.03
2001	12	23	2784	339.87	-426.019	D	9.493	9.493	0	7.818	86.09	7.09	0	0	0	0
2001	13	23	1	318.65	-445.782	D	9.698	9.698	0	8.359	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	9.396	9.396	0	7.566	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	6.74	6.74	0	1.537	0	0	0	0	0	0
2001	16	23	1	318.65	-445.782	D	6.763	6.763	0	1.581	0	0	0	0	0	0
2001	17	23	2255	335.942	-426.039	D	7.017	6.892	0.125	1.839	87.28	12.66	0	0	0	0.06
2001	18	23	2628	320.933	-436.998	D	7.059	6.935	0.124	1.927	87.29	12.66	0	0	0	0.05
2001	19	23	2789	340.496	-426.449	D	6.865	6.861	0.004	1.778	92.89	7.06	0	0	0	0.05
2001	20	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2001	21	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	22	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	6.621	6.621	0	1.303	0	0	0	0	0	0
2001	24	23	1	318.65	-445.782	D	6.746	6.746	0	1.549	0	0	0	0	0	0
2001	25	23	2789	340.496	-426.449	D	6.592	6.584	0.008	1.23	72.09	27.72	0	0	0	0.2
2001	26	23	2684	326.713	-427.014	D	6.554	6.552	0.003	1.166	81.15	18.76	0	0	0	0.08
2001	27	23	1	318.65	-445.782	D	6.678	6.678	0	1.413	0	0	0	0	0	0
2001	28	23	2789	340.496	-426.449	D	6.519	6.516	0.003	1.097	85.62	14.26	0	0	0	0.06
2001	29	23	1	318.65	-445.782	D	8.908	8.908	0	6.335	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	6.819	6.819	0	1.692	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.016	7.016	0	2.09	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	6.478	6.478	0	1.025	0	0	0	0	0	0
2001	33	23	1	318.65	-445.782	D	6.561	6.561	0	1.185	0	0	0	0	0	0
2001	34	23	1	318.65	-445.782	D	6.476	6.476	0	1.019	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	6.617	6.617	0	1.293	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	6.583	6.583	0	1.226	0	0	0	0	0	0
2001	37	23	1	318.65	-445.782	D	6.528	6.528	0	1.121	0	0	0	0	0	0
2001	38	23	1	318.65	-445.782	D	8.527	8.527	0	5.415	0	0	0	0	0	0
2001	39	23	1	318.65	-445.782	D	10.07	10.07	0	9.369	0	0	0	0	0	0
2001	40	23	1	318.65	-445.782	D	9.399	9.399	0	7.574	0	0	0	0	0	0
2001	41	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0
2001	42	23	2781	339.842	-425.379	D	6.476	6.47	0.006	1.009	83.07	16.88	0	0	0	0.08
2001	43	23	2704	329.056	-425.092	D	6.874	6.874	0	1.803	88.18	11.22	0	0	0	0.04
2001	44	23	1	318.65	-445.782	D	9.412	9.412	0	7.606	0	0	0	0	0	0
2001	45	23	2704	329.056	-425.092	D	10.222	10.218	0.004	9.779	95.71	4.28	0	0	0	0
2001	46	23	2789	340.496	-426.449	D	9.094	8.624	0.471	5.644	95.22	4.77	0	0	0	0.01
2001	47	23	2571	322.646	-445.476	D	8.554	8.464	0.09	5.266	95.36	4.64	0	0	0	0
2001	48	23	1	318.65	-445.782	D	6.531	6.531	0	1.127	0	0	0	0	0	0
2001	49	23	2789	340.496	-426.449	D	6.472	6.472	0	1.012	92.62	7.33	0	0	0	0.09
2001	50	23	2789	340.496	-426.449	D	6.495	6.494	0	1.055	93.56	6.63	0	0	0	0.06
2001	51	23	1	318.65	-445.782	D	9.197	9.197	0	7.056	0	0	0	0	0	0
2001	52	23	2693	327.829	-426.17	D	8.13	8.125	0.005	4.479	91.66	8.33	0	0	0	0.02
2001	53	23	639	324.055	-438.55	D	7.118	7.106	0.012	2.275	92.52	7.43	0	0	0	0.03
2001	54	23	2709	330.21	-424.978	D	6.799	6.793	0.006	1.642	90.78	9.16	0	0	0	0.05
2001	55	23	1	318.65	-445.782	D	9.447	9.447	0	7.697	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.222	7.222	0	2.515	0	0	0	0	0	0
2001	57	23	2789	340.496	-426.449	D	6.499	6.499	0	1.064	98	2.74	0	0	0	0.14
2001	58	23	2782	339.852	-425.592	D	6.525	6.517	0.007	1.099	93.07	6.86	0	0	0	0.06
2001	59	23	2662	325.404	-431.803	D	7.154	7.146	0.008	2.358	92.84	7.12	0	0	0	0.01
2001	60	23	2628	320.933	-436.998	D	6.721	6.718	0.002	1.493	94.94	5.1	0	0	0	0.03

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	61	23	1513	329.974	-426.051	D	8.587	8.564	0.023	5.502	94.29	5.7	0	0	0	0.01
2001	62	23	2563	323.259	-443.79	D	6.752	6.751	0.001	1.558	97.54	2.42	0	0	0	0.02
2001	63	23	2624	320.719	-437.835	D	6.738	6.618	0.121	1.295	88.49	11.45	0	0	0	0.06
2001	64	23	1	318.65	-445.782	D	6.523	6.523	0	1.11	0	0	0	0	0	0
2001	65	23	1	318.65	-445.782	D	6.525	6.525	0	1.114	0	0	0	0	0	0
2001	66	23	1	318.65	-445.782	D	6.471	6.471	0	1.011	0	0	0	0	0	0
2001	67	23	1	318.65	-445.782	D	6.534	6.534	0	1.132	0	0	0	0	0	0
2001	68	23	2789	340.496	-426.449	D	6.494	6.493	0.002	1.052	86.32	13.42	0	0	0	0.19
2001	69	23	2789	340.496	-426.449	D	6.474	6.471	0.003	1.009	93.7	6.18	0	0	0	0.1
2001	70	23	2758	335.862	-424.454	D	6.506	6.504	0.001	1.074	95.75	4.12	0	0	0	0.06
2001	71	23	1381	328.981	-426.094	D	8.971	8.971	0	6.49	95.98	2.12	0	0	0	0.02
2001	72	23	1	318.65	-445.782	D	6.558	6.558	0	1.178	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	74	23	199	320.795	-437.944	D	9.731	9.731	0	8.446	93.47	5.54	0	0	0	0.02
2001	75	23	2708	329.979	-425	D	7.91	7.781	0.128	3.711	94.17	5.82	0	0	0	0
2001	76	23	1	318.65	-445.782	D	6.567	6.567	0	1.196	0	0	0	0	0	0
2001	77	23	2704	329.056	-425.092	D	6.527	6.505	0.022	1.076	89.76	10.14	0	0	0	0.09
2001	78	23	2589	318.383	-445.593	D	6.482	6.479	0.002	1.026	94.68	5.3	0	0	0	0.08
2001	79	23	2589	318.383	-445.593	D	6.51	6.495	0.014	1.057	94.03	5.88	0	0	0	0.1
2001	80	23	2588	318.452	-445.8	D	6.517	6.473	0.044	1.013	92.75	7.14	0	0	0	0.12
2001	81	23	2789	340.496	-426.449	D	6.52	6.487	0.032	1.042	97.92	2	0	0	0	0.07
2001	82	23	2781	339.842	-425.379	D	6.693	6.665	0.028	1.388	97.89	2.08	0	0	0	0.04
2001	83	23	2694	327.861	-425.964	D	6.849	6.761	0.087	1.578	89.56	10.39	0	0	0	0.05
2001	84	23	1	318.65	-445.782	D	6.471	6.471	0	1.01	0	0	0	0	0	0
2001	85	23	1	318.65	-445.782	D	6.478	6.478	0	1.024	0	0	0	0	0	0
2001	86	23	2571	322.646	-445.476	D	6.469	6.468	0.001	1.005	97.83	2.3	0	0	0	0.06
2001	87	23	2789	340.496	-426.449	D	6.519	6.508	0.011	1.081	94.33	5.62	0	0	0	0.05
2001	88	23	2695	328.074	-426.025	D	7.391	7.39	0.001	2.867	95.67	4.16	0	0	0	0.01
2001	89	23	2684	326.713	-427.014	D	9.159	9.157	0.001	6.956	97.47	2.55	0	0	0	0
2001	90	23	11	319.081	-444.264	D	7.628	7.628	0.001	3.376	96.97	2.98	0	0	0	0
2001	91	23	1	318.65	-445.782	D	6.481	6.481	0	1.029	0	0	0	0	0	0
2001	92	23	1	318.65	-445.782	D	7.269	7.269	0	2.613	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	10.042	10.042	0	9.289	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	9.747	9.747	0	8.488	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	8.549	8.549	0	5.467	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.507	7.507	0	3.115	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.503	7.503	0	3.108	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.145	7.145	0	2.355	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	100	23	1	318.65	-445.782	D	7.606	7.606	0	3.329	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	9.338	9.338	0	7.417	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	6.571	6.571	0	1.204	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.079	7.079	0	2.219	0	0	0	0	0	0
2001	105	23	2781	339.842	-425.379	D	8.944	8.943	0	6.422	98.62	0.51	0	0	0	0.04
2001	106	23	2789	340.496	-426.449	D	6.504	6.503	0	1.073	95.3	3.89	0	0	0	0.22
2001	107	23	1	318.65	-445.782	D	6.48	6.48	0	1.027	0	0	0	0	0	0
2001	108	23	1	318.65	-445.782	D	6.476	6.476	0	1.019	0	0	0	0	0	0
2001	109	23	1	318.65	-445.782	D	6.594	6.594	0	1.249	0	0	0	0	0	0
2001	110	23	1	318.65	-445.782	D	10.01	10.01	0	9.202	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	8.281	8.281	0	4.837	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	8.135	8.135	0	4.503	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	8.008	8.008	0	4.216	0	0	0	0	0	0
2001	114	23	1	318.65	-445.782	D	6.5	6.5	0	1.067	0	0	0	0	0	0
2001	115	23	1	318.65	-445.782	D	6.478	6.478	0	1.024	0	0	0	0	0	0
2001	116	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	6.586	6.586	0	1.232	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	6.585	6.585	0	1.231	0	0	0	0	0	0
2001	119	23	1	318.65	-445.782	D	6.867	6.867	0	1.788	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.147	7.147	0	2.358	0	0	0	0	0	0
2001	121	23	1	318.65	-445.782	D	6.839	6.839	0	1.734	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.129	7.129	0	2.323	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.25	7.25	0	2.573	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	8.868	8.868	0	6.236	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	8.924	8.924	0	6.374	0	0	0	0	0	0
2001	127	23	1	318.65	-445.782	D	8.708	8.708	0	5.848	0	0	0	0	0	0
2001	128	23	1	318.65	-445.782	D	6.575	6.575	0	1.212	0	0	0	0	0	0
2001	129	23	2571	322.646	-445.476	D	6.885	6.883	0.001	1.822	99.7	0.28	0	0	0	0.02
2001	130	23	2467	334.065	-434.651	D	7.004	7.001	0.004	2.06	99.79	0.14	0	0	0	0.01
2001	131	23	2788	340.294	-426.448	D	7.675	7.675	0	3.479	99.6	0.03	0	0	0	0.01
2001	132	23	1513	329.974	-426.051	D	8.873	8.852	0.021	6.196	97.71	2.21	0	0	0	0.07
2001	133	23	2611	319.699	-440.64	D	6.575	6.56	0.015	1.182	99.64	0.3	0	0	0	0.06
2001	134	23	2789	340.496	-426.449	D	6.748	6.745	0.003	1.546	99.85	0.13	0	0	0	0.02
2001	135	23	2398	338.694	-426.417	D	6.85	6.85	0	1.756	9.19	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.897	7.897	0	3.966	0	0	0	0	0	0
2001	138	23	1415	329.185	-425.086	D	7.577	7.574	0.003	3.259	96.54	3.44	0	0	0	0.01

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	139	23	2781	339.842	-425.379	D	7.494	7.46	0.033	3.017	98.51	1.47	0	0	0	0.01
2001	140	23	2789	340.496	-426.449	D	7.465	7.462	0.003	3.019	99.76	0.16	0	0	0	0.04
2001	141	23	1	318.65	-445.782	D	8.961	8.961	0	6.464	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	6.534	6.534	0	1.131	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	6.54	6.54	0	1.144	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	6.507	6.507	0	1.08	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	6.566	6.566	0	1.193	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	6.546	6.546	0	1.156	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	6.809	6.809	0	1.673	0	0	0	0	0	0
2001	148	23	1	318.65	-445.782	D	8.364	8.364	0	5.03	0	0	0	0	0	0
2001	149	23	2789	340.496	-426.449	D	6.994	6.968	0.026	1.993	99.65	0.33	0	0	0	0.02
2001	150	23	2789	340.496	-426.449	D	8.463	8.459	0.004	5.254	99.58	0.4	0	0	0	0.01
2001	151	23	2706	329.518	-425.046	D	9.02	9.006	0.014	6.576	99.4	0.59	0	0	0	0.01
2001	152	23	2708	329.979	-425	D	7.166	7.155	0.011	2.375	99.72	0.28	0	0	0	0.01
2001	153	23	1	318.65	-445.782	D	6.992	6.992	0	2.042	0	0	0	0	0	0
2001	154	23	1	318.65	-445.782	D	7.218	7.218	0	2.506	0	0	0	0	0	0
2001	155	23	1	318.65	-445.782	D	8.894	8.894	0	6.3	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	8.375	8.375	0	5.056	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.624	7.624	0	3.368	0	0	0	0	0	0
2001	158	23	2781	339.842	-425.379	D	8.165	8.143	0.022	4.522	99.95	0.03	0	0	0	0.02
2001	159	23	2684	326.713	-427.014	D	7.613	7.283	0.33	2.642	99.57	0.41	0	0	0	0.01
2001	160	23	2694	327.861	-425.964	D	7.569	7.431	0.138	2.954	99.81	0.18	0	0	0	0.01
2001	161	23	2709	330.21	-424.978	D	7.862	7.761	0.101	3.667	99.9	0.09	0	0	0	0.01
2001	162	23	2789	340.496	-426.449	D	7.015	7.011	0.004	2.081	99.93	0.03	0	0	0	0.01
2001	163	23	2403	338.931	-426.157	D	6.866	6.866	0	1.787	98.64	0.02	0	0	0	0.01
2001	164	23	1	318.65	-445.782	D	7.137	7.137	0	2.339	0	0	0	0	0	0
2001	165	23	1	318.65	-445.782	D	7.321	7.321	0	2.721	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	8.275	8.275	0	4.824	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	6.521	6.521	0	1.108	0	0	0	0	0	0
2001	168	23	2588	318.452	-445.8	D	6.547	6.545	0.002	1.153	99.91	0.02	0	0	0	0.05
2001	169	23	2789	340.496	-426.449	D	6.657	6.651	0.007	1.36	99.95	0.03	0	0	0	0.03
2001	170	23	2155	334.883	-424.586	D	7.001	7.001	0	2.059	99.76	0.01	0	0	0	0.02
2001	171	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	172	23	1513	329.974	-426.051	D	7.377	7.314	0.063	2.706	99.73	0.26	0	0	0	0.01
2001	173	23	2552	324.659	-442.591	D	6.856	6.853	0.003	1.761	99.81	0.17	0	0	0	0.01
2001	174	23	2789	340.496	-426.449	D	6.611	6.611	0	1.283	98.57	0.04	0	0	0	0.06
2001	175	23	2789	340.496	-426.449	D	6.764	6.76	0.004	1.576	99.81	0.09	0	0	0	0.04
2001	176	23	2564	323.159	-444.002	D	8.485	8.451	0.033	5.235	99.91	0.08	0	0	0	0.01
2001	177	23	2708	329.979	-425	D	7.181	7.155	0.026	2.376	99.92	0.07	0	0	0	0.01

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	178	23	2695	328.074	-426.025	D	6.94	6.932	0.008	1.92	99.91	0.07	0	0	0	0.02
2001	179	23	2758	335.862	-424.454	D	8.98	8.971	0.009	6.49	99.81	0.19	0	0	0	0
2001	180	23	1242	327.988	-426.138	D	8.698	8.697	0.001	5.82	99.82	0.06	0	0	0	0
2001	181	23	1	318.65	-445.782	D	8.968	8.968	0	6.482	0	0	0	0	0	0
2001	182	23	2704	329.056	-425.092	D	9.447	9.396	0.051	7.564	99.39	0.6	0	0	0	0.01
2001	183	23	1513	329.974	-426.051	D	7.368	7.243	0.125	2.559	99.18	0.81	0	0	0	0.01
2001	184	23	2781	339.842	-425.379	D	7.349	7.338	0.011	2.757	99.94	0.04	0	0	0	0.01
2001	185	23	2415	339.676	-426.124	D	7.08	7.079	0	2.22	98.76	0.01	0	0	0	0.01
2001	186	23	1	318.65	-445.782	D	6.973	6.973	0	2.003	0	0	0	0	0	0
2001	187	23	2789	340.496	-426.449	D	7.66	7.635	0.025	3.392	99.91	0.08	0	0	0	0.01
2001	188	23	2789	340.496	-426.449	D	8.721	8.713	0.008	5.859	99.97	0.02	0	0	0	0
2001	189	23	1	318.65	-445.782	D	7.18	7.18	0	2.428	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.028	7.028	0	2.115	0	0	0	0	0	0
2001	191	23	1	318.65	-445.782	D	7.041	7.041	0	2.142	0	0	0	0	0	0
2001	192	23	2789	340.496	-426.449	D	7.123	7.063	0.06	2.187	99.82	0.15	0	0	0	0.03
2001	193	23	2783	339.861	-425.806	D	8.282	7.982	0.3	4.158	99.84	0.16	0	0	0	0.01
2001	194	23	2789	340.496	-426.449	D	9.404	9.072	0.332	6.741	99.54	0.46	0	0	0	0
2001	195	23	2588	318.452	-445.8	D	6.685	6.654	0.031	1.367	99.96	0.03	0	0	0	0.01
2001	196	23	2588	318.452	-445.8	D	6.686	6.685	0.001	1.427	99.96	0.01	0	0	0	0.01
2001	197	23	1	318.65	-445.782	D	7.148	7.148	0	2.362	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.972	7.972	0	4.135	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.881	7.881	0	3.931	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.405	7.405	0	2.898	0	0	0	0	0	0
2001	201	23	2395	338.435	-426.179	D	7.24	7.24	0	2.553	90.31	0.01	0	0	0	0.02
2001	202	23	2789	340.496	-426.449	D	6.813	6.808	0.005	1.67	99.79	0.19	0	0	0	0.01
2001	203	23	2789	340.496	-426.449	D	6.928	6.904	0.024	1.864	99.93	0.06	0	0	0	0.01
2001	204	23	2571	322.646	-445.476	D	7.852	7.813	0.038	3.782	99.92	0.07	0	0	0	0
2001	205	23	2588	318.452	-445.8	D	8.331	8.301	0.03	4.884	99.95	0.04	0	0	0	0
2001	206	23	2564	323.159	-444.002	D	8.045	8.028	0.017	4.26	99.86	0.12	0	0	0	0
2001	207	23	2789	340.496	-426.449	D	8.942	8.928	0.015	6.383	99.93	0.05	0	0	0	0
2001	208	23	2789	340.496	-426.449	D	9.182	8.905	0.277	6.326	99.32	0.68	0	0	0	0
2001	209	23	2789	340.496	-426.449	D	9.095	8.904	0.191	6.324	99.42	0.58	0	0	0	0
2001	210	23	2789	340.496	-426.449	D	8.722	8.71	0.012	5.852	99.84	0.18	0	0	0	0
2001	211	23	2456	334.644	-432.056	D	8.91	8.873	0.037	6.248	99.93	0.07	0	0	0	0
2001	212	23	2781	339.842	-425.379	D	8.534	8.49	0.044	5.325	99.97	0.02	0	0	0	0
2001	213	23	2789	340.496	-426.449	D	8.263	8.238	0.025	4.738	99.92	0.07	0	0	0	0
2001	214	23	2784	339.87	-426.019	D	7.551	7.548	0.003	3.204	99.99	0.02	0	0	0	0.01
2001	215	23	2413	339.406	-425.637	D	6.959	6.959	0	1.974	100.19	0.03	0	0	0	0.01
2001	216	23	2789	340.496	-426.449	D	7.075	7.049	0.026	2.158	99.88	0.08	0	0	0	0.04

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	217	23	2600	318.952	-443.12	D	7.163	7.141	0.021	2.348	99.94	0.04	0	0	0	0.02
2001	218	23	200	320.784	-437.694	D	7.324	7.324	0	2.728	98.5	0	0	0	0	0.02
2001	219	23	1	318.65	-445.782	D	7.407	7.407	0	2.902	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.7	7.7	0	3.534	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.773	7.773	0	3.694	0	0	0	0	0	0
2001	222	23	1	318.65	-445.782	D	7.664	7.664	0	3.455	0	0	0	0	0	0
2001	223	23	2781	339.842	-425.379	D	9.472	9.067	0.405	6.729	99.48	0.52	0	0	0	0.01
2001	224	23	2255	335.942	-426.039	D	7.866	7.408	0.458	2.906	99.77	0.21	0	0	0	0.02
2001	225	23	2589	318.383	-445.593	D	7.65	7.458	0.191	3.012	99.85	0.13	0	0	0	0.02
2001	226	23	2597	318.971	-443.851	D	7.12	6.923	0.197	1.902	99.51	0.46	0	0	0	0.03
2001	227	23	2589	318.383	-445.593	D	6.882	6.848	0.034	1.751	99.82	0.15	0	0	0	0.02
2001	228	23	2209	335.38	-424.564	D	7.72	7.72	0	3.577	95.16	0.02	0	0	0	0.02
2001	229	23	1	318.65	-445.782	D	6.675	6.675	0	1.407	0	0	0	0	0	0
2001	230	23	1	318.65	-445.782	D	7.046	7.046	0	2.151	0	0	0	0	0	0
2001	231	23	1	318.65	-445.782	D	6.857	6.857	0	1.768	0	0	0	0	0	0
2001	232	23	2789	340.496	-426.449	D	6.97	6.97	0	1.997	99.94	0.02	0	0	0	0.02
2001	233	23	2789	340.496	-426.449	D	7.601	7.601	0	3.318	99.92	0.02	0	0	0	0.01
2001	234	23	1219	328.239	-431.872	D	6.913	6.913	0	1.881	69.18	0.01	0	0	0	0.02
2001	235	23	2414	339.687	-426.374	D	6.992	6.992	0	2.042	98.66	0.07	0	0	0	0.01
2001	236	23	1	318.65	-445.782	D	7.113	7.113	0	2.289	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.284	7.284	0	2.645	0	0	0	0	0	0
2001	238	23	1	318.65	-445.782	D	7.199	7.199	0	2.467	0	0	0	0	0	0
2001	239	23	2781	339.842	-425.379	D	7.322	7.272	0.05	2.619	99.72	0.26	0	0	0	0.02
2001	240	23	2781	339.842	-425.379	D	7.114	6.944	0.17	1.945	99.86	0.12	0	0	0	0.02
2001	241	23	606	323.785	-438.063	D	7.856	7.646	0.21	3.415	99.83	0.17	0	0	0	0.01
2001	242	23	2273	336.19	-426.028	D	8.652	8.502	0.15	5.355	99.75	0.24	0	0	0	0
2001	243	23	1455	329.987	-432.045	D	8.454	8.448	0.006	5.228	99.75	0.22	0	0	0	0
2001	244	23	2758	335.862	-424.454	D	8.556	8.489	0.067	5.323	99.46	0.52	0	0	0	0.01
2001	245	23	2693	327.829	-426.17	D	8.97	8.85	0.12	6.192	99.4	0.59	0	0	0	0
2001	246	23	2709	330.21	-424.978	D	8.221	8.214	0.007	4.683	99.88	0.11	0	0	0	0.01
2001	247	23	2709	330.21	-424.978	D	7.177	7.147	0.03	2.36	99.93	0.06	0	0	0	0.01
2001	248	23	2762	336.074	-425.006	D	7.571	7.518	0.053	3.139	99.87	0.12	0	0	0	0.01
2001	249	23	2762	336.074	-425.006	D	7.493	7.486	0.008	3.07	99.94	0.04	0	0	0	0.01
2001	250	23	1	318.65	-445.782	D	8.117	8.117	0	4.462	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	9.202	9.202	0	7.068	0	0	0	0	0	0
2001	252	23	1	318.65	-445.782	D	9.34	9.34	0	7.421	0	0	0	0	0	0
2001	253	23	1	318.65	-445.782	D	6.988	6.988	0	2.034	0	0	0	0	0	0
2001	254	23	2588	318.452	-445.8	D	6.797	6.784	0.013	1.623	99.42	0.54	0	0	0	0.04
2001	255	23	2589	318.383	-445.593	D	6.854	6.853	0.001	1.761	99.67	0.18	0	0	0	0.03

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	256	23	2682	326.697	-427.477	D	7.007	7.007	0	2.072	99.72	0.13	0	0	0	0.02
2001	257	23	2789	340.496	-426.449	D	7.531	7.48	0.051	3.058	99.49	0.5	0	0	0	0.01
2001	258	23	2588	318.452	-445.8	D	6.972	6.96	0.012	1.977	99.92	0.06	0	0	0	0.01
2001	259	23	67	319.674	-440.741	D	6.745	6.743	0.002	1.542	99.88	0.09	0	0	0	0.02
2001	260	23	2700	328.954	-426.032	D	7.06	7.059	0.001	2.178	99.69	0.11	0	0	0	0.01
2001	261	23	2784	339.87	-426.019	D	8.832	8.832	0.001	6.147	99.48	0.44	0	0	0	0
2001	262	23	2758	335.862	-424.454	D	8.34	8.332	0.009	4.955	97.52	2.45	0	0	0	0
2001	263	23	1	318.65	-445.782	D	6.893	6.893	0	1.841	0	0	0	0	0	0
2001	264	23	1	318.65	-445.782	D	7.236	7.236	0	2.544	0	0	0	0	0	0
2001	265	23	2781	339.842	-425.379	D	7.126	7.125	0.002	2.313	99.76	0.15	0	0	0	0.08
2001	266	23	2789	340.496	-426.449	D	7.768	7.757	0.012	3.657	99.55	0.42	0	0	0	0.02
2001	267	23	2789	340.496	-426.449	D	8.739	8.718	0.021	5.871	91.77	8.15	0	0	0	0.07
2001	268	23	2789	340.496	-426.449	D	6.686	6.665	0.021	1.387	92.92	6.99	0	0	0	0.09
2001	269	23	2781	339.842	-425.379	D	6.59	6.54	0.05	1.143	97.91	2.03	0	0	0	0.06
2001	270	23	2789	340.496	-426.449	D	6.722	6.647	0.076	1.352	99.42	0.54	0	0	0	0.04
2001	271	23	2783	339.861	-425.806	D	6.779	6.721	0.058	1.498	99.67	0.3	0	0	0	0.04
2001	272	23	2588	318.452	-445.8	D	7.094	7.084	0.011	2.229	99.85	0.14	0	0	0	0.02
2001	273	23	1	318.65	-445.782	D	7.066	7.066	0	2.193	0	0	0	0	0	0
2001	274	23	2758	335.862	-424.454	D	7.207	7.201	0.006	2.471	99.09	0.89	0	0	0	0.02
2001	275	23	2781	339.842	-425.379	D	6.818	6.816	0.003	1.687	99.67	0.34	0	0	0	0.01
2001	276	23	1	318.65	-445.782	D	7.64	7.64	0	3.401	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	8.468	8.468	0	5.274	0	0	0	0	0	0
2001	278	23	2781	339.842	-425.379	D	9.976	9.656	0.32	8.246	94.85	5.14	0	0	0	0
2001	279	23	2468	334.002	-434.887	D	7.19	7.183	0.006	2.434	96.12	3.87	0	0	0	0.01
2001	280	23	2468	334.002	-434.887	D	6.562	6.559	0.004	1.18	99.39	0.55	0	0	0	0.06
2001	281	23	2789	340.496	-426.449	D	6.643	6.613	0.029	1.286	97.92	2.03	0	0	0	0.03
2001	282	23	1	318.65	-445.782	D	7.968	7.968	0	4.125	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	284	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	285	23	2758	335.862	-424.454	D	9.688	9.66	0.028	8.257	93.22	6.77	0	0	0	0.01
2001	286	23	1548	330.222	-426.04	D	10.016	9.956	0.06	9.054	99.35	0.64	0	0	0	0
2001	287	23	1455	329.987	-432.045	D	7.621	7.541	0.08	3.188	98.41	1.59	0	0	0	0
2001	288	23	1	318.65	-445.782	D	6.929	6.929	0	1.915	0	0	0	0	0	0
2001	289	23	1	318.65	-445.782	D	7.071	7.071	0	2.203	0	0	0	0	0	0
2001	290	23	1	318.65	-445.782	D	6.486	6.486	0	1.04	0	0	0	0	0	0
2001	291	23	2789	340.496	-426.449	D	6.55	6.548	0.002	1.16	97.45	2.49	0	0	0	0.02
2001	292	23	1	318.65	-445.782	D	6.799	6.799	0	1.653	0	0	0	0	0	0
2001	293	23	1	318.65	-445.782	D	8.641	8.641	0	5.686	0	0	0	0	0	0
2001	294	23	1	318.65	-445.782	D	9.362	9.362	0	7.476	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	295	23	1	318.65	-445.782	D	9.29	9.29	0	7.294	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	297	23	1	318.65	-445.782	D	9.624	9.624	0	8.162	0	0	0	0	0	0
2001	298	23	1	318.65	-445.782	D	6.508	6.508	0	1.081	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	300	23	1	318.65	-445.782	D	6.471	6.471	0	1.011	0	0	0	0	0	0
2001	301	23	2789	340.496	-426.449	D	6.487	6.477	0.011	1.021	94.2	5.74	0	0	0	0.07
2001	302	23	2684	326.713	-427.014	D	6.502	6.501	0.001	1.069	97.82	2.11	0	0	0	0.03
2001	303	23	1	318.65	-445.782	D	6.572	6.572	0	1.207	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	6.695	6.695	0	1.447	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	9.032	9.032	0	6.64	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	9.835	9.835	0	8.726	0	0	0	0	0	0
2001	307	23	2789	340.496	-426.449	D	9.821	9.685	0.136	8.324	96.29	3.7	0	0	0	0.01
2001	308	23	2623	320.666	-438.044	D	6.982	6.95	0.032	1.957	98.89	1.09	0	0	0	0.01
2001	309	23	2783	339.861	-425.806	D	8.481	8.368	0.112	5.041	96.65	3.34	0	0	0	0.02
2001	310	23	1456	329.977	-431.796	D	8.272	8.036	0.236	4.277	97.96	2.03	0	0	0	0.01
2001	311	23	2256	335.931	-425.789	D	7.25	7.173	0.078	2.413	99.31	0.68	0	0	0	0.01
2001	312	23	2789	340.496	-426.449	D	7.278	7.268	0.009	2.612	99.64	0.34	0	0	0	0.01
2001	313	23	2429	338.563	-428.651	D	6.614	6.605	0.01	1.27	83.46	16.29	0	0	0	0.23
2001	314	23	2789	340.496	-426.449	D	6.747	6.746	0	1.549	97.62	2.09	0	0	0	0.09
2001	315	23	2781	339.842	-425.379	D	6.802	6.797	0.005	1.649	97.8	2.03	0	0	0	0.15
2001	316	23	2588	318.452	-445.8	D	6.644	6.627	0.017	1.314	97.16	2.76	0	0	0	0.08
2001	317	23	2589	318.383	-445.593	D	6.728	6.716	0.012	1.489	98.93	1.03	0	0	0	0.04
2001	318	23	1517	329.93	-425.053	D	7.315	7.314	0	2.708	99.71	0.27	0	0	0	0.02
2001	319	23	1	318.65	-445.782	D	8.023	8.023	0	4.249	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.729	7.729	0	3.597	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.103	7.103	0	2.268	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	8.032	8.032	0	4.27	0	0	0	0	0	0
2001	323	23	1	318.65	-445.782	D	8.728	8.728	0	5.896	0	0	0	0	0	0
2001	324	23	1	318.65	-445.782	D	6.474	6.474	0	1.016	0	0	0	0	0	0
2001	325	23	1	318.65	-445.782	D	6.471	6.471	0	1.01	0	0	0	0	0	0
2001	326	23	2789	340.496	-426.449	D	6.533	6.533	0	1.129	95	4.78	0	0	0	0.08
2001	327	23	1	318.65	-445.782	D	8.475	8.475	0	5.291	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	8.774	8.774	0	6.006	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	6.66	6.66	0	1.377	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.063	7.063	0	2.186	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.026	7.026	0	2.111	0	0	0	0	0	0
2001	332	23	2789	340.496	-426.449	D	9.493	9.227	0.267	7.131	86.28	13.71	0	0	0	0.01
2001	333	23	2589	318.383	-445.593	D	10.823	10.218	**0.605**	9.779	88.4	11.59	0	0	0	0.01

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	334	23	2789	340.496	-426.449	D	9.5	8.348	1.152	4.993	93.91	6.08	0	0	0	0.01
2001	335	23	1	318.65	-445.782	D	6.625	6.625	0	1.31	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	6.688	6.688	0	1.434	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	6.971	6.971	0	1.999	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.231	7.231	0	2.534	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	9.653	9.653	0	8.239	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	9.943	9.943	0	9.018	0	0	0	0	0	0
2001	341	23	1	318.65	-445.782	D	7.912	7.912	0	4	0	0	0	0	0	0
2001	342	23	2708	329.979	-425	D	8.546	8.445	0.101	5.22	88.9	11.07	0	0	0	0.03
2001	343	23	2789	340.496	-426.449	D	6.595	6.595	0	1.25	87.79	12.39	0	0	0	0.17
2001	344	23	2789	340.496	-426.449	D	6.519	6.513	0.006	1.092	83.73	16.15	0	0	0	0.11
2001	345	23	2789	340.496	-426.449	D	6.579	6.574	0.005	1.209	91.34	8.62	0	0	0	0.06
2001	346	23	1043	326.845	-428.436	D	9.736	9.736	0	8.459	90.52	4.86	0	0	0	0.02
2001	347	23	1	318.65	-445.782	D	9.808	9.808	0	8.653	0	0	0	0	0	0
2001	348	23	2789	340.496	-426.449	D	9.243	9.231	0.012	7.142	95.23	4.75	0	0	0	0
2001	349	23	2789	340.496	-426.449	D	9.077	9.077	0.001	6.753	98.97	0.88	0	0	0	0.01
2001	350	23	2789	340.496	-426.449	D	10.223	10.218	0.006	9.779	96.8	3.16	0	0	0	0
2001	351	23	2789	340.496	-426.449	D	9.6	9.458	0.142	7.727	88.5	11.49	0	0	0	0.01
2001	352	23	2305	336.675	-425.757	D	6.542	6.542	0	1.147	93.11	2.19	0	0	0	0.01
2001	353	23	1	318.65	-445.782	D	6.815	6.815	0	1.686	0	0	0	0	0	0
2001	354	23	1	318.65	-445.782	D	6.471	6.471	0	1.009	0	0	0	0	0	0
2001	355	23	1	318.65	-445.782	D	6.487	6.487	0	1.042	0	0	0	0	0	0
2001	356	23	2334	337.183	-425.984	D	7.654	7.654	0	3.434	29.68	1.49	0	0	0	0
2001	357	23	1	318.65	-445.782	D	6.641	6.641	0	1.34	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	6.479	6.479	0	1.026	0	0	0	0	0	0
2001	359	23	1	318.65	-445.782	D	6.512	6.512	0	1.089	0	0	0	0	0	0
2001	360	23	1	318.65	-445.782	D	6.537	6.537	0	1.138	0	0	0	0	0	0
2001	361	23	1	318.65	-445.782	D	6.605	6.605	0	1.269	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2001	363	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2001	364	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2001	365	23	1	318.65	-445.782	D	6.619	6.619	0	1.298	0	0	0	0	0	0
									1.152							
NORANDA									**DELTA**		**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.785	7.785	0	3.719	0	0	0	0	0	0
2001	2	23	1	318.65	-445.782	D	7.39	7.39	0	2.868	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	3	23	1	318.65	-445.782	D	8.207	8.207	0	4.667	0	0	0	0	0	0
2001	4	23	1	318.65	-445.782	D	7.031	7.031	0	2.121	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	6.931	6.931	0	1.919	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	6.551	6.551	0	1.165	0	0	0	0	0	0
2001	7	23	1	318.65	-445.782	D	7.026	7.026	0	2.11	0	0	0	0	0	0
2001	8	23	1	318.65	-445.782	D	8.597	8.597	0	5.581	0	0	0	0	0	0
2001	9	23	1	318.65	-445.782	D	9.208	9.208	0	7.084	0	0	0	0	0	0
2001	10	23	2789	340.496	-426.449	D	6.97	6.97	0	1.996	98.01	0.01	0	0	0.13	1.06
2001	11	23	2789	340.496	-426.449	D	9.129	9.129	0	6.885	98.47	0.03	0	0	0.1	2.27
2001	12	23	1	318.65	-445.782	D	9.519	9.519	0	7.886	0	0	0	0	0	0
2001	13	23	2789	340.496	-426.449	D	9.248	9.244	0.004	7.175	99.38	0.06	0	0	0.02	0.49
2001	14	23	2789	340.496	-426.449	D	9.316	9.315	0.001	7.357	99.61	0.03	0	0	0	0.23
2001	15	23	1	318.65	-445.782	D	6.74	6.74	0	1.537	0	0	0	0	0	0
2001	16	23	1	318.65	-445.782	D	6.763	6.763	0	1.581	0	0	0	0	0	0
2001	17	23	1	318.65	-445.782	D	6.869	6.869	0	1.793	33.56	0.01	0	0	31.19	48.99
2001	18	23	1	318.65	-445.782	D	6.924	6.924	0	1.904	0	0	0	0	0	0
2001	19	23	1	318.65	-445.782	D	6.87	6.87	0	1.795	0	0	0	0	0	0
2001	20	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2001	21	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	22	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	6.621	6.621	0	1.303	0	0	0	0	0	0
2001	24	23	1	318.65	-445.782	D	6.746	6.746	0	1.549	0	0	0	0	0	0
2001	25	23	1	318.65	-445.782	D	6.568	6.568	0	1.197	0	0	0	0	0	0
2001	26	23	2789	340.496	-426.449	D	6.536	6.536	0	1.136	86.62	0.19	0	0	0.14	12.54
2001	27	23	1	318.65	-445.782	D	6.678	6.678	0	1.413	0	0	0	0	0	0
2001	28	23	2789	340.496	-426.449	D	6.518	6.516	0.002	1.097	82.96	0.24	0	0	0.69	16.11
2001	29	23	1	318.65	-445.782	D	8.908	8.908	0	6.335	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	6.819	6.819	0	1.692	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.016	7.016	0	2.09	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	6.478	6.478	0	1.025	0	0	0	0	0	0
2001	33	23	1	318.65	-445.782	D	6.561	6.561	0	1.185	0	0	0	0	0	0
2001	34	23	1	318.65	-445.782	D	6.476	6.476	0	1.019	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	6.617	6.617	0	1.293	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	6.583	6.583	0	1.226	0	0	0	0	0	0
2001	37	23	1	318.65	-445.782	D	6.528	6.528	0	1.121	0	0	0	0	0	0
2001	38	23	2789	340.496	-426.449	D	8.016	8.016	0	4.234	51.67	3.35	0	0	1.44	41.87
2001	39	23	1	318.65	-445.782	D	10.07	10.07	0	9.369	0	0	0	0	0	0
2001	40	23	1	318.65	-445.782	D	9.399	9.399	0	7.574	0	0	0	0	0	0
2001	41	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	42	23	2588	318.452	-445.8	D	6.48	6.471	0.009	1.01	89.61	0.13	0	0	0.42	9.81
2001	43	23	2704	329.056	-425.092	D	6.879	6.874	0.005	1.803	72.67	0.6	0	0	0.1	26.6
2001	44	23	1	318.65	-445.782	D	9.412	9.412	0	7.606	0	0	0	0	0	0
2001	45	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	46	23	2418	339.946	-426.612	D	8.624	8.624	0	5.644	92.26	0.04	0	0	0.05	2.68
2001	47	23	2466	334.129	-434.416	D	8.242	8.241	0.001	4.747	94.08	0.6	0	0	0.02	5.09
2001	48	23	1	318.65	-445.782	D	6.531	6.531	0	1.127	0	0	0	0	0	0
2001	49	23	1	318.65	-445.782	D	6.473	6.473	0	1.014	0	0	0	0	0	0
2001	50	23	2789	340.496	-426.449	D	6.495	6.494	0.001	1.055	89.12	0.12	0	0	0.25	10.61
2001	51	23	1	318.65	-445.782	D	9.197	9.197	0	7.056	0	0	0	0	0	0
2001	52	23	1	318.65	-445.782	D	8.177	8.177	0	4.598	37.15	0	0	0	8.4	52.05
2001	53	23	2526	325.887	-438.274	D	7.106	7.106	0	2.275	66.24	0.01	0	0	2.69	30.81
2001	54	23	2781	339.842	-425.379	D	6.789	6.785	0.004	1.626	94.41	0.15	0	0	0.67	4.73
2001	55	23	2781	339.842	-425.379	D	9.383	9.379	0.004	7.522	95.13	0.14	0	0	0.09	4.62
2001	56	23	1	318.65	-445.782	D	7.222	7.222	0	2.515	0	0	0	0	0	0
2001	57	23	1	318.65	-445.782	D	6.492	6.492	0	1.051	0	0	0	0	0	0
2001	58	23	2783	339.861	-425.806	D	6.552	6.517	0.035	1.099	90.11	0.09	0	0	0.38	9.42
2001	59	23	2597	318.971	-443.851	D	7.117	7.069	0.048	2.2	94.63	0.1	0	0	0.13	5.14
2001	60	23	2571	322.646	-445.476	D	6.718	6.708	0.009	1.473	93.45	0.06	0	0	0.36	6.15
2001	61	23	2492	329.914	-433.384	D	8.571	8.551	0.02	5.471	98.81	0.04	0	0	0.02	1.12
2001	62	23	381	322.546	-443.863	D	6.752	6.751	0.001	1.558	97.01	0.02	0	0	0.02	2.82
2001	63	23	2236	336.149	-430.776	D	6.6	6.6	0	1.261	85.27	0.17	0	0	0.02	8.02
2001	64	23	1	318.65	-445.782	D	6.523	6.523	0	1.11	0	0	0	0	0	0
2001	65	23	1	318.65	-445.782	D	6.525	6.525	0	1.114	0	0	0	0	0	0
2001	66	23	1	318.65	-445.782	D	6.471	6.471	0	1.011	0	0	0	0	0	0
2001	67	23	1	318.65	-445.782	D	6.534	6.534	0	1.132	0	0	0	0	0	0
2001	68	23	1	318.65	-445.782	D	6.488	6.488	0	1.042	0	0	0	0	0	0
2001	69	23	1951	333.842	-434.874	D	6.471	6.471	0	1.009	88.21	0.02	0	0	1.38	10.59
2001	70	23	2789	340.496	-426.449	D	6.504	6.502	0.002	1.07	90.04	0.06	0	0	0.23	9.68
2001	71	23	1	318.65	-445.782	D	9.154	9.154	0	6.946	0	0	0	0	0	0
2001	72	23	1	318.65	-445.782	D	6.558	6.558	0	1.178	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	74	23	199	320.795	-437.944	D	9.731	9.731	0	8.446	88.97	0.31	0	0	0.16	11.39
2001	75	23	2624	320.719	-437.835	D	8.053	7.98	0.073	4.152	99.02	0.11	0	0	0.01	0.85
2001	76	23	1	318.65	-445.782	D	6.567	6.567	0	1.196	0	0	0	0	0	0
2001	77	23	1	318.65	-445.782	D	6.502	6.502	0	1.069	0	0	0	0	0	0
2001	78	23	1	318.65	-445.782	D	6.479	6.479	0	1.026	0	0	0	0	0	0
2001	79	23	1	318.65	-445.782	D	6.495	6.495	0	1.057	0	0	0	0	0	0
2001	80	23	1	318.65	-445.782	D	6.473	6.473	0	1.013	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	81	23	1	318.65	-445.782	D	6.492	6.492	0	1.051	0	0	0	0	0	0
2001	82	23	2789	340.496	-426.449	D	6.681	6.661	0.02	1.38	94.29	0.01	0	0	0.44	5.26
2001	83	23	2789	340.496	-426.449	D	6.82	6.747	0.073	1.549	95.65	0.02	0	0	0.11	4.22
2001	84	23	1	318.65	-445.782	D	6.471	6.471	0	1.01	0	0	0	0	0	0
2001	85	23	1	318.65	-445.782	D	6.478	6.478	0	1.024	0	0	0	0	0	0
2001	86	23	1	318.65	-445.782	D	6.468	6.468	0	1.005	0	0	0	0	0	0
2001	87	23	380	322.557	-444.112	D	6.535	6.529	0.006	1.123	89.77	0.11	0	0	0.83	9.31
2001	88	23	2784	339.87	-426.019	D	7.422	7.421	0.001	2.932	96.38	0.06	0	0	0.15	3.28
2001	89	23	2571	322.646	-445.476	D	9.323	9.145	0.178	6.925	99.5	0.04	0	0	0.03	0.42
2001	90	23	2571	322.646	-445.476	D	7.653	7.628	0.025	3.376	99.09	0.04	0	0	0.02	0.85
2001	91	23	1412	329.218	-425.834	D	6.478	6.478	0	1.023	14.66	0.02	0	0	0	0.85
2001	92	23	1	318.65	-445.782	D	7.269	7.269	0	2.613	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	10.042	10.042	0	9.289	0	0	0	0	0	0
2001	94	23	2789	340.496	-426.449	D	10.242	9.96	0.282	9.065	98.79	0.09	0	0	0.05	1.07
2001	95	23	2758	335.862	-424.454	D	9.611	9.608	0.003	8.119	97.44	0.23	0	0	0.02	2.3
2001	96	23	1	318.65	-445.782	D	8.549	8.549	0	5.467	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.507	7.507	0	3.115	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.503	7.503	0	3.108	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.145	7.145	0	2.355	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.606	7.606	0	3.329	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	9.338	9.338	0	7.417	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	6.571	6.571	0	1.204	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.079	7.079	0	2.219	0	0	0	0	0	0
2001	105	23	1	318.65	-445.782	D	9.107	9.107	0	6.828	0	0	0	0	0	0
2001	106	23	1	318.65	-445.782	D	6.498	6.498	0	1.063	0	0	0	0	0	0
2001	107	23	1	318.65	-445.782	D	6.48	6.48	0	1.027	0	0	0	0	0	0
2001	108	23	1	318.65	-445.782	D	6.476	6.476	0	1.019	0	0	0	0	0	0
2001	109	23	1	318.65	-445.782	D	6.594	6.594	0	1.249	0	0	0	0	0	0
2001	110	23	1	318.65	-445.782	D	10.01	10.01	0	9.202	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	8.281	8.281	0	4.837	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	8.135	8.135	0	4.503	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	8.008	8.008	0	4.216	0	0	0	0	0	0
2001	114	23	1	318.65	-445.782	D	6.5	6.5	0	1.067	0	0	0	0	0	0
2001	115	23	1	318.65	-445.782	D	6.478	6.478	0	1.024	0	0	0	0	0	0
2001	116	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	6.586	6.586	0	1.232	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	6.585	6.585	0	1.231	0	0	0	0	0	0
2001	119	23	2789	340.496	-426.449	D	6.844	6.844	0	1.743	96.27	0	0	0	0.33	3.21

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	120	23	2789	340.496	-426.449	D	7.081	7.079	0.003	2.219	98.56	0	0	0	0.06	1.41
2001	121	23	1	318.65	-445.782	D	6.839	6.839	0	1.734	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.129	7.129	0	2.323	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.25	7.25	0	2.573	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	8.868	8.868	0	6.236	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	8.924	8.924	0	6.374	0	0	0	0	0	0
2001	127	23	1	318.65	-445.782	D	8.708	8.708	0	5.848	0	0	0	0	0	0
2001	128	23	1	318.65	-445.782	D	6.575	6.575	0	1.212	0	0	0	0	0	0
2001	129	23	1	318.65	-445.782	D	6.883	6.883	0	1.822	0	0	0	0	0	0
2001	130	23	2788	340.294	-426.448	D	6.953	6.953	0	1.963	30.57	0	0	0	0.01	0.08
2001	131	23	1	318.65	-445.782	D	8.246	8.246	0	4.756	0	0	0	0	0	0
2001	132	23	1	318.65	-445.782	D	8.901	8.901	0	6.317	0	0	0	0	0	0
2001	133	23	1	318.65	-445.782	D	6.561	6.561	0	1.185	0	0	0	0	0	0
2001	134	23	1	318.65	-445.782	D	6.804	6.804	0	1.664	0	0	0	0	0	0
2001	135	23	1	318.65	-445.782	D	6.961	6.961	0	1.979	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.897	7.897	0	3.966	0	0	0	0	0	0
2001	138	23	1	318.65	-445.782	D	7.89	7.89	0	3.951	0	0	0	0	0	0
2001	139	23	1	318.65	-445.782	D	7.288	7.288	0	2.653	0	0	0	0	0	0
2001	140	23	1	318.65	-445.782	D	7.627	7.627	0	3.373	0	0	0	0	0	0
2001	141	23	1	318.65	-445.782	D	8.961	8.961	0	6.464	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	6.534	6.534	0	1.131	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	6.54	6.54	0	1.144	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	6.507	6.507	0	1.08	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	6.566	6.566	0	1.193	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	6.546	6.546	0	1.156	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	6.809	6.809	0	1.673	0	0	0	0	0	0
2001	148	23	2468	334.002	-434.887	D	8.168	8.167	0	4.577	99.08	0	0	0	0.1	1.1
2001	149	23	2588	318.452	-445.8	D	7.147	7.075	0.072	2.211	96.54	0.01	0	0	0.3	3.15
2001	150	23	2758	335.862	-424.454	D	8.485	8.484	0.001	5.312	95.03	0.01	0	0	0.19	4.79
2001	151	23	2704	329.056	-425.092	D	9.011	9.006	0.006	6.576	97.07	0.02	0	0	0.07	2.82
2001	152	23	2708	329.979	-425	D	7.185	7.155	0.03	2.375	99.15	0	0	0	0.01	0.83
2001	153	23	1	318.65	-445.782	D	6.992	6.992	0	2.042	0	0	0	0	0	0
2001	154	23	2781	339.842	-425.379	D	7.623	7.58	0.043	3.273	98.56	0.01	0	0	0.07	1.36
2001	155	23	1	318.65	-445.782	D	8.894	8.894	0	6.3	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	8.375	8.375	0	5.056	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.624	7.624	0	3.368	0	0	0	0	0	0
2001	158	23	1	318.65	-445.782	D	7.996	7.996	0	4.188	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	159	23	2552	324.659	-442.591	D	7.317	7.309	0.008	2.697	98.71	0.01	0	0	0.09	1.17
2001	160	23	2448	335.908	-431.021	D	7.402	7.395	0.006	2.878	98.91	0	0	0	0.18	0.89
2001	161	23	2783	339.861	-425.806	D	7.883	7.757	0.126	3.659	98.56	0	0	0	0.09	1.34
2001	162	23	2571	322.646	-445.476	D	7.214	7.124	0.09	2.312	97.7	0	0	0	0.17	2.13
2001	163	23	2684	326.713	-427.014	D	6.897	6.876	0.02	1.808	97.7	0	0	0	0.24	2.05
2001	164	23	2307	336.654	-425.258	D	7.037	7.037	0	2.133	84.35	0	0	0	0.01	0.67
2001	165	23	1	318.65	-445.782	D	7.321	7.321	0	2.721	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	8.275	8.275	0	4.824	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	6.521	6.521	0	1.108	0	0	0	0	0	0
2001	168	23	2588	318.452	-445.8	D	6.546	6.545	0.001	1.153	95.95	0	0	0	0.69	3.36
2001	169	23	2588	318.452	-445.8	D	6.721	6.686	0.035	1.429	97.53	0	0	0	0.13	2.34
2001	170	23	1	318.65	-445.782	D	7.178	7.178	0	2.423	0	0	0	0	0	0
2001	171	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	172	23	1	318.65	-445.782	D	7.364	7.364	0	2.812	0	0	0	0	0	0
2001	173	23	1	318.65	-445.782	D	6.844	6.844	0	1.744	0	0	0	0	0	0
2001	174	23	1	318.65	-445.782	D	6.592	6.592	0	1.245	0	0	0	0	0	0
2001	175	23	1	318.65	-445.782	D	6.773	6.773	0	1.602	0	0	0	0	0	0
2001	176	23	2789	340.496	-426.449	D	7.649	7.636	0.013	3.395	98.92	0	0	0	0.15	0.9
2001	177	23	607	323.774	-437.813	D	7.258	7.15	0.108	2.365	98.26	0	0	0	0.13	1.6
2001	178	23	1548	330.222	-426.04	D	7.024	6.936	0.088	1.929	98.09	0	0	0	0.13	1.77
2001	179	23	2758	335.862	-424.454	D	9.111	8.971	0.14	6.49	99.48	0.01	0	0	0.02	0.49
2001	180	23	2695	328.074	-426.025	D	8.708	8.697	0.011	5.82	99.48	0	0	0	0.02	0.52
2001	181	23	638	324.065	-438.8	D	8.982	8.982	0	6.517	98.78	0	0	0	0	0.16
2001	182	23	2781	339.842	-425.379	D	9.24	9.24	0	7.165	88.92	0.04	0	0	0.32	8.99
2001	183	23	2789	340.496	-426.449	D	7.184	7.182	0.001	2.432	93.5	0.02	0	0	0.17	6.24
2001	184	23	2789	340.496	-426.449	D	7.349	7.347	0.002	2.776	96.93	0	0	0	0.1	2.9
2001	185	23	2788	340.294	-426.448	D	7.08	7.079	0	2.22	96.27	0	0	0	0.36	3.87
2001	186	23	1	318.65	-445.782	D	6.973	6.973	0	2.003	0	0	0	0	0	0
2001	187	23	1	318.65	-445.782	D	7.872	7.872	0	3.911	0	0	0	0	0	0
2001	188	23	2789	340.496	-426.449	D	8.713	8.713	0	5.859	99.76	0	0	0	0.01	0.15
2001	189	23	1	318.65	-445.782	D	7.18	7.18	0	2.428	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.028	7.028	0	2.115	0	0	0	0	0	0
2001	191	23	1	318.65	-445.782	D	7.041	7.041	0	2.142	0	0	0	0	0	0
2001	192	23	1	318.65	-445.782	D	6.957	6.957	0	1.971	0	0	0	0	0	0
2001	193	23	2781	339.842	-425.379	D	7.983	7.982	0.001	4.158	69.27	0.03	0	0	0.55	30.13
2001	194	23	2781	339.842	-425.379	D	9.132	9.026	0.106	6.626	98.63	0.03	0	0	0.05	1.29
2001	195	23	2588	318.452	-445.8	D	6.655	6.654	0.001	1.367	95.9	0	0	0	0.18	3.99
2001	196	23	2588	318.452	-445.8	D	6.728	6.685	0.043	1.427	94.99	0	0	0	0.56	4.44
2001	197	23	2684	326.713	-427.014	D	6.995	6.994	0.001	2.046	81.05	0	0	0	0.31	18.53

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	198	23	2405	338.909	-425.659	D	7.85	7.85	0	3.863	68.43	0.04	0	0	0.08	11.71
2001	199	23	1	318.65	-445.782	D	7.881	7.881	0	3.931	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.405	7.405	0	2.898	0	0	0	0	0	0
2001	201	23	1	318.65	-445.782	D	7.353	7.353	0	2.789	0	0	0	0	0	0
2001	202	23	2386	338.533	-428.423	D	6.808	6.808	0	1.67	91.29	0	0	0	0.13	3.56
2001	203	23	2468	334.002	-434.887	D	6.928	6.926	0.002	1.907	97.97	0	0	0	0.14	1.83
2001	204	23	2571	322.646	-445.476	D	7.926	7.813	0.113	3.782	99.25	0	0	0	0.05	0.7
2001	205	23	2588	318.452	-445.8	D	8.466	8.301	0.165	4.884	99.48	0	0	0	0.02	0.5
2001	206	23	2564	323.159	-444.002	D	8.112	8.028	0.084	4.26	99.43	0	0	0	0.02	0.55
2001	207	23	2789	340.496	-426.449	D	8.985	8.928	0.057	6.383	99.67	0	0	0	0.01	0.32
2001	208	23	2789	340.496	-426.449	D	8.95	8.905	0.045	6.326	99.54	0	0	0	0.02	0.44
2001	209	23	2789	340.496	-426.449	D	8.974	8.904	0.07	6.324	99.61	0.01	0	0	0.01	0.37
2001	210	23	2229	335.693	-426.049	D	8.636	8.636	0.001	5.673	99.81	0	0	0	0.01	0.53
2001	211	23	2274	336.179	-425.778	D	8.573	8.573	0	5.523	87.46	0	0	0	0.05	2.28
2001	212	23	2789	340.496	-426.449	D	8.504	8.496	0.009	5.339	99.02	0	0	0	0.14	0.84
2001	213	23	2789	340.496	-426.449	D	8.313	8.238	0.075	4.738	99.24	0	0	0	0.05	0.71
2001	214	23	2273	336.19	-426.028	D	7.561	7.548	0.012	3.204	99.35	0	0	0	0.03	0.61
2001	215	23	2784	339.87	-426.019	D	6.987	6.986	0.001	2.029	98.84	0	0	0	0.04	0.92
2001	216	23	2789	340.496	-426.449	D	7.049	7.049	0	2.158	97.6	0	0	0	0.05	1.42
2001	217	23	1	318.65	-445.782	D	7.138	7.138	0	2.34	81.83	0	0	0	0.1	0.64
2001	218	23	2588	318.452	-445.8	D	7.24	7.208	0.032	2.485	93.25	0.01	0	0	1.42	5.31
2001	219	23	2708	329.979	-425	D	7.876	7.463	0.414	3.021	98.19	0	0	0	0.25	1.56
2001	220	23	2597	318.971	-443.851	D	8.14	7.759	0.381	3.663	98.96	0	0	0	0.1	0.94
2001	221	23	2789	340.496	-426.449	D	7.801	7.762	0.039	3.668	99.32	0	0	0	0.03	0.64
2001	222	23	2402	338.942	-426.406	D	7.387	7.387	0	2.861	96.45	0	0	0	0.02	0.59
2001	223	23	1	318.65	-445.782	D	8.854	8.854	0	6.202	0	0	0	0	0	0
2001	224	23	2789	340.496	-426.449	D	7.365	7.365	0.001	2.813	96.58	0	0	0	0.35	3.19
2001	225	23	2468	334.002	-434.887	D	7.579	7.573	0.006	3.257	98.95	0.02	0	0	0.06	0.98
2001	226	23	6	319.136	-445.511	D	6.915	6.915	0	1.885	91.05	0	0	0	0.16	3.52
2001	227	23	1	318.65	-445.782	D	6.848	6.848	0	1.751	0	0	0	0	0	0
2001	228	23	1	318.65	-445.782	D	7.783	7.783	0	3.714	0	0	0	0	0	0
2001	229	23	1	318.65	-445.782	D	6.675	6.675	0	1.407	0	0	0	0	0	0
2001	230	23	1	318.65	-445.782	D	7.046	7.046	0	2.151	0	0	0	0	0	0
2001	231	23	1	318.65	-445.782	D	6.857	6.857	0	1.768	0	0	0	0	0	0
2001	232	23	1	318.65	-445.782	D	7.006	7.006	0	2.069	0	0	0	0	0	0
2001	233	23	1	318.65	-445.782	D	8.165	8.165	0	4.572	0	0	0	0	0	0
2001	234	23	1	318.65	-445.782	D	6.991	6.991	0	2.041	0	0	0	0	0	0
2001	235	23	2412	339.417	-425.886	D	6.974	6.974	0	2.005	92.53	0	0	0	0.01	0.35
2001	236	23	1	318.65	-445.782	D	7.113	7.113	0	2.289	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	237	23	1	318.65	-445.782	D	7.284	7.284	0	2.645	0	0	0	0	0	0
2001	238	23	1	318.65	-445.782	D	7.199	7.199	0	2.467	0	0	0	0	0	0
2001	239	23	1	318.65	-445.782	D	7.365	7.365	0	2.813	0	0	0	0	0	0
2001	240	23	1	318.65	-445.782	D	6.92	6.92	0	1.895	0	0	0	0	0	0
2001	241	23	1	318.65	-445.782	D	7.628	7.628	0	3.376	0	0	0	0	0	0
2001	242	23	1	318.65	-445.782	D	8.243	8.243	0	4.749	0	0	0	0	0	0
2001	243	23	1	318.65	-445.782	D	8.684	8.684	0	5.788	0	0	0	0	0	0
2001	244	23	1	318.65	-445.782	D	8.7	8.7	0	5.827	0	0	0	0	0	0
2001	245	23	2704	329.056	-425.092	D	9.287	8.788	0.499	6.04	99.13	0.03	0	0	0.06	0.79
2001	246	23	2588	318.452	-445.8	D	8.466	8.207	0.259	4.668	98.68	0	0	0	0.05	1.26
2001	247	23	2589	318.383	-445.593	D	7.202	7.196	0.007	2.46	98.61	0	0	0	0.07	1.3
2001	248	23	2447	336.137	-430.956	D	7.828	7.519	0.309	3.141	97.91	0.01	0	0	0.24	1.84
2001	249	23	2704	329.056	-425.092	D	7.432	7.394	0.038	2.876	97.35	0	0	0	0.11	2.53
2001	250	23	1	318.65	-445.782	D	8.117	8.117	0	4.462	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	9.202	9.202	0	7.068	0	0	0	0	0	0
2001	252	23	1	318.65	-445.782	D	9.34	9.34	0	7.421	0	0	0	0	0	0
2001	253	23	1	318.65	-445.782	D	6.988	6.988	0	2.034	0	0	0	0	0	0
2001	254	23	1	318.65	-445.782	D	6.784	6.784	0	1.623	0	0	0	0	0	0
2001	255	23	2571	322.646	-445.476	D	6.963	6.853	0.11	1.761	94.53	0.01	0	0	0.54	4.92
2001	256	23	2588	318.452	-445.8	D	7.009	6.987	0.022	2.031	95.69	0	0	0	0.42	3.89
2001	257	23	2588	318.452	-445.8	D	7.244	7.243	0.001	2.559	92.88	0	0	0	0.69	6.35
2001	258	23	67	319.674	-440.741	D	6.964	6.963	0.001	1.984	97.59	0	0	0	0.06	2.1
2001	259	23	2588	318.452	-445.8	D	6.771	6.742	0.028	1.541	97.23	0	0	0	0.19	2.58
2001	260	23	2571	322.646	-445.476	D	7.155	7.078	0.077	2.217	97.98	0	0	0	0.06	1.95
2001	261	23	2789	340.496	-426.449	D	8.856	8.832	0.025	6.147	99.2	0	0	0	0.02	0.77
2001	262	23	1199	327.783	-427.146	D	8.451	8.451	0	5.235	88.28	0	0	0	0.09	3.3
2001	263	23	13	319.06	-443.766	D	6.89	6.89	0	1.835	27.05	0	0	0	0.05	3.44
2001	264	23	1	318.65	-445.782	D	7.236	7.236	0	2.544	0	0	0	0	0	0
2001	265	23	1	318.65	-445.782	D	7.163	7.163	0	2.391	0	0	0	0	0	0
2001	266	23	1	318.65	-445.782	D	7.936	7.936	0	4.053	0	0	0	0	0	0
2001	267	23	1	318.65	-445.782	D	8.604	8.604	0	5.597	0	0	0	0	0	0
2001	268	23	1	318.65	-445.782	D	6.641	6.641	0	1.341	0	0	0	0	0	0
2001	269	23	1	318.65	-445.782	D	6.543	6.543	0	1.15	0	0	0	0	0	0
2001	270	23	1	318.65	-445.782	D	6.643	6.643	0	1.344	0	0	0	0	0	0
2001	271	23	1	318.65	-445.782	D	6.708	6.708	0	1.473	0	0	0	0	0	0
2001	272	23	1	318.65	-445.782	D	7.084	7.084	0	2.229	0	0	0	0	0	0
2001	273	23	1	318.65	-445.782	D	7.066	7.066	0	2.193	0	0	0	0	0	0
2001	274	23	1	318.65	-445.782	D	7.111	7.111	0	2.285	0	0	0	0	0	0
2001	275	23	1	318.65	-445.782	D	6.85	6.85	0	1.755	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	276	23	1	318.65	-445.782	D	7.64	7.64	0	3.401	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	8.468	8.468	0	5.274	0	0	0	0	0	0
2001	278	23	1	318.65	-445.782	D	9.71	9.71	0	8.39	0	0	0	0	0	0
2001	279	23	1	318.65	-445.782	D	7.077	7.077	0	2.216	0	0	0	0	0	0
2001	280	23	2571	322.646	-445.476	D	6.559	6.558	0	1.18	97.63	0	0	0	0.63	1.66
2001	281	23	2789	340.496	-426.449	D	6.628	6.613	0.014	1.286	95.08	0.03	0	0	0.26	4.63
2001	282	23	642	324.022	-437.802	D	7.674	7.674	0	3.476	24.51	0.03	0	0	0.03	11.13
2001	283	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	284	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	285	23	1	318.65	-445.782	D	9.798	9.798	0	8.625	0	0	0	0	0	0
2001	286	23	1	318.65	-445.782	D	10.019	10.019	0	9.227	0	0	0	0	0	0
2001	287	23	1	318.65	-445.782	D	7.49	7.49	0	3.08	0	0	0	0	0	0
2001	288	23	1	318.65	-445.782	D	6.929	6.929	0	1.915	0	0	0	0	0	0
2001	289	23	1	318.65	-445.782	D	7.071	7.071	0	2.203	0	0	0	0	0	0
2001	290	23	1	318.65	-445.782	D	6.486	6.486	0	1.04	0	0	0	0	0	0
2001	291	23	2789	340.496	-426.449	D	6.548	6.548	0	1.16	93.34	0.01	0	0	0.34	5.82
2001	292	23	1	318.65	-445.782	D	6.799	6.799	0	1.653	0	0	0	0	0	0
2001	293	23	1	318.65	-445.782	D	8.641	8.641	0	5.686	0	0	0	0	0	0
2001	294	23	1	318.65	-445.782	D	9.362	9.362	0	7.476	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	9.29	9.29	0	7.294	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	297	23	1	318.65	-445.782	D	9.624	9.624	0	8.162	0	0	0	0	0	0
2001	298	23	1	318.65	-445.782	D	6.508	6.508	0	1.081	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	300	23	1	318.65	-445.782	D	6.471	6.471	0	1.011	0	0	0	0	0	0
2001	301	23	2468	334.002	-434.887	D	6.479	6.478	0.001	1.023	89.9	0.02	0	0	1.06	9.07
2001	302	23	2789	340.496	-426.449	D	6.507	6.501	0.007	1.067	91.9	0.05	0	0	0.22	7.86
2001	303	23	2248	336.018	-427.784	D	6.554	6.554	0	1.171	67.53	0.01	0	0	0.02	3.91
2001	304	23	1	318.65	-445.782	D	6.695	6.695	0	1.447	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	9.032	9.032	0	6.64	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	9.835	9.835	0	8.726	0	0	0	0	0	0
2001	307	23	2414	339.687	-426.374	D	9.685	9.685	0	8.324	8.42	0	0	0	0.66	2.64
2001	308	23	2588	318.452	-445.8	D	6.969	6.948	0.021	1.953	88.84	0.01	0	0	1.23	9.91
2001	309	23	2588	318.452	-445.8	D	8.026	8.026	0.001	4.255	75.48	0	0	0	1.69	22.6
2001	310	23	2588	318.452	-445.8	D	7.881	7.88	0.002	3.928	96.82	0.01	0	0	0.25	2.98
2001	311	23	2448	335.908	-431.021	D	7.178	7.161	0.017	2.389	97.13	0.01	0	0	0.12	2.74
2001	312	23	2789	340.496	-426.449	D	7.27	7.268	0.001	2.612	93.45	0.03	0	0	0.14	6.34
2001	313	23	1	318.65	-445.782	D	6.615	6.615	0	1.289	0	0	0	0	0	0
2001	314	23	1	318.65	-445.782	D	6.786	6.786	0	1.628	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	315	23	1	318.65	-445.782	D	6.785	6.785	0	1.626	0	0	0	0	0	0
2001	316	23	2762	336.074	-425.006	D	6.687	6.661	0.026	1.381	85.19	0.02	0	0	2.33	12.45
2001	317	23	2589	318.383	-445.593	D	6.725	6.716	0.009	1.489	87.56	0.07	0	0	0.13	12.25
2001	318	23	1414	329.196	-425.335	D	7.315	7.314	0	2.708	94.55	0.02	0	0	0.02	5.34
2001	319	23	1	318.65	-445.782	D	8.023	8.023	0	4.249	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.729	7.729	0	3.597	0	0	0	0	0	0
2001	321	23	2571	322.646	-445.476	D	7.121	7.103	0.019	2.268	93.88	0.02	0	0	0.53	5.57
2001	322	23	2564	323.159	-444.002	D	8.332	8.032	0.3	4.27	98.43	0.03	0	0	0.05	1.49
2001	323	23	2399	338.683	-426.168	D	8.463	8.463	0	5.264	97.61	0	0	0	0.02	0.55
2001	324	23	1	318.65	-445.782	D	6.474	6.474	0	1.016	0	0	0	0	0	0
2001	325	23	1	318.65	-445.782	D	6.471	6.471	0	1.01	0	0	0	0	0	0
2001	326	23	1	318.65	-445.782	D	6.548	6.548	0	1.159	0	0	0	0	0	0
2001	327	23	1	318.65	-445.782	D	8.475	8.475	0	5.291	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	8.774	8.774	0	6.006	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	6.66	6.66	0	1.377	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.063	7.063	0	2.186	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.026	7.026	0	2.111	0	0	0	0	0	0
2001	332	23	2571	322.646	-445.476	D	9.267	9.266	0.001	7.232	98.8	0.15	0	0	0.14	0.85
2001	333	23	2571	322.646	-445.476	D	10.225	10.218	0.007	9.779	98.72	0.29	0	0	0.01	0.93
2001	334	23	2468	334.002	-434.887	D	8.396	8.395	0.001	5.103	99.02	0.29	0	0	0	0.8
2001	335	23	1	318.65	-445.782	D	6.625	6.625	0	1.31	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	6.688	6.688	0	1.434	0	0	0	0	0	0
2001	337	23	2789	340.496	-426.449	D	6.841	6.841	0	1.737	90.79	0.01	0	0	0.54	8.29
2001	338	23	2396	338.424	-425.93	D	7.046	7.046	0	2.151	76.37	0.05	0	0	0.37	22.21
2001	339	23	1	318.65	-445.782	D	9.653	9.653	0	8.239	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	9.943	9.943	0	9.018	0	0	0	0	0	0
2001	341	23	1	318.65	-445.782	D	7.912	7.912	0	4	0	0	0	0	0	0
2001	342	23	2789	340.496	-426.449	D	8.497	8.487	0.01	5.32	99.47	0.06	0	0	0.01	0.47
2001	343	23	1	318.65	-445.782	D	6.589	6.589	0	1.239	0	0	0	0	0	0
2001	344	23	1	318.65	-445.782	D	6.522	6.522	0	1.109	0	0	0	0	0	0
2001	345	23	2789	340.496	-426.449	D	6.586	6.574	0.013	1.209	90.23	0.13	0	0	0.62	9.01
2001	346	23	2784	339.87	-426.019	D	9.733	9.732	0	8.45	76.03	0.49	0	0	0.19	23.6
2001	347	23	1	318.65	-445.782	D	9.808	9.808	0	8.653	0	0	0	0	0	0
2001	348	23	1	318.65	-445.782	D	9.503	9.503	0	7.842	0	0	0	0	0	0
2001	349	23	1	318.65	-445.782	D	9.319	9.319	0	7.367	0	0	0	0	0	0
2001	350	23	2781	339.842	-425.379	D	10.417	10.218	0.199	9.779	97.55	0.36	0	0	0.1	1.99
2001	351	23	2789	340.496	-426.449	D	9.62	9.458	0.162	7.727	99.65	0.05	0	0	0.01	0.3
2001	352	23	1	318.65	-445.782	D	6.544	6.544	0	1.152	0	0	0	0	0	0
2001	353	23	1	318.65	-445.782	D	6.815	6.815	0	1.686	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	354	23	1	318.65	-445.782	D	6.471	6.471	0	1.009	0	0	0	0	0	0
2001	355	23	1	318.65	-445.782	D	6.487	6.487	0	1.042	0	0	0	0	0	0
2001	356	23	1	318.65	-445.782	D	8.259	8.259	0	4.788	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	6.641	6.641	0	1.34	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	6.479	6.479	0	1.026	0	0	0	0	0	0
2001	359	23	1	318.65	-445.782	D	6.512	6.512	0	1.089	0	0	0	0	0	0
2001	360	23	1	318.65	-445.782	D	6.537	6.537	0	1.138	0	0	0	0	0	0
2001	361	23	1	318.65	-445.782	D	6.605	6.605	0	1.269	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2001	363	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2001	364	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2001	365	23	1	318.65	-445.782	D	6.619	6.619	0	1.298	0	0	0	0	0	0
									0.499							
INDEPENDENCE											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.785	7.785	0	3.719	0	0	0	0	0	0
2001	2	23	2789	340.496	-426.449	D	7.543	7.421	0.122	2.932	88.67	10.92	0	0	0	0.41
2001	3	23	2789	340.496	-426.449	D	7.798	7.761	0.037	3.667	91.93	7.86	0	0	0	0.2
2001	4	23	1	318.65	-445.782	D	7.031	7.031	0	2.121	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	6.931	6.931	0	1.919	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	6.551	6.551	0	1.165	0	0	0	0	0	0
2001	7	23	2781	339.842	-425.379	D	7.273	7.129	0.144	2.323	77.13	22	0	0	0	0.87
2001	8	23	2611	319.699	-440.64	D	8.748	8.682	0.066	5.784	91.32	8.46	0	0	0	0.23
2001	9	23	2781	339.842	-425.379	D	10.025	9.56	0.464	7.993	91.26	8.62	0	0	0	0.12
2001	10	23	1514	329.963	-425.801	D	7.035	7	0.035	2.059	90.24	9.41	0	0	0	0.34
2001	11	23	2781	339.842	-425.379	D	9.131	9.131	0	6.888	88.97	5.31	0	0	0	0.38
2001	12	23	1	318.65	-445.782	D	9.519	9.519	0	7.886	0	0	0	0	0	0
2001	13	23	1	318.65	-445.782	D	9.698	9.698	0	8.359	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	9.396	9.396	0	7.566	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	6.74	6.74	0	1.537	0	0	0	0	0	0
2001	16	23	2758	335.862	-424.454	D	6.817	6.795	0.022	1.645	79.84	17.93	0	0	0	2.23
2001	17	23	2597	318.971	-443.851	D	6.92	6.897	0.023	1.849	80.28	18.43	0	0	0	1.29
2001	18	23	2704	329.056	-425.092	D	6.91	6.896	0.014	1.847	90.36	8.5	0	0	0	1.13
2001	19	23	2626	320.826	-437.417	D	7.106	6.925	0.181	1.907	65.64	32.46	0	0	0	1.9
2001	20	23	2789	340.496	-426.449	D	6.581	6.555	0.025	1.174	73.06	24.31	0	0	0	2.63
2001	21	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	22	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	23	23	1	318.65	-445.782	D	6.621	6.621	0	1.303	0	0	0	0	0	0
2001	24	23	2704	329.056	-425.092	D	6.787	6.738	0.049	1.533	90.99	8.24	0	0	0	0.77
2001	25	23	2589	318.383	-445.593	D	6.636	6.568	0.069	1.197	82.5	15.83	0	0	0	1.67
2001	26	23	1	318.65	-445.782	D	6.538	6.538	0	1.139	92.28	14.1	0	0	0	1.33
2001	27	23	2781	339.842	-425.379	D	6.678	6.66	0.018	1.378	73.37	23.87	0	0	0	2.76
2001	28	23	2684	326.713	-427.014	D	6.541	6.53	0.011	1.125	79.65	18.68	0	0	0	1.66
2001	29	23	1	318.65	-445.782	D	8.908	8.908	0	6.335	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	6.819	6.819	0	1.692	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.016	7.016	0	2.09	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	6.478	6.478	0	1.025	0	0	0	0	0	0
2001	33	23	1	318.65	-445.782	D	6.561	6.561	0	1.185	0	0	0	0	0	0
2001	34	23	1	318.65	-445.782	D	6.476	6.476	0	1.019	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	6.617	6.617	0	1.293	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	6.583	6.583	0	1.226	0	0	0	0	0	0
2001	37	23	2707	329.748	-425.023	D	6.522	6.522	0	1.108	92.73	4.65	0	0	0	2.8
2001	38	23	2711	330.671	-424.932	D	7.856	7.856	0	3.876	87.02	10.3	0	0	0	1.98
2001	39	23	1	318.65	-445.782	D	10.07	10.07	0	9.369	0	0	0	0	0	0
2001	40	23	2758	335.862	-424.454	D	9.357	9.356	0.001	7.463	90.19	9.66	0	0	0	0.05
2001	41	23	2223	335.759	-427.545	D	6.682	6.664	0.017	1.386	64.84	31.88	0	0	0	3.29
2001	42	23	2588	318.452	-445.8	D	6.474	6.471	0.002	1.01	81.33	17.05	0	0	0	1.62
2001	43	23	1	318.65	-445.782	D	6.879	6.879	0	1.812	0	0	0	0	0	0
2001	44	23	1	318.65	-445.782	D	9.412	9.412	0	7.606	0	0	0	0	0	0
2001	45	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	46	23	2695	328.074	-426.025	D	9.77	8.765	**1.004**	5.985	93.59	6.2	0	0	0	0.21
2001	47	23	2789	340.496	-426.449	D	8.799	8.052	**0.747**	4.315	92.42	7.44	0	0	0	0.14
2001	48	23	2589	318.383	-445.593	D	6.531	6.531	0	1.127	81.68	15.83	0	0	0	2.28
2001	49	23	2704	329.056	-425.092	D	6.486	6.472	0.014	1.012	82.35	16.24	0	0	0	1.4
2001	50	23	2041	333.901	-424.879	D	6.497	6.497	0	1.06	87.74	8.77	0	0	0	0.74
2001	51	23	1	318.65	-445.782	D	9.197	9.197	0	7.056	0	0	0	0	0	0
2001	52	23	2695	328.074	-426.025	D	8.156	8.125	0.032	4.479	94.2	5.68	0	0	0	0.12
2001	53	23	2415	339.676	-426.124	D	7.071	7.067	0.003	2.195	94.17	5.6	0	0	0	0.19
2001	54	23	13	319.06	-443.766	D	6.764	6.764	0	1.583	35.47	0.9	0	0	0	0.12
2001	55	23	1	318.65	-445.782	D	9.447	9.447	0	7.697	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.222	7.222	0	2.515	0	0	0	0	0	0
2001	57	23	2789	340.496	-426.449	D	6.501	6.499	0.002	1.064	94.67	4.16	0	0	0	1.21
2001	58	23	2781	339.842	-425.379	D	6.524	6.517	0.007	1.099	94.26	5.16	0	0	0	0.62
2001	59	23	2694	327.861	-425.964	D	7.146	7.142	0.004	2.348	93.97	5.87	0	0	0	0.13
2001	60	23	1	318.65	-445.782	D	6.708	6.708	0	1.473	0	0	0	0	0	0
2001	61	23	1	318.65	-445.782	D	8.524	8.524	0	5.407	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	62	23	2788	340.294	-426.448	D	6.731	6.731	0	1.518	89.56	5.41	0	0	0	0.86
2001	63	23	2628	320.933	-436.998	D	6.727	6.618	0.109	1.295	91.46	7.67	0	0	0	0.87
2001	64	23	2781	339.842	-425.379	D	6.626	6.535	0.091	1.134	70.4	25.9	0	0	0	3.7
2001	65	23	2789	340.496	-426.449	D	6.531	6.526	0.005	1.116	68.13	27.94	0	0	0	3.93
2001	66	23	2758	335.862	-424.454	D	6.485	6.471	0.014	1.011	95.37	3.22	0	0	0	1.42
2001	67	23	2781	339.842	-425.379	D	6.581	6.541	0.04	1.146	90.07	8.53	0	0	0	1.39
2001	68	23	2684	326.713	-427.014	D	6.504	6.493	0.011	1.053	73.98	22.56	0	0	0	3.46
2001	69	23	1	318.65	-445.782	D	6.471	6.471	0	1.01	0	0	0	0	0	0
2001	70	23	1	318.65	-445.782	D	6.506	6.506	0	1.078	0	0	0	0	0	0
2001	71	23	1	318.65	-445.782	D	9.154	9.154	0	6.946	0	0	0	0	0	0
2001	72	23	1	318.65	-445.782	D	6.558	6.558	0	1.178	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	74	23	1	318.65	-445.782	D	9.736	9.736	0	8.459	0	0	0	0	0	0
2001	75	23	2758	335.862	-424.454	D	7.595	7.591	0.004	3.297	94.23	5.66	0	0	0	0.1
2001	76	23	2694	327.861	-425.964	D	6.616	6.586	0.03	1.234	69.97	27.1	0	0	0	2.93
2001	77	23	2589	318.383	-445.593	D	6.502	6.502	0	1.069	87.69	10.17	0	0	0	2.31
2001	78	23	1	318.65	-445.782	D	6.479	6.479	0	1.026	0	0	0	0	0	0
2001	79	23	1	318.65	-445.782	D	6.495	6.495	0	1.057	0	0	0	0	0	0
2001	80	23	1	318.65	-445.782	D	6.473	6.473	0	1.013	0	0	0	0	0	0
2001	81	23	1	318.65	-445.782	D	6.492	6.492	0	1.051	0	0	0	0	0	0
2001	82	23	1	318.65	-445.782	D	6.603	6.603	0	1.266	0	0	0	0	0	0
2001	83	23	1	318.65	-445.782	D	6.758	6.758	0	1.572	0	0	0	0	0	0
2001	84	23	2684	326.713	-427.014	D	6.481	6.473	0.008	1.014	85.01	12.53	0	0	0	2.45
2001	85	23	2467	334.065	-434.651	D	6.518	6.48	0.037	1.028	84.77	13.43	0	0	0	1.81
2001	86	23	2684	326.713	-427.014	D	6.469	6.468	0.001	1.004	87.32	11.33	0	0	0	1.48
2001	87	23	863	325.509	-431.992	D	6.518	6.518	0	1.102	58.21	1.59	0	0	0	0.74
2001	88	23	1	318.65	-445.782	D	7.559	7.559	0	3.227	0	0	0	0	0	0
2001	89	23	1	318.65	-445.782	D	9.145	9.145	0	6.925	0	0	0	0	0	0
2001	90	23	1	318.65	-445.782	D	7.628	7.628	0	3.376	0	0	0	0	0	0
2001	91	23	1	318.65	-445.782	D	6.481	6.481	0	1.029	0	0	0	0	0	0
2001	92	23	1	318.65	-445.782	D	7.269	7.269	0	2.613	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	10.042	10.042	0	9.289	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	9.747	9.747	0	8.488	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	8.549	8.549	0	5.467	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.507	7.507	0	3.115	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.503	7.503	0	3.108	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.145	7.145	0	2.355	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.606	7.606	0	3.329	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	101	23	1	318.65	-445.782	D	9.338	9.338	0	7.417	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	6.571	6.571	0	1.204	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.079	7.079	0	2.219	0	0	0	0	0	0
2001	105	23	2781	339.842	-425.379	D	8.945	8.943	0.002	6.422	98.75	0.48	0	0	0	0.67
2001	106	23	2789	340.496	-426.449	D	6.512	6.503	0.009	1.073	80.26	15.64	0	0	0	4.1
2001	107	23	2589	318.383	-445.593	D	6.494	6.48	0.014	1.027	76.18	20.12	0	0	0	3.69
2001	108	23	2628	320.933	-436.998	D	6.505	6.476	0.029	1.02	95.06	4	0	0	0	0.94
2001	109	23	2781	339.842	-425.379	D	6.564	6.563	0.001	1.188	98.92	0.5	0	0	0	0.55
2001	110	23	1	318.65	-445.782	D	10.01	10.01	0	9.202	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	8.281	8.281	0	4.837	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	8.135	8.135	0	4.503	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	8.008	8.008	0	4.216	0	0	0	0	0	0
2001	114	23	2781	339.842	-425.379	D	6.512	6.504	0.008	1.074	97.35	0.94	0	0	0	1.71
2001	115	23	2588	318.452	-445.8	D	6.514	6.478	0.036	1.024	97.39	1.49	0	0	0	1.12
2001	116	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	6.586	6.586	0	1.232	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	6.585	6.585	0	1.231	0	0	0	0	0	0
2001	119	23	1	318.65	-445.782	D	6.867	6.867	0	1.788	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.147	7.147	0	2.358	0	0	0	0	0	0
2001	121	23	1	318.65	-445.782	D	6.839	6.839	0	1.734	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.129	7.129	0	2.323	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.25	7.25	0	2.573	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	8.868	8.868	0	6.236	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	8.924	8.924	0	6.374	0	0	0	0	0	0
2001	127	23	2781	339.842	-425.379	D	8.407	8.405	0.001	5.127	98.65	0.16	0	0	0	1.24
2001	128	23	2790	340.421	-426.562	D	6.629	6.551	0.079	1.164	98.54	0.58	0	0	0	0.88
2001	129	23	2564	323.159	-444.002	D	6.921	6.883	0.038	1.822	99.45	0.23	0	0	0	0.32
2001	130	23	2789	340.496	-426.449	D	6.953	6.953	0	1.963	99.32	0.07	0	0	0	0.29
2001	131	23	1	318.65	-445.782	D	8.246	8.246	0	4.756	0	0	0	0	0	0
2001	132	23	2782	339.852	-425.592	D	8.87	8.737	0.133	5.917	94.49	5.42	0	0	0	0.08
2001	133	23	1	318.65	-445.782	D	6.561	6.561	0	1.185	0	0	0	0	0	0
2001	134	23	1	318.65	-445.782	D	6.804	6.804	0	1.664	0	0	0	0	0	0
2001	135	23	1	318.65	-445.782	D	6.961	6.961	0	1.979	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.897	7.897	0	3.966	0	0	0	0	0	0
2001	138	23	2694	327.861	-425.964	D	7.58	7.574	0.006	3.259	98.41	1.46	0	0	0	0.13
2001	139	23	2708	329.979	-425	D	7.772	7.713	0.059	3.561	99.15	0.76	0	0	0	0.08

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	140	23	2308	337.055	-428.737	D	7.462	7.462	0	3.019	91.8	0.03	0	0	0	0.28
2001	141	23	1	318.65	-445.782	D	8.961	8.961	0	6.464	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	6.534	6.534	0	1.131	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	6.54	6.54	0	1.144	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	6.507	6.507	0	1.08	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	6.566	6.566	0	1.193	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	6.546	6.546	0	1.156	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	6.809	6.809	0	1.673	0	0	0	0	0	0
2001	148	23	2789	340.496	-426.449	D	8.09	8.088	0.002	4.396	99.39	0.04	0	0	0	0.55
2001	149	23	2789	340.496	-426.449	D	7.077	6.968	0.108	1.993	99.47	0.27	0	0	0	0.26
2001	150	23	2758	335.862	-424.454	D	8.492	8.484	0.008	5.312	99.66	0.14	0	0	0	0.18
2001	151	23	1	318.65	-445.782	D	9.068	9.068	0	6.73	0	0	0	0	0	0
2001	152	23	1	318.65	-445.782	D	7.103	7.103	0	2.268	0	0	0	0	0	0
2001	153	23	2789	340.496	-426.449	D	7.138	7.138	0	2.341	97.21	1.05	0	0	0	1.6
2001	154	23	2418	339.946	-426.612	D	7.576	7.576	0	3.264	105.16	0.46	0	0	0	0.19
2001	155	23	1	318.65	-445.782	D	8.894	8.894	0	6.3	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	8.375	8.375	0	5.056	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.624	7.624	0	3.368	0	0	0	0	0	0
2001	158	23	2781	339.842	-425.379	D	8.168	8.143	0.025	4.522	99.66	0.13	0	0	0	0.21
2001	159	23	2653	324.014	-433.36	D	7.542	7.293	0.249	2.663	99.7	0.19	0	0	0	0.11
2001	160	23	2588	318.452	-445.8	D	7.361	7.36	0.001	2.804	99.7	0.01	0	0	0	0.25
2001	161	23	1	318.65	-445.782	D	7.369	7.369	0	2.823	0	0	0	0	0	0
2001	162	23	1	318.65	-445.782	D	7.124	7.124	0	2.312	0	0	0	0	0	0
2001	163	23	1	318.65	-445.782	D	6.931	6.931	0	1.917	0	0	0	0	0	0
2001	164	23	1	318.65	-445.782	D	7.137	7.137	0	2.339	0	0	0	0	0	0
2001	165	23	1	318.65	-445.782	D	7.321	7.321	0	2.721	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	8.275	8.275	0	4.824	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	6.521	6.521	0	1.108	0	0	0	0	0	0
2001	168	23	2468	334.002	-434.887	D	6.541	6.538	0.003	1.14	99.41	0.03	0	0	0	0.57
2001	169	23	2789	340.496	-426.449	D	6.653	6.651	0.002	1.36	99.63	0.02	0	0	0	0.37
2001	170	23	2384	338.176	-425.941	D	7	7	0	2.057	93.83	0.01	0	0	0	0.28
2001	171	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	172	23	2784	339.87	-426.019	D	7.302	7.224	0.079	2.518	99.61	0.16	0	0	0	0.23
2001	173	23	2588	318.452	-445.8	D	6.901	6.844	0.057	1.744	99.05	0.38	0	0	0	0.57
2001	174	23	2789	340.496	-426.449	D	6.726	6.611	0.115	1.283	98.52	0.54	0	0	0	0.94
2001	175	23	2789	340.496	-426.449	D	6.765	6.76	0.005	1.576	99.38	0.1	0	0	0	0.5
2001	176	23	2571	322.646	-445.476	D	8.456	8.451	0.005	5.235	99.8	0.06	0	0	0	0.08
2001	177	23	1415	329.185	-425.086	D	7.155	7.155	0	2.376	99.74	0.03	0	0	0	0.13
2001	178	23	1	318.65	-445.782	D	6.992	6.992	0	2.043	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	179	23	1	318.65	-445.782	D	9.057	9.057	0	6.704	0	0	0	0	0	0
2001	180	23	1	318.65	-445.782	D	8.855	8.855	0	6.204	0	0	0	0	0	0
2001	181	23	1	318.65	-445.782	D	8.968	8.968	0	6.482	0	0	0	0	0	0
2001	182	23	2708	329.979	-425	D	9.398	9.396	0.002	7.564	99.62	0.01	0	0	0	0.33
2001	183	23	2695	328.074	-426.025	D	7.263	7.243	0.02	2.559	99.63	0.21	0	0	0	0.15
2001	184	23	1415	329.185	-425.086	D	7.378	7.377	0.001	2.841	100	0.03	0	0	0	0.11
2001	185	23	1	318.65	-445.782	D	7.174	7.174	0	2.415	0	0	0	0	0	0
2001	186	23	2781	339.842	-425.379	D	7.048	7.042	0.005	2.144	99.59	0.01	0	0	0	0.39
2001	187	23	2789	340.496	-426.449	D	7.832	7.635	0.197	3.392	99.77	0.09	0	0	0	0.13
2001	188	23	2789	340.496	-426.449	D	8.782	8.713	0.069	5.859	99.94	0.02	0	0	0	0.04
2001	189	23	1	318.65	-445.782	D	7.18	7.18	0	2.428	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.028	7.028	0	2.115	0	0	0	0	0	0
2001	191	23	2789	340.496	-426.449	D	7.346	7.248	0.097	2.57	99.67	0.12	0	0	0	0.21
2001	192	23	2789	340.496	-426.449	D	7.103	7.063	0.04	2.187	99.64	0.04	0	0	0	0.32
2001	193	23	1	318.65	-445.782	D	7.589	7.589	0	3.293	0	0	0	0	0	0
2001	194	23	1	318.65	-445.782	D	9.103	9.103	0	6.82	0	0	0	0	0	0
2001	195	23	1	318.65	-445.782	D	6.654	6.654	0	1.367	0	0	0	0	0	0
2001	196	23	1	318.65	-445.782	D	6.685	6.685	0	1.427	0	0	0	0	0	0
2001	197	23	1	318.65	-445.782	D	7.148	7.148	0	2.362	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.972	7.972	0	4.135	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.881	7.881	0	3.931	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.405	7.405	0	2.898	0	0	0	0	0	0
2001	201	23	1	318.65	-445.782	D	7.353	7.353	0	2.789	0	0	0	0	0	0
2001	202	23	2406	339.19	-426.396	D	6.808	6.808	0	1.67	97.22	0.01	0	0	0	0.36
2001	203	23	2784	339.87	-426.019	D	6.904	6.904	0	1.864	98.86	0.05	0	0	0	0.25
2001	204	23	1	318.65	-445.782	D	7.813	7.813	0	3.782	0	0	0	0	0	0
2001	205	23	1	318.65	-445.782	D	8.301	8.301	0	4.884	0	0	0	0	0	0
2001	206	23	1	318.65	-445.782	D	8.028	8.028	0	4.26	0	0	0	0	0	0
2001	207	23	2758	335.862	-424.454	D	8.966	8.965	0.001	6.475	99.77	0.05	0	0	0	0.18
2001	208	23	2789	340.496	-426.449	D	8.95	8.905	0.046	6.326	99.43	0.52	0	0	0	0.05
2001	209	23	1513	329.974	-426.051	D	9.193	9.156	0.037	6.952	99.46	0.5	0	0	0	0.03
2001	210	23	2784	339.87	-426.019	D	8.71	8.71	0	5.852	99.21	0.1	0	0	0	0.07
2001	211	23	2789	340.496	-426.449	D	8.626	8.621	0.005	5.638	99.84	0.07	0	0	0	0.13
2001	212	23	2781	339.842	-425.379	D	8.513	8.49	0.023	5.325	99.92	0.03	0	0	0	0.05
2001	213	23	2784	339.87	-426.019	D	8.239	8.238	0.001	4.738	99.96	0.01	0	0	0	0.06
2001	214	23	1	318.65	-445.782	D	7.764	7.764	0	3.674	0	0	0	0	0	0
2001	215	23	1	318.65	-445.782	D	7.135	7.135	0	2.335	0	0	0	0	0	0
2001	216	23	2789	340.496	-426.449	D	7.075	7.049	0.025	2.158	99.4	0.37	0	0	0	0.22
2001	217	23	2588	318.452	-445.8	D	7.142	7.138	0.004	2.34	99.82	0.03	0	0	0	0.15

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	218	23	1	318.65	-445.782	D	7.208	7.208	0	2.485	0	0	0	0	0	0
2001	219	23	1	318.65	-445.782	D	7.407	7.407	0	2.902	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.7	7.7	0	3.534	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.773	7.773	0	3.694	0	0	0	0	0	0
2001	222	23	2684	326.713	-427.014	D	7.507	7.417	0.09	2.925	99.34	0.07	0	0	0	0.59
2001	223	23	2447	336.137	-430.956	D	9.781	9.058	**0.723**	6.707	98.39	1.53	0	0	0	0.08
2001	224	23	2468	334.002	-434.887	D	7.423	7.417	0.007	2.923	99.6	0.25	0	0	0	0.15
2001	225	23	2789	340.496	-426.449	D	7.596	7.587	0.009	3.288	99.15	0.76	0	0	0	0.08
2001	226	23	1	318.65	-445.782	D	6.915	6.915	0	1.885	0	0	0	0	0	0
2001	227	23	1	318.65	-445.782	D	6.848	6.848	0	1.751	0	0	0	0	0	0
2001	228	23	1	318.65	-445.782	D	7.783	7.783	0	3.714	0	0	0	0	0	0
2001	229	23	1	318.65	-445.782	D	6.675	6.675	0	1.407	0	0	0	0	0	0
2001	230	23	1	318.65	-445.782	D	7.046	7.046	0	2.151	0	0	0	0	0	0
2001	231	23	2704	329.056	-425.092	D	6.897	6.884	0.013	1.824	97.59	1.02	0	0	0	1.38
2001	232	23	2758	335.862	-424.454	D	7.192	6.996	0.196	2.05	99.26	0.25	0	0	0	0.5
2001	233	23	2781	339.842	-425.379	D	7.567	7.552	0.015	3.213	99.74	0.05	0	0	0	0.21
2001	234	23	1	318.65	-445.782	D	6.991	6.991	0	2.041	0	0	0	0	0	0
2001	235	23	1	318.65	-445.782	D	7.076	7.076	0	2.213	0	0	0	0	0	0
2001	236	23	1	318.65	-445.782	D	7.113	7.113	0	2.289	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.284	7.284	0	2.645	0	0	0	0	0	0
2001	238	23	2781	339.842	-425.379	D	7.372	7.358	0.014	2.799	99.07	0.39	0	0	0	0.54
2001	239	23	2588	318.452	-445.8	D	7.551	7.365	0.187	2.813	99.05	0.71	0	0	0	0.24
2001	240	23	2571	322.646	-445.476	D	6.947	6.92	0.027	1.895	99.68	0.09	0	0	0	0.23
2001	241	23	2781	339.842	-425.379	D	7.324	7.312	0.012	2.703	99.65	0.13	0	0	0	0.23
2001	242	23	2784	339.87	-426.019	D	8.506	8.502	0.004	5.355	99.7	0.19	0	0	0	0.07
2001	243	23	1	318.65	-445.782	D	8.684	8.684	0	5.788	0	0	0	0	0	0
2001	244	23	2758	335.862	-424.454	D	8.626	8.489	0.137	5.323	99.07	0.83	0	0	0	0.1
2001	245	23	2695	328.074	-426.025	D	9.018	8.85	0.168	6.192	99.51	0.43	0	0	0	0.06
2001	246	23	1548	330.222	-426.04	D	8.308	8.278	0.03	4.83	99.86	0.06	0	0	0	0.07
2001	247	23	1415	329.185	-425.086	D	7.155	7.144	0.01	2.354	99.71	0.05	0	0	0	0.22
2001	248	23	2704	329.056	-425.092	D	7.46	7.444	0.016	2.981	99.67	0.13	0	0	0	0.2
2001	249	23	2276	336.157	-425.28	D	7.486	7.486	0	3.07	99.7	0.05	0	0	0	0.16
2001	250	23	1	318.65	-445.782	D	8.117	8.117	0	4.462	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	9.202	9.202	0	7.068	0	0	0	0	0	0
2001	252	23	2758	335.862	-424.454	D	9.201	9.111	0.091	6.838	98.61	0.84	0	0	0	0.56
2001	253	23	2789	340.496	-426.449	D	7.047	7.004	0.043	2.066	97.68	1.28	0	0	0	1.03
2001	254	23	2589	318.383	-445.593	D	6.795	6.784	0.012	1.623	99.13	0.17	0	0	0	0.69
2001	255	23	2781	339.842	-425.379	D	6.854	6.851	0.002	1.758	99.27	0.19	0	0	0	0.52
2001	256	23	2781	339.842	-425.379	D	7.028	7.004	0.024	2.066	99.5	0.25	0	0	0	0.26

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	257	23	2762	336.074	-425.006	D	7.506	7.473	0.032	3.044	99.63	0.2	0	0	0	0.17
2001	258	23	1	318.65	-445.782	D	6.961	6.96	0.001	1.977	99.82	0.01	0	0	0	0.14
2001	259	23	1	318.65	-445.782	D	6.742	6.742	0	1.541	0	0	0	0	0	0
2001	260	23	1	318.65	-445.782	D	7.078	7.078	0	2.217	0	0	0	0	0	0
2001	261	23	1	318.65	-445.782	D	9.081	9.081	0	6.764	0	0	0	0	0	0
2001	262	23	2781	339.842	-425.379	D	8.234	8.206	0.028	4.666	97.72	2.25	0	0	0	0.04
2001	263	23	1	318.65	-445.782	D	6.893	6.893	0	1.841	0	0	0	0	0	0
2001	264	23	2707	329.748	-425.023	D	7.227	7.223	0.003	2.518	99.4	0.08	0	0	0	0.53
2001	265	23	2628	320.933	-436.998	D	7.334	7.147	0.186	2.36	98.81	0.88	0	0	0	0.31
2001	266	23	2758	335.862	-424.454	D	7.951	7.924	0.028	4.026	98.22	1.62	0	0	0	0.16
2001	267	23	1456	329.977	-431.796	D	8.939	8.669	0.269	5.754	95.5	4.44	0	0	0	0.06
2001	268	23	1	318.65	-445.782	D	6.641	6.641	0	1.341	0	0	0	0	0	0
2001	269	23	1	318.65	-445.782	D	6.543	6.543	0	1.15	0	0	0	0	0	0
2001	270	23	2781	339.842	-425.379	D	6.653	6.646	0.006	1.351	99.04	0.28	0	0	0	0.67
2001	271	23	2781	339.842	-425.379	D	6.875	6.721	0.154	1.498	99.2	0.38	0	0	0	0.42
2001	272	23	2588	318.452	-445.8	D	7.103	7.084	0.019	2.229	99.59	0.11	0	0	0	0.3
2001	273	23	1	318.65	-445.782	D	7.066	7.066	0	2.193	0	0	0	0	0	0
2001	274	23	1	318.65	-445.782	D	7.111	7.111	0	2.285	0	0	0	0	0	0
2001	275	23	1	318.65	-445.782	D	6.85	6.85	0	1.755	0	0	0	0	0	0
2001	276	23	1	318.65	-445.782	D	7.64	7.64	0	3.401	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	8.468	8.468	0	5.274	0	0	0	0	0	0
2001	278	23	2704	329.056	-425.092	D	9.705	9.642	0.063	8.208	97.08	2.87	0	0	0	0.04
2001	279	23	2448	335.908	-431.021	D	7.226	7.221	0.005	2.514	94.97	3.93	0	0	0	1.08
2001	280	23	2789	340.496	-426.449	D	6.569	6.557	0.012	1.177	96.68	2.32	0	0	0	0.99
2001	281	23	2781	339.842	-425.379	D	6.614	6.612	0.002	1.284	98.2	1.13	0	0	0	0.68
2001	282	23	1	318.65	-445.782	D	7.968	7.968	0	4.125	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	284	23	2694	327.861	-425.964	D	10.221	10.218	0.004	9.779	98.13	1.74	0	0	0	0.1
2001	285	23	2704	329.056	-425.092	D	9.845	9.667	0.178	8.276	94.71	5.21	0	0	0	0.08
2001	286	23	2695	328.074	-426.025	D	9.944	9.943	0.001	9.02	99.35	0.49	0	0	0	0.11
2001	287	23	1	318.65	-445.782	D	7.49	7.49	0	3.08	0	0	0	0	0	0
2001	288	23	2628	320.933	-436.998	D	6.931	6.928	0.003	1.912	91.07	8.84	0	0	0	0.09
2001	289	23	2704	329.056	-425.092	D	7.312	7.231	0.081	2.533	91.52	8.28	0	0	0	0.2
2001	290	23	2789	340.496	-426.449	D	6.517	6.488	0.029	1.043	89.56	8.53	0	0	0	1.91
2001	291	23	2781	339.842	-425.379	D	6.55	6.547	0.003	1.157	98.64	0.86	0	0	0	0.49
2001	292	23	1	318.65	-445.782	D	6.799	6.799	0	1.653	0	0	0	0	0	0
2001	293	23	1	318.65	-445.782	D	8.641	8.641	0	5.686	0	0	0	0	0	0
2001	294	23	1	318.65	-445.782	D	9.362	9.362	0	7.476	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	9.29	9.29	0	7.294	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	296	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	297	23	641	324.033	-438.052	D	9.664	9.618	0.046	8.147	97.45	2.02	0	0	0	0.53
2001	298	23	1	318.65	-445.782	D	6.508	6.508	0	1.081	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	300	23	1415	329.185	-425.086	D	6.48	6.472	0.008	1.012	73.03	22.36	0	0	0	4.61
2001	301	23	1	318.65	-445.782	D	6.481	6.481	0	1.03	0	0	0	0	0	0
2001	302	23	1	318.65	-445.782	D	6.511	6.511	0	1.086	0	0	0	0	0	0
2001	303	23	1	318.65	-445.782	D	6.572	6.572	0	1.207	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	6.695	6.695	0	1.447	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	9.032	9.032	0	6.64	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	9.835	9.835	0	8.726	0	0	0	0	0	0
2001	307	23	2789	340.496	-426.449	D	9.78	9.685	0.095	8.324	94.66	5.24	0	0	0	0.1
2001	308	23	2623	320.666	-438.044	D	6.967	6.95	0.017	1.957	98.58	1.27	0	0	0	0.15
2001	309	23	2781	339.842	-425.379	D	9.334	8.368	**0.965**	5.041	94.85	5.02	0	0	0	0.13
2001	310	23	199	320.795	-437.944	D	8.665	8.052	**0.613**	4.315	98.38	1.5	0	0	0	0.13
2001	311	23	2758	335.862	-424.454	D	7.336	7.173	0.163	2.413	98.81	1.01	0	0	0	0.19
2001	312	23	1513	329.974	-426.051	D	7.331	7.311	0.02	2.7	98.5	0.79	0	0	0	0.71
2001	313	23	2586	318.945	-445.762	D	6.615	6.615	0.001	1.289	98.43	0.81	0	0	0	0.62
2001	314	23	1	318.65	-445.782	D	6.786	6.786	0	1.628	0	0	0	0	0	0
2001	315	23	2781	339.842	-425.379	D	6.812	6.797	0.015	1.649	95.95	2.57	0	0	0	1.48
2001	316	23	2694	327.861	-425.964	D	6.663	6.644	0.019	1.347	97	2.04	0	0	0	0.95
2001	317	23	1	318.65	-445.782	D	6.716	6.716	0	1.489	0	0	0	0	0	0
2001	318	23	1	318.65	-445.782	D	7.492	7.492	0	3.083	0	0	0	0	0	0
2001	319	23	1	318.65	-445.782	D	8.023	8.023	0	4.249	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.729	7.729	0	3.597	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.103	7.103	0	2.268	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	8.032	8.032	0	4.27	0	0	0	0	0	0
2001	323	23	2662	325.404	-431.803	D	8.781	8.587	0.193	5.558	79.08	20.29	0	0	0	0.63
2001	324	23	2789	340.496	-426.449	D	6.52	6.474	0.045	1.017	75.56	20.43	0	0	0	4.01
2001	325	23	2789	340.496	-426.449	D	6.471	6.47	0.001	1.008	87.49	10.62	0	0	0	1.97
2001	326	23	1	318.65	-445.782	D	6.548	6.548	0	1.159	0	0	0	0	0	0
2001	327	23	1	318.65	-445.782	D	8.475	8.475	0	5.291	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	8.774	8.774	0	6.006	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	6.66	6.66	0	1.377	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.063	7.063	0	2.186	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.026	7.026	0	2.111	0	0	0	0	0	0
2001	332	23	2789	340.496	-426.449	D	9.339	9.227	0.112	7.131	70	29.68	0	0	0	0.33
2001	333	23	2790	340.421	-426.562	D	10.218	10.218	0	9.779	93.51	6.69	0	0	0	0.04
2001	334	23	2588	318.452	-445.8	D	8.734	8.541	0.193	5.448	88.45	11.39	0	0	0	0.16

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	335	23	1	318.65	-445.782	D	6.625	6.625	0	1.31	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	6.688	6.688	0	1.434	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	6.971	6.971	0	1.999	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.231	7.231	0	2.534	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	9.653	9.653	0	8.239	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	9.943	9.943	0	9.018	0	0	0	0	0	0
2001	341	23	2781	339.842	-425.379	D	8.559	8.557	0.002	5.485	89.78	9.97	0	0	0	0.2
2001	342	23	2708	329.979	-425	D	8.548	8.445	0.103	5.22	90.75	8.69	0	0	0	0.55
2001	343	23	2684	326.713	-427.014	D	6.637	6.603	0.034	1.266	70.14	26.57	0	0	0	3.3
2001	344	23	2684	326.713	-427.014	D	6.521	6.515	0.007	1.095	86.72	12.05	0	0	0	1.24
2001	345	23	2754	334.935	-424.575	D	6.573	6.572	0.002	1.206	90.55	8.4	0	0	0	0.91
2001	346	23	1	318.65	-445.782	D	9.752	9.752	0	8.503	0	0	0	0	0	0
2001	347	23	2789	340.496	-426.449	D	11.25	9.803	**1.447**	8.639	93.78	6.09	0	0	0	0.13
2001	348	23	2552	324.659	-442.591	D	11.873	9.454	**2.418**	7.716	92.97	6.96	0	0	0	0.07
2001	349	23	2789	340.496	-426.449	D	9.093	9.077	0.016	6.753	97.35	2.58	0	0	0	0.07
2001	350	23	2781	339.842	-425.379	D	10.22	10.218	0.002	9.779	96.83	3.13	0	0	0	0.03
2001	351	23	2758	335.862	-424.454	D	10.037	9.531	**0.506**	7.917	85.6	14.23	0	0	0	0.17
2001	352	23	1	318.65	-445.782	D	6.544	6.544	0	1.152	0	0	0	0	0	0
2001	353	23	2627	320.879	-437.207	D	6.867	6.821	0.046	1.697	69.38	27.85	0	0	0	2.77
2001	354	23	2789	340.496	-426.449	D	6.473	6.47	0.003	1.008	79.5	17.58	0	0	0	2.93
2001	355	23	1	318.65	-445.782	D	6.487	6.487	0	1.042	0	0	0	0	0	0
2001	356	23	1	318.65	-445.782	D	8.259	8.259	0	4.788	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	6.641	6.641	0	1.34	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	6.479	6.479	0	1.026	0	0	0	0	0	0
2001	359	23	2789	340.496	-426.449	D	6.509	6.507	0.002	1.079	63.53	32.22	0	0	0	4.21
2001	360	23	2781	339.842	-425.379	D	6.538	6.531	0.006	1.127	60.38	35.58	0	0	0	4.03
2001	361	23	1	318.65	-445.782	D	6.605	6.605	0	1.269	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2001	363	23	2704	329.056	-425.092	D	6.666	6.627	0.039	1.314	69.04	28.28	0	0	0	2.68
2001	364	23	2789	340.496	-426.449	D	6.571	6.55	0.022	1.163	67.25	29.88	0	0	0	2.86
2001	365	23	2789	340.496	-426.449	D	6.616	6.615	0.001	1.29	72.64	25.5	0	0	0	1.88
									2.418							
MARSHALL											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.785	7.785	0	3.719	0	0	0	0	0	0
2001	2	23	2789	340.496	-426.449	D	7.424	7.421	0.003	2.932	82.89	16.38	0	0	0	0.71
2001	3	23	2789	340.496	-426.449	D	7.763	7.761	0.001	3.667	85.01	14.48	0	0	0	0.3

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	4	23	1	318.65	-445.782	D	7.031	7.031	0	2.121	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	6.931	6.931	0	1.919	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	6.551	6.551	0	1.165	0	0	0	0	0	0
2001	7	23	2789	340.496	-426.449	D	7.111	7.11	0.001	2.283	87.3	12.47	0	0	0	0.27
2001	8	23	2789	340.496	-426.449	D	8.335	8.335	0	4.964	86	10.95	0	0	0	0.2
2001	9	23	2789	340.496	-426.449	D	9.502	9.48	0.021	7.784	75.1	24.65	0	0	0	0.24
2001	10	23	2781	339.842	-425.379	D	7.002	6.996	0.006	2.05	78.57	20.95	0	0	0	0.44
2001	11	23	2031	334.011	-427.372	D	9.109	9.109	0	6.833	48.95	8.21	0	0	0	0.35
2001	12	23	1	318.65	-445.782	D	9.519	9.519	0	7.886	0	0	0	0	0	0
2001	13	23	1	318.65	-445.782	D	9.698	9.698	0	8.359	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	9.396	9.396	0	7.566	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	6.74	6.74	0	1.537	0	0	0	0	0	0
2001	16	23	1	318.65	-445.782	D	6.763	6.763	0	1.581	0	0	0	0	0	0
2001	17	23	2695	328.074	-426.025	D	7.008	6.904	0.105	1.863	74.59	24.57	0	0	0	0.84
2001	18	23	2628	320.933	-436.998	D	6.974	6.935	0.038	1.927	77.39	21.52	0	0	0	1.08
2001	19	23	2468	334.002	-434.887	D	6.894	6.888	0.006	1.832	85.29	13.78	0	0	0	0.94
2001	20	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2001	21	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	22	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	6.621	6.621	0	1.303	0	0	0	0	0	0
2001	24	23	2789	340.496	-426.449	D	6.723	6.723	0	1.502	68.35	26	0	0	0	2.71
2001	25	23	1638	331.229	-431.991	D	6.602	6.585	0.017	1.231	48.57	48.51	0	0	0	2.92
2001	26	23	2683	326.705	-427.245	D	6.552	6.552	0	1.166	69.47	28.46	0	0	0	1.57
2001	27	23	1	318.65	-445.782	D	6.678	6.678	0	1.413	0	0	0	0	0	0
2001	28	23	2789	340.496	-426.449	D	6.521	6.516	0.005	1.097	70.99	27.91	0	0	0	1.08
2001	29	23	1	318.65	-445.782	D	8.908	8.908	0	6.335	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	6.819	6.819	0	1.692	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.016	7.016	0	2.09	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	6.478	6.478	0	1.025	0	0	0	0	0	0
2001	33	23	1	318.65	-445.782	D	6.561	6.561	0	1.185	0	0	0	0	0	0
2001	34	23	1	318.65	-445.782	D	6.476	6.476	0	1.019	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	6.617	6.617	0	1.293	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	6.583	6.583	0	1.226	0	0	0	0	0	0
2001	37	23	1	318.65	-445.782	D	6.528	6.528	0	1.121	0	0	0	0	0	0
2001	38	23	1	318.65	-445.782	D	8.527	8.527	0	5.415	0	0	0	0	0	0
2001	39	23	1	318.65	-445.782	D	10.07	10.07	0	9.369	0	0	0	0	0	0
2001	40	23	2704	329.056	-425.092	D	9.444	9.39	0.054	7.55	87.59	12.36	0	0	0	0.04
2001	41	23	2789	340.496	-426.449	D	6.652	6.651	0	1.361	67.54	29.97	0	0	0	2.36
2001	42	23	2781	339.842	-425.379	D	6.475	6.47	0.004	1.009	66.4	31.96	0	0	0	1.62

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	43	23	1412	329.218	-425.834	D	6.874	6.874	0	1.803	24.83	6.18	0	0	0	0.3
2001	44	23	1	318.65	-445.782	D	9.412	9.412	0	7.606	0	0	0	0	0	0
2001	45	23	2704	329.056	-425.092	D	10.231	10.218	0.013	9.779	87.17	12.72	0	0	0	0.11
2001	46	23	2784	339.87	-426.019	D	9.448	8.624	**0.825**	5.644	89.66	10.22	0	0	0	0.12
2001	47	23	2468	334.002	-434.887	D	8.48	8.241	0.238	4.747	91.7	8.25	0	0	0	0.06
2001	48	23	2789	340.496	-426.449	D	6.53	6.527	0.003	1.119	51.86	45.65	0	0	0	2.54
2001	49	23	2789	340.496	-426.449	D	6.477	6.472	0.005	1.012	76.85	21.69	0	0	0	1.45
2001	50	23	2789	340.496	-426.449	D	6.498	6.494	0.004	1.055	83.87	15.45	0	0	0	0.7
2001	51	23	1	318.65	-445.782	D	9.197	9.197	0	7.056	0	0	0	0	0	0
2001	52	23	2695	328.074	-426.025	D	8.151	8.125	0.027	4.479	84.53	15.27	0	0	0	0.2
2001	53	23	1662	330.967	-426.007	D	7.072	7.066	0.006	2.193	86.27	13.3	0	0	0	0.42
2001	54	23	2781	339.842	-425.379	D	6.789	6.785	0.003	1.626	78.11	20.82	0	0	0	1.05
2001	55	23	1	318.65	-445.782	D	9.447	9.447	0	7.697	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.222	7.222	0	2.515	0	0	0	0	0	0
2001	57	23	2789	340.496	-426.449	D	6.499	6.499	0	1.064	93.02	5.13	0	0	0	2.24
2001	58	23	2781	339.842	-425.379	D	6.523	6.517	0.006	1.099	86.51	12.42	0	0	0	1.09
2001	59	23	2662	325.404	-431.803	D	7.151	7.146	0.005	2.358	86.99	12.75	0	0	0	0.24
2001	60	23	2640	322.263	-435.121	D	6.719	6.718	0.001	1.493	89.97	9.62	0	0	0	0.47
2001	61	23	2758	335.862	-424.454	D	8.524	8.513	0.011	5.381	88.73	11.16	0	0	0	0.1
2001	62	23	1951	333.842	-434.874	D	6.743	6.742	0	1.541	94.85	4.73	0	0	0	0.33
2001	63	23	2704	329.056	-425.092	D	6.677	6.608	0.068	1.277	72.34	26.03	0	0	0	1.63
2001	64	23	1	318.65	-445.782	D	6.523	6.523	0	1.11	0	0	0	0	0	0
2001	65	23	2781	339.842	-425.379	D	6.535	6.526	0.008	1.117	71.14	25.35	0	0	0	3.49
2001	66	23	2789	340.496	-426.449	D	6.477	6.471	0.006	1.01	79.68	18.13	0	0	0	2.19
2001	67	23	1	318.65	-445.782	D	6.534	6.534	0	1.132	0	0	0	0	0	0
2001	68	23	2781	339.842	-425.379	D	6.505	6.493	0.012	1.052	56.52	39.59	0	0	0	3.87
2001	69	23	1517	329.93	-425.053	D	6.48	6.471	0.01	1.009	80.43	17.46	0	0	0	2.11
2001	70	23	2781	339.842	-425.379	D	6.502	6.502	0	1.069	92.04	5	0	0	0	1.26
2001	71	23	2411	339.428	-426.135	D	8.884	8.884	0	6.276	64.58	3.72	0	0	0	0.25
2001	72	23	1	318.65	-445.782	D	6.558	6.558	0	1.178	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	74	23	199	320.795	-437.944	D	9.731	9.731	0	8.446	88.64	10.65	0	0	0	0.21
2001	75	23	2708	329.979	-425	D	7.938	7.781	0.156	3.711	89.16	10.75	0	0	0	0.09
2001	76	23	1	318.65	-445.782	D	6.567	6.567	0	1.196	0	0	0	0	0	0
2001	77	23	2684	326.713	-427.014	D	6.53	6.505	0.025	1.076	78.67	19.84	0	0	0	1.48
2001	78	23	2589	318.383	-445.593	D	6.481	6.479	0.001	1.026	91.27	7.64	0	0	0	1.27
2001	79	23	2589	318.383	-445.593	D	6.498	6.495	0.002	1.057	88.02	10.43	0	0	0	1.49
2001	80	23	2684	326.713	-427.014	D	6.487	6.473	0.013	1.015	91.88	5.99	0	0	0	2.12
2001	81	23	2694	327.861	-425.964	D	6.496	6.49	0.006	1.046	95.14	3.33	0	0	0	1.49

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	82	23	1552	330.178	-425.042	D	6.654	6.654	0.001	1.365	94	5.47	0	0	0	0.62
2001	83	23	2693	327.829	-426.17	D	6.798	6.766	0.032	1.587	91.45	8.05	0	0	0	0.5
2001	84	23	2789	340.496	-426.449	D	6.493	6.473	0.02	1.013	60.85	36.31	0	0	0	2.84
2001	85	23	2789	340.496	-426.449	D	6.485	6.482	0.004	1.031	54.63	42.47	0	0	0	2.88
2001	86	23	2789	340.496	-426.449	D	6.472	6.468	0.004	1.004	85.14	13.5	0	0	0	1.39
2001	87	23	2781	339.842	-425.379	D	6.508	6.503	0.005	1.073	88.17	10.86	0	0	0	0.98
2001	88	23	1	318.65	-445.782	D	7.559	7.559	0	3.227	0	0	0	0	0	0
2001	89	23	1	318.65	-445.782	D	9.145	9.145	0	6.925	0	0	0	0	0	0
2001	90	23	1	318.65	-445.782	D	7.628	7.628	0	3.376	0	0	0	0	0	0
2001	91	23	1	318.65	-445.782	D	6.481	6.481	0	1.029	0	0	0	0	0	0
2001	92	23	1	318.65	-445.782	D	7.269	7.269	0	2.613	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	10.042	10.042	0	9.289	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	9.747	9.747	0	8.488	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	8.549	8.549	0	5.467	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.507	7.507	0	3.115	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.503	7.503	0	3.108	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.145	7.145	0	2.355	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.606	7.606	0	3.329	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	9.338	9.338	0	7.417	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	6.571	6.571	0	1.204	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.079	7.079	0	2.219	0	0	0	0	0	0
2001	105	23	2781	339.842	-425.379	D	8.946	8.943	0.003	6.422	96.82	2.47	0	0	0	0.67
2001	106	23	2781	339.842	-425.379	D	6.51	6.503	0.007	1.072	79.04	17.05	0	0	0	3.93
2001	107	23	2571	322.646	-445.476	D	6.481	6.48	0.001	1.027	95.45	2.72	0	0	0	1.78
2001	108	23	2789	340.496	-426.449	D	6.481	6.477	0.003	1.022	86.3	12.19	0	0	0	1.57
2001	109	23	2788	340.294	-426.448	D	6.568	6.568	0	1.198	97	0.94	0	0	0	0.59
2001	110	23	1	318.65	-445.782	D	10.01	10.01	0	9.202	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	8.281	8.281	0	4.837	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	8.135	8.135	0	4.503	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	8.008	8.008	0	4.216	0	0	0	0	0	0
2001	114	23	2788	340.294	-426.448	D	6.504	6.504	0	1.073	90.45	1.1	0	0	0	1.92
2001	115	23	2789	340.496	-426.449	D	6.477	6.477	0.001	1.021	96.53	2	0	0	0	1.58
2001	116	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	6.586	6.586	0	1.232	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	6.585	6.585	0	1.231	0	0	0	0	0	0
2001	119	23	1	318.65	-445.782	D	6.867	6.867	0	1.788	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.147	7.147	0	2.358	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	121	23	1	318.65	-445.782	D	6.839	6.839	0	1.734	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.129	7.129	0	2.323	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.25	7.25	0	2.573	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	8.868	8.868	0	6.236	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	8.924	8.924	0	6.374	0	0	0	0	0	0
2001	127	23	1	318.65	-445.782	D	8.708	8.708	0	5.848	0	0	0	0	0	0
2001	128	23	2789	340.496	-426.449	D	6.552	6.551	0.002	1.164	98.38	0.26	0	0	0	1.31
2001	129	23	2564	323.159	-444.002	D	6.895	6.883	0.012	1.822	98.99	0.56	0	0	0	0.45
2001	130	23	2789	340.496	-426.449	D	6.956	6.953	0.003	1.963	99.39	0.23	0	0	0	0.33
2001	131	23	2012	334.218	-432.109	D	7.8	7.8	0	3.753	7.27	0	0	0	0	0.03
2001	132	23	2789	340.496	-426.449	D	8.841	8.769	0.072	5.994	81.58	18.12	0	0	0	0.29
2001	133	23	2684	326.713	-427.014	D	6.567	6.559	0.007	1.181	98.89	0.39	0	0	0	0.72
2001	134	23	2789	340.496	-426.449	D	6.746	6.745	0.001	1.546	99.34	0.14	0	0	0	0.48
2001	135	23	1	318.65	-445.782	D	6.961	6.961	0	1.979	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.897	7.897	0	3.966	0	0	0	0	0	0
2001	138	23	2694	327.861	-425.964	D	7.586	7.574	0.012	3.259	95.77	4.01	0	0	0	0.22
2001	139	23	2694	327.861	-425.964	D	8.192	7.713	0.479	3.561	97	2.85	0	0	0	0.15
2001	140	23	2781	339.842	-425.379	D	7.545	7.533	0.012	3.172	98.61	0.6	0	0	0	0.78
2001	141	23	1	318.65	-445.782	D	8.961	8.961	0	6.464	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	6.534	6.534	0	1.131	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	6.54	6.54	0	1.144	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	6.507	6.507	0	1.08	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	6.566	6.566	0	1.193	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	6.546	6.546	0	1.156	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	6.809	6.809	0	1.673	0	0	0	0	0	0
2001	148	23	2781	339.842	-425.379	D	8.048	8.048	0	4.305	98.71	0.1	0	0	0	0.84
2001	149	23	2789	340.496	-426.449	D	7.008	6.968	0.039	1.993	99.02	0.61	0	0	0	0.38
2001	150	23	2758	335.862	-424.454	D	8.497	8.484	0.013	5.312	99.07	0.72	0	0	0	0.2
2001	151	23	2708	329.979	-425	D	9.01	9.006	0.004	6.576	98.51	1.22	0	0	0	0.25
2001	152	23	2781	339.842	-425.379	D	7.059	7.059	0	2.178	99.54	0.43	0	0	0	0.16
2001	153	23	1	318.65	-445.782	D	6.992	6.992	0	2.042	0	0	0	0	0	0
2001	154	23	1	318.65	-445.782	D	7.218	7.218	0	2.506	0	0	0	0	0	0
2001	155	23	1	318.65	-445.782	D	8.894	8.894	0	6.3	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	8.375	8.375	0	5.056	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.624	7.624	0	3.368	0	0	0	0	0	0
2001	158	23	2762	336.074	-425.006	D	8.165	8.143	0.022	4.522	99.61	0.05	0	0	0	0.33
2001	159	23	641	324.033	-438.052	D	7.521	7.309	0.212	2.697	99.48	0.31	0	0	0	0.21

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	160	23	2694	327.861	-425.964	D	7.528	7.431	0.097	2.954	99.24	0.52	0	0	0	0.23
2001	161	23	2709	330.21	-424.978	D	7.85	7.761	0.088	3.667	99.67	0.21	0	0	0	0.12
2001	162	23	2789	340.496	-426.449	D	7.015	7.011	0.004	2.081	99.77	0.07	0	0	0	0.15
2001	163	23	2415	339.676	-426.124	D	6.866	6.866	0	1.787	98.78	0.03	0	0	0	0.14
2001	164	23	1	318.65	-445.782	D	7.137	7.137	0	2.339	0	0	0	0	0	0
2001	165	23	1	318.65	-445.782	D	7.321	7.321	0	2.721	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	8.275	8.275	0	4.824	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	6.521	6.521	0	1.108	0	0	0	0	0	0
2001	168	23	1	318.65	-445.782	D	6.545	6.545	0	1.153	0	0	0	0	0	0
2001	169	23	2789	340.496	-426.449	D	6.651	6.651	0	1.36	99.46	0.06	0	0	0	0.57
2001	170	23	2274	336.179	-425.778	D	7	7	0	2.057	67.3	0.02	0	0	0	0.29
2001	171	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	172	23	2652	323.833	-433.511	D	7.467	7.366	0.101	2.816	99.29	0.55	0	0	0	0.16
2001	173	23	2789	340.496	-426.449	D	6.836	6.812	0.024	1.679	95.93	2.67	0	0	0	1.4
2001	174	23	2789	340.496	-426.449	D	6.612	6.611	0	1.283	98.47	0.11	0	0	0	1.26
2001	175	23	2789	340.496	-426.449	D	6.762	6.76	0.001	1.576	98.98	0.2	0	0	0	0.67
2001	176	23	2564	323.159	-444.002	D	8.456	8.451	0.004	5.235	99.68	0.14	0	0	0	0.13
2001	177	23	2694	327.861	-425.964	D	7.158	7.155	0.003	2.376	99.57	0.17	0	0	0	0.22
2001	178	23	1445	329.477	-426.072	D	6.933	6.932	0.001	1.92	99.44	0.11	0	0	0	0.26
2001	179	23	2758	335.862	-424.454	D	8.972	8.971	0.001	6.49	99.27	0.54	0	0	0	0.06
2001	180	23	1240	328.01	-426.636	D	8.697	8.697	0	5.82	99.42	0.06	0	0	0	0.07
2001	181	23	1	318.65	-445.782	D	8.968	8.968	0	6.482	0	0	0	0	0	0
2001	182	23	2704	329.056	-425.092	D	9.406	9.396	0.01	7.564	99.41	0.38	0	0	0	0.19
2001	183	23	2695	328.074	-426.025	D	7.272	7.243	0.028	2.559	98.27	1.49	0	0	0	0.25
2001	184	23	2781	339.842	-425.379	D	7.342	7.338	0.004	2.757	99.81	0.07	0	0	0	0.13
2001	185	23	2227	335.715	-426.548	D	7.114	7.114	0	2.291	95.03	0.03	0	0	0	0.21
2001	186	23	2781	339.842	-425.379	D	7.042	7.042	0	2.144	99.24	0.05	0	0	0	0.59
2001	187	23	2789	340.496	-426.449	D	7.673	7.635	0.038	3.392	99.6	0.18	0	0	0	0.22
2001	188	23	2789	340.496	-426.449	D	8.739	8.713	0.026	5.859	99.89	0.05	0	0	0	0.06
2001	189	23	1	318.65	-445.782	D	7.18	7.18	0	2.428	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.028	7.028	0	2.115	0	0	0	0	0	0
2001	191	23	2781	339.842	-425.379	D	7.241	7.241	0	2.555	98.78	0.04	0	0	0	0.71
2001	192	23	2781	339.842	-425.379	D	7.283	7.096	0.187	2.255	99.27	0.33	0	0	0	0.4
2001	193	23	2781	339.842	-425.379	D	8.109	7.982	0.127	4.158	99.51	0.32	0	0	0	0.17
2001	194	23	2789	340.496	-426.449	D	9.164	9.072	0.092	6.741	99.45	0.48	0	0	0	0.06
2001	195	23	2624	320.719	-437.835	D	6.679	6.673	0.006	1.403	99.74	0.03	0	0	0	0.22
2001	196	23	2588	318.452	-445.8	D	6.685	6.685	0	1.427	93.71	0.02	0	0	0	0.31
2001	197	23	1	318.65	-445.782	D	7.148	7.148	0	2.362	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.972	7.972	0	4.135	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	199	23	1	318.65	-445.782	D	7.881	7.881	0	3.931	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.405	7.405	0	2.898	0	0	0	0	0	0
2001	201	23	1	318.65	-445.782	D	7.353	7.353	0	2.789	0	0	0	0	0	0
2001	202	23	2789	340.496	-426.449	D	6.808	6.808	0	1.67	99.48	0.02	0	0	0	0.48
2001	203	23	2789	340.496	-426.449	D	6.906	6.904	0.002	1.864	99.28	0.38	0	0	0	0.26
2001	204	23	1	318.65	-445.782	D	7.813	7.813	0	3.782	0	0	0	0	0	0
2001	205	23	1	318.65	-445.782	D	8.301	8.301	0	4.884	0	0	0	0	0	0
2001	206	23	1	318.65	-445.782	D	8.028	8.028	0	4.26	0	0	0	0	0	0
2001	207	23	2758	335.862	-424.454	D	8.97	8.965	0.005	6.475	99.64	0.11	0	0	0	0.22
2001	208	23	2758	335.862	-424.454	D	8.939	8.898	0.041	6.309	98.99	0.95	0	0	0	0.07
2001	209	23	1513	329.974	-426.051	D	9.172	9.156	0.017	6.952	99.21	0.74	0	0	0	0.05
2001	210	23	2789	340.496	-426.449	D	8.722	8.71	0.012	5.852	99.55	0.39	0	0	0	0.08
2001	211	23	2789	340.496	-426.449	D	8.648	8.621	0.027	5.638	99.81	0.13	0	0	0	0.07
2001	212	23	2781	339.842	-425.379	D	8.523	8.49	0.033	5.325	99.88	0.05	0	0	0	0.07
2001	213	23	2789	340.496	-426.449	D	8.241	8.238	0.003	4.738	99.86	0.03	0	0	0	0.08
2001	214	23	2784	339.87	-426.019	D	7.549	7.548	0.001	3.204	99.63	0.05	0	0	0	0.1
2001	215	23	1551	330.189	-425.292	D	6.968	6.968	0	1.993	93.63	0.03	0	0	0	0.16
2001	216	23	2758	335.862	-424.454	D	7.2	7.05	0.15	2.161	99.35	0.17	0	0	0	0.48
2001	217	23	2588	318.452	-445.8	D	7.197	7.138	0.059	2.34	99.69	0.06	0	0	0	0.25
2001	218	23	16	319.027	-443.017	D	7.255	7.255	0	2.583	99.39	0.01	0	0	0	0.35
2001	219	23	1	318.65	-445.782	D	7.407	7.407	0	2.902	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.7	7.7	0	3.534	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.773	7.773	0	3.694	0	0	0	0	0	0
2001	222	23	2781	339.842	-425.379	D	7.393	7.371	0.023	2.826	99.3	0.13	0	0	0	0.57
2001	223	23	2781	339.842	-425.379	D	9.602	9.067	**0.535**	6.729	96.7	3.19	0	0	0	0.11
2001	224	23	2597	318.971	-443.851	D	7.683	7.408	0.275	2.906	99.3	0.35	0	0	0	0.35
2001	225	23	2589	318.383	-445.593	D	7.519	7.458	0.06	3.012	99.24	0.4	0	0	0	0.36
2001	226	23	1	318.65	-445.782	D	6.915	6.915	0	1.885	0	0	0	0	0	0
2001	227	23	1	318.65	-445.782	D	6.848	6.848	0	1.751	0	0	0	0	0	0
2001	228	23	1	318.65	-445.782	D	7.783	7.783	0	3.714	0	0	0	0	0	0
2001	229	23	1	318.65	-445.782	D	6.675	6.675	0	1.407	0	0	0	0	0	0
2001	230	23	1	318.65	-445.782	D	7.046	7.046	0	2.151	0	0	0	0	0	0
2001	231	23	1	318.65	-445.782	D	6.857	6.857	0	1.768	0	0	0	0	0	0
2001	232	23	2781	339.842	-425.379	D	6.968	6.964	0.004	1.985	98.75	0.63	0	0	0	0.58
2001	233	23	2789	340.496	-426.449	D	7.602	7.601	0.001	3.318	99.64	0.07	0	0	0	0.28
2001	234	23	1412	329.218	-425.834	D	6.901	6.901	0	1.857	48.11	0.01	0	0	0	0.28
2001	235	23	2412	339.417	-425.886	D	6.974	6.974	0	2.005	94.62	0.05	0	0	0	0.31
2001	236	23	1	318.65	-445.782	D	7.113	7.113	0	2.289	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.284	7.284	0	2.645	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	238	23	2781	339.842	-425.379	D	7.362	7.358	0.004	2.799	98.76	0.28	0	0	0	0.96
2001	239	23	2758	335.862	-424.454	D	7.459	7.301	0.158	2.68	98.85	0.75	0	0	0	0.39
2001	240	23	1453	330.009	-432.544	D	7.099	6.933	0.166	1.923	99.4	0.26	0	0	0	0.34
2001	241	23	2597	318.971	-443.851	D	7.777	7.646	0.131	3.415	99.41	0.42	0	0	0	0.17
2001	242	23	2789	340.496	-426.449	D	8.594	8.502	0.092	5.355	99.04	0.88	0	0	0	0.08
2001	243	23	1455	329.987	-432.045	D	8.452	8.448	0.004	5.228	99.43	0.47	0	0	0	0.09
2001	244	23	2704	329.056	-425.092	D	8.545	8.52	0.025	5.397	98.4	1.43	0	0	0	0.16
2001	245	23	2695	328.074	-426.025	D	8.883	8.85	0.033	6.192	98.86	1.05	0	0	0	0.09
2001	246	23	1548	330.222	-426.04	D	8.285	8.278	0.008	4.83	99.7	0.18	0	0	0	0.12
2001	247	23	2709	330.21	-424.978	D	7.161	7.147	0.014	2.36	99.66	0.13	0	0	0	0.21
2001	248	23	2762	336.074	-425.006	D	7.538	7.518	0.02	3.139	99.61	0.24	0	0	0	0.15
2001	249	23	2762	336.074	-425.006	D	7.489	7.486	0.004	3.07	99.71	0.12	0	0	0	0.17
2001	250	23	1	318.65	-445.782	D	8.117	8.117	0	4.462	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	9.202	9.202	0	7.068	0	0	0	0	0	0
2001	252	23	1	318.65	-445.782	D	9.34	9.34	0	7.421	0	0	0	0	0	0
2001	253	23	2789	340.496	-426.449	D	7.005	7.004	0.001	2.066	98.34	0.2	0	0	0	1.45
2001	254	23	2588	318.452	-445.8	D	6.791	6.784	0.008	1.623	98.45	0.78	0	0	0	0.76
2001	255	23	2784	339.87	-426.019	D	6.865	6.859	0.006	1.774	98.67	0.75	0	0	0	0.59
2001	256	23	2781	339.842	-425.379	D	7.029	7.004	0.025	2.066	99.25	0.4	0	0	0	0.35
2001	257	23	2784	339.87	-426.019	D	7.529	7.48	0.049	3.058	99.2	0.57	0	0	0	0.22
2001	258	23	2589	318.383	-445.593	D	6.97	6.96	0.01	1.977	99.61	0.14	0	0	0	0.25
2001	259	23	1415	329.185	-425.086	D	6.73	6.73	0	1.517	98.7	0.5	0	0	0	0.36
2001	260	23	863	325.509	-431.992	D	7.059	7.059	0	2.178	73.89	0.28	0	0	0	0.19
2001	261	23	1	318.65	-445.782	D	9.081	9.081	0	6.764	0	0	0	0	0	0
2001	262	23	2652	323.833	-433.511	D	8.861	8.584	0.277	5.55	93.17	6.74	0	0	0	0.09
2001	263	23	2418	339.946	-426.612	D	6.898	6.898	0	1.851	99.39	0.1	0	0	0	0.33
2001	264	23	1	318.65	-445.782	D	7.236	7.236	0	2.544	0	0	0	0	0	0
2001	265	23	2789	340.496	-426.449	D	7.175	7.146	0.029	2.357	95.75	2.95	0	0	0	1.3
2001	266	23	2448	335.908	-431.021	D	7.939	7.886	0.052	3.943	98.68	1.05	0	0	0	0.28
2001	267	23	2789	340.496	-426.449	D	8.834	8.718	0.116	5.871	62.97	36.67	0	0	0	0.37
2001	268	23	2600	318.952	-443.12	D	6.651	6.651	0	1.36	95.77	2.83	0	0	0	1.39
2001	269	23	2704	329.056	-425.092	D	6.553	6.542	0.012	1.147	93.05	5.8	0	0	0	1.15
2001	270	23	2781	339.842	-425.379	D	6.706	6.646	0.059	1.351	97.87	1.41	0	0	0	0.71
2001	271	23	2783	339.861	-425.806	D	6.837	6.721	0.117	1.498	98.58	0.81	0	0	0	0.61
2001	272	23	2588	318.452	-445.8	D	7.111	7.084	0.027	2.229	99.19	0.41	0	0	0	0.39
2001	273	23	1	318.65	-445.782	D	7.066	7.066	0	2.193	0	0	0	0	0	0
2001	274	23	2758	335.862	-424.454	D	7.201	7.201	0	2.471	98.81	0.8	0	0	0	0.62
2001	275	23	2788	340.294	-426.448	D	6.809	6.809	0	1.673	97.64	0.78	0	0	0	0.31
2001	276	23	1	318.65	-445.782	D	7.64	7.64	0	3.401	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	277	23	1	318.65	-445.782	D	8.468	8.468	0	5.274	0	0	0	0	0	0
2001	278	23	2684	326.713	-427.014	D	9.878	9.657	0.221	8.248	88.09	11.83	0	0	0	0.09
2001	279	23	2704	329.056	-425.092	D	7.408	7.295	0.113	2.668	87.25	12.56	0	0	0	0.19
2001	280	23	2789	340.496	-426.449	D	6.56	6.557	0.003	1.177	96.38	2.2	0	0	0	1.4
2001	281	23	2789	340.496	-426.449	D	6.618	6.613	0.004	1.286	95.76	3.37	0	0	0	0.87
2001	282	23	1	318.65	-445.782	D	7.968	7.968	0	4.125	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	284	23	2704	329.056	-425.092	D	10.22	10.218	0.002	9.779	90.86	9.01	0	0	0	0.15
2001	285	23	2758	335.862	-424.454	D	9.804	9.66	0.143	8.257	86.51	13.37	0	0	0	0.12
2001	286	23	1548	330.222	-426.04	D	9.977	9.956	0.02	9.054	97.53	2.38	0	0	0	0.08
2001	287	23	2758	335.862	-424.454	D	7.54	7.51	0.031	3.122	94.26	5.67	0	0	0	0.08
2001	288	23	1	318.65	-445.782	D	6.929	6.929	0	1.915	0	0	0	0	0	0
2001	289	23	2758	335.862	-424.454	D	7.266	7.196	0.07	2.461	85.91	13.95	0	0	0	0.14
2001	290	23	2789	340.496	-426.449	D	6.489	6.488	0	1.043	96.57	2.31	0	0	0	1.38
2001	291	23	2789	340.496	-426.449	D	6.55	6.548	0.001	1.16	95.68	3.74	0	0	0	0.6
2001	292	23	1	318.65	-445.782	D	6.799	6.799	0	1.653	0	0	0	0	0	0
2001	293	23	1	318.65	-445.782	D	8.641	8.641	0	5.686	0	0	0	0	0	0
2001	294	23	1	318.65	-445.782	D	9.362	9.362	0	7.476	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	9.29	9.29	0	7.294	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	297	23	1	318.65	-445.782	D	9.624	9.624	0	8.162	0	0	0	0	0	0
2001	298	23	1	318.65	-445.782	D	6.508	6.508	0	1.081	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	300	23	2782	339.852	-425.592	D	6.483	6.472	0.011	1.012	79.21	17.61	0	0	0	3.19
2001	301	23	2781	339.842	-425.379	D	6.498	6.476	0.021	1.02	84.87	13.37	0	0	0	1.76
2001	302	23	1	318.65	-445.782	D	6.511	6.511	0	1.086	0	0	0	0	0	0
2001	303	23	1	318.65	-445.782	D	6.572	6.572	0	1.207	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	6.695	6.695	0	1.447	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	9.032	9.032	0	6.64	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	9.835	9.835	0	8.726	0	0	0	0	0	0
2001	307	23	2781	339.842	-425.379	D	9.728	9.675	0.053	8.296	85.51	14.38	0	0	0	0.11
2001	308	23	2758	335.862	-424.454	D	6.918	6.913	0.006	1.881	97.03	2.44	0	0	0	0.53
2001	309	23	2781	339.842	-425.379	D	8.692	8.368	0.324	5.041	94.2	5.58	0	0	0	0.21
2001	310	23	1456	329.977	-431.796	D	8.416	8.036	0.381	4.277	96.89	2.96	0	0	0	0.15
2001	311	23	2758	335.862	-424.454	D	7.236	7.173	0.063	2.413	98.48	1.27	0	0	0	0.25
2001	312	23	2789	340.496	-426.449	D	7.271	7.268	0.003	2.612	98.68	0.94	0	0	0	0.4
2001	313	23	2589	318.383	-445.593	D	6.642	6.615	0.027	1.289	79.84	18.32	0	0	0	1.85
2001	314	23	2789	340.496	-426.449	D	6.752	6.746	0.005	1.549	93.97	4.49	0	0	0	1.56
2001	315	23	2781	339.842	-425.379	D	6.804	6.797	0.008	1.649	92.48	5.22	0	0	0	2.29

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	316	23	2694	327.861	-425.964	D	6.655	6.644	0.011	1.347	93.72	4.88	0	0	0	1.38
2001	317	23	1414	329.196	-425.335	D	6.69	6.69	0	1.437	92.31	0.96	0	0	0	0.94
2001	318	23	1	318.65	-445.782	D	7.492	7.492	0	3.083	0	0	0	0	0	0
2001	319	23	1	318.65	-445.782	D	8.023	8.023	0	4.249	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.729	7.729	0	3.597	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.103	7.103	0	2.268	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	8.032	8.032	0	4.27	0	0	0	0	0	0
2001	323	23	1	318.65	-445.782	D	8.728	8.728	0	5.896	0	0	0	0	0	0
2001	324	23	1	318.65	-445.782	D	6.474	6.474	0	1.016	0	0	0	0	0	0
2001	325	23	2414	339.687	-426.374	D	6.47	6.47	0	1.008	112.24	5.93	0	0	0	2.66
2001	326	23	2274	336.179	-425.778	D	6.53	6.53	0	1.125	123.51	6.83	0	0	0	2.64
2001	327	23	1	318.65	-445.782	D	8.475	8.475	0	5.291	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	8.774	8.774	0	6.006	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	6.66	6.66	0	1.377	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.063	7.063	0	2.186	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.026	7.026	0	2.111	0	0	0	0	0	0
2001	332	23	2717	331.196	-426.028	D	9.47	9.234	0.236	7.15	67.48	32.29	0	0	0	0.23
2001	333	23	2589	318.383	-445.593	D	10.269	10.218	0.051	9.779	76.32	23.51	0	0	0	0.17
2001	334	23	2628	320.933	-436.998	D	9.318	8.583	**0.735**	5.546	82.17	17.69	0	0	0	0.14
2001	335	23	1	318.65	-445.782	D	6.625	6.625	0	1.31	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	6.688	6.688	0	1.434	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	6.971	6.971	0	1.999	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.231	7.231	0	2.534	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	9.653	9.653	0	8.239	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	9.943	9.943	0	9.018	0	0	0	0	0	0
2001	341	23	1	318.65	-445.782	D	7.912	7.912	0	4	0	0	0	0	0	0
2001	342	23	2704	329.056	-425.092	D	8.527	8.445	0.082	5.22	80.35	19.16	0	0	0	0.48
2001	343	23	2789	340.496	-426.449	D	6.596	6.595	0.002	1.25	66.52	29.87	0	0	0	3.62
2001	344	23	2789	340.496	-426.449	D	6.522	6.513	0.008	1.092	70.83	27.26	0	0	0	1.89
2001	345	23	2789	340.496	-426.449	D	6.576	6.574	0.002	1.209	80.59	18.18	0	0	0	1.16
2001	346	23	1	318.65	-445.782	D	9.752	9.752	0	8.503	0	0	0	0	0	0
2001	347	23	2789	340.496	-426.449	D	9.821	9.803	0.017	8.639	92.74	7.09	0	0	0	0.18
2001	348	23	2789	340.496	-426.449	D	9.496	9.231	0.265	7.142	90.5	9.43	0	0	0	0.06
2001	349	23	2789	340.496	-426.449	D	9.08	9.077	0.004	6.753	95.89	3.92	0	0	0	0.15
2001	350	23	2789	340.496	-426.449	D	10.233	10.218	0.015	9.779	93.85	6.07	0	0	0	0.04
2001	351	23	2789	340.496	-426.449	D	9.573	9.458	0.115	7.727	76.61	23.2	0	0	0	0.19
2001	352	23	2384	338.176	-425.941	D	6.542	6.542	0	1.147	88.86	3.57	0	0	0	0.13
2001	353	23	1	318.65	-445.782	D	6.815	6.815	0	1.686	0	0	0	0	0	0
2001	354	23	1	318.65	-445.782	D	6.471	6.471	0	1.009	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	355	23	1	318.65	-445.782	D	6.487	6.487	0	1.042	0	0	0	0	0	0
2001	356	23	1	318.65	-445.782	D	8.259	8.259	0	4.788	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	6.641	6.641	0	1.34	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	6.479	6.479	0	1.026	0	0	0	0	0	0
2001	359	23	1	318.65	-445.782	D	6.512	6.512	0	1.089	0	0	0	0	0	0
2001	360	23	1	318.65	-445.782	D	6.537	6.537	0	1.138	0	0	0	0	0	0
2001	361	23	1	318.65	-445.782	D	6.605	6.605	0	1.269	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2001	363	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2001	364	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2001	365	23	1	318.65	-445.782	D	6.619	6.619	0	1.298	0	0	0	0	0	0
									0.825							
COLUMBIA											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.785	7.785	0	3.719	0	0	0	0	0	0
2001	2	23	2789	340.496	-426.449	D	7.421	7.421	0	2.932	71.85	28.07	0	0	0	0.02
2001	3	23	1	318.65	-445.782	D	8.207	8.207	0	4.667	0	0	0	0	0	0
2001	4	23	1	318.65	-445.782	D	7.031	7.031	0	2.121	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	6.931	6.931	0	1.919	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	6.551	6.551	0	1.165	0	0	0	0	0	0
2001	7	23	1	318.65	-445.782	D	7.026	7.026	0	2.11	0	0	0	0	0	0
2001	8	23	1	318.65	-445.782	D	8.597	8.597	0	5.581	0	0	0	0	0	0
2001	9	23	2789	340.496	-426.449	D	9.482	9.48	0.002	7.784	54.85	45.08	0	0	0	0.01
2001	10	23	2781	339.842	-425.379	D	6.999	6.996	0.003	2.05	54.11	45.85	0	0	0	0.02
2001	11	23	2097	334.452	-426.104	D	9.109	9.109	0	6.833	53.62	31.59	0	0	0	0.02
2001	12	23	1	318.65	-445.782	D	9.519	9.519	0	7.886	0	0	0	0	0	0
2001	13	23	1	318.65	-445.782	D	9.698	9.698	0	8.359	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	9.396	9.396	0	7.566	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	6.74	6.74	0	1.537	0	0	0	0	0	0
2001	16	23	1	318.65	-445.782	D	6.763	6.763	0	1.581	0	0	0	0	0	0
2001	17	23	2255	335.942	-426.039	D	6.957	6.892	0.065	1.839	63.08	36.89	0	0	0	0.03
2001	18	23	2628	320.933	-436.998	D	7.007	6.935	0.072	1.927	62.59	37.39	0	0	0	0.03
2001	19	23	2789	340.496	-426.449	D	6.863	6.861	0.002	1.778	76.39	23.56	0	0	0	0.03
2001	20	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2001	21	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	22	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	6.621	6.621	0	1.303	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	24	23	1	318.65	-445.782	D	6.746	6.746	0	1.549	0	0	0	0	0	0
2001	25	23	2789	340.496	-426.449	D	6.589	6.584	0.005	1.23	39.47	60.49	0	0	0	0.08
2001	26	23	1415	329.185	-425.086	D	6.555	6.554	0.001	1.171	51.37	48.51	0	0	0	0.04
2001	27	23	1	318.65	-445.782	D	6.678	6.678	0	1.413	0	0	0	0	0	0
2001	28	23	2789	340.496	-426.449	D	6.517	6.516	0.001	1.097	58.91	41.04	0	0	0	0.03
2001	29	23	1	318.65	-445.782	D	8.908	8.908	0	6.335	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	6.819	6.819	0	1.692	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.016	7.016	0	2.09	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	6.478	6.478	0	1.025	0	0	0	0	0	0
2001	33	23	1	318.65	-445.782	D	6.561	6.561	0	1.185	0	0	0	0	0	0
2001	34	23	1	318.65	-445.782	D	6.476	6.476	0	1.019	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	6.617	6.617	0	1.293	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	6.583	6.583	0	1.226	0	0	0	0	0	0
2001	37	23	1	318.65	-445.782	D	6.528	6.528	0	1.121	0	0	0	0	0	0
2001	38	23	1	318.65	-445.782	D	8.527	8.527	0	5.415	0	0	0	0	0	0
2001	39	23	1	318.65	-445.782	D	10.07	10.07	0	9.369	0	0	0	0	0	0
2001	40	23	2757	335.63	-424.484	D	9.356	9.356	0	7.463	71.49	27.22	0	0	0	0
2001	41	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0
2001	42	23	2781	339.842	-425.379	D	6.473	6.47	0.003	1.009	54.72	45.24	0	0	0	0.04
2001	43	23	1546	330.244	-426.538	D	6.837	6.837	0	1.729	62.2	32.35	0	0	0	0.02
2001	44	23	1	318.65	-445.782	D	9.412	9.412	0	7.606	0	0	0	0	0	0
2001	45	23	2704	329.056	-425.092	D	10.22	10.218	0.002	9.779	84.1	15.92	0	0	0	0
2001	46	23	2789	340.496	-426.449	D	8.801	8.624	0.178	5.644	83	17	0	0	0	0
2001	47	23	2789	340.496	-426.449	D	8.071	8.052	0.019	4.315	83.93	16.07	0	0	0	0
2001	48	23	1	318.65	-445.782	D	6.531	6.531	0	1.127	0	0	0	0	0	0
2001	49	23	2789	340.496	-426.449	D	6.472	6.472	0	1.012	75.97	23.95	0	0	0	0.06
2001	50	23	2789	340.496	-426.449	D	6.494	6.494	0	1.055	78.02	22.33	0	0	0	0.04
2001	51	23	1	318.65	-445.782	D	9.197	9.197	0	7.056	0	0	0	0	0	0
2001	52	23	2695	328.074	-426.025	D	8.127	8.125	0.002	4.479	72.19	27.76	0	0	0	0.01
2001	53	23	2525	325.876	-438.073	D	7.108	7.106	0.002	2.275	71.62	28.2	0	0	0	0.01
2001	54	23	2781	339.842	-425.379	D	6.787	6.785	0.001	1.626	60.16	39.74	0	0	0	0.03
2001	55	23	1	318.65	-445.782	D	9.447	9.447	0	7.697	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.222	7.222	0	2.515	0	0	0	0	0	0
2001	57	23	2787	340.091	-426.447	D	6.499	6.499	0	1.064	90.91	10.36	0	0	0	0.1
2001	58	23	2781	339.842	-425.379	D	6.52	6.517	0.002	1.099	76.33	23.66	0	0	0	0.04
2001	59	23	2694	327.861	-425.964	D	7.144	7.142	0.002	2.348	74.57	25.37	0	0	0	0.01
2001	60	23	1	318.65	-445.782	D	6.708	6.708	0	1.473	0	0	0	0	0	0
2001	61	23	1	318.65	-445.782	D	8.524	8.524	0	5.407	0	0	0	0	0	0
2001	62	23	1	318.65	-445.782	D	6.735	6.735	0	1.527	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	63	23	2624	320.719	-437.835	D	6.679	6.618	0.062	1.295	65.54	34.42	0	0	0	0.03
2001	64	23	1	318.65	-445.782	D	6.523	6.523	0	1.11	0	0	0	0	0	0
2001	65	23	1	318.65	-445.782	D	6.525	6.525	0	1.114	0	0	0	0	0	0
2001	66	23	1	318.65	-445.782	D	6.471	6.471	0	1.011	0	0	0	0	0	0
2001	67	23	1	318.65	-445.782	D	6.534	6.534	0	1.132	0	0	0	0	0	0
2001	68	23	2789	340.496	-426.449	D	6.493	6.493	0.001	1.052	61.95	37.84	0	0	0	0.1
2001	69	23	2789	340.496	-426.449	D	6.472	6.471	0.001	1.009	77.33	22.61	0	0	0	0.06
2001	70	23	2781	339.842	-425.379	D	6.502	6.502	0	1.069	87.93	12.11	0	0	0	0.04
2001	71	23	1	318.65	-445.782	D	9.154	9.154	0	6.946	0	0	0	0	0	0
2001	72	23	1	318.65	-445.782	D	6.558	6.558	0	1.178	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	74	23	1	318.65	-445.782	D	9.736	9.736	0	8.459	0	0	0	0	0	0
2001	75	23	2758	335.862	-424.454	D	7.602	7.591	0.011	3.297	81	19	0	0	0	0
2001	76	23	1	318.65	-445.782	D	6.567	6.567	0	1.196	0	0	0	0	0	0
2001	77	23	2762	336.074	-425.006	D	6.517	6.506	0.011	1.078	67.94	32	0	0	0	0.05
2001	78	23	2589	318.383	-445.593	D	6.48	6.479	0.001	1.026	83.39	16.53	0	0	0	0.05
2001	79	23	2589	318.383	-445.593	D	6.499	6.495	0.004	1.057	77.94	22.01	0	0	0	0.07
2001	80	23	2583	319.686	-445.705	D	6.493	6.473	0.02	1.013	75.73	24.2	0	0	0	0.07
2001	81	23	2789	340.496	-426.449	D	6.494	6.487	0.007	1.042	91.7	8.24	0	0	0	0.06
2001	82	23	2781	339.842	-425.379	D	6.67	6.665	0.005	1.388	90.11	9.88	0	0	0	0.03
2001	83	23	2694	327.861	-425.964	D	6.797	6.761	0.036	1.578	61.89	38.08	0	0	0	0.03
2001	84	23	1	318.65	-445.782	D	6.471	6.471	0	1.01	0	0	0	0	0	0
2001	85	23	1	318.65	-445.782	D	6.478	6.478	0	1.024	0	0	0	0	0	0
2001	86	23	2400	338.672	-425.919	D	6.468	6.468	0	1.004	76.96	5.69	0	0	0	0.04
2001	87	23	2789	340.496	-426.449	D	6.509	6.508	0.002	1.081	80.48	19.45	0	0	0	0.03
2001	88	23	1	318.65	-445.782	D	7.559	7.559	0	3.227	0	0	0	0	0	0
2001	89	23	1	318.65	-445.782	D	9.145	9.145	0	6.925	0	0	0	0	0	0
2001	90	23	1	318.65	-445.782	D	7.628	7.628	0	3.376	0	0	0	0	0	0
2001	91	23	1	318.65	-445.782	D	6.481	6.481	0	1.029	0	0	0	0	0	0
2001	92	23	1	318.65	-445.782	D	7.269	7.269	0	2.613	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	10.042	10.042	0	9.289	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	9.747	9.747	0	8.488	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	8.549	8.549	0	5.467	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.507	7.507	0	3.115	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.503	7.503	0	3.108	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.145	7.145	0	2.355	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.606	7.606	0	3.329	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	9.338	9.338	0	7.417	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	102	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	6.571	6.571	0	1.204	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.079	7.079	0	2.219	0	0	0	0	0	0
2001	105	23	2781	339.842	-425.379	D	8.943	8.943	0	6.422	91.7	2.39	0	0	0	0.03
2001	106	23	2788	340.294	-426.448	D	6.503	6.503	0	1.073	82.09	13.83	0	0	0	0.15
2001	107	23	1	318.65	-445.782	D	6.48	6.48	0	1.027	0	0	0	0	0	0
2001	108	23	1	318.65	-445.782	D	6.476	6.476	0	1.019	0	0	0	0	0	0
2001	109	23	1	318.65	-445.782	D	6.594	6.594	0	1.249	0	0	0	0	0	0
2001	110	23	1	318.65	-445.782	D	10.01	10.01	0	9.202	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	8.281	8.281	0	4.837	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	8.135	8.135	0	4.503	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	8.008	8.008	0	4.216	0	0	0	0	0	0
2001	114	23	1	318.65	-445.782	D	6.5	6.5	0	1.067	0	0	0	0	0	0
2001	115	23	1	318.65	-445.782	D	6.478	6.478	0	1.024	0	0	0	0	0	0
2001	116	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	6.586	6.586	0	1.232	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	6.585	6.585	0	1.231	0	0	0	0	0	0
2001	119	23	1	318.65	-445.782	D	6.867	6.867	0	1.788	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.147	7.147	0	2.358	0	0	0	0	0	0
2001	121	23	1	318.65	-445.782	D	6.839	6.839	0	1.734	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.129	7.129	0	2.323	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.25	7.25	0	2.573	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	8.868	8.868	0	6.236	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	8.924	8.924	0	6.374	0	0	0	0	0	0
2001	127	23	1	318.65	-445.782	D	8.708	8.708	0	5.848	0	0	0	0	0	0
2001	128	23	1	318.65	-445.782	D	6.575	6.575	0	1.212	0	0	0	0	0	0
2001	129	23	2789	340.496	-426.449	D	6.686	6.685	0	1.428	98.66	1.31	0	0	0	0.03
2001	130	23	2789	340.496	-426.449	D	6.953	6.953	0	1.963	98.45	0.39	0	0	0	0.01
2001	131	23	1	318.65	-445.782	D	8.246	8.246	0	4.756	0	0	0	0	0	0
2001	132	23	2784	339.87	-426.019	D	8.778	8.769	0.009	5.994	90.66	9.28	0	0	0	0.05
2001	133	23	2628	320.933	-436.998	D	6.568	6.559	0.009	1.181	98.62	1.33	0	0	0	0.05
2001	134	23	2789	340.496	-426.449	D	6.745	6.745	0	1.546	99.43	0.29	0	0	0	0.03
2001	135	23	1	318.65	-445.782	D	6.961	6.961	0	1.979	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.897	7.897	0	3.966	0	0	0	0	0	0
2001	138	23	2704	329.056	-425.092	D	7.575	7.574	0.001	3.259	87.31	12.74	0	0	0	0.01
2001	139	23	2781	339.842	-425.379	D	7.475	7.46	0.014	3.017	92.98	7	0	0	0	0.01
2001	140	23	2781	339.842	-425.379	D	7.534	7.533	0.001	3.172	99.28	0.66	0	0	0	0.03

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	141	23	1	318.65	-445.782	D	8.961	8.961	0	6.464	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	6.534	6.534	0	1.131	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	6.54	6.54	0	1.144	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	6.507	6.507	0	1.08	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	6.566	6.566	0	1.193	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	6.546	6.546	0	1.156	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	6.809	6.809	0	1.673	0	0	0	0	0	0
2001	148	23	1	318.65	-445.782	D	8.364	8.364	0	5.03	0	0	0	0	0	0
2001	149	23	2789	340.496	-426.449	D	6.978	6.968	0.009	1.993	98.62	1.37	0	0	0	0.02
2001	150	23	2789	340.496	-426.449	D	8.46	8.459	0.001	5.254	99.53	0.49	0	0	0	0.01
2001	151	23	1	318.65	-445.782	D	9.068	9.068	0	6.73	0	0	0	0	0	0
2001	152	23	1	318.65	-445.782	D	7.103	7.103	0	2.268	0	0	0	0	0	0
2001	153	23	1	318.65	-445.782	D	6.992	6.992	0	2.042	0	0	0	0	0	0
2001	154	23	1	318.65	-445.782	D	7.218	7.218	0	2.506	0	0	0	0	0	0
2001	155	23	1	318.65	-445.782	D	8.894	8.894	0	6.3	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	8.375	8.375	0	5.056	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.624	7.624	0	3.368	0	0	0	0	0	0
2001	158	23	2781	339.842	-425.379	D	8.15	8.143	0.007	4.522	99.84	0.13	0	0	0	0.02
2001	159	23	2684	326.713	-427.014	D	7.394	7.283	0.111	2.642	98.17	1.81	0	0	0	0.01
2001	160	23	2704	329.056	-425.092	D	7.47	7.431	0.039	2.954	99.02	0.97	0	0	0	0.01
2001	161	23	2711	330.671	-424.932	D	7.786	7.761	0.025	3.667	99.6	0.4	0	0	0	0
2001	162	23	2411	339.428	-426.135	D	7.011	7.011	0	2.081	96.42	0.06	0	0	0	0.01
2001	163	23	1	318.65	-445.782	D	6.931	6.931	0	1.917	0	0	0	0	0	0
2001	164	23	1	318.65	-445.782	D	7.137	7.137	0	2.339	0	0	0	0	0	0
2001	165	23	1	318.65	-445.782	D	7.321	7.321	0	2.721	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	8.275	8.275	0	4.824	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	6.521	6.521	0	1.108	0	0	0	0	0	0
2001	168	23	1	318.65	-445.782	D	6.545	6.545	0	1.153	0	0	0	0	0	0
2001	169	23	2789	340.496	-426.449	D	6.651	6.651	0	1.36	99.96	0.13	0	0	0	0.03
2001	170	23	1	318.65	-445.782	D	7.178	7.178	0	2.423	0	0	0	0	0	0
2001	171	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	172	23	1513	329.974	-426.051	D	7.327	7.314	0.014	2.706	99.12	0.86	0	0	0	0.01
2001	173	23	2789	340.496	-426.449	D	6.812	6.812	0.001	1.679	99.17	0.72	0	0	0	0.01
2001	174	23	2789	340.496	-426.449	D	6.611	6.611	0	1.283	97.56	0.17	0	0	0	0.04
2001	175	23	2789	340.496	-426.449	D	6.762	6.76	0.001	1.576	99.49	0.37	0	0	0	0.03
2001	176	23	1513	329.974	-426.051	D	8.103	8.093	0.01	4.407	99.62	0.37	0	0	0	0.01
2001	177	23	2708	329.979	-425	D	7.163	7.155	0.008	2.376	99.68	0.32	0	0	0	0.01
2001	178	23	2758	335.862	-424.454	D	6.934	6.931	0.003	1.918	99.62	0.32	0	0	0	0.01
2001	179	23	2758	335.862	-424.454	D	8.974	8.971	0.003	6.49	99.06	0.91	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	180	23	621	323.621	-434.323	D	8.754	8.754	0	5.957	99.42	0.08	0	0	0	0
2001	181	23	1	318.65	-445.782	D	8.968	8.968	0	6.482	0	0	0	0	0	0
2001	182	23	2704	329.056	-425.092	D	9.413	9.396	0.017	7.564	97.93	2.04	0	0	0	0.01
2001	183	23	1513	329.974	-426.051	D	7.293	7.243	0.05	2.559	96.81	3.18	0	0	0	0.01
2001	184	23	2781	339.842	-425.379	D	7.342	7.338	0.004	2.757	99.77	0.18	0	0	0	0.01
2001	185	23	2405	338.909	-425.659	D	7.064	7.064	0	2.189	96	0.06	0	0	0	0.01
2001	186	23	1	318.65	-445.782	D	6.973	6.973	0	2.003	0	0	0	0	0	0
2001	187	23	2789	340.496	-426.449	D	7.643	7.635	0.008	3.392	99.69	0.3	0	0	0	0.01
2001	188	23	2789	340.496	-426.449	D	8.716	8.713	0.003	5.859	99.88	0.1	0	0	0	0
2001	189	23	1	318.65	-445.782	D	7.18	7.18	0	2.428	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.028	7.028	0	2.115	0	0	0	0	0	0
2001	191	23	1	318.65	-445.782	D	7.041	7.041	0	2.142	0	0	0	0	0	0
2001	192	23	2789	340.496	-426.449	D	7.086	7.063	0.023	2.187	99.35	0.63	0	0	0	0.02
2001	193	23	2783	339.861	-425.806	D	8.093	7.982	0.11	4.158	99.33	0.66	0	0	0	0.01
2001	194	23	2789	340.496	-426.449	D	9.194	9.072	0.122	6.741	98.1	1.9	0	0	0	0
2001	195	23	863	325.509	-431.992	D	6.685	6.684	0.001	1.426	99.98	0.06	0	0	0	0.01
2001	196	23	1	318.65	-445.782	D	6.685	6.685	0	1.427	0	0	0	0	0	0
2001	197	23	1	318.65	-445.782	D	7.148	7.148	0	2.362	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.972	7.972	0	4.135	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.881	7.881	0	3.931	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.405	7.405	0	2.898	0	0	0	0	0	0
2001	201	23	2240	336.106	-429.778	D	7.24	7.24	0	2.553	32.45	0.02	0	0	0	0
2001	202	23	2789	340.496	-426.449	D	6.81	6.808	0.002	1.67	99.18	0.76	0	0	0	0.01
2001	203	23	2789	340.496	-426.449	D	6.912	6.904	0.008	1.864	99.7	0.28	0	0	0	0.01
2001	204	23	2789	340.496	-426.449	D	7.491	7.485	0.006	3.069	99.59	0.39	0	0	0	0
2001	205	23	659	323.836	-433.564	D	8.173	8.171	0.002	4.585	99.81	0.13	0	0	0	0
2001	206	23	416	322.805	-444.101	D	8.028	8.028	0	4.26	99.66	0.15	0	0	0	0
2001	207	23	2784	339.87	-426.019	D	8.928	8.928	0	6.383	98.21	0.24	0	0	0	0.01
2001	208	23	2789	340.496	-426.449	D	8.997	8.905	0.093	6.326	97.02	2.98	0	0	0	0
2001	209	23	2789	340.496	-426.449	D	8.962	8.904	0.059	6.324	97.42	2.58	0	0	0	0
2001	210	23	2789	340.496	-426.449	D	8.711	8.71	0.001	5.852	99.54	0.9	0	0	0	0
2001	211	23	2456	334.644	-432.056	D	8.875	8.873	0.002	6.248	99.68	0.33	0	0	0	0
2001	212	23	2789	340.496	-426.449	D	8.508	8.496	0.013	5.339	99.87	0.11	0	0	0	0
2001	213	23	2784	339.87	-426.019	D	8.241	8.238	0.003	4.738	99.85	0.14	0	0	0	0
2001	214	23	2415	339.676	-426.124	D	7.548	7.548	0	3.204	91.47	0.06	0	0	0	0.01
2001	215	23	1	318.65	-445.782	D	7.135	7.135	0	2.335	0	0	0	0	0	0
2001	216	23	2789	340.496	-426.449	D	7.058	7.049	0.009	2.158	99.62	0.33	0	0	0	0.03
2001	217	23	2600	318.952	-443.12	D	7.148	7.141	0.006	2.348	99.84	0.16	0	0	0	0.01
2001	218	23	1	318.65	-445.782	D	7.208	7.208	0	2.485	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	219	23	1	318.65	-445.782	D	7.407	7.407	0	2.902	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.7	7.7	0	3.534	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.773	7.773	0	3.694	0	0	0	0	0	0
2001	222	23	1	318.65	-445.782	D	7.664	7.664	0	3.455	0	0	0	0	0	0
2001	223	23	2781	339.842	-425.379	D	9.223	9.067	0.156	6.729	97.97	2.02	0	0	0	0.01
2001	224	23	2255	335.942	-426.039	D	7.579	7.408	0.171	2.906	99.13	0.86	0	0	0	0.01
2001	225	23	2589	318.383	-445.593	D	7.527	7.458	0.069	3.012	99.54	0.44	0	0	0	0.01
2001	226	23	2555	324.03	-442.528	D	7.011	6.933	0.078	1.922	98.02	1.95	0	0	0	0.02
2001	227	23	2589	318.383	-445.593	D	6.855	6.848	0.008	1.751	99.19	0.79	0	0	0	0.02
2001	228	23	1	318.65	-445.782	D	7.783	7.783	0	3.714	0	0	0	0	0	0
2001	229	23	1	318.65	-445.782	D	6.675	6.675	0	1.407	0	0	0	0	0	0
2001	230	23	1	318.65	-445.782	D	7.046	7.046	0	2.151	0	0	0	0	0	0
2001	231	23	1	318.65	-445.782	D	6.857	6.857	0	1.768	0	0	0	0	0	0
2001	232	23	2788	340.294	-426.448	D	6.97	6.97	0	1.997	100.44	0.09	0	0	0	0.02
2001	233	23	2789	340.496	-426.449	D	7.601	7.601	0	3.318	99.87	0.1	0	0	0	0.01
2001	234	23	1	318.65	-445.782	D	6.991	6.991	0	2.041	0	0	0	0	0	0
2001	235	23	1	318.65	-445.782	D	7.076	7.076	0	2.213	0	0	0	0	0	0
2001	236	23	1	318.65	-445.782	D	7.113	7.113	0	2.289	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.284	7.284	0	2.645	0	0	0	0	0	0
2001	238	23	1	318.65	-445.782	D	7.199	7.199	0	2.467	0	0	0	0	0	0
2001	239	23	2781	339.842	-425.379	D	7.29	7.272	0.018	2.619	98.91	1.07	0	0	0	0.02
2001	240	23	2781	339.842	-425.379	D	7.008	6.944	0.064	1.945	99.49	0.49	0	0	0	0.01
2001	241	23	606	323.785	-438.063	D	7.726	7.646	0.08	3.415	99.29	0.7	0	0	0	0.01
2001	242	23	2273	336.19	-426.028	D	8.557	8.502	0.055	5.355	99.06	0.94	0	0	0	0
2001	243	23	1455	329.987	-432.045	D	8.45	8.448	0.002	5.228	99.08	0.94	0	0	0	0
2001	244	23	2758	335.862	-424.454	D	8.513	8.489	0.025	5.323	97.97	2.02	0	0	0	0.01
2001	245	23	2695	328.074	-426.025	D	8.893	8.85	0.043	6.192	97.49	2.51	0	0	0	0
2001	246	23	1548	330.222	-426.04	D	8.279	8.278	0.002	4.83	99.53	0.3	0	0	0	0
2001	247	23	2155	334.883	-424.586	D	7.148	7.147	0.001	2.36	99.73	0.18	0	0	0	0.01
2001	248	23	2757	335.63	-424.484	D	7.445	7.445	0	2.983	99.21	0.84	0	0	0	0.02
2001	249	23	2781	339.842	-425.379	D	7.486	7.486	0	3.07	99.59	0.35	0	0	0	0.01
2001	250	23	1	318.65	-445.782	D	8.117	8.117	0	4.462	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	9.202	9.202	0	7.068	0	0	0	0	0	0
2001	252	23	1	318.65	-445.782	D	9.34	9.34	0	7.421	0	0	0	0	0	0
2001	253	23	1	318.65	-445.782	D	6.988	6.988	0	2.034	0	0	0	0	0	0
2001	254	23	2588	318.452	-445.8	D	6.79	6.784	0.006	1.623	98.04	1.95	0	0	0	0.03
2001	255	23	1	318.65	-445.782	D	6.853	6.853	0	1.761	0	0	0	0	0	0
2001	256	23	2385	338.165	-425.691	D	7.004	7.004	0	2.066	99.09	0.06	0	0	0	0.02
2001	257	23	2789	340.496	-426.449	D	7.503	7.48	0.023	3.058	98.09	1.9	0	0	0	0.01

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	258	23	2588	318.452	-445.8	D	6.962	6.96	0.002	1.977	99.89	0.09	0	0	0	0.01
2001	259	23	1	318.65	-445.782	D	6.742	6.742	0	1.541	0	0	0	0	0	0
2001	260	23	1	318.65	-445.782	D	7.078	7.078	0	2.217	0	0	0	0	0	0
2001	261	23	1	318.65	-445.782	D	9.081	9.081	0	6.764	0	0	0	0	0	0
2001	262	23	2781	339.842	-425.379	D	8.21	8.206	0.003	4.666	90.61	9.43	0	0	0	0
2001	263	23	1	318.65	-445.782	D	6.893	6.893	0	1.841	0	0	0	0	0	0
2001	264	23	1	318.65	-445.782	D	7.236	7.236	0	2.544	0	0	0	0	0	0
2001	265	23	2789	340.496	-426.449	D	7.146	7.146	0.001	2.357	99.36	0.58	0	0	0	0.06
2001	266	23	2789	340.496	-426.449	D	7.76	7.757	0.004	3.657	98.29	1.72	0	0	0	0.01
2001	267	23	2789	340.496	-426.449	D	8.727	8.718	0.008	5.871	75.58	24.39	0	0	0	0.04
2001	268	23	2789	340.496	-426.449	D	6.674	6.665	0.01	1.387	75.59	24.35	0	0	0	0.06
2001	269	23	2781	339.842	-425.379	D	6.561	6.54	0.021	1.143	91.96	8	0	0	0	0.04
2001	270	23	2789	340.496	-426.449	D	6.673	6.647	0.027	1.352	97.77	2.2	0	0	0	0.03
2001	271	23	2781	339.842	-425.379	D	6.738	6.721	0.017	1.498	98.7	1.26	0	0	0	0.03
2001	272	23	2588	318.452	-445.8	D	7.086	7.084	0.002	2.229	99.37	0.59	0	0	0	0.02
2001	273	23	1	318.65	-445.782	D	7.066	7.066	0	2.193	0	0	0	0	0	0
2001	274	23	2758	335.862	-424.454	D	7.201	7.201	0	2.471	94.03	6.33	0	0	0	0.02
2001	275	23	2780	339.614	-425.419	D	6.816	6.816	0	1.687	94.3	0.84	0	0	0	0.01
2001	276	23	1	318.65	-445.782	D	7.64	7.64	0	3.401	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	8.468	8.468	0	5.274	0	0	0	0	0	0
2001	278	23	2781	339.842	-425.379	D	9.793	9.656	0.137	8.246	82.4	17.59	0	0	0	0
2001	279	23	2789	340.496	-426.449	D	7.169	7.167	0.002	2.4	79.79	20.24	0	0	0	0.01
2001	280	23	2789	340.496	-426.449	D	6.558	6.557	0.001	1.177	97.79	2.12	0	0	0	0.04
2001	281	23	2789	340.496	-426.449	D	6.616	6.613	0.003	1.286	93.9	6.1	0	0	0	0.03
2001	282	23	1	318.65	-445.782	D	7.968	7.968	0	4.125	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	284	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	285	23	2758	335.862	-424.454	D	9.67	9.66	0.01	8.257	77.2	22.78	0	0	0	0
2001	286	23	1	318.65	-445.782	D	10.019	10.019	0	9.227	0	0	0	0	0	0
2001	287	23	1	318.65	-445.782	D	7.49	7.49	0	3.08	0	0	0	0	0	0
2001	288	23	1	318.65	-445.782	D	6.929	6.929	0	1.915	0	0	0	0	0	0
2001	289	23	1	318.65	-445.782	D	7.071	7.071	0	2.203	0	0	0	0	0	0
2001	290	23	1	318.65	-445.782	D	6.486	6.486	0	1.04	0	0	0	0	0	0
2001	291	23	2788	340.294	-426.448	D	6.548	6.548	0	1.16	90.84	9.16	0	0	0	0.02
2001	292	23	1	318.65	-445.782	D	6.799	6.799	0	1.653	0	0	0	0	0	0
2001	293	23	1	318.65	-445.782	D	8.641	8.641	0	5.686	0	0	0	0	0	0
2001	294	23	1	318.65	-445.782	D	9.362	9.362	0	7.476	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	9.29	9.29	0	7.294	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	297	23	1	318.65	-445.782	D	9.624	9.624	0	8.162	0	0	0	0	0	0
2001	298	23	1	318.65	-445.782	D	6.508	6.508	0	1.081	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	300	23	1	318.65	-445.782	D	6.471	6.471	0	1.011	0	0	0	0	0	0
2001	301	23	2789	340.496	-426.449	D	6.48	6.477	0.004	1.021	78.61	21.37	0	0	0	0.05
2001	302	23	2757	335.63	-424.484	D	6.499	6.499	0	1.065	80.27	2.75	0	0	0	0.01
2001	303	23	1	318.65	-445.782	D	6.572	6.572	0	1.207	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	6.695	6.695	0	1.447	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	9.032	9.032	0	6.64	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	9.835	9.835	0	8.726	0	0	0	0	0	0
2001	307	23	2789	340.496	-426.449	D	9.74	9.685	0.054	8.324	85.89	14.11	0	0	0	0
2001	308	23	2623	320.666	-438.044	D	6.961	6.95	0.01	1.957	95.93	4.05	0	0	0	0.01
2001	309	23	2782	339.852	-425.592	D	8.412	8.368	0.043	5.041	87.47	12.52	0	0	0	0.01
2001	310	23	1456	329.977	-431.796	D	8.121	8.036	0.086	4.277	91.6	8.39	0	0	0	0.01
2001	311	23	2758	335.862	-424.454	D	7.188	7.173	0.015	2.413	96.74	3.25	0	0	0	0.01
2001	312	23	2788	340.294	-426.448	D	7.269	7.268	0	2.612	98.76	1.09	0	0	0	0.01
2001	313	23	2789	340.496	-426.449	D	6.61	6.605	0.005	1.27	55.45	44.43	0	0	0	0.12
2001	314	23	2788	340.294	-426.448	D	6.747	6.746	0	1.549	92.02	8	0	0	0	0.06
2001	315	23	2789	340.496	-426.449	D	6.801	6.799	0.002	1.653	92.47	7.43	0	0	0	0.11
2001	316	23	2653	324.014	-433.36	D	6.64	6.636	0.004	1.331	87.51	12.44	0	0	0	0.06
2001	317	23	1	318.65	-445.782	D	6.716	6.716	0	1.489	0	0	0	0	0	0
2001	318	23	1	318.65	-445.782	D	7.492	7.492	0	3.083	0	0	0	0	0	0
2001	319	23	1	318.65	-445.782	D	8.023	8.023	0	4.249	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.729	7.729	0	3.597	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.103	7.103	0	2.268	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	8.032	8.032	0	4.27	0	0	0	0	0	0
2001	323	23	1	318.65	-445.782	D	8.728	8.728	0	5.896	0	0	0	0	0	0
2001	324	23	1	318.65	-445.782	D	6.474	6.474	0	1.016	0	0	0	0	0	0
2001	325	23	1	318.65	-445.782	D	6.471	6.471	0	1.01	0	0	0	0	0	0
2001	326	23	1	318.65	-445.782	D	6.548	6.548	0	1.159	0	0	0	0	0	0
2001	327	23	1	318.65	-445.782	D	8.475	8.475	0	5.291	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	8.774	8.774	0	6.006	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	6.66	6.66	0	1.377	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.063	7.063	0	2.186	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.026	7.026	0	2.111	0	0	0	0	0	0
2001	332	23	2789	340.496	-426.449	D	9.366	9.227	0.139	7.131	61.22	38.77	0	0	0	0.01
2001	333	23	2589	318.383	-445.593	D	10.487	10.218	0.27	9.779	65.14	34.85	0	0	0	0.01
2001	334	23	2789	340.496	-426.449	D	8.865	8.348	**0.517**	4.993	79.04	20.96	0	0	0	0
2001	335	23	1	318.65	-445.782	D	6.625	6.625	0	1.31	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	336	23	1	318.65	-445.782	D	6.688	6.688	0	1.434	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	6.971	6.971	0	1.999	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.231	7.231	0	2.534	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	9.653	9.653	0	8.239	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	9.943	9.943	0	9.018	0	0	0	0	0	0
2001	341	23	1	318.65	-445.782	D	7.912	7.912	0	4	0	0	0	0	0	0
2001	342	23	2704	329.056	-425.092	D	8.495	8.445	0.05	5.22	65.84	34.15	0	0	0	0.01
2001	343	23	2788	340.294	-426.448	D	6.595	6.595	0	1.25	60.92	37.61	0	0	0	0.09
2001	344	23	2789	340.496	-426.449	D	6.516	6.513	0.003	1.092	55.8	44.12	0	0	0	0.06
2001	345	23	2789	340.496	-426.449	D	6.574	6.574	0.001	1.209	71.16	28.76	0	0	0	0.04
2001	346	23	1	318.65	-445.782	D	9.752	9.752	0	8.503	0	0	0	0	0	0
2001	347	23	1	318.65	-445.782	D	9.808	9.808	0	8.653	0	0	0	0	0	0
2001	348	23	2789	340.496	-426.449	D	9.236	9.231	0.005	7.142	83.28	16.7	0	0	0	0
2001	349	23	2789	340.496	-426.449	D	9.077	9.077	0	6.753	95.42	3.62	0	0	0	0.01
2001	350	23	2789	340.496	-426.449	D	10.219	10.218	0.001	9.779	88.18	11.63	0	0	0	0
2001	351	23	2789	340.496	-426.449	D	9.521	9.458	0.063	7.727	64.9	35.08	0	0	0	0
2001	352	23	1	318.65	-445.782	D	6.544	6.544	0	1.152	0	0	0	0	0	0
2001	353	23	1	318.65	-445.782	D	6.815	6.815	0	1.686	0	0	0	0	0	0
2001	354	23	1	318.65	-445.782	D	6.471	6.471	0	1.009	0	0	0	0	0	0
2001	355	23	1	318.65	-445.782	D	6.487	6.487	0	1.042	0	0	0	0	0	0
2001	356	23	1	318.65	-445.782	D	8.259	8.259	0	4.788	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	6.641	6.641	0	1.34	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	6.479	6.479	0	1.026	0	0	0	0	0	0
2001	359	23	1	318.65	-445.782	D	6.512	6.512	0	1.089	0	0	0	0	0	0
2001	360	23	1	318.65	-445.782	D	6.537	6.537	0	1.138	0	0	0	0	0	0
2001	361	23	1	318.65	-445.782	D	6.605	6.605	0	1.269	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2001	363	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2001	364	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2001	365	23	1	318.65	-445.782	D	6.619	6.619	0	1.298	0	0	0	0	0	0
									0.517							
HOLCIM									**DELTA**		**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.785	7.785	0	3.719	0	0	0	0	0	0
2001	2	23	1	318.65	-445.782	D	7.39	7.39	0	2.868	0	0	0	0	0	0
2001	3	23	1	318.65	-445.782	D	8.207	8.207	0	4.667	0	0	0	0	0	0
2001	4	23	1	318.65	-445.782	D	7.031	7.031	0	2.121	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	5	23	1	318.65	-445.782	D	6.931	6.931	0	1.919	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	6.551	6.551	0	1.165	0	0	0	0	0	0
2001	7	23	1	318.65	-445.782	D	7.026	7.026	0	2.11	0	0	0	0	0	0
2001	8	23	1	318.65	-445.782	D	8.597	8.597	0	5.581	0	0	0	0	0	0
2001	9	23	1	318.65	-445.782	D	9.208	9.208	0	7.084	0	0	0	0	0	0
2001	10	23	2789	340.496	-426.449	D	6.972	6.97	0.002	1.996	38.47	61.2	0	0	0	0.28
2001	11	23	1	318.65	-445.782	D	9.068	9.068	0	6.731	0	0	0	0	0	0
2001	12	23	1	318.65	-445.782	D	9.519	9.519	0	7.886	0	0	0	0	0	0
2001	13	23	1	318.65	-445.782	D	9.698	9.698	0	8.359	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	9.396	9.396	0	7.566	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	6.74	6.74	0	1.537	0	0	0	0	0	0
2001	16	23	1	318.65	-445.782	D	6.763	6.763	0	1.581	0	0	0	0	0	0
2001	17	23	2789	340.496	-426.449	D	6.886	6.864	0.021	1.784	58.36	41.15	0	0	0	0.49
2001	18	23	2468	334.002	-434.887	D	7.577	6.915	**0.662**	1.887	42.39	57.31	0	0	0	0.31
2001	19	23	2789	340.496	-426.449	D	6.863	6.861	0.002	1.778	53.95	45.58	0	0	0	0.49
2001	20	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2001	21	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	22	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	6.621	6.621	0	1.303	0	0	0	0	0	0
2001	24	23	1	318.65	-445.782	D	6.746	6.746	0	1.549	0	0	0	0	0	0
2001	25	23	2789	340.496	-426.449	D	6.586	6.584	0.001	1.23	34.55	64.78	0	0	0	0.78
2001	26	23	2789	340.496	-426.449	D	6.544	6.536	0.008	1.136	34.23	65.32	0	0	0	0.44
2001	27	23	1	318.65	-445.782	D	6.678	6.678	0	1.413	0	0	0	0	0	0
2001	28	23	1	318.65	-445.782	D	6.528	6.528	0	1.12	0	0	0	0	0	0
2001	29	23	1	318.65	-445.782	D	8.908	8.908	0	6.335	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	6.819	6.819	0	1.692	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.016	7.016	0	2.09	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	6.478	6.478	0	1.025	0	0	0	0	0	0
2001	33	23	1	318.65	-445.782	D	6.561	6.561	0	1.185	0	0	0	0	0	0
2001	34	23	1	318.65	-445.782	D	6.476	6.476	0	1.019	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	6.617	6.617	0	1.293	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	6.583	6.583	0	1.226	0	0	0	0	0	0
2001	37	23	1	318.65	-445.782	D	6.528	6.528	0	1.121	0	0	0	0	0	0
2001	38	23	1	318.65	-445.782	D	8.527	8.527	0	5.415	0	0	0	0	0	0
2001	39	23	1	318.65	-445.782	D	10.07	10.07	0	9.369	0	0	0	0	0	0
2001	40	23	1	318.65	-445.782	D	9.399	9.399	0	7.574	0	0	0	0	0	0
2001	41	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0
2001	42	23	2781	339.842	-425.379	D	6.496	6.47	0.026	1.009	39.88	59.57	0	0	0	0.55
2001	43	23	1415	329.185	-425.086	D	6.874	6.874	0	1.803	50.48	48.96	0	0	0	0.4

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	44	23	1	318.65	-445.782	D	9.412	9.412	0	7.606	0	0	0	0	0	0
2001	45	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	46	23	2789	340.496	-426.449	D	8.637	8.624	0.014	5.644	67.1	32.84	0	0	0	0.05
2001	47	23	2468	334.002	-434.887	D	8.262	8.241	0.02	4.747	68.66	31.31	0	0	0	0.03
2001	48	23	1	318.65	-445.782	D	6.531	6.531	0	1.127	0	0	0	0	0	0
2001	49	23	1	318.65	-445.782	D	6.473	6.473	0	1.014	0	0	0	0	0	0
2001	50	23	2789	340.496	-426.449	D	6.494	6.494	0	1.055	61.33	33.98	0	0	0	0.64
2001	51	23	1	318.65	-445.782	D	9.197	9.197	0	7.056	0	0	0	0	0	0
2001	52	23	2704	329.056	-425.092	D	8.429	8.08	0.348	4.379	51.18	48.74	0	0	0	0.08
2001	53	23	641	324.033	-438.052	D	7.117	7.106	0.011	2.275	53.92	45.94	0	0	0	0.12
2001	54	23	1	318.65	-445.782	D	6.752	6.752	0	1.56	0	0	0	0	0	0
2001	55	23	1	318.65	-445.782	D	9.447	9.447	0	7.697	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.222	7.222	0	2.515	0	0	0	0	0	0
2001	57	23	1	318.65	-445.782	D	6.492	6.492	0	1.051	0	0	0	0	0	0
2001	58	23	2783	339.861	-425.806	D	6.526	6.517	0.009	1.099	59.56	39.81	0	0	0	0.64
2001	59	23	2694	327.861	-425.964	D	7.206	7.142	0.065	2.348	58	41.86	0	0	0	0.14
2001	60	23	1	318.65	-445.782	D	6.708	6.708	0	1.473	0	0	0	0	0	0
2001	61	23	1	318.65	-445.782	D	8.524	8.524	0	5.407	0	0	0	0	0	0
2001	62	23	1	318.65	-445.782	D	6.735	6.735	0	1.527	0	0	0	0	0	0
2001	63	23	2789	340.496	-426.449	D	6.702	6.6	0.102	1.261	51.85	47.76	0	0	0	0.4
2001	64	23	1	318.65	-445.782	D	6.523	6.523	0	1.11	0	0	0	0	0	0
2001	65	23	1	318.65	-445.782	D	6.525	6.525	0	1.114	0	0	0	0	0	0
2001	66	23	1	318.65	-445.782	D	6.471	6.471	0	1.011	0	0	0	0	0	0
2001	67	23	1	318.65	-445.782	D	6.534	6.534	0	1.132	0	0	0	0	0	0
2001	68	23	1	318.65	-445.782	D	6.488	6.488	0	1.042	0	0	0	0	0	0
2001	69	23	2789	340.496	-426.449	D	6.472	6.471	0.001	1.009	66.04	33.16	0	0	0	0.82
2001	70	23	2781	339.842	-425.379	D	6.502	6.502	0	1.069	77.65	21.83	0	0	0	0.64
2001	71	23	1	318.65	-445.782	D	9.154	9.154	0	6.946	0	0	0	0	0	0
2001	72	23	1	318.65	-445.782	D	6.558	6.558	0	1.178	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	74	23	1	318.65	-445.782	D	9.736	9.736	0	8.459	0	0	0	0	0	0
2001	75	23	2708	329.979	-425	D	8.323	7.781	**0.541**	3.711	71.85	28.1	0	0	0	0.04
2001	76	23	1	318.65	-445.782	D	6.567	6.567	0	1.196	0	0	0	0	0	0
2001	77	23	2789	340.496	-426.449	D	6.529	6.506	0.023	1.078	52.12	46.87	0	0	0	1.01
2001	78	23	2589	318.383	-445.593	D	6.502	6.479	0.023	1.026	59.29	39.97	0	0	0	0.74
2001	79	23	2694	327.861	-425.964	D	6.511	6.495	0.016	1.056	76.04	22.94	0	0	0	1.02
2001	80	23	2600	318.952	-443.12	D	6.642	6.473	0.169	1.014	67.77	31.38	0	0	0	0.85
2001	81	23	2704	329.056	-425.092	D	6.532	6.49	0.042	1.046	85.58	13.66	0	0	0	0.76
2001	82	23	2781	339.842	-425.379	D	6.735	6.665	0.07	1.388	80.89	18.63	0	0	0	0.49

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	83	23	2789	340.496	-426.449	D	6.893	6.747	0.147	1.549	84.48	15.3	0	0	0	0.21
2001	84	23	1	318.65	-445.782	D	6.471	6.471	0	1.01	0	0	0	0	0	0
2001	85	23	1	318.65	-445.782	D	6.478	6.478	0	1.024	0	0	0	0	0	0
2001	86	23	1	318.65	-445.782	D	6.468	6.468	0	1.005	0	0	0	0	0	0
2001	87	23	1	318.65	-445.782	D	6.529	6.529	0	1.123	0	0	0	0	0	0
2001	88	23	1	318.65	-445.782	D	7.559	7.559	0	3.227	0	0	0	0	0	0
2001	89	23	1	318.65	-445.782	D	9.145	9.145	0	6.925	0	0	0	0	0	0
2001	90	23	1	318.65	-445.782	D	7.628	7.628	0	3.376	0	0	0	0	0	0
2001	91	23	1	318.65	-445.782	D	6.481	6.481	0	1.029	0	0	0	0	0	0
2001	92	23	1	318.65	-445.782	D	7.269	7.269	0	2.613	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	10.042	10.042	0	9.289	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	9.747	9.747	0	8.488	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	8.549	8.549	0	5.467	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.507	7.507	0	3.115	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.503	7.503	0	3.108	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.145	7.145	0	2.355	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.606	7.606	0	3.329	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	9.338	9.338	0	7.417	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	6.571	6.571	0	1.204	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.079	7.079	0	2.219	0	0	0	0	0	0
2001	105	23	1	318.65	-445.782	D	9.107	9.107	0	6.828	0	0	0	0	0	0
2001	106	23	1	318.65	-445.782	D	6.498	6.498	0	1.063	0	0	0	0	0	0
2001	107	23	1	318.65	-445.782	D	6.48	6.48	0	1.027	0	0	0	0	0	0
2001	108	23	1	318.65	-445.782	D	6.476	6.476	0	1.019	0	0	0	0	0	0
2001	109	23	1	318.65	-445.782	D	6.594	6.594	0	1.249	0	0	0	0	0	0
2001	110	23	1	318.65	-445.782	D	10.01	10.01	0	9.202	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	8.281	8.281	0	4.837	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	8.135	8.135	0	4.503	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	8.008	8.008	0	4.216	0	0	0	0	0	0
2001	114	23	1	318.65	-445.782	D	6.5	6.5	0	1.067	0	0	0	0	0	0
2001	115	23	1	318.65	-445.782	D	6.478	6.478	0	1.024	0	0	0	0	0	0
2001	116	23	1	318.65	-445.782	D	6.543	6.543	0	1.149	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	6.586	6.586	0	1.232	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	6.585	6.585	0	1.231	0	0	0	0	0	0
2001	119	23	1	318.65	-445.782	D	6.867	6.867	0	1.788	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.147	7.147	0	2.358	0	0	0	0	0	0
2001	121	23	1	318.65	-445.782	D	6.839	6.839	0	1.734	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	122	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.129	7.129	0	2.323	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.25	7.25	0	2.573	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	8.868	8.868	0	6.236	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	8.924	8.924	0	6.374	0	0	0	0	0	0
2001	127	23	1	318.65	-445.782	D	8.708	8.708	0	5.848	0	0	0	0	0	0
2001	128	23	1	318.65	-445.782	D	6.575	6.575	0	1.212	0	0	0	0	0	0
2001	129	23	1	318.65	-445.782	D	6.883	6.883	0	1.822	0	0	0	0	0	0
2001	130	23	2400	338.672	-425.919	D	6.94	6.94	0	1.936	84.41	0.35	0	0	0	0.25
2001	131	23	1	318.65	-445.782	D	8.246	8.246	0	4.756	0	0	0	0	0	0
2001	132	23	1	318.65	-445.782	D	8.901	8.901	0	6.317	0	0	0	0	0	0
2001	133	23	1	318.65	-445.782	D	6.561	6.561	0	1.185	0	0	0	0	0	0
2001	134	23	1	318.65	-445.782	D	6.804	6.804	0	1.664	0	0	0	0	0	0
2001	135	23	1	318.65	-445.782	D	6.961	6.961	0	1.979	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.897	7.897	0	3.966	0	0	0	0	0	0
2001	138	23	1	318.65	-445.782	D	7.89	7.89	0	3.951	0	0	0	0	0	0
2001	139	23	2789	340.496	-426.449	D	7.352	7.352	0	2.786	99.23	0.49	0	0	0	0.3
2001	140	23	2789	340.496	-426.449	D	7.462	7.462	0	3.019	98.63	0.26	0	0	0	0.27
2001	141	23	1	318.65	-445.782	D	8.961	8.961	0	6.464	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	6.534	6.534	0	1.131	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	6.54	6.54	0	1.144	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	6.507	6.507	0	1.08	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	6.566	6.566	0	1.193	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	6.546	6.546	0	1.156	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	6.809	6.809	0	1.673	0	0	0	0	0	0
2001	148	23	1	318.65	-445.782	D	8.364	8.364	0	5.03	0	0	0	0	0	0
2001	149	23	2788	340.294	-426.448	D	6.968	6.968	0	1.993	98.85	0.29	0	0	0	0.43
2001	150	23	2781	339.842	-425.379	D	8.429	8.428	0.001	5.181	96.97	2.7	0	0	0	0.16
2001	151	23	1	318.65	-445.782	D	9.068	9.068	0	6.73	0	0	0	0	0	0
2001	152	23	1	318.65	-445.782	D	7.103	7.103	0	2.268	0	0	0	0	0	0
2001	153	23	1	318.65	-445.782	D	6.992	6.992	0	2.042	0	0	0	0	0	0
2001	154	23	1	318.65	-445.782	D	7.218	7.218	0	2.506	0	0	0	0	0	0
2001	155	23	1	318.65	-445.782	D	8.894	8.894	0	6.3	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	8.375	8.375	0	5.056	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.624	7.624	0	3.368	0	0	0	0	0	0
2001	158	23	1	318.65	-445.782	D	7.996	7.996	0	4.188	0	0	0	0	0	0
2001	159	23	2789	340.496	-426.449	D	7.809	7.283	**0.526**	2.641	96.12	3.7	0	0	0	0.18
2001	160	23	2571	322.646	-445.476	D	7.473	7.36	0.113	2.804	98.6	1.2	0	0	0	0.2

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	161	23	2781	339.842	-425.379	D	7.868	7.757	0.111	3.659	98.78	1.13	0	0	0	0.09
2001	162	23	2789	340.496	-426.449	D	7.013	7.011	0.001	2.081	99.52	0.33	0	0	0	0.17
2001	163	23	2784	339.87	-426.019	D	6.866	6.866	0	1.787	98.52	0.21	0	0	0	0.2
2001	164	23	2407	339.18	-426.146	D	7.053	7.053	0	2.166	98.28	0.3	0	0	0	0.13
2001	165	23	1	318.65	-445.782	D	7.321	7.321	0	2.721	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	8.275	8.275	0	4.824	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	6.521	6.521	0	1.108	0	0	0	0	0	0
2001	168	23	1	318.65	-445.782	D	6.545	6.545	0	1.153	0	0	0	0	0	0
2001	169	23	2789	340.496	-426.449	D	6.651	6.651	0	1.36	99.27	0.2	0	0	0	0.48
2001	170	23	2399	338.683	-426.168	D	7.019	7.019	0	2.098	89.42	0.14	0	0	0	0.3
2001	171	23	1	318.65	-445.782	D	6.845	6.845	0	1.746	0	0	0	0	0	0
2001	172	23	2652	323.833	-433.511	D	7.378	7.366	0.012	2.816	98.19	1.7	0	0	0	0.11
2001	173	23	2552	324.659	-442.591	D	6.855	6.853	0.002	1.761	97.81	2	0	0	0	0.15
2001	174	23	1	318.65	-445.782	D	6.592	6.592	0	1.245	0	0	0	0	0	0
2001	175	23	2789	340.496	-426.449	D	6.761	6.76	0.001	1.576	99.2	0.24	0	0	0	0.49
2001	176	23	2564	323.159	-444.002	D	8.521	8.451	0.069	5.235	99.12	0.77	0	0	0	0.1
2001	177	23	2708	329.979	-425	D	7.227	7.155	0.072	2.376	99.22	0.6	0	0	0	0.17
2001	178	23	2758	335.862	-424.454	D	6.959	6.931	0.028	1.918	99.1	0.7	0	0	0	0.2
2001	179	23	2758	335.862	-424.454	D	9.004	8.971	0.033	6.49	98.04	1.91	0	0	0	0.05
2001	180	23	2652	323.833	-433.511	D	8.755	8.754	0.002	5.957	99.68	0.23	0	0	0	0.06
2001	181	23	1	318.65	-445.782	D	8.968	8.968	0	6.482	0	0	0	0	0	0
2001	182	23	1	318.65	-445.782	D	9.28	9.28	0	7.268	0	0	0	0	0	0
2001	183	23	2781	339.842	-425.379	D	7.23	7.171	0.059	2.409	88.26	11.55	0	0	0	0.19
2001	184	23	2781	339.842	-425.379	D	7.378	7.338	0.04	2.757	99.2	0.69	0	0	0	0.11
2001	185	23	2414	339.687	-426.374	D	7.08	7.079	0	2.22	100.66	0.11	0	0	0	0.19
2001	186	23	1	318.65	-445.782	D	6.973	6.973	0	2.003	0	0	0	0	0	0
2001	187	23	2789	340.496	-426.449	D	7.639	7.635	0.003	3.392	99.64	0.13	0	0	0	0.21
2001	188	23	2789	340.496	-426.449	D	8.719	8.713	0.006	5.859	99.74	0.19	0	0	0	0.06
2001	189	23	1	318.65	-445.782	D	7.18	7.18	0	2.428	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.028	7.028	0	2.115	0	0	0	0	0	0
2001	191	23	1	318.65	-445.782	D	7.041	7.041	0	2.142	0	0	0	0	0	0
2001	192	23	2789	340.496	-426.449	D	7.067	7.063	0.004	2.187	99.16	0.1	0	0	0	0.73
2001	193	23	2782	339.852	-425.592	D	8.07	7.982	0.087	4.158	99.07	0.76	0	0	0	0.17
2001	194	23	2789	340.496	-426.449	D	9.18	9.072	0.108	6.741	96.06	3.89	0	0	0	0.05
2001	195	23	863	325.509	-431.992	D	6.687	6.684	0.003	1.426	99.68	0.15	0	0	0	0.17
2001	196	23	1	318.65	-445.782	D	6.685	6.685	0	1.427	0	0	0	0	0	0
2001	197	23	1	318.65	-445.782	D	7.148	7.148	0	2.362	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.972	7.972	0	4.135	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.881	7.881	0	3.931	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	200	23	1	318.65	-445.782	D	7.405	7.405	0	2.898	0	0	0	0	0	0
2001	201	23	1	318.65	-445.782	D	7.353	7.353	0	2.789	0	0	0	0	0	0
2001	202	23	2789	340.496	-426.449	D	6.809	6.808	0.001	1.67	94.6	5.21	0	0	0	0.14
2001	203	23	2789	340.496	-426.449	D	6.905	6.904	0.001	1.864	99.19	0.64	0	0	0	0.14
2001	204	23	2789	340.496	-426.449	D	7.485	7.485	0	3.069	98.35	1.1	0	0	0	0.08
2001	205	23	1513	329.974	-426.051	D	7.984	7.984	0	4.161	101.92	0.21	0	0	0	0.06
2001	206	23	1	318.65	-445.782	D	8.028	8.028	0	4.26	0	0	0	0	0	0
2001	207	23	1	318.65	-445.782	D	9.042	9.042	0	6.666	0	0	0	0	0	0
2001	208	23	2789	340.496	-426.449	D	9.044	8.905	0.139	6.326	93.56	6.38	0	0	0	0.06
2001	209	23	2789	340.496	-426.449	D	9.016	8.904	0.112	6.324	94.64	5.32	0	0	0	0.04
2001	210	23	2789	340.496	-426.449	D	8.711	8.71	0.001	5.852	98.64	1.34	0	0	0	0.07
2001	211	23	2564	323.159	-444.002	D	9.176	9.169	0.008	6.985	99	0.94	0	0	0	0.04
2001	212	23	2789	340.496	-426.449	D	8.536	8.496	0.041	5.339	99.71	0.22	0	0	0	0.06
2001	213	23	2789	340.496	-426.449	D	8.273	8.238	0.035	4.738	99.42	0.53	0	0	0	0.05
2001	214	23	2784	339.87	-426.019	D	7.549	7.548	0.001	3.204	99.6	0.22	0	0	0	0.09
2001	215	23	2385	338.165	-425.691	D	6.959	6.959	0	1.974	97.67	0.06	0	0	0	0.14
2001	216	23	2789	340.496	-426.449	D	7.072	7.049	0.022	2.158	99.31	0.24	0	0	0	0.44
2001	217	23	2628	320.933	-436.998	D	7.208	7.151	0.057	2.368	99.11	0.69	0	0	0	0.2
2001	218	23	168	320.568	-438.453	D	7.255	7.255	0	2.583	92.65	0.04	0	0	0	0.34
2001	219	23	1	318.65	-445.782	D	7.407	7.407	0	2.902	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.7	7.7	0	3.534	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.773	7.773	0	3.694	0	0	0	0	0	0
2001	222	23	1	318.65	-445.782	D	7.664	7.664	0	3.455	0	0	0	0	0	0
2001	223	23	2789	340.496	-426.449	D	9.121	9.058	0.063	6.707	98.82	1.09	0	0	0	0.09
2001	224	23	2789	340.496	-426.449	D	7.637	7.365	0.272	2.813	91.02	8.74	0	0	0	0.24
2001	225	23	2255	335.942	-426.039	D	8.384	7.603	**0.782**	3.321	94.85	5.01	0	0	0	0.14
2001	226	23	2571	322.646	-445.476	D	6.955	6.915	0.04	1.885	99.35	0.29	0	0	0	0.36
2001	227	23	2468	334.002	-434.887	D	6.857	6.825	0.032	1.706	98.03	1.54	0	0	0	0.42
2001	228	23	2415	339.676	-426.124	D	7.582	7.582	0	3.277	98.18	0.23	0	0	0	0.24
2001	229	23	1	318.65	-445.782	D	6.675	6.675	0	1.407	0	0	0	0	0	0
2001	230	23	1	318.65	-445.782	D	7.046	7.046	0	2.151	0	0	0	0	0	0
2001	231	23	1	318.65	-445.782	D	6.857	6.857	0	1.768	0	0	0	0	0	0
2001	232	23	1	318.65	-445.782	D	7.006	7.006	0	2.069	0	0	0	0	0	0
2001	233	23	1	318.65	-445.782	D	8.165	8.165	0	4.572	0	0	0	0	0	0
2001	234	23	1	318.65	-445.782	D	6.991	6.991	0	2.041	0	0	0	0	0	0
2001	235	23	1	318.65	-445.782	D	7.076	7.076	0	2.213	0	0	0	0	0	0
2001	236	23	1	318.65	-445.782	D	7.113	7.113	0	2.289	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.284	7.284	0	2.645	0	0	0	0	0	0
2001	238	23	1	318.65	-445.782	D	7.199	7.199	0	2.467	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	239	23	1	318.65	-445.782	D	7.365	7.365	0	2.813	0	0	0	0	0	0
2001	240	23	1	318.65	-445.782	D	6.92	6.92	0	1.895	0	0	0	0	0	0
2001	241	23	1	318.65	-445.782	D	7.628	7.628	0	3.376	0	0	0	0	0	0
2001	242	23	1	318.65	-445.782	D	8.243	8.243	0	4.749	0	0	0	0	0	0
2001	243	23	1	318.65	-445.782	D	8.684	8.684	0	5.788	0	0	0	0	0	0
2001	244	23	2758	335.862	-424.454	D	8.559	8.489	0.07	5.323	98.2	1.57	0	0	0	0.23
2001	245	23	2695	328.074	-426.025	D	9.206	8.85	0.356	6.192	94.67	5.27	0	0	0	0.06
2001	246	23	1548	330.222	-426.04	D	8.314	8.278	0.036	4.83	98.98	0.92	0	0	0	0.09
2001	247	23	2758	335.862	-424.454	D	7.17	7.147	0.023	2.36	99.56	0.31	0	0	0	0.14
2001	248	23	2781	339.842	-425.379	D	7.541	7.518	0.023	3.139	98.93	0.98	0	0	0	0.09
2001	249	23	2781	339.842	-425.379	D	7.489	7.486	0.004	3.07	99.26	0.61	0	0	0	0.11
2001	250	23	1	318.65	-445.782	D	8.117	8.117	0	4.462	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	9.202	9.202	0	7.068	0	0	0	0	0	0
2001	252	23	1	318.65	-445.782	D	9.34	9.34	0	7.421	0	0	0	0	0	0
2001	253	23	1	318.65	-445.782	D	6.988	6.988	0	2.034	0	0	0	0	0	0
2001	254	23	2552	324.659	-442.591	D	6.839	6.799	0.04	1.653	94.67	4.92	0	0	0	0.41
2001	255	23	2789	340.496	-426.449	D	7.015	6.859	0.156	1.774	96.49	3.19	0	0	0	0.32
2001	256	23	2789	340.496	-426.449	D	7.295	7.006	0.288	2.071	98.08	1.71	0	0	0	0.21
2001	257	23	2781	339.842	-425.379	D	8.014	7.473	**0.541**	3.044	93.12	6.75	0	0	0	0.13
2001	258	23	2588	318.452	-445.8	D	6.964	6.96	0.004	1.977	99.66	0.19	0	0	0	0.16
2001	259	23	1	318.65	-445.782	D	6.742	6.742	0	1.541	0	0	0	0	0	0
2001	260	23	1	318.65	-445.782	D	7.078	7.078	0	2.217	0	0	0	0	0	0
2001	261	23	1	318.65	-445.782	D	9.081	9.081	0	6.764	0	0	0	0	0	0
2001	262	23	1	318.65	-445.782	D	8.586	8.586	0	5.554	0	0	0	0	0	0
2001	263	23	1	318.65	-445.782	D	6.893	6.893	0	1.841	0	0	0	0	0	0
2001	264	23	1	318.65	-445.782	D	7.236	7.236	0	2.544	0	0	0	0	0	0
2001	265	23	1	318.65	-445.782	D	7.163	7.163	0	2.391	0	0	0	0	0	0
2001	266	23	1	318.65	-445.782	D	7.936	7.936	0	4.053	0	0	0	0	0	0
2001	267	23	1	318.65	-445.782	D	8.604	8.604	0	5.597	0	0	0	0	0	0
2001	268	23	2789	340.496	-426.449	D	6.694	6.665	0.029	1.387	54.26	44.33	0	0	0	1.42
2001	269	23	2571	322.646	-445.476	D	6.549	6.543	0.006	1.15	88	11.05	0	0	0	0.94
2001	270	23	1	318.65	-445.782	D	6.643	6.643	0	1.344	0	0	0	0	0	0
2001	271	23	2781	339.842	-425.379	D	6.78	6.721	0.06	1.498	95.85	3.3	0	0	0	0.84
2001	272	23	2588	318.452	-445.8	D	7.116	7.084	0.033	2.229	96.77	2.83	0	0	0	0.4
2001	273	23	1	318.65	-445.782	D	7.066	7.066	0	2.193	0	0	0	0	0	0
2001	274	23	1	318.65	-445.782	D	7.111	7.111	0	2.285	0	0	0	0	0	0
2001	275	23	1	318.65	-445.782	D	6.85	6.85	0	1.755	0	0	0	0	0	0
2001	276	23	1	318.65	-445.782	D	7.64	7.64	0	3.401	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	8.468	8.468	0	5.274	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	278	23	2781	339.842	-425.379	D	10.711	9.656	1.056	8.246	62.21	37.74	0	0	0	0.04
2001	279	23	2563	323.259	-443.79	D	7.156	7.153	0.002	2.373	78.34	21.66	0	0	0	0.02
2001	280	23	2789	340.496	-426.449	D	6.557	6.557	0	1.177	94.17	4.49	0	0	0	0.85
2001	281	23	2789	340.496	-426.449	D	6.618	6.613	0.005	1.286	83.59	15.92	0	0	0	0.49
2001	282	23	1	318.65	-445.782	D	7.968	7.968	0	4.125	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	284	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	285	23	1	318.65	-445.782	D	9.798	9.798	0	8.625	0	0	0	0	0	0
2001	286	23	1	318.65	-445.782	D	10.019	10.019	0	9.227	0	0	0	0	0	0
2001	287	23	1	318.65	-445.782	D	7.49	7.49	0	3.08	0	0	0	0	0	0
2001	288	23	1	318.65	-445.782	D	6.929	6.929	0	1.915	0	0	0	0	0	0
2001	289	23	1	318.65	-445.782	D	7.071	7.071	0	2.203	0	0	0	0	0	0
2001	290	23	1	318.65	-445.782	D	6.486	6.486	0	1.04	0	0	0	0	0	0
2001	291	23	1	318.65	-445.782	D	6.566	6.566	0	1.195	0	0	0	0	0	0
2001	292	23	1	318.65	-445.782	D	6.799	6.799	0	1.653	0	0	0	0	0	0
2001	293	23	1	318.65	-445.782	D	8.641	8.641	0	5.686	0	0	0	0	0	0
2001	294	23	1	318.65	-445.782	D	9.362	9.362	0	7.476	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	9.29	9.29	0	7.294	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2001	297	23	1	318.65	-445.782	D	9.624	9.624	0	8.162	0	0	0	0	0	0
2001	298	23	1	318.65	-445.782	D	6.508	6.508	0	1.081	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	6.475	6.475	0	1.018	0	0	0	0	0	0
2001	300	23	1	318.65	-445.782	D	6.471	6.471	0	1.011	0	0	0	0	0	0
2001	301	23	2789	340.496	-426.449	D	6.479	6.477	0.002	1.021	80.25	19.01	0	0	0	0.78
2001	302	23	2781	339.842	-425.379	D	6.5	6.5	0.001	1.066	85.22	14.22	0	0	0	0.49
2001	303	23	1	318.65	-445.782	D	6.572	6.572	0	1.207	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	6.695	6.695	0	1.447	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	9.032	9.032	0	6.64	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	9.835	9.835	0	8.726	0	0	0	0	0	0
2001	307	23	2781	339.842	-425.379	D	9.917	9.675	0.242	8.296	79.26	20.67	0	0	0	0.08
2001	308	23	2623	320.666	-438.044	D	7.001	6.95	0.051	1.957	94.01	5.82	0	0	0	0.17
2001	309	23	2783	339.861	-425.806	D	8.469	8.368	0.1	5.041	90.01	9.87	0	0	0	0.13
2001	310	23	2256	335.931	-425.789	D	8.11	7.919	0.191	4.016	79.13	20.7	0	0	0	0.16
2001	311	23	2758	335.862	-424.454	D	7.214	7.173	0.041	2.413	89.35	10.42	0	0	0	0.23
2001	312	23	2789	340.496	-426.449	D	7.269	7.268	0.001	2.612	96.74	3.14	0	0	0	0.16
2001	313	23	1	318.65	-445.782	D	6.615	6.615	0	1.289	0	0	0	0	0	0
2001	314	23	1	318.65	-445.782	D	6.786	6.786	0	1.628	0	0	0	0	0	0
2001	315	23	2781	339.842	-425.379	D	6.799	6.797	0.002	1.649	86.4	11.81	0	0	0	1.79
2001	316	23	2588	318.452	-445.8	D	6.649	6.627	0.022	1.314	68.03	31.14	0	0	0	0.83

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	317	23	1	318.65	-445.782	D	6.716	6.716	0	1.489	0	0	0	0	0	0
2001	318	23	1	318.65	-445.782	D	7.492	7.492	0	3.083	0	0	0	0	0	0
2001	319	23	1	318.65	-445.782	D	8.023	8.023	0	4.249	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.729	7.729	0	3.597	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.103	7.103	0	2.268	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	8.032	8.032	0	4.27	0	0	0	0	0	0
2001	323	23	1	318.65	-445.782	D	8.728	8.728	0	5.896	0	0	0	0	0	0
2001	324	23	1	318.65	-445.782	D	6.474	6.474	0	1.016	0	0	0	0	0	0
2001	325	23	1	318.65	-445.782	D	6.471	6.471	0	1.01	0	0	0	0	0	0
2001	326	23	1	318.65	-445.782	D	6.548	6.548	0	1.159	0	0	0	0	0	0
2001	327	23	1	318.65	-445.782	D	8.475	8.475	0	5.291	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	8.774	8.774	0	6.006	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	6.66	6.66	0	1.377	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.063	7.063	0	2.186	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.026	7.026	0	2.111	0	0	0	0	0	0
2001	332	23	2789	340.496	-426.449	D	9.361	9.227	0.135	7.131	56.61	43.34	0	0	0	0.04
2001	333	23	2789	340.496	-426.449	D	12.923	10.218	**2.705**	9.779	47.33	52.6	0	0	0	0.07
2001	334	23	2789	340.496	-426.449	D	8.541	8.348	0.193	4.993	64.72	35.23	0	0	0	0.05
2001	335	23	1	318.65	-445.782	D	6.625	6.625	0	1.31	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	6.688	6.688	0	1.434	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	6.971	6.971	0	1.999	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.231	7.231	0	2.534	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	9.653	9.653	0	8.239	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	9.943	9.943	0	9.018	0	0	0	0	0	0
2001	341	23	1	318.65	-445.782	D	7.912	7.912	0	4	0	0	0	0	0	0
2001	342	23	2704	329.056	-425.092	D	8.647	8.445	0.202	5.22	48.45	51.36	0	0	0	0.19
2001	343	23	1893	333.346	-434.896	D	6.597	6.597	0	1.254	42.19	4.25	0	0	0	0.13
2001	344	23	2789	340.496	-426.449	D	6.517	6.513	0.003	1.092	38.09	61.27	0	0	0	0.62
2001	345	23	2789	340.496	-426.449	D	6.58	6.574	0.007	1.209	59.57	39.91	0	0	0	0.51
2001	346	23	2040	333.912	-425.128	D	9.729	9.729	0	8.441	66.82	29.87	0	0	0	0.32
2001	347	23	1	318.65	-445.782	D	9.808	9.808	0	8.653	0	0	0	0	0	0
2001	348	23	1	318.65	-445.782	D	9.503	9.503	0	7.842	0	0	0	0	0	0
2001	349	23	1	318.65	-445.782	D	9.319	9.319	0	7.367	0	0	0	0	0	0
2001	350	23	2789	340.496	-426.449	D	10.219	10.218	0.001	9.779	74.59	25.33	0	0	0	0.03
2001	351	23	1	318.65	-445.782	D	9.487	9.487	0	7.801	0	0	0	0	0	0
2001	352	23	1	318.65	-445.782	D	6.544	6.544	0	1.152	0	0	0	0	0	0
2001	353	23	1	318.65	-445.782	D	6.815	6.815	0	1.686	0	0	0	0	0	0
2001	354	23	1	318.65	-445.782	D	6.471	6.471	0	1.009	0	0	0	0	0	0
2001	355	23	1	318.65	-445.782	D	6.487	6.487	0	1.042	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	356	23	1	318.65	-445.782	D	8.259	8.259	0	4.788	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	6.641	6.641	0	1.34	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	6.479	6.479	0	1.026	0	0	0	0	0	0
2001	359	23	1	318.65	-445.782	D	6.512	6.512	0	1.089	0	0	0	0	0	0
2001	360	23	1	318.65	-445.782	D	6.537	6.537	0	1.138	0	0	0	0	0	0
2001	361	23	1	318.65	-445.782	D	6.605	6.605	0	1.269	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2001	363	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2001	364	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2001	365	23	1	318.65	-445.782	D	6.619	6.619	0	1.298	0	0	0	0	0	0
									2.705							

Appendix M
Upper Buffalo
2002 M2

EGU											% of Modeled Extinction by Species					
YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	1	23	2758	335.862	-424.454	D	6.907	6.88	0.027	1.816	0	0	0	0	0	99.99
2002	2	23	2758	335.862	-424.454	D	7.034	6.887	0.147	1.83	0	0	0	0	0	100
2002	3	23	2308	337.055	-428.737	D	7.311	7.288	0.023	2.652	0	0	0	0	0	100
2002	4	23	2276	336.157	-425.28	D	6.807	6.807	0	1.668	0	0	0	0	0	99.41
2002	5	23	1	318.65	-445.782	D	8.011	8.011	0	4.223	0	0	0	0	0	0
2002	6	23	2789	340.496	-426.449	D	9.612	9.605	0.007	8.11	0	0	0	0	0	99.96
2002	7	23	2789	340.496	-426.449	D	7.933	7.93	0.004	4.04	0	0	0	0	0	100.03
2002	8	23	2784	339.87	-426.019	D	6.874	6.874	0	1.804	0	0	0	0	0	99.66
2002	9	23	1	318.65	-445.782	D	6.877	6.877	0	1.81	0	0	0	0	0	0
2002	10	23	2640	322.263	-435.121	D	9.417	9.398	0.019	7.57	0	0	0	0	0	100
2002	11	23	2758	335.862	-424.454	D	7.362	7.313	0.05	2.704	0	0	0	0	0	100
2002	12	23	2757	335.63	-424.484	D	6.775	6.775	0.001	1.605	0	0	0	0	0	99.83
2002	13	23	620	323.632	-434.572	D	7.019	7.019	0.001	2.096	0	0	0	0	0	99.68
2002	14	23	1	318.65	-445.782	D	6.95	6.95	0	1.957	0	0	0	0	0	0
2002	15	23	2651	323.652	-433.662	D	6.625	6.62	0.005	1.299	0	0	0	0	0	99.99
2002	16	23	2408	339.168	-425.897	D	6.589	6.589	0	1.239	0	0	0	0	0	99.44
2002	17	23	2758	335.862	-424.454	D	6.973	6.936	0.037	1.928	0	0	0	0	0	100
2002	18	23	2670	326.374	-430.197	D	8.743	8.736	0.007	5.914	0	0	0	0	0	99.98
2002	19	23	2684	326.713	-427.014	D	8.979	8.971	0.009	6.489	0	0	0	0	0	100
2002	20	23	2789	340.496	-426.449	D	8.863	8.858	0.005	6.211	0	0	0	0	0	99.97
2002	21	23	2154	334.894	-424.836	D	7.264	7.264	0	2.602	0	0	0	0	0	47.36
2002	22	23	1	318.65	-445.782	D	7.001	7.001	0	2.059	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	9.862	9.862	0	8.798	0	0	0	0	0	0
2002	24	23	2789	340.496	-426.449	D	9.429	9.407	0.022	7.593	0	0	0	0	0	99.99
2002	25	23	2588	318.452	-445.8	D	6.855	6.855	0	1.765	0	0	0	0	0	100.2
2002	26	23	2334	337.183	-425.984	D	6.694	6.694	0	1.445	0	0	0	0	0	69.12
2002	27	23	1	318.65	-445.782	D	6.657	6.657	0	1.373	0	0	0	0	0	0
2002	28	23	1	318.65	-445.782	D	7.081	7.081	0	2.223	0	0	0	0	0	0
2002	29	23	1047	326.802	-427.438	D	9.816	9.816	0	8.675	0	0	0	0	0	76.35
2002	30	23	2758	335.862	-424.454	D	10.234	10.218	0.016	9.779	0	0	0	0	0	99.98
2002	31	23	2694	327.861	-425.964	D	10.177	10.155	0.022	9.603	0	0	0	0	0	99.98
2002	32	23	489	322.661	-435.114	D	7.51	7.51	0	3.122	0	0	0	0	0	99.9
2002	33	23	2758	335.862	-424.454	D	7.104	7.084	0.02	2.23	0	0	0	0	0	100.01
2002	34	23	2789	340.496	-426.449	D	6.818	6.817	0.001	1.688	0	0	0	0	0	100.08
2002	35	23	2705	329.287	-425.069	D	6.95	6.926	0.024	1.908	0	0	0	0	0	100
2002	36	23	2789	340.496	-426.449	D	6.783	6.778	0.005	1.611	0	0	0	0	0	99.98
2002	37	23	2627	320.879	-437.207	D	9.611	9.611	0	8.127	0	0	0	0	0	99.69
2002	38	23	2758	335.862	-424.454	D	9.428	9.415	0.013	7.614	0	0	0	0	0	99.98

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	39	23	2468	334.002	-434.887	D	7.724	7.724	0	3.585	0	0	0	0	0	99.37
2002	40	23	2408	339.168	-425.897	D	9.315	9.315	0	7.357	0	0	0	0	0	95.83
2002	41	23	2653	324.014	-433.36	D	8.091	8.09	0.001	4.401	0	0	0	0	0	99.98
2002	42	23	2435	337.211	-428.786	D	7.582	7.575	0.007	3.262	0	0	0	0	0	100.01
2002	43	23	2711	330.671	-424.932	D	6.625	6.614	0.011	1.288	0	0	0	0	0	100.01
2002	44	23	2628	320.933	-436.998	D	6.744	6.706	0.038	1.47	0	0	0	0	0	100
2002	45	23	2789	340.496	-426.449	D	6.59	6.586	0.004	1.234	0	0	0	0	0	99.99
2002	46	23	2155	334.883	-424.586	D	7	7	0	2.058	0	0	0	0	0	98.48
2002	47	23	2758	335.862	-424.454	D	6.669	6.668	0	1.394	0	0	0	0	0	99.85
2002	48	23	2711	330.671	-424.932	D	6.613	6.562	0.051	1.187	0	0	0	0	0	100
2002	49	23	2789	340.496	-426.449	D	6.622	6.621	0.001	1.302	0	0	0	0	0	99.91
2002	50	23	1	318.65	-445.782	D	8.708	8.708	0	5.847	0	0	0	0	0	0
2002	51	23	2781	339.842	-425.379	D	8.985	8.985	0	6.523	0	0	0	0	0	15.46
2002	52	23	2588	318.452	-445.8	D	6.913	6.911	0.002	1.879	0	0	0	0	0	99.96
2002	53	23	2757	335.63	-424.484	D	6.866	6.813	0.054	1.68	0	0	0	0	0	100
2002	54	23	2789	340.496	-426.449	D	6.695	6.687	0.008	1.432	0	0	0	0	0	100
2002	55	23	2788	340.294	-426.448	D	6.794	6.794	0	1.643	0	0	0	0	0	100.06
2002	56	23	2781	339.842	-425.379	D	8.119	8.076	0.043	4.37	0	0	0	0	0	100
2002	57	23	2628	320.933	-436.998	D	7.609	7.608	0.001	3.333	0	0	0	0	0	99.98
2002	58	23	2781	339.842	-425.379	D	6.702	6.702	0	1.46	0	0	0	0	0	99.08
2002	59	23	2781	339.842	-425.379	D	6.506	6.506	0	1.078	0	0	0	0	0	79.53
2002	60	23	1	318.65	-445.782	D	7.98	7.98	0	4.153	0	0	0	0	0	0
2002	61	23	2684	326.713	-427.014	D	9.744	9.734	0.01	8.453	0	0	0	0	0	99.99
2002	62	23	2684	326.713	-427.014	D	7.318	7.315	0.003	2.709	0	0	0	0	0	100
2002	63	23	2781	339.842	-425.379	D	7.146	7.146	0	2.357	0	0	0	0	0	99.38
2002	64	23	1	318.65	-445.782	D	6.603	6.603	0	1.266	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.141	7.141	0	2.346	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	9.603	9.603	0	8.106	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	68	23	2322	336.902	-425.247	D	8.807	8.807	0	6.087	0	0	0	0	0	96.7
2002	69	23	2708	329.979	-425	D	6.806	6.802	0.004	1.658	0	0	0	0	0	99.98
2002	70	23	2781	339.842	-425.379	D	7.351	7.35	0.001	2.783	0	0	0	0	0	99.97
2002	71	23	2711	330.671	-424.932	D	9.41	9.36	0.05	7.473	0	0	0	0	0	100
2002	72	23	2789	340.496	-426.449	D	6.873	6.862	0.012	1.779	0	0	0	0	0	100
2002	73	23	2789	340.496	-426.449	D	7.979	7.979	0	4.15	0	0	0	0	0	100.06
2002	74	23	2694	327.861	-425.964	D	10.109	10.083	0.026	9.403	0	0	0	0	0	99.99
2002	75	23	2758	335.862	-424.454	D	8.059	7.996	0.063	4.188	0	0	0	0	0	100
2002	76	23	2628	320.933	-436.998	D	8.384	8.381	0.004	5.07	0	0	0	0	0	99.94
2002	77	23	2757	335.63	-424.484	D	9.442	9.442	0	7.684	0	0	0	0	0	99.44

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	78	23	2789	340.496	-426.449	D	10.224	10.218	0.007	9.779	0	0	0	0	0	99.97
2002	79	23	2694	327.861	-425.964	D	9.49	9.428	0.062	7.648	0	0	0	0	0	100
2002	80	23	2758	335.862	-424.454	D	8.363	8.344	0.019	4.984	0	0	0	0	0	100
2002	81	23	2789	340.496	-426.449	D	6.605	6.53	0.075	1.125	0	0	0	0	0	100
2002	82	23	2789	340.496	-426.449	D	6.841	6.837	0.003	1.73	0	0	0	0	0	100.02
2002	83	23	1	318.65	-445.782	D	8.743	8.743	0	5.932	0	0	0	0	0	0
2002	84	23	2628	320.933	-436.998	D	10.226	10.218	0.008	9.779	0	0	0	0	0	99.96
2002	85	23	2789	340.496	-426.449	D	8.641	8.61	0.031	5.612	0	0	0	0	0	99.99
2002	86	23	2789	340.496	-426.449	D	7.869	7.862	0.007	3.89	0	0	0	0	0	99.96
2002	87	23	1415	329.185	-425.086	D	7.269	7.268	0.001	2.611	0	0	0	0	0	99.94
2002	88	23	2781	339.842	-425.379	D	8.663	8.66	0.004	5.731	0	0	0	0	0	99.97
2002	89	23	2694	327.861	-425.964	D	7.661	7.652	0.009	3.429	0	0	0	0	0	100.01
2002	90	23	2715	330.782	-425.876	D	8.338	8.333	0.005	4.958	0	0	0	0	0	99.98
2002	91	23	2758	335.862	-424.454	D	6.727	6.722	0.005	1.501	0	0	0	0	0	99.98
2002	92	23	2710	330.44	-424.955	D	7.647	7.635	0.011	3.393	0	0	0	0	0	99.98
2002	93	23	2710	330.44	-424.955	D	6.741	6.681	0.06	1.42	0	0	0	0	0	100
2002	94	23	2684	326.713	-427.014	D	6.641	6.633	0.008	1.326	0	0	0	0	0	99.99
2002	95	23	2781	339.842	-425.379	D	6.567	6.555	0.012	1.172	0	0	0	0	0	100
2002	96	23	68	320.129	-445.468	D	6.571	6.566	0.005	1.195	0	0	0	0	0	99.95
2002	97	23	2780	339.614	-425.419	D	8.244	8.244	0	4.753	0	0	0	0	0	100.08
2002	98	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	99	23	2758	335.862	-424.454	D	9.187	9.164	0.023	6.972	0	0	0	0	0	100
2002	100	23	2758	335.862	-424.454	D	7.526	7.522	0.004	3.149	0	0	0	0	0	100.01
2002	101	23	1041	326.867	-428.934	D	6.942	6.942	0	1.941	0	0	0	0	0	96.54
2002	102	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	103	23	2752	334.471	-424.635	D	9.389	9.389	0	7.547	0	0	0	0	0	98.23
2002	104	23	1415	329.185	-425.086	D	9.135	9.135	0	6.898	0	0	0	0	0	99.02
2002	105	23	1	318.65	-445.782	D	8.516	8.516	0	5.389	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.596	7.596	0	3.307	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	8.247	8.247	0	4.758	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	8.641	8.641	0	5.687	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.663	7.663	0	3.453	0	0	0	0	0	0
2002	110	23	2235	335.628	-424.554	D	9.49	9.49	0	7.809	0	0	0	0	0	87.5
2002	111	23	2038	333.934	-425.627	D	8.353	8.353	0	5.006	0	0	0	0	0	77.69
2002	112	23	2758	335.862	-424.454	D	6.911	6.875	0.036	1.806	0	0	0	0	0	100
2002	113	23	2684	326.713	-427.014	D	7.275	7.274	0.001	2.624	0	0	0	0	0	99.96
2002	114	23	2416	339.665	-425.875	D	8.838	8.838	0	6.163	0	0	0	0	0	99.18
2002	115	23	2758	335.862	-424.454	D	6.789	6.768	0.021	1.591	0	0	0	0	0	100
2002	116	23	375	322.611	-445.359	D	7.834	7.832	0.002	3.822	0	0	0	0	0	99.97

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	117	23	2780	339.614	-425.419	D	9.091	9.091	0	6.789	0	0	0	0	0	99.46
2002	118	23	2709	330.21	-424.978	D	8.554	8.553	0.001	5.475	0	0	0	0	0	100.02
2002	119	23	2704	329.056	-425.092	D	6.79	6.78	0.01	1.615	0	0	0	0	0	99.99
2002	120	23	2627	320.879	-437.207	D	7.87	7.869	0.001	3.905	0	0	0	0	0	99.74
2002	121	23	199	320.795	-437.944	D	9.301	9.301	0	7.322	0	0	0	0	0	30.06
2002	122	23	2684	326.713	-427.014	D	8.8	8.782	0.018	6.026	0	0	0	0	0	100
2002	123	23	2589	318.383	-445.593	D	7.246	7.228	0.018	2.527	0	0	0	0	0	99.99
2002	124	23	2762	336.074	-425.006	D	8.683	8.675	0.008	5.766	0	0	0	0	0	99.97
2002	125	23	2704	329.056	-425.092	D	8.428	8.424	0.004	5.171	0	0	0	0	0	99.99
2002	126	23	2397	338.413	-425.68	D	8.4	8.4	0	5.114	0	0	0	0	0	99.6
2002	127	23	1	318.65	-445.782	D	8.423	8.423	0	5.168	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	129	23	2789	340.496	-426.449	D	8.369	8.355	0.014	5.01	0	0	0	0	0	99.99
2002	130	23	2758	335.862	-424.454	D	6.896	6.886	0.01	1.827	0	0	0	0	0	100
2002	131	23	2781	339.842	-425.379	D	8.308	8.307	0.001	4.899	0	0	0	0	0	99.83
2002	132	23	1510	330.006	-426.798	D	9.441	9.441	0	7.683	0	0	0	0	0	39.17
2002	133	23	2789	340.496	-426.449	D	8.588	8.578	0.01	5.534	0	0	0	0	0	100
2002	134	23	2725	331.984	-427.096	D	6.758	6.758	0	1.571	0	0	0	0	0	99.66
2002	135	23	2789	340.496	-426.449	D	6.815	6.815	0	1.685	0	0	0	0	0	99.28
2002	136	23	1	318.65	-445.782	D	7.384	7.384	0	2.855	0	0	0	0	0	0
2002	137	23	2684	326.713	-427.014	D	10.146	10.13	0.016	9.534	0	0	0	0	0	99.99
2002	138	23	2589	318.383	-445.593	D	7.966	7.964	0.002	4.116	0	0	0	0	0	99.96
2002	139	23	2781	339.842	-425.379	D	6.859	6.858	0.001	1.77	0	0	0	0	0	100.06
2002	140	23	2758	335.862	-424.454	D	6.923	6.896	0.027	1.848	0	0	0	0	0	100
2002	141	23	2704	329.056	-425.092	D	6.73	6.718	0.012	1.493	0	0	0	0	0	100
2002	142	23	2781	339.842	-425.379	D	6.709	6.708	0.001	1.473	0	0	0	0	0	99.9
2002	143	23	2274	336.179	-425.778	D	6.756	6.756	0	1.568	0	0	0	0	0	92.82
2002	144	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2002	145	23	1552	330.178	-425.042	D	8.304	8.303	0	4.889	0	0	0	0	0	99.58
2002	146	23	2781	339.842	-425.379	D	8.451	8.451	0	5.234	0	0	0	0	0	98.89
2002	147	23	2273	336.19	-426.028	D	8.977	8.977	0	6.505	0	0	0	0	0	83.52
2002	148	23	1	318.65	-445.782	D	8.901	8.901	0	6.317	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	9.28	9.28	0	7.267	0	0	0	0	0	0
2002	150	23	2074	334.15	-424.868	D	8.627	8.627	0	5.652	0	0	0	0	0	81.83
2002	151	23	2417	339.654	-425.626	D	7.13	7.129	0	2.323	0	0	0	0	0	99.27
2002	152	23	2274	336.179	-425.778	D	7.743	7.743	0	3.626	0	0	0	0	0	90.23
2002	153	23	1	318.65	-445.782	D	8.029	8.029	0	4.264	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.439	7.439	0	2.97	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.015	7.015	0	2.089	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	156	23	2781	339.842	-425.379	D	9.018	9.012	0.005	6.593	0	0	0	0	0	99.97
2002	157	23	2611	319.699	-440.64	D	8.766	8.761	0.005	5.975	0	0	0	0	0	99.96
2002	158	23	2571	322.646	-445.476	D	6.911	6.909	0.002	1.875	0	0	0	0	0	99.95
2002	159	23	2571	322.646	-445.476	D	6.905	6.894	0.01	1.844	0	0	0	0	0	100
2002	160	23	2758	335.862	-424.454	D	7.594	7.593	0.001	3.302	0	0	0	0	0	100.09
2002	161	23	1	318.65	-445.782	D	9.508	9.508	0	7.855	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	8.531	8.531	0	5.424	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	8.238	8.238	0	4.74	0	0	0	0	0	0
2002	164	23	2781	339.842	-425.379	D	8.09	8.09	0	4.4	0	0	0	0	0	99.97
2002	165	23	2684	326.713	-427.014	D	7.499	7.463	0.036	3.021	0	0	0	0	0	100
2002	166	23	2710	330.44	-424.955	D	6.694	6.692	0.002	1.441	0	0	0	0	0	99.85
2002	167	23	2758	335.862	-424.454	D	6.748	6.74	0.009	1.536	0	0	0	0	0	100
2002	168	23	2704	329.056	-425.092	D	6.754	6.744	0.01	1.543	0	0	0	0	0	99.98
2002	169	23	2468	334.002	-434.887	D	6.713	6.709	0.003	1.476	0	0	0	0	0	100.01
2002	170	23	2781	339.842	-425.379	D	6.886	6.885	0.001	1.825	0	0	0	0	0	100.22
2002	171	23	13	319.06	-443.766	D	7.52	7.52	0	3.145	0	0	0	0	0	48.49
2002	172	23	1	318.65	-445.782	D	8.033	8.033	0	4.272	0	0	0	0	0	0
2002	173	23	2781	339.842	-425.379	D	7.39	7.39	0	2.866	0	0	0	0	0	100.04
2002	174	23	2705	329.287	-425.069	D	7.064	7.062	0.001	2.185	0	0	0	0	0	99.83
2002	175	23	1549	330.211	-425.79	D	7.376	7.376	0	2.838	0	0	0	0	0	35.08
2002	176	23	1	318.65	-445.782	D	8.073	8.073	0	4.363	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	8.808	8.808	0	6.089	0	0	0	0	0	0
2002	178	23	2102	334.398	-424.857	D	8.826	8.826	0	6.132	0	0	0	0	0	93.28
2002	179	23	2417	339.654	-425.626	D	7.806	7.806	0	3.765	0	0	0	0	0	96.12
2002	180	23	2417	339.654	-425.626	D	7.976	7.976	0	4.144	0	0	0	0	0	94.81
2002	181	23	1	318.65	-445.782	D	8.264	8.264	0	4.798	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	6.882	6.882	0	1.82	0	0	0	0	0	0
2002	183	23	2789	340.496	-426.449	D	6.933	6.933	0.001	1.922	0	0	0	0	0	99.72
2002	184	23	2789	340.496	-426.449	D	8.857	8.857	0	6.208	0	0	0	0	0	99.47
2002	185	23	2789	340.496	-426.449	D	7.311	7.309	0.001	2.697	0	0	0	0	0	100.08
2002	186	23	2789	340.496	-426.449	D	8.178	8.174	0.004	4.592	0	0	0	0	0	99.95
2002	187	23	2781	339.842	-425.379	D	7.403	7.4	0.003	2.889	0	0	0	0	0	99.98
2002	188	23	2571	322.646	-445.476	D	7.852	7.851	0.001	3.864	0	0	0	0	0	99.96
2002	189	23	2588	318.452	-445.8	D	6.866	6.865	0.001	1.786	0	0	0	0	0	99.74
2002	190	23	2789	340.496	-426.449	D	6.765	6.764	0.001	1.583	0	0	0	0	0	99.73
2002	191	23	2374	338.285	-428.434	D	7.007	7.007	0	2.072	0	0	0	0	0	99.78
2002	192	23	2708	329.979	-425	D	7.551	7.543	0.007	3.193	0	0	0	0	0	99.99
2002	193	23	2704	329.056	-425.092	D	8.546	8.531	0.015	5.423	0	0	0	0	0	99.99
2002	194	23	2694	327.861	-425.964	D	9.332	9.318	0.014	7.364	0	0	0	0	0	100

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	195	23	2758	335.862	-424.454	D	8.941	8.934	0.007	6.398	0	0	0	0	0	99.98
2002	196	23	2684	326.713	-427.014	D	7.894	7.884	0.01	3.938	0	0	0	0	0	99.99
2002	197	23	1415	329.185	-425.086	D	7.341	7.339	0.002	2.76	0	0	0	0	0	99.89
2002	198	23	2413	339.406	-425.637	D	9.241	9.241	0	7.167	0	0	0	0	0	99.27
2002	199	23	2274	336.179	-425.778	D	8.779	8.779	0	6.018	0	0	0	0	0	93.57
2002	200	23	1	318.65	-445.782	D	9.09	9.09	0	6.785	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.7	7.7	0	3.533	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.888	7.888	0	3.947	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.159	7.159	0	2.385	0	0	0	0	0	0
2002	204	23	2781	339.842	-425.379	D	7.119	7.117	0.002	2.298	0	0	0	0	0	99.99
2002	205	23	2628	320.933	-436.998	D	7.42	7.411	0.009	2.912	0	0	0	0	0	99.99
2002	206	23	2789	340.496	-426.449	D	7.23	7.225	0.005	2.521	0	0	0	0	0	100.01
2002	207	23	2789	340.496	-426.449	D	7.072	7.07	0.002	2.202	0	0	0	0	0	100.06
2002	208	23	2277	336.146	-425.03	D	7.866	7.866	0	3.898	0	0	0	0	0	91.8
2002	209	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.824	7.824	0	3.806	0	0	0	0	0	0
2002	211	23	1549	330.211	-425.79	D	8.349	8.349	0	4.996	0	0	0	0	0	38.66
2002	212	23	2781	339.842	-425.379	D	7.161	7.161	0	2.387	0	0	0	0	0	100.35
2002	213	23	2322	336.902	-425.247	D	7.551	7.551	0	3.211	0	0	0	0	0	45.77
2002	214	23	2781	339.842	-425.379	D	7.321	7.317	0.005	2.713	0	0	0	0	0	99.95
2002	215	23	2704	329.056	-425.092	D	8.103	8.093	0.01	4.407	0	0	0	0	0	99.98
2002	216	23	2684	326.713	-427.014	D	7.473	7.471	0.002	3.04	0	0	0	0	0	99.93
2002	217	23	2409	339.158	-425.648	D	7.369	7.368	0	2.822	0	0	0	0	0	100.06
2002	218	23	2684	326.713	-427.014	D	6.818	6.814	0.004	1.683	0	0	0	0	0	99.98
2002	219	23	2588	318.452	-445.8	D	8.605	8.595	0.009	5.577	0	0	0	0	0	99.97
2002	220	23	2694	327.861	-425.964	D	6.915	6.913	0.002	1.882	0	0	0	0	0	99.97
2002	221	23	2789	340.496	-426.449	D	6.739	6.738	0.001	1.532	0	0	0	0	0	99.9
2002	222	23	2781	339.842	-425.379	D	7.005	7.005	0	2.068	0	0	0	0	0	99.95
2002	223	23	1412	329.218	-425.834	D	7.28	7.28	0	2.635	0	0	0	0	0	88.15
2002	224	23	1	318.65	-445.782	D	6.912	6.912	0	1.88	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	8.619	8.619	0	5.634	0	0	0	0	0	0
2002	226	23	2708	329.979	-425	D	9.994	9.992	0.002	9.152	0	0	0	0	0	99.9
2002	227	23	2209	335.38	-424.564	D	8.432	8.432	0	5.189	0	0	0	0	0	98.21
2002	228	23	1	318.65	-445.782	D	8.739	8.739	0	5.922	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	8.63	8.63	0	5.658	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.926	7.926	0	4.031	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	6.941	6.941	0	1.939	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	6.972	6.972	0	2.001	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	234	23	1	318.65	-445.782	D	7.651	7.651	0	3.426	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.084	7.084	0	2.23	0	0	0	0	0	0
2002	236	23	2789	340.496	-426.449	D	7.907	7.906	0	3.987	0	0	0	0	0	99.99
2002	237	23	2628	320.933	-436.998	D	8.674	8.661	0.012	5.735	0	0	0	0	0	100
2002	238	23	2589	318.383	-445.593	D	7.886	7.881	0.005	3.932	0	0	0	0	0	99.96
2002	239	23	2789	340.496	-426.449	D	7.008	6.994	0.014	2.046	0	0	0	0	0	100.01
2002	240	23	2758	335.862	-424.454	D	7.737	7.723	0.014	3.583	0	0	0	0	0	99.99
2002	241	23	2694	327.861	-425.964	D	7.186	7.169	0.017	2.406	0	0	0	0	0	99.99
2002	242	23	2704	329.056	-425.092	D	7.153	7.15	0.003	2.366	0	0	0	0	0	100.05
2002	243	23	2789	340.496	-426.449	D	7.408	7.406	0.002	2.901	0	0	0	0	0	100.01
2002	244	23	2182	335.131	-424.575	D	7.143	7.142	0.001	2.348	0	0	0	0	0	99.84
2002	245	23	1381	328.981	-426.094	D	6.924	6.924	0	1.904	0	0	0	0	0	93.3
2002	246	23	1	318.65	-445.782	D	6.972	6.972	0	2.002	0	0	0	0	0	0
2002	247	23	2780	339.614	-425.419	D	6.923	6.923	0	1.902	0	0	0	0	0	99.93
2002	248	23	2781	339.842	-425.379	D	7.288	7.285	0.003	2.646	0	0	0	0	0	99.96
2002	249	23	2789	340.496	-426.449	D	6.792	6.789	0.003	1.633	0	0	0	0	0	99.95
2002	250	23	16	319.027	-443.017	D	6.749	6.748	0.001	1.552	0	0	0	0	0	100.02
2002	251	23	1	318.65	-445.782	D	7.423	7.423	0	2.937	0	0	0	0	0	0
2002	252	23	2373	337.927	-425.951	D	7.256	7.256	0	2.585	0	0	0	0	0	92.72
2002	253	23	2758	335.862	-424.454	D	7.256	7.252	0.004	2.578	0	0	0	0	0	99.94
2002	254	23	2758	335.862	-424.454	D	7.13	7.068	0.062	2.197	0	0	0	0	0	100
2002	255	23	2758	335.862	-424.454	D	7.975	7.955	0.019	4.097	0	0	0	0	0	100
2002	256	23	2640	322.263	-435.121	D	6.691	6.681	0.01	1.42	0	0	0	0	0	100
2002	257	23	2789	340.496	-426.449	D	6.659	6.657	0.002	1.373	0	0	0	0	0	99.94
2002	258	23	2758	335.862	-424.454	D	8.406	8.336	0.07	4.965	0	0	0	0	0	100
2002	259	23	2758	335.862	-424.454	D	8.548	8.457	0.09	5.249	0	0	0	0	0	100
2002	260	23	2758	335.862	-424.454	D	7.72	7.715	0.005	3.566	0	0	0	0	0	99.96
2002	261	23	2405	338.909	-425.659	D	8.419	8.419	0	5.159	0	0	0	0	0	98.51
2002	262	23	1	318.65	-445.782	D	9.39	9.39	0	7.549	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	9.262	9.262	0	7.221	0	0	0	0	0	0
2002	264	23	2789	340.496	-426.449	D	6.795	6.794	0.001	1.644	0	0	0	0	0	100.02
2002	265	23	2758	335.862	-424.454	D	6.819	6.791	0.028	1.638	0	0	0	0	0	100
2002	266	23	2589	318.383	-445.593	D	6.607	6.606	0.001	1.273	0	0	0	0	0	100.12
2002	267	23	2789	340.496	-426.449	D	6.565	6.551	0.014	1.165	0	0	0	0	0	99.99
2002	268	23	2684	326.713	-427.014	D	6.828	6.822	0.006	1.7	0	0	0	0	0	99.97
2002	269	23	2758	335.862	-424.454	D	7.378	7.376	0.001	2.838	0	0	0	0	0	99.9
2002	270	23	2758	335.862	-424.454	D	7.446	7.394	0.052	2.876	0	0	0	0	0	100
2002	271	23	2789	340.496	-426.449	D	6.82	6.811	0.009	1.677	0	0	0	0	0	99.99
2002	272	23	2789	340.496	-426.449	D	7.261	7.251	0.01	2.575	0	0	0	0	0	100

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	273	23	2684	326.713	-427.014	D	7.337	7.337	0.001	2.755	0	0	0	0	0	99.97
2002	274	23	1	318.65	-445.782	D	6.966	6.966	0	1.989	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.239	7.239	0	2.549	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.523	7.523	0	3.151	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	9.147	9.147	0	6.929	0	0	0	0	0	0
2002	278	23	2758	335.862	-424.454	D	7.076	7.05	0.026	2.16	0	0	0	0	0	100
2002	279	23	2789	340.496	-426.449	D	6.809	6.806	0.003	1.667	0	0	0	0	0	100.01
2002	280	23	2711	330.671	-424.932	D	6.836	6.815	0.02	1.686	0	0	0	0	0	100
2002	281	23	2789	340.496	-426.449	D	6.576	6.571	0.005	1.204	0	0	0	0	0	100.02
2002	282	23	2571	322.646	-445.476	D	8.771	8.768	0.002	5.993	0	0	0	0	0	99.88
2002	283	23	2571	322.646	-445.476	D	9.856	9.852	0.004	8.772	0	0	0	0	0	99.98
2002	284	23	2711	330.671	-424.932	D	9.413	9.409	0.004	7.598	0	0	0	0	0	99.91
2002	285	23	2781	339.842	-425.379	D	8.974	8.973	0.001	6.494	0	0	0	0	0	99.92
2002	286	23	2684	326.713	-427.014	D	8.122	8.095	0.027	4.412	0	0	0	0	0	100
2002	287	23	2758	335.862	-424.454	D	6.538	6.526	0.013	1.116	0	0	0	0	0	99.99
2002	288	23	2641	322.503	-435.089	D	6.52	6.507	0.012	1.08	0	0	0	0	0	100.01
2002	289	23	2758	335.862	-424.454	D	6.589	6.554	0.035	1.17	0	0	0	0	0	100
2002	290	23	2571	322.646	-445.476	D	6.982	6.977	0.006	2.01	0	0	0	0	0	100.02
2002	291	23	2789	340.496	-426.449	D	6.63	6.63	0	1.32	0	0	0	0	0	99.45
2002	292	23	2694	327.861	-425.964	D	9.79	9.785	0.005	8.591	0	0	0	0	0	99.96
2002	293	23	2571	322.646	-445.476	D	9.407	9.4	0.007	7.576	0	0	0	0	0	99.99
2002	294	23	2589	318.383	-445.593	D	6.988	6.975	0.013	2.008	0	0	0	0	0	100.01
2002	295	23	2709	330.21	-424.978	D	7.282	7.275	0.007	2.625	0	0	0	0	0	99.99
2002	296	23	2758	335.862	-424.454	D	7.002	6.97	0.032	1.996	0	0	0	0	0	100
2002	297	23	2628	320.933	-436.998	D	6.761	6.758	0.003	1.571	0	0	0	0	0	99.97
2002	298	23	2704	329.056	-425.092	D	9.664	9.657	0.006	8.249	0	0	0	0	0	99.98
2002	299	23	2789	340.496	-426.449	D	9.363	9.336	0.028	7.41	0	0	0	0	0	100
2002	300	23	2709	330.21	-424.978	D	9.196	9.169	0.026	6.986	0	0	0	0	0	99.99
2002	301	23	2704	329.056	-425.092	D	10.227	10.218	0.009	9.779	0	0	0	0	0	99.98
2002	302	23	2789	340.496	-426.449	D	9.885	9.864	0.021	8.805	0	0	0	0	0	99.99
2002	303	23	2589	318.383	-445.593	D	8.941	8.913	0.028	6.348	0	0	0	0	0	100
2002	304	23	2758	335.862	-424.454	D	9.143	9.095	0.048	6.8	0	0	0	0	0	100
2002	305	23	2684	326.713	-427.014	D	8.329	8.186	0.142	4.62	0	0	0	0	0	100
2002	306	23	2711	330.671	-424.932	D	7.877	7.74	0.137	3.621	0	0	0	0	0	100
2002	307	23	2758	335.862	-424.454	D	10.219	10.218	0.001	9.779	0	0	0	0	0	99.67
2002	308	23	2758	335.862	-424.454	D	9.265	9.248	0.017	7.186	0	0	0	0	0	99.99
2002	309	23	2588	318.452	-445.8	D	9.298	9.292	0.006	7.299	0	0	0	0	0	100
2002	310	23	2589	318.383	-445.593	D	8.037	8.034	0.002	4.275	0	0	0	0	0	100.04
2002	311	23	2788	340.294	-426.448	D	6.541	6.541	0	1.146	0	0	0	0	0	83.72

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	312	23	1	318.65	-445.782	D	6.713	6.713	0	1.482	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	9.044	9.044	0	6.672	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	9.307	9.306	0.001	7.334	0	0	0	0	0	99.83
2002	315	23	2758	335.862	-424.454	D	6.811	6.808	0.002	1.672	0	0	0	0	0	100
2002	316	23	2694	327.861	-425.964	D	6.682	6.633	0.05	1.324	0	0	0	0	0	100
2002	317	23	2571	322.646	-445.476	D	6.613	6.613	0	1.285	0	0	0	0	0	100.02
2002	318	23	1	318.65	-445.782	D	7.01	7.01	0	2.079	0	0	0	0	0	0
2002	319	23	2711	330.671	-424.932	D	9.502	9.472	0.03	7.763	0	0	0	0	0	99.99
2002	320	23	2693	327.829	-426.17	D	8.945	8.878	0.067	6.261	0	0	0	0	0	100
2002	321	23	1	318.65	-445.782	D	6.706	6.705	0.001	1.467	0	0	0	0	0	100.15
2002	322	23	1	318.65	-445.782	D	6.826	6.826	0	1.707	0	0	0	0	0	0
2002	323	23	2589	318.383	-445.593	D	6.806	6.805	0.001	1.665	0	0	0	0	0	99.88
2002	324	23	2789	340.496	-426.449	D	6.494	6.493	0	1.053	0	0	0	0	0	100.25
2002	325	23	2628	320.933	-436.998	D	6.607	6.599	0.008	1.259	0	0	0	0	0	99.99
2002	326	23	2435	337.211	-428.786	D	7.048	7.005	0.043	2.068	0	0	0	0	0	100
2002	327	23	2467	334.065	-434.651	D	6.539	6.538	0.001	1.14	0	0	0	0	0	99.78
2002	328	23	1552	330.178	-425.042	D	6.63	6.629	0	1.318	0	0	0	0	0	98.8
2002	329	23	2628	320.933	-436.998	D	7.262	7.24	0.022	2.551	0	0	0	0	0	100
2002	330	23	2611	319.699	-440.64	D	6.652	6.633	0.019	1.326	0	0	0	0	0	100
2002	331	23	2711	330.671	-424.932	D	7.004	6.9	0.104	1.856	0	0	0	0	0	100
2002	332	23	2789	340.496	-426.449	D	6.588	6.586	0.002	1.234	0	0	0	0	0	99.97
2002	333	23	1	318.65	-445.782	D	6.591	6.591	0	1.243	0	0	0	0	0	95.4
2002	334	23	2758	335.862	-424.454	D	6.671	6.67	0.001	1.398	0	0	0	0	0	99.9
2002	335	23	2758	335.862	-424.454	D	6.515	6.504	0.011	1.073	0	0	0	0	0	100.01
2002	336	23	1042	326.856	-428.685	D	6.492	6.491	0	1.05	0	0	0	0	0	98.34
2002	337	23	2758	335.862	-424.454	D	7.1	7.078	0.023	2.217	0	0	0	0	0	100
2002	338	23	2704	329.056	-425.092	D	10.218	10.218	0	9.779	0	0	0	0	0	99.9
2002	339	23	2704	329.056	-425.092	D	8.649	8.615	0.034	5.623	0	0	0	0	0	100
2002	340	23	2789	340.496	-426.449	D	8.897	8.896	0.001	6.304	0	0	0	0	0	100.02
2002	341	23	1	318.65	-445.782	D	7.075	7.075	0	2.211	0	0	0	0	0	0
2002	342	23	2781	339.842	-425.379	D	7.496	7.493	0.003	3.086	0	0	0	0	0	99.98
2002	343	23	2709	330.21	-424.978	D	8.503	8.492	0.011	5.33	0	0	0	0	0	100
2002	344	23	2588	318.452	-445.8	D	6.858	6.855	0.002	1.766	0	0	0	0	0	99.93
2002	345	23	1415	329.185	-425.086	D	8.132	8.131	0.001	4.493	0	0	0	0	0	99.79
2002	346	23	2413	339.406	-425.637	D	7.969	7.969	0	4.127	0	0	0	0	0	99.03
2002	347	23	2684	326.713	-427.014	D	9.467	9.447	0.02	7.697	0	0	0	0	0	99.99
2002	348	23	2588	318.452	-445.8	D	9.196	9.192	0.004	7.043	0	0	0	0	0	99.98
2002	349	23	2274	336.179	-425.778	D	7.071	7.071	0	2.203	0	0	0	0	0	23.56
2002	350	23	1	318.65	-445.782	D	9.107	9.107	0	6.829	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	351	23	1	318.65	-445.782	D	9.67	9.67	0	8.285	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	9.899	9.899	0	8.899	0	0	0	0	0	0
2002	353	23	2758	335.862	-424.454	D	8.106	8.094	0.012	4.41	0	0	0	0	0	99.99
2002	354	23	2789	340.496	-426.449	D	6.781	6.781	0	1.617	0	0	0	0	0	100
2002	355	23	1	318.65	-445.782	D	6.532	6.532	0	1.128	0	0	0	0	0	0
2002	356	23	2694	327.861	-425.964	D	7.006	7.004	0.002	2.066	0	0	0	0	0	99.98
2002	357	23	2758	335.862	-424.454	D	7.502	7.494	0.007	3.089	0	0	0	0	0	99.95
2002	358	23	2704	329.056	-425.092	D	9.769	9.751	0.017	8.5	0	0	0	0	0	100
2002	359	23	2758	335.862	-424.454	D	7.568	7.565	0.003	3.24	0	0	0	0	0	99.96
2002	360	23	2789	340.496	-426.449	D	6.921	6.921	0	1.898	0	0	0	0	0	99.83
2002	361	23	2789	340.496	-426.449	D	6.924	6.923	0.001	1.902	0	0	0	0	0	99.73
2002	362	23	1	318.65	-445.782	D	7.067	7.067	0	2.195	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.04	7.04	0	2.14	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	10.069	10.069	0	9.364	0	0	0	0	0	0
2002	365	23	2684	326.713	-427.014	D	8.807	8.798	0.009	6.065	0	0	0	0	0	100.01
									0.147							
EXIDE											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	1415	329.185	-425.086	D	6.876	6.876	0	1.807	75.24	13.01	0	0	0	11.68
2002	2	23	2182	335.131	-424.575	D	6.892	6.887	0.005	1.83	85.28	9.36	0	0	0	5.32
2002	3	23	2758	335.862	-424.454	D	7.296	7.293	0.003	2.662	87.24	9.27	0	0	0	3.46
2002	4	23	2789	340.496	-426.449	D	6.81	6.809	0.001	1.673	89.92	6.54	0	0	0	3.38
2002	5	23	1549	330.211	-425.79	D	7.818	7.818	0	3.793	23.41	1.42	0	0	0	0.45
2002	6	23	2628	320.933	-436.998	D	9.615	9.603	0.013	8.106	93.6	5.71	0	0	0	0.68
2002	7	23	2597	318.971	-443.851	D	7.942	7.935	0.008	4.051	91.59	6.7	0	0	0	1.69
2002	8	23	2448	335.908	-431.021	D	6.894	6.894	0	1.844	84.9	11.16	0	0	0	4.23
2002	9	23	1	318.65	-445.782	D	6.877	6.877	0	1.81	0	0	0	0	0	0
2002	10	23	2704	329.056	-425.092	D	9.394	9.393	0.002	7.557	94.7	4.08	0	0	0	1.01
2002	11	23	1449	329.434	-425.075	D	7.304	7.301	0.004	2.679	78.85	15.1	0	0	0	6.03
2002	12	23	2468	334.002	-434.887	D	6.783	6.783	0	1.621	89.05	4.88	0	0	0	5.5
2002	13	23	1	318.65	-445.782	D	7.018	7.018	0	2.094	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	6.95	6.95	0	1.957	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	6.62	6.62	0	1.299	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	17	23	2789	340.496	-426.449	D	6.936	6.933	0.003	1.921	84.74	10.18	0	0	0	5.08
2002	18	23	2588	318.452	-445.8	D	8.764	8.764	0.001	5.982	93.93	5.44	0	0	0	0.68
2002	19	23	2155	334.883	-424.586	D	8.957	8.957	0	6.455	91.4	5.71	0	0	0	1.38
2002	20	23	2781	339.842	-425.379	D	8.883	8.882	0.001	6.27	95.51	3.89	0	0	0	0.45

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	21	23	2401	338.661	-425.669	D	7.26	7.26	0	2.594	92.35	2.57	0	0	0	0.86
2002	22	23	1	318.65	-445.782	D	7.001	7.001	0	2.059	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	9.862	9.862	0	8.798	0	0	0	0	0	0
2002	24	23	2781	339.842	-425.379	D	9.383	9.38	0.003	7.524	94.27	5.35	0	0	0	0.34
2002	25	23	641	324.033	-438.052	D	6.881	6.881	0.001	1.817	84.62	10.72	0	0	0	4.53
2002	26	23	2418	339.946	-426.612	D	6.7	6.699	0	1.456	92.22	3.87	0	0	0	4.04
2002	27	23	2236	336.149	-430.776	D	6.629	6.629	0	1.318	75.72	1.93	0	0	0	3.43
2002	28	23	1	318.65	-445.782	D	7.081	7.081	0	2.223	0	0	0	0	0	0
2002	29	23	2781	339.842	-425.379	D	9.728	9.728	0	8.437	93.28	4.34	0	0	0	0.44
2002	30	23	2758	335.862	-424.454	D	10.246	10.218	0.028	9.779	95.33	4.33	0	0	0	0.33
2002	31	23	2684	326.713	-427.014	D	10.21	10.155	0.056	9.603	96.6	3.15	0	0	0	0.24
2002	32	23	2789	340.496	-426.449	D	7.504	7.502	0.002	3.105	96.67	3.06	0	0	0	0.27
2002	33	23	2787	340.091	-426.447	D	7.088	7.088	0	2.237	93.66	3.6	0	0	0	4.4
2002	34	23	2042	334.499	-432.847	D	6.82	6.819	0	1.694	84.12	3.16	0	0	0	1.7
2002	35	23	13	319.06	-443.766	D	6.909	6.908	0.001	1.873	86.68	9.48	0	0	0	3.79
2002	36	23	1	318.65	-445.782	D	6.828	6.828	0	1.711	0	0	0	0	0	0
2002	37	23	1	318.65	-445.782	D	9.575	9.575	0	8.033	0	0	0	0	0	0
2002	38	23	1	318.65	-445.782	D	9.403	9.403	0	7.583	0	0	0	0	0	0
2002	39	23	1	318.65	-445.782	D	7.981	7.981	0	4.154	0	0	0	0	0	0
2002	40	23	1	318.65	-445.782	D	9.566	9.566	0	8.007	0	0	0	0	0	0
2002	41	23	2781	339.842	-425.379	D	8.076	8.076	0.001	4.368	93.03	4.26	0	0	0	2.57
2002	42	23	2789	340.496	-426.449	D	7.576	7.575	0.001	3.262	94.47	4.52	0	0	0	1.09
2002	43	23	1415	329.185	-425.086	D	6.611	6.611	0	1.283	89.55	4.33	0	0	0	6.18
2002	44	23	2589	318.383	-445.593	D	6.729	6.728	0.001	1.512	85.83	6.93	0	0	0	7.16
2002	45	23	2684	326.713	-427.014	D	6.593	6.593	0	1.247	83.96	8.67	0	0	0	6.97
2002	46	23	1	318.65	-445.782	D	7.064	7.064	0	2.189	0	0	0	0	0	0
2002	47	23	1	318.65	-445.782	D	6.737	6.737	0	1.53	0	0	0	0	0	0
2002	48	23	2779	339.386	-425.461	D	6.563	6.562	0.001	1.185	82.87	6.3	0	0	0	10.71
2002	49	23	1413	329.207	-425.585	D	6.631	6.631	0	1.322	92.28	2.69	0	0	0	4.63
2002	50	23	1	318.65	-445.782	D	8.708	8.708	0	5.847	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	9.05	9.05	0	6.686	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	6.911	6.911	0	1.879	0	0	0	0	0	0
2002	53	23	2788	340.294	-426.448	D	6.81	6.81	0	1.674	84.73	7.61	0	0	0	7.34
2002	54	23	1	318.65	-445.782	D	6.702	6.702	0	1.46	89.96	5.43	0	0	0	4.75
2002	55	23	2788	340.294	-426.448	D	6.794	6.794	0	1.643	94.41	2.61	0	0	0	2.3
2002	56	23	623	324.229	-442.54	D	8.214	8.212	0.002	4.679	91.74	7.63	0	0	0	0.6
2002	57	23	13	319.06	-443.766	D	7.602	7.601	0.001	3.318	85.57	11.87	0	0	0	2.59
2002	58	23	1	318.65	-445.782	D	6.708	6.708	0	1.472	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	6.508	6.508	0	1.082	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	60	23	1	318.65	-445.782	D	7.98	7.98	0	4.153	0	0	0	0	0	0
2002	61	23	2589	318.383	-445.593	D	9.728	9.718	0.01	8.411	92.04	7.04	0	0	0	0.92
2002	62	23	2781	339.842	-425.379	D	7.315	7.313	0.002	2.704	94.85	4.19	0	0	0	1
2002	63	23	1	318.65	-445.782	D	7.154	7.154	0	2.374	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	6.603	6.603	0	1.266	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.141	7.141	0	2.346	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	9.603	9.603	0	8.106	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	8.845	8.845	0	6.18	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	6.753	6.753	0	1.563	0	0	0	0	0	0
2002	70	23	1	318.65	-445.782	D	7.416	7.416	0	2.922	0	0	0	0	0	0
2002	71	23	1	318.65	-445.782	D	9.328	9.328	0	7.39	0	0	0	0	0	0
2002	72	23	2277	336.146	-425.03	D	6.863	6.863	0	1.782	90.61	3.63	0	0	0	3.38
2002	73	23	1	318.65	-445.782	D	7.929	7.929	0	4.037	0	0	0	0	0	0
2002	74	23	2704	329.056	-425.092	D	10.086	10.083	0.003	9.403	93.06	6.3	0	0	0	0.63
2002	75	23	37	319.567	-443.993	D	7.976	7.973	0.003	4.136	94.47	4.94	0	0	0	0.54
2002	76	23	2588	318.452	-445.8	D	8.42	8.42	0.001	5.161	97.06	2.29	0	0	0	0.49
2002	77	23	2789	340.496	-426.449	D	9.467	9.466	0.001	7.748	97.35	1.81	0	0	0	0.29
2002	78	23	2040	333.912	-425.128	D	10.218	10.218	0	9.779	96.71	1.68	0	0	0	0.11
2002	79	23	2588	318.452	-445.8	D	9.393	9.393	0	7.557	95.04	1.55	0	0	0	0.1
2002	80	23	2277	336.146	-425.03	D	8.344	8.342	0.002	4.98	91.53	6.27	0	0	0	2.17
2002	81	23	1048	326.791	-427.189	D	6.534	6.533	0	1.131	78.99	8.88	0	0	0	10.05
2002	82	23	2696	328.288	-426.085	D	6.869	6.868	0.001	1.791	91	6.79	0	0	0	2.15
2002	83	23	2416	339.665	-425.875	D	8.617	8.617	0	5.628	90.87	1.74	0	0	0	0.78
2002	84	23	1415	329.185	-425.086	D	10.218	10.218	0	9.779	96.44	2.44	0	0	0	0.09
2002	85	23	1483	329.682	-425.064	D	8.642	8.641	0.001	5.686	97.53	2.16	0	0	0	0.09
2002	86	23	1449	329.434	-425.075	D	7.921	7.921	0	4.021	91.83	5.64	0	0	0	0.68
2002	87	23	1	318.65	-445.782	D	7.251	7.251	0	2.576	0	0	0	0	0	0
2002	88	23	2683	326.705	-427.245	D	8.74	8.74	0	5.924	96.29	0.36	0	0	0	2.09
2002	89	23	1	318.65	-445.782	D	7.67	7.669	0	3.466	98.27	0.69	0	0	0	1.02
2002	90	23	1549	330.211	-425.79	D	8.333	8.333	0	4.958	69.93	0.24	0	0	0	5.17
2002	91	23	1552	330.178	-425.042	D	6.722	6.722	0	1.501	94.24	1.72	0	0	0	3.82
2002	92	23	1242	327.988	-426.138	D	7.652	7.652	0	3.429	95.82	1.32	0	0	0	2.03
2002	93	23	381	322.546	-443.863	D	6.692	6.692	0	1.441	91.93	0.57	0	0	0	1.88
2002	94	23	1	318.65	-445.782	D	6.669	6.669	0	1.395	0	0	0	0	0	0
2002	95	23	1	318.65	-445.782	D	6.574	6.574	0	1.209	0	0	0	0	0	0
2002	96	23	2274	336.179	-425.778	D	6.554	6.554	0	1.171	90.76	0.64	0	0	0	2.66
2002	97	23	2274	336.179	-425.778	D	8.244	8.244	0	4.753	89.19	0.54	0	0	0	1.62
2002	98	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	99	23	1	318.65	-445.782	D	9.117	9.117	0	6.854	0	0	0	0	0	0
2002	100	23	1	318.65	-445.782	D	7.563	7.563	0	3.237	0	0	0	0	0	0
2002	101	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0
2002	102	23	1412	329.218	-425.834	D	7.414	7.414	0	2.917	85.35	0.34	0	0	0	0.99
2002	103	23	2704	329.056	-425.092	D	9.399	9.398	0	7.571	96.28	2.87	0	0	0	0.54
2002	104	23	2707	329.748	-425.023	D	9.135	9.135	0	6.898	96.6	1.21	0	0	0	0.28
2002	105	23	1	318.65	-445.782	D	8.516	8.516	0	5.389	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.596	7.596	0	3.307	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	8.247	8.247	0	4.758	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	8.641	8.641	0	5.687	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.663	7.663	0	3.453	0	0	0	0	0	0
2002	110	23	1415	329.185	-425.086	D	9.49	9.489	0	7.808	94.81	1.65	0	0	0	0.58
2002	111	23	1483	329.682	-425.064	D	8.313	8.313	0.001	4.912	97.82	1.4	0	0	0	0.49
2002	112	23	2394	338.446	-426.428	D	6.874	6.874	0	1.804	74.68	0.35	0	0	0	0.56
2002	113	23	2789	340.496	-426.449	D	7.254	7.251	0.003	2.576	98.76	0.36	0	0	0	0.86
2002	114	23	2755	335.167	-424.545	D	8.871	8.871	0	6.243	98.51	0.61	0	0	0	0.85
2002	115	23	2790	340.421	-426.562	D	6.77	6.769	0.001	1.594	97.89	0.93	0	0	0	1.12
2002	116	23	2415	339.676	-426.124	D	7.992	7.992	0	4.179	82.15	0.62	0	0	0	0.81
2002	117	23	2274	336.179	-425.778	D	9.091	9.091	0	6.789	81.57	0.63	0	0	0	0.71
2002	118	23	1	318.65	-445.782	D	8.893	8.893	0	6.297	0	0	0	0	0	0
2002	119	23	2780	339.614	-425.419	D	6.783	6.783	0.001	1.621	96.28	0.34	0	0	0	3.31
2002	120	23	2781	339.842	-425.379	D	7.886	7.885	0.001	3.941	98.3	0.14	0	0	0	1.13
2002	121	23	2155	334.883	-424.586	D	9.301	9.301	0	7.322	68.35	0.14	0	0	0	0.23
2002	122	23	2653	324.014	-433.36	D	8.843	8.841	0.001	6.17	98.84	0.69	0	0	0	0.33
2002	123	23	13	319.06	-443.766	D	7.241	7.24	0.001	2.553	98.97	0.27	0	0	0	0.66
2002	124	23	2	318.639	-445.533	D	9.127	9.125	0.002	6.875	99.21	0.45	0	0	0	0.23
2002	125	23	1989	333.97	-432.12	D	8.433	8.432	0.001	5.19	99.26	0.36	0	0	0	0.27
2002	126	23	453	323.053	-444.091	D	8.615	8.615	0	5.623	98.69	0.06	0	0	0	0.16
2002	127	23	1	318.65	-445.782	D	8.423	8.423	0	5.168	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	129	23	807	325.034	-432.512	D	8.445	8.444	0	5.219	88.54	9.63	0	0	0	1.42
2002	130	23	1415	329.185	-425.086	D	6.916	6.916	0	1.888	94.73	0.87	0	0	0	3.9
2002	131	23	2395	338.435	-426.179	D	8.332	8.332	0	4.956	98.92	0.49	0	0	0	0.32
2002	132	23	1415	329.185	-425.086	D	9.382	9.381	0	7.528	98.94	1.53	0	0	0	0.29
2002	133	23	2704	329.056	-425.092	D	8.619	8.602	0.017	5.592	97.51	2.27	0	0	0	0.22
2002	134	23	1	318.65	-445.782	D	6.748	6.747	0	1.551	95.09	0.49	0	0	0	4.29
2002	135	23	1893	333.346	-434.896	D	6.833	6.833	0	1.722	97.23	0.26	0	0	0	1.54
2002	136	23	1	318.65	-445.782	D	7.384	7.384	0	2.855	0	0	0	0	0	0
2002	137	23	1	318.65	-445.782	D	10.134	10.134	0	9.545	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	138	23	1	318.65	-445.782	D	7.964	7.964	0	4.116	0	0	0	0	0	0
2002	139	23	2704	329.056	-425.092	D	6.865	6.865	0	1.785	95	0.2	0	0	0	4.54
2002	140	23	2563	323.259	-443.79	D	6.901	6.898	0.003	1.852	97.46	0.31	0	0	0	2.24
2002	141	23	1	318.65	-445.782	D	6.72	6.72	0	1.496	98.24	0.12	0	0	0	1.83
2002	142	23	199	320.795	-437.944	D	6.703	6.703	0	1.463	98.55	0.1	0	0	0	1.15
2002	143	23	1	318.65	-445.782	D	6.812	6.812	0	1.679	0	0	0	0	0	0
2002	144	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2002	145	23	2684	326.713	-427.014	D	8.317	8.317	0.001	4.921	98.2	0.18	0	0	0	1.46
2002	146	23	2704	329.056	-425.092	D	8.528	8.516	0.012	5.388	98.6	0.88	0	0	0	0.51
2002	147	23	2704	329.056	-425.092	D	8.975	8.974	0.001	6.497	99.48	0.06	0	0	0	0.42
2002	148	23	1	318.65	-445.782	D	8.901	8.901	0	6.317	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	9.28	9.28	0	7.267	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	8.533	8.533	0	5.428	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.158	7.158	0	2.382	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.878	7.878	0	3.924	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	8.029	8.029	0	4.264	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.439	7.439	0	2.97	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.015	7.015	0	2.089	0	0	0	0	0	0
2002	156	23	1414	329.196	-425.335	D	9.113	9.113	0	6.844	96.32	0.08	0	0	0	0.36
2002	157	23	2694	327.861	-425.964	D	8.783	8.781	0.001	6.024	98.75	0.6	0	0	0	0.65
2002	158	23	2704	329.056	-425.092	D	6.913	6.912	0.001	1.88	98.16	0.06	0	0	0	1.81
2002	159	23	89	319.9	-440.231	D	6.908	6.908	0	1.871	96.34	0.03	0	0	0	0.74
2002	160	23	1	318.65	-445.782	D	7.528	7.528	0	3.16	12.25	0	0	0	0	0.09
2002	161	23	1	318.65	-445.782	D	9.508	9.508	0	7.855	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	8.531	8.531	0	5.424	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	8.238	8.238	0	4.74	0	0	0	0	0	0
2002	164	23	1508	330.028	-427.297	D	8.141	8.141	0	4.517	82.27	0.01	0	0	0	1.02
2002	165	23	1455	329.987	-432.045	D	7.55	7.545	0.005	3.197	98.78	0.52	0	0	0	0.68
2002	166	23	2308	337.055	-428.737	D	6.696	6.695	0.001	1.448	91.33	0.8	0	0	0	7.93
2002	167	23	2468	334.002	-434.887	D	6.751	6.75	0	1.557	97.04	0.08	0	0	0	2.6
2002	168	23	2789	340.496	-426.449	D	6.754	6.752	0.001	1.56	97.3	0.14	0	0	0	2.47
2002	169	23	2789	340.496	-426.449	D	6.717	6.716	0.001	1.488	98.05	0.04	0	0	0	1.84
2002	170	23	2784	339.87	-426.019	D	6.883	6.883	0	1.821	98.44	0.04	0	0	0	1.17
2002	171	23	1	318.65	-445.782	D	7.457	7.457	0	3.008	0	0	0	0	0	0
2002	172	23	1	318.65	-445.782	D	8.033	8.033	0	4.272	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.251	7.251	0	2.574	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.025	7.025	0	2.108	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	8.073	8.073	0	4.363	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	177	23	1	318.65	-445.782	D	8.808	8.808	0	6.089	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	8.838	8.838	0	6.163	0	0	0	0	0	0
2002	179	23	2788	340.294	-426.448	D	7.874	7.874	0	3.915	96.47	0.17	0	0	0	1.18
2002	180	23	2417	339.654	-425.626	D	7.976	7.976	0	4.144	97.48	0.09	0	0	0	0.63
2002	181	23	1	318.65	-445.782	D	8.264	8.264	0	4.798	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	6.882	6.882	0	1.82	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	6.978	6.978	0	2.014	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	8.892	8.892	0	6.295	0	0	0	0	0	0
2002	185	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2002	186	23	1	318.65	-445.782	D	8.01	8.01	0	4.221	0	0	0	0	0	0
2002	187	23	1	318.65	-445.782	D	7.431	7.431	0	2.954	0	0	0	0	0	0
2002	188	23	1	318.65	-445.782	D	7.851	7.851	0	3.864	0	0	0	0	0	0
2002	189	23	1	318.65	-445.782	D	6.865	6.865	0	1.786	0	0	0	0	0	0
2002	190	23	1	318.65	-445.782	D	6.746	6.746	0	1.548	0	0	0	0	0	0
2002	191	23	1	318.65	-445.782	D	6.966	6.966	0	1.988	0	0	0	0	0	0
2002	192	23	2789	340.496	-426.449	D	7.746	7.745	0.002	3.631	98.72	0.49	0	0	0	0.78
2002	193	23	2781	339.842	-425.379	D	8.5	8.494	0.006	5.335	99.45	0.18	0	0	0	0.41
2002	194	23	2704	329.056	-425.092	D	9.322	9.318	0.005	7.364	99.21	0.49	0	0	0	0.26
2002	195	23	2597	318.971	-443.851	D	8.873	8.872	0.001	6.246	99.57	0.11	0	0	0	0.3
2002	196	23	1	318.65	-445.782	D	8.017	8.017	0	4.235	98.97	0.55	0	0	0	0.49
2002	197	23	2588	318.452	-445.8	D	7.428	7.428	0	2.948	98.85	0.2	0	0	0	0.58
2002	198	23	1413	329.207	-425.585	D	9.436	9.436	0	7.669	99.04	0.03	0	0	0	0.23
2002	199	23	2277	336.146	-425.03	D	8.779	8.779	0	6.018	97.98	0.04	0	0	0	0.29
2002	200	23	1	318.65	-445.782	D	9.09	9.09	0	6.785	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.7	7.7	0	3.533	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.888	7.888	0	3.947	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.159	7.159	0	2.385	0	0	0	0	0	0
2002	204	23	13	319.06	-443.766	D	7.089	7.089	0	2.24	54.37	0.01	0	0	0	1.2
2002	205	23	2588	318.452	-445.8	D	7.459	7.459	0	3.013	98.47	0.07	0	0	0	1.34
2002	206	23	13	319.06	-443.766	D	7.231	7.231	0.001	2.532	98.7	0.24	0	0	0	0.97
2002	207	23	2709	330.21	-424.978	D	7.065	7.064	0.001	2.189	98.81	0.03	0	0	0	0.92
2002	208	23	2035	333.967	-426.375	D	7.926	7.926	0	4.031	97.23	0.07	0	0	0	0.54
2002	209	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.824	7.824	0	3.806	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	8.482	8.482	0	5.307	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.166	7.166	0	2.398	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.644	7.644	0	3.411	0	0	0	0	0	0
2002	214	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	215	23	1	318.65	-445.782	D	7.971	7.971	0	4.133	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	216	23	1	318.65	-445.782	D	7.347	7.347	0	2.775	0	0	0	0	0	0
2002	217	23	1	318.65	-445.782	D	7.34	7.34	0	2.761	0	0	0	0	0	0
2002	218	23	1	318.65	-445.782	D	6.822	6.822	0	1.699	0	0	0	0	0	0
2002	219	23	1	318.65	-445.782	D	8.595	8.595	0	5.577	0	0	0	0	0	0
2002	220	23	1	318.65	-445.782	D	6.92	6.92	0	1.895	0	0	0	0	0	0
2002	221	23	1	318.65	-445.782	D	6.724	6.724	0	1.505	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.045	7.045	0	2.15	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.191	7.191	0	2.45	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	6.912	6.912	0	1.88	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	8.619	8.619	0	5.634	0	0	0	0	0	0
2002	226	23	2758	335.862	-424.454	D	9.992	9.992	0	9.152	100.46	0.03	0	0	0	0.47
2002	227	23	1	318.65	-445.782	D	8.318	8.318	0	4.925	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	8.739	8.739	0	5.922	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	8.63	8.63	0	5.658	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.926	7.926	0	4.031	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	6.941	6.941	0	1.939	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	6.972	6.972	0	2.001	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.651	7.651	0	3.426	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.084	7.084	0	2.23	0	0	0	0	0	0
2002	236	23	2695	328.074	-426.025	D	7.909	7.906	0.003	3.987	98.97	0.04	0	0	0	0.95
2002	237	23	2448	335.908	-431.021	D	8.682	8.661	0.02	5.735	99.12	0.51	0	0	0	0.37
2002	238	23	2588	318.452	-445.8	D	7.881	7.881	0	3.932	99.28	0.08	0	0	0	0.6
2002	239	23	1	318.65	-445.782	D	6.98	6.98	0	2.017	0	0	0	0	0	0
2002	240	23	1	318.65	-445.782	D	7.508	7.508	0	3.117	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.124	7.124	0	2.313	0	0	0	0	0	0
2002	242	23	1	318.65	-445.782	D	7.14	7.14	0	2.344	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.361	7.361	0	2.805	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.134	7.134	0	2.332	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	6.909	6.909	0	1.875	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	6.972	6.972	0	2.002	0	0	0	0	0	0
2002	247	23	2417	339.654	-425.626	D	6.923	6.923	0	1.902	96.7	0.03	0	0	0	2.83
2002	248	23	1517	329.93	-425.053	D	7.357	7.357	0	2.797	97.86	0.04	0	0	0	1.13
2002	249	23	622	323.61	-434.073	D	6.795	6.795	0	1.645	93.66	0.01	0	0	0	1.45
2002	250	23	199	320.795	-437.944	D	6.747	6.747	0	1.55	56.6	0	0	0	0	0.99
2002	251	23	1	318.65	-445.782	D	7.423	7.423	0	2.937	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.171	7.171	0	2.409	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.202	7.202	0	2.474	0	0	0	0	0	0
2002	254	23	2781	339.842	-425.379	D	7.07	7.068	0.002	2.196	96.52	0.81	0	0	0	2.7

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	255	23	2563	323.259	-443.79	D	8.098	8.097	0	4.417	98.48	0.08	0	0	0	1.34
2002	256	23	1	318.65	-445.782	D	6.68	6.68	0	1.418	0	0	0	0	0	0
2002	257	23	1	318.65	-445.782	D	6.656	6.656	0	1.371	0	0	0	0	0	0
2002	258	23	46	319.469	-441.749	D	8.372	8.372	0	5.048	90.28	0.52	0	0	0	1.13
2002	259	23	2588	318.452	-445.8	D	8.324	8.323	0.001	4.936	98.39	0.36	0	0	0	1.16
2002	260	23	2447	336.137	-430.956	D	7.821	7.813	0.009	3.78	99	0.35	0	0	0	0.62
2002	261	23	2789	340.496	-426.449	D	8.445	8.444	0.002	5.217	98.95	0.45	0	0	0	0.52
2002	262	23	1	318.65	-445.782	D	9.39	9.39	0	7.549	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	9.262	9.262	0	7.221	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	6.8	6.8	0	1.655	0	0	0	0	0	0
2002	265	23	2414	339.687	-426.374	D	6.797	6.797	0	1.649	94.52	0.18	0	0	0	2.84
2002	266	23	199	320.795	-437.944	D	6.599	6.599	0	1.258	89.74	0.07	0	0	0	5.06
2002	267	23	2704	329.056	-425.092	D	6.548	6.548	0	1.159	93.42	0.28	0	0	0	4.99
2002	268	23	2182	335.131	-424.575	D	6.826	6.826	0	1.708	93.68	0.27	0	0	0	2.33
2002	269	23	1241	327.999	-426.387	D	7.383	7.383	0	2.852	97.2	0.14	0	0	0	1.02
2002	270	23	1414	329.196	-425.335	D	7.345	7.345	0	2.772	94.69	0.06	0	0	0	3.34
2002	271	23	1415	329.185	-425.086	D	6.804	6.804	0	1.663	95.27	0.2	0	0	0	2.7
2002	272	23	1008	326.651	-429.693	D	7.238	7.238	0	2.548	99.12	0.04	0	0	0	0.79
2002	273	23	863	325.509	-431.992	D	7.337	7.337	0	2.755	42.58	0	0	0	0	0.35
2002	274	23	1	318.65	-445.782	D	6.966	6.966	0	1.989	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.239	7.239	0	2.549	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.523	7.523	0	3.151	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	9.147	9.147	0	6.929	0	0	0	0	0	0
2002	278	23	2750	334.007	-424.696	D	7.05	7.05	0.001	2.16	90.82	5.1	0	0	0	4.15
2002	279	23	2552	324.659	-442.591	D	6.803	6.802	0	1.66	97.14	0.23	0	0	0	2.23
2002	280	23	2789	340.496	-426.449	D	6.83	6.829	0.001	1.713	92.88	1.59	0	0	0	5.55
2002	281	23	1	318.65	-445.782	D	6.562	6.562	0	1.186	0	0	0	0	0	0
2002	282	23	1	318.65	-445.782	D	8.768	8.768	0	5.993	0	0	0	0	0	0
2002	283	23	2338	337.551	-428.716	D	9.974	9.974	0	9.103	92.68	0.66	0	0	0	0.23
2002	284	23	375	322.611	-445.359	D	9.433	9.433	0	7.662	94.52	0.52	0	0	0	0.17
2002	285	23	1046	326.812	-427.688	D	9.02	9.02	0	6.61	80.14	3.2	0	0	0	1.39
2002	286	23	2589	318.383	-445.593	D	7.886	7.886	0.001	3.942	96.48	3.04	0	0	0	0.54
2002	287	23	1	318.65	-445.782	D	6.522	6.522	0	1.109	0	0	0	0	0	0
2002	288	23	2787	340.091	-426.447	D	6.504	6.504	0	1.073	84.53	0.96	0	0	0	13.58
2002	289	23	2236	336.149	-430.776	D	6.554	6.554	0	1.17	44.18	0.24	0	0	0	2.41
2002	290	23	1	318.65	-445.782	D	6.977	6.977	0	2.01	48.9	0.02	0	0	0	2.05
2002	291	23	889	325.746	-431.731	D	6.636	6.636	0	1.331	94.65	0.58	0	0	0	2.23
2002	292	23	2781	339.842	-425.379	D	9.743	9.74	0.002	8.47	96.81	2.66	0	0	0	0.5
2002	293	23	2588	318.452	-445.8	D	9.404	9.4	0.004	7.576	97.63	2	0	0	0	0.3

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	294	23	2589	318.383	-445.593	D	6.975	6.975	0	2.008	97.49	0.76	0	0	0	1.07
2002	295	23	1	318.65	-445.782	D	7.449	7.448	0	2.991	98.37	0.53	0	0	0	0.6
2002	296	23	1	318.65	-445.782	D	7.031	7.031	0	2.121	93.04	0.21	0	0	0	0.72
2002	297	23	1	318.65	-445.782	D	6.76	6.76	0	1.575	0	0	0	0	0	0
2002	298	23	2684	326.713	-427.014	D	9.664	9.657	0.007	8.249	96.3	3.06	0	0	0	0.66
2002	299	23	2789	340.496	-426.449	D	9.38	9.336	0.045	7.41	95.86	3.65	0	0	0	0.48
2002	300	23	2597	318.971	-443.851	D	9.144	9.124	0.02	6.872	97.77	1.77	0	0	0	0.45
2002	301	23	2628	320.933	-436.998	D	10.226	10.218	0.008	9.779	98.29	1.46	0	0	0	0.22
2002	302	23	2588	318.452	-445.8	D	9.779	9.773	0.006	8.559	98.49	1.27	0	0	0	0.22
2002	303	23	13	319.06	-443.766	D	9.121	9.121	0	6.864	99.09	0.88	0	0	0	0.23
2002	304	23	2597	318.971	-443.851	D	9.103	9.1	0.003	6.81	95.33	4.27	0	0	0	0.38
2002	305	23	1	318.65	-445.782	D	7.72	7.72	0	3.576	0	0	0	0	0	0
2002	306	23	2707	329.748	-425.023	D	7.767	7.765	0.001	3.676	91.66	5.98	0	0	0	2.2
2002	307	23	2757	335.63	-424.484	D	10.218	10.218	0	9.779	94.34	3.88	0	0	0	0.35
2002	308	23	2781	339.842	-425.379	D	9.253	9.252	0.001	7.196	96.48	2.84	0	0	0	0.43
2002	309	23	2789	340.496	-426.449	D	9.324	9.322	0.002	7.375	97.21	2.5	0	0	0	0.28
2002	310	23	2781	339.842	-425.379	D	8.089	8.086	0.003	4.392	96.29	3.17	0	0	0	0.56
2002	311	23	2274	336.179	-425.778	D	6.541	6.541	0	1.146	76.74	0.7	0	0	0	1.88
2002	312	23	863	325.509	-431.992	D	6.698	6.698	0	1.452	13.68	0.16	0	0	0	0.22
2002	313	23	1	318.65	-445.782	D	9.044	9.044	0	6.672	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	9.306	9.306	0	7.334	0	0	0	0	0	0
2002	315	23	2361	337.679	-425.962	D	6.809	6.809	0	1.673	62.32	2.01	0	0	0	3.38
2002	316	23	13	319.06	-443.766	D	6.622	6.621	0.001	1.302	85.67	6.8	0	0	0	7.44
2002	317	23	2787	340.091	-426.447	D	6.607	6.607	0	1.274	85.02	3.95	0	0	0	9.32
2002	318	23	1	318.65	-445.782	D	7.01	7.01	0	2.079	0	0	0	0	0	0
2002	319	23	1048	326.791	-427.189	D	9.47	9.469	0.001	7.754	92.48	6.63	0	0	0	0.63
2002	320	23	1549	330.211	-425.79	D	8.906	8.906	0	6.33	55.41	3.3	0	0	0	5.75
2002	321	23	2418	339.946	-426.612	D	6.722	6.721	0	1.499	84.83	8.91	0	0	0	5.6
2002	322	23	1	318.65	-445.782	D	6.826	6.826	0	1.707	0	0	0	0	0	0
2002	323	23	2789	340.496	-426.449	D	6.831	6.829	0.003	1.713	87.6	6.68	0	0	0	5.71
2002	324	23	2418	339.946	-426.612	D	6.493	6.493	0	1.053	88.02	2.17	0	0	0	8.73
2002	325	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	326	23	1048	326.791	-427.189	D	7.006	7.006	0	2.07	82.73	5.75	0	0	0	11.17
2002	327	23	2209	335.38	-424.564	D	6.54	6.539	0.001	1.143	86.03	6.58	0	0	0	7.16
2002	328	23	1549	330.211	-425.79	D	6.63	6.629	0	1.318	86.95	2.57	0	0	0	4
2002	329	23	140	320.874	-445.435	D	7.361	7.36	0	2.804	93.41	4.68	0	0	0	1.02
2002	330	23	2585	319.192	-445.743	D	6.648	6.647	0	1.353	86.29	5.6	0	0	0	6.48
2002	331	23	13	319.06	-443.766	D	6.899	6.899	0	1.853	88.68	6.27	0	0	0	4.04
2002	332	23	1445	329.477	-426.072	D	6.587	6.587	0	1.235	91.45	3.56	0	0	0	3.27

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	333	23	2274	336.179	-425.778	D	6.593	6.593	0	1.247	74.2	1.84	0	0	0	2.62
2002	334	23	1	318.65	-445.782	D	6.662	6.662	0	1.382	0	0	0	0	0	0
2002	335	23	2413	339.406	-425.637	D	6.503	6.503	0	1.072	26.32	5.27	0	0	0	5.82
2002	336	23	1	318.65	-445.782	D	6.496	6.496	0	1.058	0	0	0	0	0	0
2002	337	23	2694	327.861	-425.964	D	7.101	7.101	0	2.264	84.96	9.83	0	0	0	5.27
2002	338	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	339	23	2628	320.933	-436.998	D	8.586	8.586	0	5.553	69.28	8.01	0	0	0	3.96
2002	340	23	2448	335.908	-431.021	D	8.927	8.925	0.002	6.375	89.84	9.1	0	0	0	1.08
2002	341	23	1800	332.612	-435.178	D	7.166	7.166	0	2.399	84.92	4.73	0	0	0	2.55
2002	342	23	2757	335.63	-424.484	D	7.48	7.48	0	3.058	94.85	3.59	0	0	0	0.48
2002	343	23	2706	329.518	-425.046	D	8.55	8.547	0.003	5.461	95.9	3.71	0	0	0	0.39
2002	344	23	2694	327.861	-425.964	D	6.873	6.873	0	1.801	96.53	2.86	0	0	0	1.18
2002	345	23	1242	327.988	-426.138	D	8.131	8.131	0	4.493	96.69	2.5	0	0	0	0.41
2002	346	23	2097	334.452	-426.104	D	8.216	8.216	0	4.689	96.93	1.92	0	0	0	0.37
2002	347	23	2599	318.958	-443.364	D	9.458	9.457	0.001	7.724	96.93	2.34	0	0	0	0.51
2002	348	23	2597	318.971	-443.851	D	9.281	9.264	0.017	7.226	95.77	3.76	0	0	0	0.48
2002	349	23	2788	340.294	-426.448	D	7.073	7.073	0	2.206	95.81	1.95	0	0	0	1.49
2002	350	23	1	318.65	-445.782	D	9.107	9.107	0	6.829	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	9.67	9.67	0	8.285	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	9.899	9.899	0	8.899	0	0	0	0	0	0
2002	353	23	1	318.65	-445.782	D	8.345	8.345	0	4.987	0	0	0	0	0	0
2002	354	23	1	318.65	-445.782	D	6.783	6.783	0	1.622	0	0	0	0	0	0
2002	355	23	1	318.65	-445.782	D	6.532	6.532	0	1.128	0	0	0	0	0	0
2002	356	23	2781	339.842	-425.379	D	7.011	7.01	0.001	2.078	78.75	13.62	0	0	0	7.49
2002	357	23	1	318.65	-445.782	D	7.591	7.59	0	3.295	89.63	8.16	0	0	0	1.95
2002	358	23	1	318.65	-445.782	D	9.674	9.673	0.001	8.292	90.35	9.12	0	0	0	0.53
2002	359	23	2588	318.452	-445.8	D	7.605	7.604	0.001	3.324	88.29	10.03	0	0	0	1.7
2002	360	23	1	318.65	-445.782	D	6.825	6.825	0	1.705	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	6.876	6.876	0	1.807	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.067	7.067	0	2.195	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.04	7.04	0	2.14	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	10.069	10.069	0	9.364	0	0	0	0	0	0
2002	365	23	1548	330.222	-426.04	D	8.825	8.824	0.001	6.128	93.81	5.42	0	0	0	0.55
									0.056							
TRIGEN KC											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	2628	320.933	-436.998	D	6.88	6.878	0.003	1.811	87.28	11.49	0	0	0	1.23

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	2	23	2718	331.403	-426.104	D	6.92	6.892	0.027	1.84	92.02	7.49	0	0	0	0.48
2002	3	23	2704	329.056	-425.092	D	7.309	7.295	0.014	2.667	93.64	6.12	0	0	0	0.24
2002	4	23	2789	340.496	-426.449	D	6.811	6.809	0.002	1.673	95.66	4.06	0	0	0	0.25
2002	5	23	2373	337.927	-425.951	D	7.74	7.74	0	3.62	81.65	2.84	0	0	0	0.12
2002	6	23	2789	340.496	-426.449	D	9.625	9.605	0.02	8.11	95.52	4.4	0	0	0	0.08
2002	7	23	2395	338.435	-426.179	D	7.959	7.93	0.029	4.04	93.43	6.33	0	0	0	0.24
2002	8	23	2789	340.496	-426.449	D	6.875	6.874	0	1.804	91.77	7.67	0	0	0	0.48
2002	9	23	1	318.65	-445.782	D	6.877	6.877	0	1.81	0	0	0	0	0	0
2002	10	23	2704	329.056	-425.092	D	9.406	9.393	0.013	7.557	97.49	2.43	0	0	0	0.07
2002	11	23	2683	326.705	-427.245	D	7.322	7.306	0.016	2.691	83.5	15.63	0	0	0	0.86
2002	12	23	2789	340.496	-426.449	D	6.769	6.768	0.001	1.591	94.7	4.73	0	0	0	0.67
2002	13	23	1	318.65	-445.782	D	7.018	7.018	0	2.094	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	6.95	6.95	0	1.957	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	6.62	6.62	0	1.299	0	0	0	0	0	0
2002	16	23	2319	336.935	-425.995	D	6.589	6.589	0	1.239	88.6	5.46	0	0	0	0.51
2002	17	23	2596	318.977	-444.095	D	7.004	6.997	0.007	2.053	89.36	9.95	0	0	0	0.66
2002	18	23	2694	327.861	-425.964	D	8.734	8.733	0.001	5.906	93.85	6	0	0	0	0.06
2002	19	23	2709	330.21	-424.978	D	8.962	8.957	0.006	6.455	96.37	3.46	0	0	0	0.14
2002	20	23	2781	339.842	-425.379	D	9.008	8.882	0.127	6.27	95.42	4.52	0	0	0	0.05
2002	21	23	2779	339.386	-425.461	D	7.26	7.26	0	2.594	96.09	2.56	0	0	0	0.07
2002	22	23	1	318.65	-445.782	D	7.001	7.001	0	2.059	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	9.862	9.862	0	8.798	0	0	0	0	0	0
2002	24	23	2589	318.383	-445.593	D	9.407	9.399	0.008	7.573	95.79	4.14	0	0	0	0.04
2002	25	23	2555	324.03	-442.528	D	6.886	6.881	0.005	1.817	93.56	6.12	0	0	0	0.32
2002	26	23	1951	333.842	-434.874	D	6.707	6.706	0	1.47	96.45	2.38	0	0	0	0.33
2002	27	23	2176	335.197	-426.071	D	6.638	6.638	0	1.335	60.72	0.85	0	0	0	0.22
2002	28	23	1	318.65	-445.782	D	7.081	7.081	0	2.223	0	0	0	0	0	0
2002	29	23	2704	329.056	-425.092	D	9.852	9.851	0.001	8.769	95.34	4.49	0	0	0	0.05
2002	30	23	2704	329.056	-425.092	D	10.332	10.218	0.114	9.779	95.87	4.09	0	0	0	0.04
2002	31	23	2589	318.383	-445.593	D	10.314	10.176	0.138	9.662	97.61	2.36	0	0	0	0.02
2002	32	23	2789	340.496	-426.449	D	7.506	7.502	0.004	3.105	97.76	2.22	0	0	0	0.02
2002	33	23	2788	340.294	-426.448	D	7.088	7.088	0	2.237	96.71	2.53	0	0	0	0.42
2002	34	23	2789	340.496	-426.449	D	6.817	6.817	0.001	1.688	97.84	2.28	0	0	0	0.2
2002	35	23	2597	318.971	-443.851	D	6.911	6.908	0.003	1.873	79.7	19.31	0	0	0	0.97
2002	36	23	1048	326.791	-427.189	D	6.815	6.815	0	1.685	63.51	3.29	0	0	0	0.26
2002	37	23	234	321.01	-437.185	D	9.611	9.611	0	8.127	95.67	3.59	0	0	0	0.05
2002	38	23	2781	339.842	-425.379	D	9.411	9.408	0.003	7.597	97.08	2.74	0	0	0	0.1
2002	39	23	2789	340.496	-426.449	D	7.657	7.655	0.003	3.434	97.67	2.26	0	0	0	0.08
2002	40	23	2235	335.628	-424.554	D	9.377	9.376	0	7.515	98.41	1.24	0	0	0	0.02

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	41	23	2789	340.496	-426.449	D	8.091	8.091	0	4.403	94.27	2.51	0	0	0	0.32
2002	42	23	2789	340.496	-426.449	D	7.58	7.575	0.005	3.262	94.57	5.19	0	0	0	0.25
2002	43	23	2758	335.862	-424.454	D	6.616	6.614	0.001	1.288	95.16	4.15	0	0	0	0.7
2002	44	23	2588	318.452	-445.8	D	6.729	6.728	0.001	1.512	94.12	5.11	0	0	0	0.77
2002	45	23	2704	329.056	-425.092	D	6.593	6.591	0.002	1.243	92.75	6.54	0	0	0	0.64
2002	46	23	1	318.65	-445.782	D	7.064	7.064	0	2.189	0	0	0	0	0	0
2002	47	23	1	318.65	-445.782	D	6.737	6.737	0	1.53	0	0	0	0	0	0
2002	48	23	1979	333.536	-427.893	D	6.567	6.564	0.003	1.191	90.59	7.96	0	0	0	1.49
2002	49	23	1414	329.196	-425.335	D	6.632	6.631	0.001	1.322	96.35	3.05	0	0	0	0.49
2002	50	23	1	318.65	-445.782	D	8.708	8.708	0	5.847	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	9.05	9.05	0	6.686	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	6.911	6.911	0	1.879	0	0	0	0	0	0
2002	53	23	2589	318.383	-445.593	D	6.78	6.779	0.001	1.614	87.42	11.03	0	0	0	1.53
2002	54	23	2661	325.283	-432.004	D	6.699	6.697	0.002	1.45	94.76	4.68	0	0	0	0.44
2002	55	23	2789	340.496	-426.449	D	6.794	6.794	0	1.643	97.4	2.24	0	0	0	0.23
2002	56	23	2589	318.383	-445.593	D	8.091	8.076	0.015	4.369	93.62	6.27	0	0	0	0.1
2002	57	23	1552	330.178	-425.042	D	7.672	7.666	0.006	3.459	91.08	8.61	0	0	0	0.3
2002	58	23	1	318.65	-445.782	D	6.708	6.708	0	1.472	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	6.508	6.508	0	1.082	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.98	7.98	0	4.153	0	0	0	0	0	0
2002	61	23	2789	340.496	-426.449	D	9.789	9.765	0.024	8.538	94.94	4.95	0	0	0	0.11
2002	62	23	2789	340.496	-426.449	D	7.315	7.314	0.001	2.707	96.93	3	0	0	0	0.15
2002	63	23	1	318.65	-445.782	D	7.154	7.154	0	2.374	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	6.603	6.603	0	1.266	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.141	7.141	0	2.346	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	9.603	9.603	0	8.106	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	8.845	8.845	0	6.18	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	6.753	6.753	0	1.563	0	0	0	0	0	0
2002	70	23	2781	339.842	-425.379	D	7.351	7.35	0.001	2.783	94.48	5.03	0	0	0	0.39
2002	71	23	89	319.9	-440.231	D	9.352	9.352	0	7.453	97.51	0.46	0	0	0	0.49
2002	72	23	2783	339.861	-425.806	D	6.87	6.863	0.006	1.782	97.52	2.17	0	0	0	0.26
2002	73	23	2788	340.294	-426.448	D	7.979	7.979	0	4.15	99	0.48	0	0	0	0.12
2002	74	23	2589	318.383	-445.593	D	10.103	10.09	0.013	9.423	95.18	4.74	0	0	0	0.06
2002	75	23	2571	322.646	-445.476	D	7.792	7.789	0.003	3.728	97.38	2.59	0	0	0	0.05
2002	76	23	2789	340.496	-426.449	D	8.355	8.355	0	5.009	97.35	2.12	0	0	0	0.02
2002	77	23	2789	340.496	-426.449	D	9.467	9.466	0	7.748	90.13	0.59	0	0	0	0.04
2002	78	23	2789	340.496	-426.449	D	10.218	10.218	0	9.779	97.71	1.21	0	0	0	0.01
2002	79	23	2589	318.383	-445.593	D	9.393	9.393	0	7.557	96.58	2.8	0	0	0	0.02

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	80	23	2762	336.074	-425.006	D	8.351	8.342	0.009	4.98	95.39	4.43	0	0	0	0.18
2002	81	23	2684	326.713	-427.014	D	6.534	6.533	0.001	1.131	90.54	8.2	0	0	0	1.2
2002	82	23	2695	328.074	-426.025	D	6.872	6.868	0.004	1.791	93.48	6.22	0	0	0	0.29
2002	83	23	2784	339.87	-426.019	D	8.662	8.662	0	5.737	97.26	1.5	0	0	0	0.12
2002	84	23	1415	329.185	-425.086	D	10.219	10.218	0.001	9.779	97.48	2.14	0	0	0	0.01
2002	85	23	2708	329.979	-425	D	8.643	8.641	0.002	5.686	98.02	1.86	0	0	0	0.01
2002	86	23	2684	326.713	-427.014	D	7.939	7.922	0.017	4.022	97.1	2.84	0	0	0	0.06
2002	87	23	2627	320.879	-437.207	D	7.253	7.253	0	2.579	99.27	0.43	0	0	0	0.12
2002	88	23	2684	326.713	-427.014	D	8.743	8.74	0.003	5.924	99.65	0.21	0	0	0	0.15
2002	89	23	2588	318.452	-445.8	D	7.673	7.669	0.003	3.466	99.57	0.35	0	0	0	0.08
2002	90	23	2704	329.056	-425.092	D	8.365	8.365	0	5.034	98.74	0.35	0	0	0	0.75
2002	91	23	2789	340.496	-426.449	D	6.726	6.723	0.003	1.502	98.24	1.35	0	0	0	0.44
2002	92	23	2789	340.496	-426.449	D	7.654	7.637	0.017	3.396	98.78	1.04	0	0	0	0.18
2002	93	23	2571	322.646	-445.476	D	6.699	6.697	0.001	1.452	99.12	0.72	0	0	0	0.14
2002	94	23	1	318.65	-445.782	D	6.669	6.669	0	1.395	0	0	0	0	0	0
2002	95	23	1	318.65	-445.782	D	6.574	6.574	0	1.209	0	0	0	0	0	0
2002	96	23	2781	339.842	-425.379	D	6.554	6.554	0	1.171	98.1	0.77	0	0	0	0.28
2002	97	23	2788	340.294	-426.448	D	8.245	8.245	0	4.755	99.61	0.62	0	0	0	0.16
2002	98	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	99	23	2589	318.383	-445.593	D	9.238	9.117	0.121	6.854	97.84	2.12	0	0	0	0.03
2002	100	23	1	318.65	-445.782	D	7.563	7.563	0	3.237	0	0	0	0	0	0
2002	101	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0
2002	102	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	103	23	2758	335.862	-424.454	D	9.391	9.389	0.001	7.547	97.75	2.17	0	0	0	0.04
2002	104	23	1415	329.185	-425.086	D	9.135	9.135	0	6.898	99.35	0.2	0	0	0	0.03
2002	105	23	1	318.65	-445.782	D	8.516	8.516	0	5.389	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.596	7.596	0	3.307	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	8.247	8.247	0	4.758	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	8.641	8.641	0	5.687	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.663	7.663	0	3.453	0	0	0	0	0	0
2002	110	23	2684	326.713	-427.014	D	9.478	9.477	0.001	7.776	98.28	1.34	0	0	0	0.05
2002	111	23	2707	329.748	-425.023	D	8.318	8.313	0.005	4.912	98.88	1.05	0	0	0	0.07
2002	112	23	2781	339.842	-425.379	D	6.877	6.877	0	1.81	96.1	0.27	0	0	0	0.4
2002	113	23	2783	339.861	-425.806	D	7.251	7.247	0.005	2.566	99.52	0.3	0	0	0	0.16
2002	114	23	2758	335.862	-424.454	D	8.871	8.871	0	6.243	101.05	0.68	0	0	0	0.16
2002	115	23	2704	329.056	-425.092	D	6.767	6.765	0.002	1.586	98.93	0.92	0	0	0	0.18
2002	116	23	1	318.65	-445.782	D	7.832	7.832	0	3.822	0	0	0	0	0	0
2002	117	23	1	318.65	-445.782	D	9.613	9.613	0	8.132	0	0	0	0	0	0
2002	118	23	1	318.65	-445.782	D	8.893	8.893	0	6.297	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	119	23	2781	339.842	-425.379	D	6.789	6.783	0.006	1.621	98.99	0.66	0	0	0	0.34
2002	120	23	2758	335.862	-424.454	D	7.905	7.903	0.002	3.98	99.72	0.11	0	0	0	0.12
2002	121	23	2041	333.901	-424.879	D	9.301	9.301	0	7.322	84.67	0.13	0	0	0	0.04
2002	122	23	2789	340.496	-426.449	D	8.903	8.806	0.097	6.083	98.04	1.93	0	0	0	0.04
2002	123	23	2588	318.452	-445.8	D	7.248	7.228	0.02	2.527	99.6	0.32	0	0	0	0.06
2002	124	23	2588	318.452	-445.8	D	9.194	9.125	0.069	6.875	99.36	0.63	0	0	0	0.02
2002	125	23	454	323.042	-443.841	D	8.435	8.409	0.027	5.135	99.63	0.35	0	0	0	0.02
2002	126	23	2255	335.942	-426.039	D	8.491	8.488	0.003	5.322	99.91	0.04	0	0	0	0.01
2002	127	23	1	318.65	-445.782	D	8.423	8.423	0	5.168	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	129	23	2661	325.283	-432.004	D	8.447	8.444	0.002	5.219	93.54	6.27	0	0	0	0.15
2002	130	23	2589	318.383	-445.593	D	7.02	7.019	0.001	2.097	98.83	0.63	0	0	0	0.16
2002	131	23	2758	335.862	-424.454	D	8.437	8.437	0	5.201	99.19	0.38	0	0	0	0.03
2002	132	23	1	318.65	-445.782	D	9.38	9.38	0	7.523	0	0	0	0	0	0
2002	133	23	2707	329.748	-425.023	D	8.635	8.602	0.033	5.592	98.09	1.88	0	0	0	0.02
2002	134	23	1	318.65	-445.782	D	6.748	6.747	0.001	1.551	99.12	0.39	0	0	0	0.47
2002	135	23	2448	335.908	-431.021	D	6.835	6.833	0.002	1.722	99.57	0.22	0	0	0	0.16
2002	136	23	1	318.65	-445.782	D	7.384	7.384	0	2.855	0	0	0	0	0	0
2002	137	23	1	318.65	-445.782	D	10.134	10.134	0	9.545	92.4	0.64	0	0	0	0.02
2002	138	23	1	318.65	-445.782	D	7.964	7.964	0	4.116	0	0	0	0	0	0
2002	139	23	2684	326.713	-427.014	D	6.865	6.861	0.003	1.778	99.36	0.19	0	0	0	0.45
2002	140	23	2789	340.496	-426.449	D	6.913	6.892	0.02	1.841	98.63	1.13	0	0	0	0.25
2002	141	23	2588	318.452	-445.8	D	6.725	6.72	0.005	1.496	99.57	0.2	0	0	0	0.22
2002	142	23	2626	320.826	-437.417	D	6.706	6.703	0.002	1.463	99.66	0.13	0	0	0	0.12
2002	143	23	1	318.65	-445.782	D	6.812	6.812	0	1.679	0	0	0	0	0	0
2002	144	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2002	145	23	2709	330.21	-424.978	D	8.32	8.303	0.017	4.889	99.69	0.21	0	0	0	0.1
2002	146	23	2789	340.496	-426.449	D	8.524	8.505	0.019	5.362	99.53	0.42	0	0	0	0.04
2002	147	23	2789	340.496	-426.449	D	8.979	8.977	0.001	6.505	99.72	0.24	0	0	0	0.02
2002	148	23	1	318.65	-445.782	D	8.901	8.901	0	6.317	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	9.28	9.28	0	7.267	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	8.533	8.533	0	5.428	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.158	7.158	0	2.382	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.878	7.878	0	3.924	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	8.029	8.029	0	4.264	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.439	7.439	0	2.97	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.015	7.015	0	2.089	0	0	0	0	0	0
2002	156	23	2704	329.056	-425.092	D	9.114	9.113	0	6.844	99.73	0.1	0	0	0	0.04
2002	157	23	2628	320.933	-436.998	D	8.799	8.786	0.014	6.035	99.25	0.71	0	0	0	0.03

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	158	23	2625	320.772	-437.626	D	6.904	6.903	0.001	1.862	99.5	0.04	0	0	0	0.15
2002	159	23	67	319.674	-440.741	D	6.908	6.908	0	1.871	99.23	0.03	0	0	0	0.07
2002	160	23	1242	327.988	-426.138	D	7.62	7.62	0	3.359	54.72	0	0	0	0	0.03
2002	161	23	1	318.65	-445.782	D	9.508	9.508	0	7.855	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	8.531	8.531	0	5.424	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	8.238	8.238	0	4.74	0	0	0	0	0	0
2002	164	23	2255	335.942	-426.039	D	8.141	8.141	0	4.517	98.92	0.01	0	0	0	0.09
2002	165	23	606	323.785	-438.063	D	7.616	7.575	0.041	3.261	99.48	0.48	0	0	0	0.04
2002	166	23	2397	338.413	-425.68	D	6.696	6.695	0.001	1.447	96.98	1.55	0	0	0	1.4
2002	167	23	2571	322.646	-445.476	D	6.744	6.744	0.001	1.543	99.34	0.06	0	0	0	0.23
2002	168	23	2781	339.842	-425.379	D	6.761	6.754	0.007	1.564	99.63	0.13	0	0	0	0.22
2002	169	23	2789	340.496	-426.449	D	6.722	6.716	0.006	1.488	99.79	0.03	0	0	0	0.17
2002	170	23	2781	339.842	-425.379	D	6.887	6.885	0.002	1.825	99.91	0.05	0	0	0	0.1
2002	171	23	452	322.413	-435.125	D	7.52	7.52	0	3.145	56.8	0	0	0	0	0.07
2002	172	23	1	318.65	-445.782	D	8.033	8.033	0	4.272	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.251	7.251	0	2.574	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.025	7.025	0	2.108	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	8.073	8.073	0	4.363	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	8.808	8.808	0	6.089	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	8.838	8.838	0	6.163	0	0	0	0	0	0
2002	179	23	2789	340.496	-426.449	D	7.874	7.874	0	3.915	99.77	0.02	0	0	0	0.15
2002	180	23	2789	340.496	-426.449	D	7.984	7.983	0.001	4.16	100	0.03	0	0	0	0.08
2002	181	23	1	318.65	-445.782	D	8.264	8.264	0	4.798	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	6.882	6.882	0	1.82	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	6.978	6.978	0	2.014	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	8.892	8.892	0	6.295	0	0	0	0	0	0
2002	185	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2002	186	23	1	318.65	-445.782	D	8.01	8.01	0	4.221	0	0	0	0	0	0
2002	187	23	1	318.65	-445.782	D	7.431	7.431	0	2.954	0	0	0	0	0	0
2002	188	23	1	318.65	-445.782	D	7.851	7.851	0	3.864	0	0	0	0	0	0
2002	189	23	1	318.65	-445.782	D	6.865	6.865	0	1.786	0	0	0	0	0	0
2002	190	23	1	318.65	-445.782	D	6.746	6.746	0	1.548	0	0	0	0	0	0
2002	191	23	1	318.65	-445.782	D	6.966	6.966	0	1.988	0	0	0	0	0	0
2002	192	23	2789	340.496	-426.449	D	7.747	7.745	0.003	3.631	99.44	0.42	0	0	0	0.08
2002	193	23	2789	340.496	-426.449	D	8.496	8.484	0.011	5.313	99.81	0.13	0	0	0	0.04
2002	194	23	2789	340.496	-426.449	D	9.328	9.321	0.007	7.372	99.55	0.38	0	0	0	0.02
2002	195	23	660	324.477	-442.529	D	8.908	8.907	0.001	6.331	99.79	0.08	0	0	0	0.02
2002	196	23	68	320.129	-445.468	D	8.017	8.017	0	4.235	99.08	0.2	0	0	0	0.04

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	197	23	891	326.256	-437.705	D	7.421	7.421	0	2.932	98.62	0.03	0	0	0	0.04
2002	198	23	2418	339.946	-426.612	D	9.313	9.313	0	7.352	99.01	0.03	0	0	0	0.01
2002	199	23	1	318.65	-445.782	D	8.871	8.871	0	6.243	0	0	0	0	0	0
2002	200	23	1	318.65	-445.782	D	9.09	9.09	0	6.785	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.7	7.7	0	3.533	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.888	7.888	0	3.947	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.159	7.159	0	2.385	0	0	0	0	0	0
2002	204	23	2706	329.518	-425.046	D	7.12	7.119	0.001	2.301	99.62	0.05	0	0	0	0.18
2002	205	23	2571	322.646	-445.476	D	7.47	7.459	0.012	3.013	99.85	0.09	0	0	0	0.06
2002	206	23	37	319.567	-443.993	D	7.233	7.231	0.003	2.532	99.81	0.1	0	0	0	0.07
2002	207	23	2789	340.496	-426.449	D	7.074	7.07	0.004	2.202	99.9	0.02	0	0	0	0.07
2002	208	23	2788	340.294	-426.448	D	7.873	7.872	0.001	3.912	99.55	0.04	0	0	0	0.05
2002	209	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.824	7.824	0	3.806	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	8.482	8.482	0	5.307	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.166	7.166	0	2.398	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.644	7.644	0	3.411	0	0	0	0	0	0
2002	214	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	215	23	1	318.65	-445.782	D	7.971	7.971	0	4.133	0	0	0	0	0	0
2002	216	23	1	318.65	-445.782	D	7.347	7.347	0	2.775	0	0	0	0	0	0
2002	217	23	1	318.65	-445.782	D	7.34	7.34	0	2.761	0	0	0	0	0	0
2002	218	23	1551	330.189	-425.292	D	6.805	6.805	0	1.664	90.4	0.07	0	0	0	0.13
2002	219	23	2684	326.713	-427.014	D	8.625	8.625	0	5.648	99.43	0.06	0	0	0	0.04
2002	220	23	1	318.65	-445.782	D	6.92	6.92	0	1.895	0	0	0	0	0	0
2002	221	23	1	318.65	-445.782	D	6.724	6.724	0	1.505	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.045	7.045	0	2.15	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.191	7.191	0	2.45	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	6.912	6.912	0	1.88	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	8.619	8.619	0	5.634	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	9.936	9.936	0	9	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	8.318	8.318	0	4.925	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	8.739	8.739	0	5.922	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	8.63	8.63	0	5.658	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.926	7.926	0	4.031	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	6.941	6.941	0	1.939	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	6.972	6.972	0	2.001	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.651	7.651	0	3.426	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.084	7.084	0	2.23	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	236	23	2255	335.942	-426.039	D	7.952	7.906	0.046	3.987	99.83	0.08	0	0	0	0.09
2002	237	23	2468	334.002	-434.887	D	8.689	8.661	0.028	5.735	99.78	0.17	0	0	0	0.05
2002	238	23	2373	337.927	-425.951	D	7.797	7.797	0	3.746	54.19	0.03	0	0	0	0.02
2002	239	23	1	318.65	-445.782	D	6.98	6.98	0	2.017	0	0	0	0	0	0
2002	240	23	1	318.65	-445.782	D	7.508	7.508	0	3.117	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.124	7.124	0	2.313	0	0	0	0	0	0
2002	242	23	1	318.65	-445.782	D	7.14	7.14	0	2.344	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.361	7.361	0	2.805	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.134	7.134	0	2.332	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	6.909	6.909	0	1.875	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	6.972	6.972	0	2.002	0	0	0	0	0	0
2002	247	23	2708	329.979	-425	D	6.925	6.925	0	1.906	99.42	0.01	0	0	0	0.32
2002	248	23	2212	335.879	-430.288	D	7.338	7.337	0.001	2.756	99.3	0.02	0	0	0	0.11
2002	249	23	1	318.65	-445.782	D	6.798	6.797	0	1.65	99.75	0.01	0	0	0	0.12
2002	250	23	1	318.65	-445.782	D	6.737	6.737	0	1.53	0	0	0	0	0	0
2002	251	23	1	318.65	-445.782	D	7.423	7.423	0	2.937	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.171	7.171	0	2.409	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.202	7.202	0	2.474	0	0	0	0	0	0
2002	254	23	2781	339.842	-425.379	D	7.074	7.068	0.006	2.196	98.83	0.95	0	0	0	0.22
2002	255	23	305	322.115	-445.381	D	8.076	8.076	0	4.368	99.36	0.01	0	0	0	0.19
2002	256	23	2589	318.383	-445.593	D	6.68	6.68	0	1.418	99.6	0.03	0	0	0	0.22
2002	257	23	1048	326.791	-427.189	D	6.666	6.666	0	1.389	97.82	0.03	0	0	0	0.15
2002	258	23	2684	326.713	-427.014	D	8.379	8.372	0.008	5.048	99.54	0.31	0	0	0	0.13
2002	259	23	96	320.312	-443.961	D	8.521	8.462	0.059	5.26	99.59	0.35	0	0	0	0.05
2002	260	23	2762	336.074	-425.006	D	7.858	7.812	0.046	3.779	99.71	0.24	0	0	0	0.05
2002	261	23	2789	340.496	-426.449	D	8.444	8.444	0.001	5.217	99.75	0.22	0	0	0	0.06
2002	262	23	1	318.65	-445.782	D	9.39	9.39	0	7.549	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	9.262	9.262	0	7.221	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	6.8	6.8	0	1.655	0	0	0	0	0	0
2002	265	23	2627	320.879	-437.207	D	6.791	6.786	0.005	1.628	99.48	0.31	0	0	0	0.2
2002	266	23	2684	326.713	-427.014	D	6.605	6.605	0	1.27	99.85	0.15	0	0	0	0.76
2002	267	23	2756	335.398	-424.515	D	6.55	6.549	0	1.161	99.1	0.29	0	0	0	0.45
2002	268	23	2758	335.862	-424.454	D	6.827	6.826	0.001	1.708	99.55	0.19	0	0	0	0.21
2002	269	23	1	318.65	-445.782	D	7.39	7.39	0	2.867	0	0	0	0	0	0
2002	270	23	2684	326.713	-427.014	D	7.392	7.39	0.002	2.868	99.54	0.03	0	0	0	0.43
2002	271	23	2704	329.056	-425.092	D	6.813	6.804	0.01	1.663	99.62	0.14	0	0	0	0.22
2002	272	23	1	318.65	-445.782	D	7.197	7.197	0	2.463	0	0	0	0	0	0
2002	273	23	1	318.65	-445.782	D	7.371	7.371	0	2.827	0	0	0	0	0	0
2002	274	23	1	318.65	-445.782	D	6.966	6.966	0	1.989	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	275	23	1	318.65	-445.782	D	7.239	7.239	0	2.549	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.523	7.523	0	3.151	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	9.147	9.147	0	6.929	0	0	0	0	0	0
2002	278	23	2443	336.27	-430.011	D	7.044	7.043	0.001	2.146	90.83	8.64	0	0	0	0.56
2002	279	23	2563	323.259	-443.79	D	6.803	6.801	0.002	1.658	99.44	0.25	0	0	0	0.31
2002	280	23	2684	326.713	-427.014	D	6.823	6.818	0.004	1.692	97.47	1.74	0	0	0	0.79
2002	281	23	1	318.65	-445.782	D	6.562	6.562	0	1.186	0	0	0	0	0	0
2002	282	23	1	318.65	-445.782	D	8.768	8.768	0	5.993	0	0	0	0	0	0
2002	283	23	2788	340.294	-426.448	D	9.974	9.974	0.001	9.103	99.15	0.43	0	0	0	0.02
2002	284	23	2467	334.065	-434.651	D	9.417	9.417	0	7.619	99.02	0.32	0	0	0	0.01
2002	285	23	1	318.65	-445.782	D	9.046	9.046	0	6.677	0	0	0	0	0	0
2002	286	23	2589	318.383	-445.593	D	7.914	7.886	0.029	3.942	98.08	1.88	0	0	0	0.04
2002	287	23	1	318.65	-445.782	D	6.522	6.522	0	1.109	0	0	0	0	0	0
2002	288	23	235	321.618	-445.402	D	6.507	6.507	0.001	1.079	97.62	0.78	0	0	0	1.22
2002	289	23	2588	318.452	-445.8	D	6.548	6.548	0	1.158	92.35	0.24	0	0	0	0.32
2002	290	23	1	318.65	-445.782	D	6.977	6.977	0	2.01	98.99	0.28	0	0	0	0.37
2002	291	23	2571	322.646	-445.476	D	6.646	6.645	0.002	1.348	99.47	0.29	0	0	0	0.22
2002	292	23	2704	329.056	-425.092	D	9.795	9.785	0.01	8.591	95.46	4.48	0	0	0	0.05
2002	293	23	2571	322.646	-445.476	D	9.426	9.4	0.026	7.576	97.93	2.04	0	0	0	0.03
2002	294	23	2589	318.383	-445.593	D	6.977	6.975	0.002	2.008	99.13	0.74	0	0	0	0.09
2002	295	23	2588	318.452	-445.8	D	7.45	7.448	0.002	2.991	99.45	0.54	0	0	0	0.05
2002	296	23	1	318.65	-445.782	D	7.031	7.031	0	2.121	99.2	0.26	0	0	0	0.06
2002	297	23	1	318.65	-445.782	D	6.76	6.76	0	1.575	0	0	0	0	0	0
2002	298	23	2704	329.056	-425.092	D	9.68	9.657	0.023	8.249	96.98	2.95	0	0	0	0.07
2002	299	23	2789	340.496	-426.449	D	9.442	9.336	0.106	7.41	96.94	3	0	0	0	0.05
2002	300	23	2597	318.971	-443.851	D	9.17	9.124	0.045	6.872	97.5	2.43	0	0	0	0.06
2002	301	23	2628	320.933	-436.998	D	10.251	10.218	0.033	9.779	98.88	1.09	0	0	0	0.02
2002	302	23	2597	318.971	-443.851	D	9.862	9.834	0.028	8.723	99.05	0.93	0	0	0	0.02
2002	303	23	2597	318.971	-443.851	D	9.139	9.121	0.018	6.864	99.07	0.89	0	0	0	0.04
2002	304	23	2597	318.971	-443.851	D	9.181	9.1	0.081	6.81	97.06	2.91	0	0	0	0.03
2002	305	23	2588	318.452	-445.8	D	7.72	7.72	0	3.576	97.33	2.58	0	0	0	0.22
2002	306	23	2758	335.862	-424.454	D	7.748	7.74	0.008	3.621	96.08	3.68	0	0	0	0.21
2002	307	23	2758	335.862	-424.454	D	10.219	10.218	0.001	9.779	97.46	2.27	0	0	0	0.03
2002	308	23	2781	339.842	-425.379	D	9.258	9.252	0.006	7.196	97.87	2.04	0	0	0	0.07
2002	309	23	2781	339.842	-425.379	D	9.271	9.26	0.011	7.216	98.34	1.62	0	0	0	0.03
2002	310	23	2781	339.842	-425.379	D	8.124	8.086	0.038	4.392	97.33	2.63	0	0	0	0.05
2002	311	23	2373	337.927	-425.951	D	6.541	6.541	0	1.146	84.95	0.34	0	0	0	0.16
2002	312	23	2037	333.945	-425.876	D	6.691	6.691	0	1.439	20.67	0.13	0	0	0	0.02
2002	313	23	1	318.65	-445.782	D	9.044	9.044	0	6.672	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	314	23	2781	339.842	-425.379	D	9.339	9.339	0	7.417	96.57	0.47	0	0	0	0.91
2002	315	23	2781	339.842	-425.379	D	6.81	6.809	0.001	1.673	90.33	8	0	0	0	1.5
2002	316	23	2447	336.137	-430.956	D	6.636	6.633	0.003	1.326	93.56	5.49	0	0	0	0.86
2002	317	23	2789	340.496	-426.449	D	6.608	6.607	0.002	1.274	94.47	4.6	0	0	0	0.91
2002	318	23	2789	340.496	-426.449	D	6.861	6.861	0	1.777	86.31	1.01	0	0	0	0.45
2002	319	23	2782	339.852	-425.592	D	9.468	9.464	0.004	7.741	94.65	5.25	0	0	0	0.06
2002	320	23	2589	318.383	-445.593	D	8.404	8.404	0	5.124	92.41	4.94	0	0	0	0.9
2002	321	23	2789	340.496	-426.449	D	6.723	6.721	0.002	1.499	92.88	6.45	0	0	0	0.67
2002	322	23	1	318.65	-445.782	D	6.826	6.826	0	1.707	0	0	0	0	0	0
2002	323	23	2789	340.496	-426.449	D	6.83	6.829	0.002	1.713	94.07	5.63	0	0	0	0.35
2002	324	23	1663	331.597	-434.723	D	6.494	6.494	0	1.054	74.96	1.4	0	0	0	0.53
2002	325	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	326	23	2710	330.44	-424.955	D	7.017	7.016	0.002	2.09	93.95	4.66	0	0	0	1.34
2002	327	23	2571	322.646	-445.476	D	6.537	6.536	0.001	1.136	94.67	4.54	0	0	0	0.63
2002	328	23	1549	330.211	-425.79	D	6.63	6.629	0	1.318	95.61	1.65	0	0	0	0.32
2002	329	23	2571	322.646	-445.476	D	7.362	7.36	0.001	2.804	96.95	2.82	0	0	0	0.08
2002	330	23	2589	318.383	-445.593	D	6.648	6.647	0.001	1.353	95.46	3.78	0	0	0	0.62
2002	331	23	2599	318.958	-443.364	D	6.9	6.899	0.001	1.853	95.49	4.07	0	0	0	0.38
2002	332	23	2694	327.861	-425.964	D	6.596	6.588	0.007	1.238	95.35	4.31	0	0	0	0.36
2002	333	23	2418	339.946	-426.612	D	6.593	6.593	0	1.247	96.03	1.52	0	0	0	0.29
2002	334	23	1	318.65	-445.782	D	6.662	6.662	0	1.382	0	0	0	0	0	0
2002	335	23	2781	339.842	-425.379	D	6.503	6.503	0	1.072	79.31	17.37	0	0	0	3.03
2002	336	23	1	318.65	-445.782	D	6.496	6.496	0	1.058	0	0	0	0	0	0
2002	337	23	2597	318.971	-443.851	D	7.084	7.074	0.01	2.209	94.08	5.51	0	0	0	0.41
2002	338	23	2588	318.452	-445.8	D	10.218	10.218	0	9.779	91.83	5.83	0	0	0	0.04
2002	339	23	2628	320.933	-436.998	D	8.586	8.586	0	5.553	91.85	6.88	0	0	0	0.45
2002	340	23	2448	335.908	-431.021	D	8.935	8.925	0.01	6.375	93.83	6.05	0	0	0	0.12
2002	341	23	2183	335.664	-431.047	D	7.166	7.166	0	2.399	76.21	3.14	0	0	0	0.14
2002	342	23	2758	335.862	-424.454	D	7.48	7.48	0.001	3.058	97.55	2.21	0	0	0	0.04
2002	343	23	2704	329.056	-425.092	D	8.566	8.547	0.02	5.461	97.67	2.3	0	0	0	0.03
2002	344	23	2628	320.933	-436.998	D	6.88	6.878	0.002	1.811	98.23	1.76	0	0	0	0.09
2002	345	23	2704	329.056	-425.092	D	8.133	8.131	0.003	4.493	98.34	1.56	0	0	0	0.03
2002	346	23	2255	335.942	-426.039	D	8.217	8.216	0.001	4.689	98.64	1.29	0	0	0	0.03
2002	347	23	2597	318.971	-443.851	D	9.466	9.457	0.009	7.724	97.59	2.35	0	0	0	0.05
2002	348	23	2597	318.971	-443.851	D	9.34	9.264	0.076	7.226	96.32	3.62	0	0	0	0.05
2002	349	23	2404	338.92	-425.908	D	7.071	7.071	0	2.203	91.72	1.31	0	0	0	0.08
2002	350	23	1	318.65	-445.782	D	9.107	9.107	0	6.829	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	9.67	9.67	0	8.285	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	9.899	9.899	0	8.899	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	353	23	1623	330.718	-426.018	D	8.182	8.175	0.007	4.595	94.3	5.37	0	0	0	0.32
2002	354	23	1951	333.842	-434.874	D	6.782	6.782	0	1.619	94.91	5.11	0	0	0	0.36
2002	355	23	1	318.65	-445.782	D	6.532	6.532	0	1.128	0	0	0	0	0	0
2002	356	23	2597	318.971	-443.851	D	7.02	7.017	0.003	2.093	90.75	8.84	0	0	0	0.43
2002	357	23	2571	322.646	-445.476	D	7.595	7.59	0.005	3.295	94.84	5.04	0	0	0	0.08
2002	358	23	2571	322.646	-445.476	D	9.689	9.673	0.015	8.292	94.15	5.81	0	0	0	0.04
2002	359	23	2624	320.719	-437.835	D	7.609	7.605	0.004	3.326	93.58	6.27	0	0	0	0.14
2002	360	23	1	318.65	-445.782	D	6.825	6.825	0	1.705	0	0	0	0	0	0
2002	361	23	2788	340.294	-426.448	D	6.923	6.923	0	1.902	78.1	2.69	0	0	0	0.14
2002	362	23	1	318.65	-445.782	D	7.067	7.067	0	2.195	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.04	7.04	0	2.14	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	10.069	10.069	0	9.364	0	0	0	0	0	0
2002	365	23	1548	330.222	-426.04	D	8.828	8.824	0.004	6.128	94.57	5.27	0	0	0	0.06
									0.138							
UMC											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	1	318.65	-445.782	D	6.842	6.842	0	1.74	0	0	0	0	0	0
2002	2	23	2789	340.496	-426.449	D	6.891	6.89	0.001	1.836	77.5	22.35	0	0	0	0.13
2002	3	23	2789	340.496	-426.449	D	7.294	7.288	0.006	2.652	80.39	19.55	0	0	0	0.05
2002	4	23	1	318.65	-445.782	D	6.816	6.816	0	1.687	0	0	0	0	0	0
2002	5	23	1	318.65	-445.782	D	8.011	8.011	0	4.223	0	0	0	0	0	0
2002	6	23	1	318.65	-445.782	D	9.577	9.577	0	8.037	0	0	0	0	0	0
2002	7	23	1	318.65	-445.782	D	7.828	7.828	0	3.813	0	0	0	0	0	0
2002	8	23	1	318.65	-445.782	D	6.896	6.896	0	1.848	0	0	0	0	0	0
2002	9	23	1	318.65	-445.782	D	6.877	6.877	0	1.81	0	0	0	0	0	0
2002	10	23	2789	340.496	-426.449	D	9.467	9.353	0.114	7.455	92.96	7.01	0	0	0	0.02
2002	11	23	2571	322.646	-445.476	D	7.315	7.312	0.004	2.702	93.79	6.2	0	0	0	0.02
2002	12	23	1	318.65	-445.782	D	6.82	6.82	0	1.694	0	0	0	0	0	0
2002	13	23	1	318.65	-445.782	D	7.018	7.018	0	2.094	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	6.95	6.95	0	1.957	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	6.62	6.62	0	1.299	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	17	23	2789	340.496	-426.449	D	6.946	6.933	0.014	1.921	82.07	17.88	0	0	0	0.05
2002	18	23	2789	340.496	-426.449	D	8.821	8.73	0.091	5.901	83.51	16.47	0	0	0	0.02
2002	19	23	2600	318.952	-443.12	D	9.031	8.975	0.055	6.5	92.17	7.81	0	0	0	0.01
2002	20	23	2781	339.842	-425.379	D	9.043	8.882	0.161	6.27	94.03	5.97	0	0	0	0.01
2002	21	23	2255	335.942	-426.039	D	7.268	7.267	0.001	2.609	95.38	4.67	0	0	0	0.01

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	22	23	1	318.65	-445.782	D	7.001	7.001	0	2.059	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	9.862	9.862	0	8.798	0	0	0	0	0	0
2002	24	23	1	318.65	-445.782	D	9.399	9.399	0	7.573	0	0	0	0	0	0
2002	25	23	1	318.65	-445.782	D	6.855	6.855	0	1.765	0	0	0	0	0	0
2002	26	23	1951	333.842	-434.874	D	6.707	6.706	0	1.47	98.18	1.53	0	0	0	0.04
2002	27	23	2789	340.496	-426.449	D	6.63	6.629	0	1.318	97.66	2.19	0	0	0	0.03
2002	28	23	1	318.65	-445.782	D	7.081	7.081	0	2.223	0	0	0	0	0	0
2002	29	23	1	318.65	-445.782	D	9.828	9.828	0	8.707	0	0	0	0	0	0
2002	30	23	2758	335.862	-424.454	D	10.722	10.218	**0.504**	9.779	91.94	8.05	0	0	0	0.01
2002	31	23	2694	327.861	-425.964	D	11.675	10.155	**1.52**	9.603	93.76	6.24	0	0	0	0
2002	32	23	2789	340.496	-426.449	D	7.51	7.502	0.008	3.105	95.04	4.96	0	0	0	0
2002	33	23	1	318.65	-445.782	D	7.099	7.099	0	2.261	0	0	0	0	0	0
2002	34	23	1	318.65	-445.782	D	6.798	6.798	0	1.652	0	0	0	0	0	0
2002	35	23	2789	340.496	-426.449	D	6.933	6.932	0	1.921	87.88	11.9	0	0	0	0.12
2002	36	23	2693	327.829	-426.17	D	6.829	6.815	0.014	1.685	86.55	13.38	0	0	0	0.06
2002	37	23	47	319.458	-441.5	D	9.623	9.621	0.002	8.154	92.66	7.16	0	0	0	0.01
2002	38	23	2789	340.496	-426.449	D	9.417	9.412	0.005	7.605	93.69	6.24	0	0	0	0.01
2002	39	23	375	322.611	-445.359	D	7.982	7.981	0.001	4.154	96.39	3.44	0	0	0	0.01
2002	40	23	2781	339.842	-425.379	D	9.316	9.315	0.001	7.357	96.78	3.02	0	0	0	0
2002	41	23	1	318.65	-445.782	D	8.083	8.083	0	4.385	0	0	0	0	0	0
2002	42	23	1	318.65	-445.782	D	7.47	7.47	0	3.037	0	0	0	0	0	0
2002	43	23	1	318.65	-445.782	D	6.601	6.601	0	1.262	0	0	0	0	0	0
2002	44	23	2789	340.496	-426.449	D	6.699	6.691	0.008	1.439	73.17	26.65	0	0	0	0.17
2002	45	23	2571	322.646	-445.476	D	6.605	6.604	0.001	1.269	94.78	5.25	0	0	0	0.06
2002	46	23	2448	335.908	-431.021	D	7.039	7.035	0.004	2.129	93.57	6.42	0	0	0	0.03
2002	47	23	1	318.65	-445.782	D	6.737	6.737	0	1.53	0	0	0	0	0	0
2002	48	23	2789	340.496	-426.449	D	6.562	6.562	0	1.186	96.44	3.46	0	0	0	0.18
2002	49	23	2789	340.496	-426.449	D	6.629	6.621	0.008	1.302	92.11	7.82	0	0	0	0.06
2002	50	23	1	318.65	-445.782	D	8.708	8.708	0	5.847	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	9.05	9.05	0	6.686	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	6.911	6.911	0	1.879	0	0	0	0	0	0
2002	53	23	2789	340.496	-426.449	D	6.81	6.81	0	1.674	91.35	8.48	0	0	0	0.15
2002	54	23	2789	340.496	-426.449	D	6.69	6.687	0.003	1.432	91.66	8.23	0	0	0	0.07
2002	55	23	2789	340.496	-426.449	D	6.795	6.794	0.001	1.643	94.94	5	0	0	0	0.04
2002	56	23	1	318.65	-445.782	D	8.076	8.076	0	4.369	0	0	0	0	0	0
2002	57	23	1	318.65	-445.782	D	7.469	7.469	0	3.035	0	0	0	0	0	0
2002	58	23	1	318.65	-445.782	D	6.708	6.708	0	1.472	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	6.508	6.508	0	1.082	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.98	7.98	0	4.153	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	61	23	2589	318.383	-445.593	D	9.792	9.718	0.074	8.411	90.09	9.9	0	0	0	0.01
2002	62	23	2563	323.259	-443.79	D	7.316	7.316	0	2.711	95.23	4.57	0	0	0	0
2002	63	23	1	318.65	-445.782	D	7.154	7.154	0	2.374	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	6.603	6.603	0	1.266	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.141	7.141	0	2.346	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	9.603	9.603	0	8.106	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	8.845	8.845	0	6.18	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	6.753	6.753	0	1.563	0	0	0	0	0	0
2002	70	23	1	318.65	-445.782	D	7.416	7.416	0	2.922	0	0	0	0	0	0
2002	71	23	1	318.65	-445.782	D	9.328	9.328	0	7.39	0	0	0	0	0	0
2002	72	23	1	318.65	-445.782	D	6.804	6.804	0	1.663	0	0	0	0	0	0
2002	73	23	1	318.65	-445.782	D	7.929	7.929	0	4.037	0	0	0	0	0	0
2002	74	23	1	318.65	-445.782	D	10.09	10.09	0	9.423	0	0	0	0	0	0
2002	75	23	2789	340.496	-426.449	D	8.024	7.991	0.033	4.178	75.19	24.74	0	0	0	0.07
2002	76	23	2704	329.056	-425.092	D	8.498	8.378	0.119	5.064	96.11	3.89	0	0	0	0
2002	77	23	2758	335.862	-424.454	D	9.457	9.442	0.015	7.684	95.5	4.48	0	0	0	0.01
2002	78	23	2781	339.842	-425.379	D	10.24	10.218	0.023	9.779	97.68	2.31	0	0	0	0
2002	79	23	2704	329.056	-425.092	D	10.027	9.428	**0.599**	7.648	93.88	6.11	0	0	0	0
2002	80	23	2789	340.496	-426.449	D	8.481	8.4	0.082	5.114	93.97	6.02	0	0	0	0.01
2002	81	23	1	318.65	-445.782	D	6.551	6.551	0	1.166	0	0	0	0	0	0
2002	82	23	2787	340.091	-426.447	D	6.837	6.837	0	1.73	95.56	3.74	0	0	0	0.03
2002	83	23	2787	340.091	-426.447	D	8.662	8.662	0	5.737	95.66	3.51	0	0	0	0.02
2002	84	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	96.32	2.59	0	0	0	0
2002	85	23	2694	327.861	-425.964	D	8.974	8.641	0.333	5.686	93.05	6.94	0	0	0	0.01
2002	86	23	2468	334.002	-434.887	D	7.931	7.929	0.002	4.039	99.04	0.93	0	0	0	0.03
2002	87	23	2789	340.496	-426.449	D	7.311	7.273	0.039	2.62	97.59	2.4	0	0	0	0.01
2002	88	23	2789	340.496	-426.449	D	8.723	8.669	0.054	5.753	99.12	0.85	0	0	0	0.03
2002	89	23	2571	322.646	-445.476	D	7.685	7.669	0.016	3.466	96	3.97	0	0	0	0.02
2002	90	23	2704	329.056	-425.092	D	8.366	8.365	0.001	5.034	99.05	1	0	0	0	0.08
2002	91	23	2758	335.862	-424.454	D	6.751	6.722	0.029	1.501	95.86	4.09	0	0	0	0.05
2002	92	23	1	318.65	-445.782	D	7.704	7.704	0	3.542	0	0	0	0	0	0
2002	93	23	1	318.65	-445.782	D	6.697	6.697	0	1.452	0	0	0	0	0	0
2002	94	23	2789	340.496	-426.449	D	6.631	6.626	0.005	1.311	93.55	6.37	0	0	0	0.06
2002	95	23	2789	340.496	-426.449	D	6.571	6.559	0.012	1.181	96.6	3.35	0	0	0	0.05
2002	96	23	2789	340.496	-426.449	D	6.595	6.556	0.039	1.175	98.5	1.47	0	0	0	0.04
2002	97	23	2789	340.496	-426.449	D	8.251	8.245	0.006	4.755	99.09	0.9	0	0	0	0.02
2002	98	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	99	23	2789	340.496	-426.449	D	9.166	9.162	0.004	6.968	99.41	0.57	0	0	0	0.05

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	100	23	2589	318.383	-445.593	D	7.61	7.563	0.046	3.237	98.52	1.46	0	0	0	0.02
2002	101	23	2600	318.952	-443.12	D	6.955	6.943	0.011	1.943	99.21	0.78	0	0	0	0.01
2002	102	23	2784	339.87	-426.019	D	7.407	7.407	0	2.904	98.54	0.09	0	0	0	0.01
2002	103	23	1	318.65	-445.782	D	8.889	8.889	0	6.287	0	0	0	0	0	0
2002	104	23	1	318.65	-445.782	D	8.999	8.999	0	6.559	0	0	0	0	0	0
2002	105	23	1	318.65	-445.782	D	8.516	8.516	0	5.389	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.596	7.596	0	3.307	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	8.247	8.247	0	4.758	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	8.641	8.641	0	5.687	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.663	7.663	0	3.453	0	0	0	0	0	0
2002	110	23	1	318.65	-445.782	D	9.387	9.387	0	7.541	0	0	0	0	0	0
2002	111	23	1	318.65	-445.782	D	8.234	8.234	0	4.73	0	0	0	0	0	0
2002	112	23	1	318.65	-445.782	D	6.849	6.849	0	1.754	0	0	0	0	0	0
2002	113	23	2789	340.496	-426.449	D	7.252	7.251	0	2.576	99.33	0.29	0	0	0	0.01
2002	114	23	2781	339.842	-425.379	D	8.838	8.838	0	6.163	97.65	0.29	0	0	0	0.01
2002	115	23	2781	339.842	-425.379	D	6.775	6.767	0.008	1.589	98.2	1.67	0	0	0	0.14
2002	116	23	2758	335.862	-424.454	D	8.054	8.025	0.03	4.253	96.43	3.55	0	0	0	0.02
2002	117	23	2758	335.862	-424.454	D	9.188	9.187	0.002	7.029	98.46	1.54	0	0	0	0.01
2002	118	23	1	318.65	-445.782	D	8.893	8.893	0	6.297	0	0	0	0	0	0
2002	119	23	1	318.65	-445.782	D	6.782	6.782	0	1.619	0	0	0	0	0	0
2002	120	23	1	318.65	-445.782	D	7.861	7.861	0	3.887	0	0	0	0	0	0
2002	121	23	1	318.65	-445.782	D	9.294	9.294	0	7.303	0	0	0	0	0	0
2002	122	23	2789	340.496	-426.449	D	9.15	8.806	0.344	6.083	97.1	2.9	0	0	0	0.01
2002	123	23	37	319.567	-443.993	D	7.411	7.24	0.17	2.553	98.78	1.21	0	0	0	0.01
2002	124	23	2588	318.452	-445.8	D	9.474	9.125	0.349	6.875	98.67	1.33	0	0	0	0
2002	125	23	2597	318.971	-443.851	D	8.518	8.409	0.109	5.135	99.22	0.77	0	0	0	0
2002	126	23	2255	335.942	-426.039	D	8.495	8.488	0.007	5.322	99.9	0.08	0	0	0	0
2002	127	23	1	318.65	-445.782	D	8.423	8.423	0	5.168	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	129	23	1	318.65	-445.782	D	8.462	8.462	0	5.26	0	0	0	0	0	0
2002	130	23	2789	340.496	-426.449	D	6.917	6.889	0.028	1.834	99.45	0.53	0	0	0	0.02
2002	131	23	2784	339.87	-426.019	D	8.348	8.332	0.016	4.956	99.44	0.55	0	0	0	0.01
2002	132	23	1	318.65	-445.782	D	9.38	9.38	0	7.523	0	0	0	0	0	0
2002	133	23	2789	340.496	-426.449	D	8.578	8.578	0	5.534	87.95	12	0	0	0	0.01
2002	134	23	1	318.65	-445.782	D	6.747	6.747	0	1.551	0	0	0	0	0	0
2002	135	23	1	318.65	-445.782	D	6.85	6.85	0	1.755	0	0	0	0	0	0
2002	136	23	1	318.65	-445.782	D	7.384	7.384	0	2.855	0	0	0	0	0	0
2002	137	23	2611	319.699	-440.64	D	10.286	10.14	0.147	9.561	97.4	2.6	0	0	0	0
2002	138	23	2563	323.259	-443.79	D	8.454	8.39	0.064	5.091	98.22	1.77	0	0	0	0.01

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	139	23	2789	340.496	-426.449	D	7.036	6.863	0.173	1.781	97.73	2.25	0	0	0	0.02
2002	140	23	2588	318.452	-445.8	D	6.883	6.876	0.007	1.808	99.64	0.32	0	0	0	0.02
2002	141	23	2781	339.842	-425.379	D	6.768	6.713	0.055	1.482	98.75	1.22	0	0	0	0.03
2002	142	23	2789	340.496	-426.449	D	6.728	6.704	0.024	1.466	99.44	0.53	0	0	0	0.02
2002	143	23	2781	339.842	-425.379	D	6.756	6.756	0	1.568	99.27	0.21	0	0	0	0.01
2002	144	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2002	145	23	1	318.65	-445.782	D	8.137	8.137	0	4.507	0	0	0	0	0	0
2002	146	23	1	318.65	-445.782	D	8.441	8.441	0	5.212	0	0	0	0	0	0
2002	147	23	1	318.65	-445.782	D	8.905	8.905	0	6.327	0	0	0	0	0	0
2002	148	23	1	318.65	-445.782	D	8.901	8.901	0	6.317	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	9.28	9.28	0	7.267	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	8.533	8.533	0	5.428	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.158	7.158	0	2.382	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.878	7.878	0	3.924	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	8.029	8.029	0	4.264	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.439	7.439	0	2.97	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.015	7.015	0	2.089	0	0	0	0	0	0
2002	156	23	2704	329.056	-425.092	D	9.114	9.113	0.001	6.844	99.29	0.64	0	0	0	0.01
2002	157	23	2684	326.713	-427.014	D	9.319	8.755	**0.564**	5.959	95.22	4.77	0	0	0	0.01
2002	158	23	2589	318.383	-445.593	D	6.954	6.909	0.044	1.875	99.79	0.19	0	0	0	0.02
2002	159	23	2781	339.842	-425.379	D	6.94	6.899	0.041	1.853	99.81	0.17	0	0	0	0.02
2002	160	23	2758	335.862	-424.454	D	7.595	7.593	0.002	3.302	99.94	0.03	0	0	0	0.01
2002	161	23	1	318.65	-445.782	D	9.508	9.508	0	7.855	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	8.531	8.531	0	5.424	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	8.238	8.238	0	4.74	0	0	0	0	0	0
2002	164	23	1	318.65	-445.782	D	8.172	8.172	0	4.588	0	0	0	0	0	0
2002	165	23	2788	340.294	-426.448	D	7.432	7.432	0	2.956	97.6	0.47	0	0	0	0
2002	166	23	1	318.65	-445.782	D	6.682	6.682	0	1.422	0	0	0	0	0	0
2002	167	23	1	318.65	-445.782	D	6.744	6.744	0	1.543	0	0	0	0	0	0
2002	168	23	2789	340.496	-426.449	D	6.755	6.752	0.003	1.56	99.36	0.56	0	0	0	0.03
2002	169	23	2789	340.496	-426.449	D	6.723	6.716	0.007	1.488	99.91	0.07	0	0	0	0.02
2002	170	23	2781	339.842	-425.379	D	6.886	6.885	0.002	1.825	99.93	0.05	0	0	0	0.02
2002	171	23	1	318.65	-445.782	D	7.457	7.457	0	3.008	0	0	0	0	0	0
2002	172	23	1	318.65	-445.782	D	8.033	8.033	0	4.272	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.251	7.251	0	2.574	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.025	7.025	0	2.108	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	8.073	8.073	0	4.363	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	8.808	8.808	0	6.089	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	178	23	1	318.65	-445.782	D	8.838	8.838	0	6.163	0	0	0	0	0	0
2002	179	23	1	318.65	-445.782	D	7.841	7.841	0	3.842	0	0	0	0	0	0
2002	180	23	1	318.65	-445.782	D	8.173	8.173	0	4.59	0	0	0	0	0	0
2002	181	23	1	318.65	-445.782	D	8.264	8.264	0	4.798	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	6.882	6.882	0	1.82	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	6.978	6.978	0	2.014	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	8.892	8.892	0	6.295	0	0	0	0	0	0
2002	185	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2002	186	23	2789	340.496	-426.449	D	8.175	8.174	0.001	4.592	99.84	0.04	0	0	0	0.01
2002	187	23	2758	335.862	-424.454	D	7.464	7.452	0.012	2.999	99.94	0.04	0	0	0	0.01
2002	188	23	2709	330.21	-424.978	D	8.064	8.033	0.032	4.271	99.93	0.07	0	0	0	0
2002	189	23	2707	329.748	-425.023	D	6.867	6.863	0.004	1.782	99.94	0.02	0	0	0	0.01
2002	190	23	2789	340.496	-426.449	D	6.765	6.764	0.001	1.583	99.66	0.01	0	0	0	0.01
2002	191	23	2029	334.033	-427.871	D	7.003	7.003	0	2.065	98.36	0.06	0	0	0	0.01
2002	192	23	2789	340.496	-426.449	D	7.748	7.745	0.003	3.631	99.32	0.65	0	0	0	0.01
2002	193	23	2781	339.842	-425.379	D	8.515	8.494	0.022	5.335	99.5	0.51	0	0	0	0
2002	194	23	2684	326.713	-427.014	D	9.357	9.319	0.039	7.366	99.14	0.85	0	0	0	0
2002	195	23	2597	318.971	-443.851	D	8.878	8.872	0.006	6.246	99.82	0.19	0	0	0	0
2002	196	23	1	318.65	-445.782	D	8.017	8.017	0	4.235	99.7	0.16	0	0	0	0.01
2002	197	23	1	318.65	-445.782	D	7.428	7.428	0	2.948	0	0	0	0	0	0
2002	198	23	1	318.65	-445.782	D	9.517	9.517	0	7.879	0	0	0	0	0	0
2002	199	23	1	318.65	-445.782	D	8.871	8.871	0	6.243	0	0	0	0	0	0
2002	200	23	1	318.65	-445.782	D	9.09	9.09	0	6.785	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.7	7.7	0	3.533	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.888	7.888	0	3.947	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.159	7.159	0	2.385	0	0	0	0	0	0
2002	204	23	2704	329.056	-425.092	D	7.121	7.119	0.002	2.301	99.93	0.04	0	0	0	0.04
2002	205	23	2255	335.942	-426.039	D	7.812	7.412	0.401	2.913	99.69	0.3	0	0	0	0.01
2002	206	23	146	320.808	-443.939	D	7.318	7.231	0.087	2.532	99.89	0.1	0	0	0	0.01
2002	207	23	2789	340.496	-426.449	D	7.163	7.07	0.093	2.202	99.94	0.05	0	0	0	0.01
2002	208	23	2789	340.496	-426.449	D	7.875	7.872	0.003	3.912	99.96	0.04	0	0	0	0.01
2002	209	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.824	7.824	0	3.806	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	8.482	8.482	0	5.307	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.166	7.166	0	2.398	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.644	7.644	0	3.411	0	0	0	0	0	0
2002	214	23	2783	339.861	-425.806	D	7.317	7.317	0	2.713	98.8	0.04	0	0	0	0.01
2002	215	23	454	323.042	-443.841	D	8.12	8.118	0.001	4.465	99.94	0.01	0	0	0	0
2002	216	23	2597	318.971	-443.851	D	7.445	7.444	0.001	2.982	99.68	0.01	0	0	0	0.01

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	217	23	1045	326.823	-427.937	D	7.403	7.402	0	2.893	99.14	0.01	0	0	0	0.01
2002	218	23	2789	340.496	-426.449	D	6.849	6.819	0.03	1.693	99.88	0.1	0	0	0	0.03
2002	219	23	2563	323.259	-443.79	D	9.324	8.627	**0.697**	5.651	99.48	0.52	0	0	0	0
2002	220	23	2588	318.452	-445.8	D	6.924	6.92	0.004	1.895	99.93	0.05	0	0	0	0.01
2002	221	23	1	318.65	-445.782	D	6.724	6.724	0	1.505	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.045	7.045	0	2.15	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.191	7.191	0	2.45	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	6.912	6.912	0	1.88	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	8.619	8.619	0	5.634	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	9.936	9.936	0	9	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	8.318	8.318	0	4.925	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	8.739	8.739	0	5.922	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	8.63	8.63	0	5.658	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.926	7.926	0	4.031	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	6.941	6.941	0	1.939	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	6.972	6.972	0	2.001	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.651	7.651	0	3.426	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.084	7.084	0	2.23	0	0	0	0	0	0
2002	236	23	1	318.65	-445.782	D	7.668	7.668	0	3.464	0	0	0	0	0	0
2002	237	23	2789	340.496	-426.449	D	8.618	8.587	0.031	5.557	98.91	1.05	0	0	0	0.04
2002	238	23	2555	324.03	-442.528	D	8.286	7.904	0.381	3.983	98.73	1.26	0	0	0	0.01
2002	239	23	2684	326.713	-427.014	D	7.014	6.987	0.027	2.031	99.55	0.43	0	0	0	0.02
2002	240	23	1	318.65	-445.782	D	7.508	7.508	0	3.117	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.124	7.124	0	2.313	0	0	0	0	0	0
2002	242	23	1	318.65	-445.782	D	7.14	7.14	0	2.344	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.361	7.361	0	2.805	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.134	7.134	0	2.332	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	6.909	6.909	0	1.875	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	6.972	6.972	0	2.002	0	0	0	0	0	0
2002	247	23	2781	339.842	-425.379	D	6.923	6.923	0	1.902	100.12	0.02	0	0	0	0.03
2002	248	23	2255	335.942	-426.039	D	7.37	7.337	0.033	2.756	99.85	0.13	0	0	0	0.01
2002	249	23	2628	320.933	-436.998	D	6.801	6.795	0.006	1.645	99.95	0.02	0	0	0	0.02
2002	250	23	2693	327.829	-426.17	D	6.748	6.748	0	1.552	99.49	0.01	0	0	0	0.02
2002	251	23	1	318.65	-445.782	D	7.423	7.423	0	2.937	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.171	7.171	0	2.409	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.202	7.202	0	2.474	0	0	0	0	0	0
2002	254	23	2781	339.842	-425.379	D	7.207	7.068	0.139	2.196	96.07	3.86	0	0	0	0.07
2002	255	23	54	319.815	-443.982	D	8.345	8.097	0.247	4.417	97.73	2.26	0	0	0	0.01

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	256	23	2588	318.452	-445.8	D	6.694	6.68	0.014	1.418	99.89	0.07	0	0	0	0.03
2002	257	23	2694	327.861	-425.964	D	6.679	6.672	0.007	1.402	99.89	0.06	0	0	0	0.02
2002	258	23	2789	340.496	-426.449	D	8.286	8.282	0.004	4.841	99.82	0.12	0	0	0	0.01
2002	259	23	2789	340.496	-426.449	D	8.587	8.436	0.151	5.2	98.59	1.4	0	0	0	0.01
2002	260	23	2789	340.496	-426.449	D	7.921	7.813	0.109	3.78	99.31	0.67	0	0	0	0.01
2002	261	23	2789	340.496	-426.449	D	8.447	8.444	0.003	5.217	98.76	1.24	0	0	0	0.01
2002	262	23	1	318.65	-445.782	D	9.39	9.39	0	7.549	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	9.262	9.262	0	7.221	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	6.8	6.8	0	1.655	0	0	0	0	0	0
2002	265	23	2789	340.496	-426.449	D	6.831	6.797	0.034	1.649	96.91	2.97	0	0	0	0.11
2002	266	23	2789	340.496	-426.449	D	6.629	6.604	0.025	1.267	98.67	1.25	0	0	0	0.08
2002	267	23	2758	335.862	-424.454	D	6.578	6.549	0.028	1.161	99.21	0.72	0	0	0	0.07
2002	268	23	2758	335.862	-424.454	D	6.844	6.826	0.018	1.708	99.42	0.55	0	0	0	0.03
2002	269	23	1415	329.185	-425.086	D	7.375	7.375	0	2.836	99.3	0.05	0	0	0	0.02
2002	270	23	2597	318.971	-443.851	D	7.451	7.345	0.105	2.773	99.27	0.68	0	0	0	0.05
2002	271	23	2789	340.496	-426.449	D	6.865	6.811	0.055	1.677	99.7	0.26	0	0	0	0.03
2002	272	23	2684	326.713	-427.014	D	7.305	7.238	0.067	2.548	99.68	0.31	0	0	0	0.01
2002	273	23	2704	329.056	-425.092	D	7.339	7.337	0.002	2.755	99.95	0.03	0	0	0	0.01
2002	274	23	1	318.65	-445.782	D	6.966	6.966	0	1.989	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.239	7.239	0	2.549	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.523	7.523	0	3.151	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	9.147	9.147	0	6.929	0	0	0	0	0	0
2002	278	23	2789	340.496	-426.449	D	7.049	7.043	0.006	2.146	99.48	0.41	0	0	0	0.12
2002	279	23	2789	340.496	-426.449	D	6.817	6.806	0.011	1.667	99.24	0.72	0	0	0	0.06
2002	280	23	2789	340.496	-426.449	D	6.839	6.829	0.011	1.713	98.8	1.07	0	0	0	0.14
2002	281	23	2589	318.383	-445.593	D	6.578	6.562	0.016	1.186	98.84	1.08	0	0	0	0.09
2002	282	23	2704	329.056	-425.092	D	9.027	9.027	0	6.628	99.25	0.22	0	0	0	0.02
2002	283	23	2781	339.842	-425.379	D	9.976	9.974	0.002	9.103	98.99	0.91	0	0	0	0
2002	284	23	2789	340.496	-426.449	D	9.419	9.414	0.004	7.612	99.1	0.85	0	0	0	0
2002	285	23	1	318.65	-445.782	D	9.046	9.046	0	6.677	0	0	0	0	0	0
2002	286	23	2695	328.074	-426.025	D	8.112	8.095	0.017	4.412	94.88	5.01	0	0	0	0.11
2002	287	23	2600	318.952	-443.12	D	6.527	6.524	0.003	1.112	97.46	2.51	0	0	0	0.07
2002	288	23	659	323.836	-433.564	D	6.523	6.507	0.015	1.08	97.25	2.71	0	0	0	0.04
2002	289	23	2790	340.421	-426.562	D	6.595	6.554	0.041	1.17	84.16	15.59	0	0	0	0.25
2002	290	23	2447	336.137	-430.956	D	7.762	7.748	0.014	3.638	95.1	4.87	0	0	0	0.02
2002	291	23	2789	340.496	-426.449	D	6.63	6.63	0	1.32	97.82	0.49	0	0	0	0.05
2002	292	23	2781	339.842	-425.379	D	9.833	9.74	0.093	8.47	93.93	6.06	0	0	0	0.01
2002	293	23	2704	329.056	-425.092	D	9.752	9.344	0.408	7.432	92.39	7.59	0	0	0	0.01
2002	294	23	2589	318.383	-445.593	D	7.019	6.975	0.044	2.008	98.02	1.97	0	0	0	0.02

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	295	23	2589	318.383	-445.593	D	7.499	7.448	0.051	2.991	98.3	1.7	0	0	0	0.01
2002	296	23	2758	335.862	-424.454	D	7.008	6.97	0.038	1.996	98.03	1.94	0	0	0	0.03
2002	297	23	2684	326.713	-427.014	D	6.803	6.758	0.045	1.571	98.88	1.1	0	0	0	0.02
2002	298	23	2684	326.713	-427.014	D	9.817	9.657	0.16	8.249	97.3	2.7	0	0	0	0
2002	299	23	2781	339.842	-425.379	D	9.853	9.336	**0.516**	7.411	96.79	3.21	0	0	0	0
2002	300	23	2789	340.496	-426.449	D	9.972	9.18	**0.791**	7.013	95.35	4.64	0	0	0	0.01
2002	301	23	2684	326.713	-427.014	D	10.699	10.218	0.481	9.779	97.43	2.57	0	0	0	0
2002	302	23	2758	335.862	-424.454	D	10.413	9.849	**0.564**	8.762	95.82	4.17	0	0	0	0.01
2002	303	23	2552	324.659	-442.591	D	10.689	9.128	**1.561**	6.882	95.34	4.66	0	0	0	0.01
2002	304	23	2552	324.659	-442.591	D	10.691	9.077	**1.614**	6.754	93.81	6.19	0	0	0	0
2002	305	23	1	318.65	-445.782	D	7.72	7.72	0	3.576	0	0	0	0	0	0
2002	306	23	2571	322.646	-445.476	D	7.783	7.777	0.007	3.701	92.78	7.18	0	0	0	0.01
2002	307	23	2789	340.496	-426.449	D	10.333	10.218	0.116	9.779	93.33	6.66	0	0	0	0
2002	308	23	2789	340.496	-426.449	D	9.253	9.25	0.003	7.192	95.69	4.32	0	0	0	0
2002	309	23	2789	340.496	-426.449	D	9.353	9.322	0.031	7.375	96.56	3.43	0	0	0	0
2002	310	23	2789	340.496	-426.449	D	8.08	8.072	0.009	4.359	92.78	7.22	0	0	0	0.01
2002	311	23	1	318.65	-445.782	D	6.545	6.545	0	1.153	0	0	0	0	0	0
2002	312	23	1	318.65	-445.782	D	6.713	6.713	0	1.482	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	9.044	9.044	0	6.672	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	9.306	9.306	0	7.334	0	0	0	0	0	0
2002	315	23	1	318.65	-445.782	D	6.786	6.786	0	1.628	0	0	0	0	0	0
2002	316	23	2789	340.496	-426.449	D	6.638	6.633	0.005	1.326	73.63	26.16	0	0	0	0.21
2002	317	23	1	318.65	-445.782	D	6.613	6.613	0	1.285	0	0	0	0	0	0
2002	318	23	1	318.65	-445.782	D	7.01	7.01	0	2.079	0	0	0	0	0	0
2002	319	23	1	318.65	-445.782	D	9.393	9.393	0	7.558	0	0	0	0	0	0
2002	320	23	2789	340.496	-426.449	D	8.982	8.881	0.101	6.268	74.08	25.88	0	0	0	0.03
2002	321	23	1	318.65	-445.782	D	6.705	6.705	0	1.467	0	0	0	0	0	0
2002	322	23	1	318.65	-445.782	D	6.826	6.826	0	1.707	0	0	0	0	0	0
2002	323	23	1	318.65	-445.782	D	6.805	6.805	0	1.665	0	0	0	0	0	0
2002	324	23	1	318.65	-445.782	D	6.495	6.495	0	1.057	0	0	0	0	0	0
2002	325	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	326	23	1	318.65	-445.782	D	6.938	6.938	0	1.932	0	0	0	0	0	0
2002	327	23	1	318.65	-445.782	D	6.536	6.536	0	1.136	0	0	0	0	0	0
2002	328	23	1415	329.185	-425.086	D	6.635	6.635	0	1.329	93.22	7.37	0	0	0	0.04
2002	329	23	2789	340.496	-426.449	D	7.306	7.219	0.087	2.507	84.71	15.24	0	0	0	0.05
2002	330	23	2789	340.496	-426.449	D	6.672	6.626	0.046	1.312	88.96	10.98	0	0	0	0.06
2002	331	23	2468	334.002	-434.887	D	6.952	6.899	0.053	1.853	84.58	15.37	0	0	0	0.06
2002	332	23	2588	318.452	-445.8	D	6.591	6.588	0.003	1.237	90.35	9.6	0	0	0	0.04
2002	333	23	340	322.363	-445.37	D	6.591	6.591	0	1.243	93.22	5.27	0	0	0	0.05

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	334	23	1	318.65	-445.782	D	6.662	6.662	0	1.382	0	0	0	0	0	0
2002	335	23	1	318.65	-445.782	D	6.502	6.502	0	1.07	0	0	0	0	0	0
2002	336	23	1	318.65	-445.782	D	6.496	6.496	0	1.058	0	0	0	0	0	0
2002	337	23	37	319.567	-443.993	D	7.093	7.074	0.019	2.209	87.19	12.74	0	0	0	0.06
2002	338	23	2588	318.452	-445.8	D	10.224	10.218	0.006	9.779	88.19	11.8	0	0	0	0
2002	339	23	2789	340.496	-426.449	D	8.697	8.64	0.056	5.684	64.53	35.38	0	0	0	0.08
2002	340	23	1	318.65	-445.782	D	8.705	8.705	0	5.84	0	0	0	0	0	0
2002	341	23	1	318.65	-445.782	D	7.075	7.075	0	2.211	0	0	0	0	0	0
2002	342	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	343	23	2758	335.862	-424.454	D	8.817	8.492	0.325	5.33	91.96	8.03	0	0	0	0
2002	344	23	2628	320.933	-436.998	D	6.899	6.878	0.022	1.811	94.22	5.77	0	0	0	0.01
2002	345	23	2694	327.861	-425.964	D	8.169	8.131	0.038	4.493	95.56	4.44	0	0	0	0
2002	346	23	2708	329.979	-425	D	8.226	8.216	0.01	4.689	96.75	3.24	0	0	0	0
2002	347	23	2709	330.21	-424.978	D	9.817	9.461	0.357	7.733	92.05	7.93	0	0	0	0.01
2002	348	23	2429	338.563	-428.651	D	9.604	9.351	0.253	7.448	91.98	8.01	0	0	0	0.01
2002	349	23	1	318.65	-445.782	D	7.033	7.033	0	2.126	0	0	0	0	0	0
2002	350	23	1	318.65	-445.782	D	9.107	9.107	0	6.829	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	9.67	9.67	0	8.285	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	9.899	9.899	0	8.899	0	0	0	0	0	0
2002	353	23	1	318.65	-445.782	D	8.345	8.345	0	4.987	0	0	0	0	0	0
2002	354	23	1	318.65	-445.782	D	6.783	6.783	0	1.622	0	0	0	0	0	0
2002	355	23	1	318.65	-445.782	D	6.532	6.532	0	1.128	0	0	0	0	0	0
2002	356	23	1	318.65	-445.782	D	7.006	7.006	0	2.071	0	0	0	0	0	0
2002	357	23	1	318.65	-445.782	D	7.59	7.59	0	3.295	0	0	0	0	0	0
2002	358	23	2781	339.842	-425.379	D	9.946	9.805	0.141	8.644	87.66	12.33	0	0	0	0.01
2002	359	23	1	318.65	-445.782	D	7.604	7.604	0	3.324	0	0	0	0	0	0
2002	360	23	1	318.65	-445.782	D	6.825	6.825	0	1.705	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	6.876	6.876	0	1.807	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.067	7.067	0	2.195	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.04	7.04	0	2.14	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	10.069	10.069	0	9.364	0	0	0	0	0	0
2002	365	23	2653	324.014	-433.36	D	8.862	8.822	0.04	6.123	71.72	28.19	0	0	0	0.09
									1.614							
NORANDA									**DELTA**		**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	1	318.65	-445.782	D	6.842	6.842	0	1.74	0	0	0	0	0	0
2002	2	23	1	318.65	-445.782	D	6.882	6.882	0	1.82	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	3	23	1	318.65	-445.782	D	7.245	7.245	0	2.562	0	0	0	0	0	0
2002	4	23	1	318.65	-445.782	D	6.816	6.816	0	1.687	0	0	0	0	0	0
2002	5	23	1	318.65	-445.782	D	8.011	8.011	0	4.223	0	0	0	0	0	0
2002	6	23	1	318.65	-445.782	D	9.577	9.577	0	8.037	0	0	0	0	0	0
2002	7	23	1	318.65	-445.782	D	7.828	7.828	0	3.813	0	0	0	0	0	0
2002	8	23	1	318.65	-445.782	D	6.896	6.896	0	1.848	0	0	0	0	0	0
2002	9	23	1	318.65	-445.782	D	6.877	6.877	0	1.81	0	0	0	0	0	0
2002	10	23	1	318.65	-445.782	D	9.544	9.544	0	7.951	0	0	0	0	0	0
2002	11	23	1	318.65	-445.782	D	7.312	7.312	0	2.702	0	0	0	0	0	0
2002	12	23	1	318.65	-445.782	D	6.82	6.82	0	1.694	0	0	0	0	0	0
2002	13	23	1	318.65	-445.782	D	7.018	7.018	0	2.094	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	6.95	6.95	0	1.957	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	6.62	6.62	0	1.299	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	17	23	1	318.65	-445.782	D	6.997	6.997	0	2.053	0	0	0	0	0	0
2002	18	23	1	318.65	-445.782	D	8.764	8.764	0	5.982	0	0	0	0	0	0
2002	19	23	2255	335.942	-426.039	D	9.291	8.971	0.32	6.489	98.86	0.15	0	0	0.03	0.96
2002	20	23	2789	340.496	-426.449	D	8.876	8.858	0.018	6.211	98.65	0.07	0	0	0.04	1.23
2002	21	23	2789	340.496	-426.449	D	7.269	7.266	0.003	2.606	98.51	0.1	0	0	0.01	1.39
2002	22	23	1	318.65	-445.782	D	7.001	7.001	0	2.059	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	9.862	9.862	0	8.798	0	0	0	0	0	0
2002	24	23	1	318.65	-445.782	D	9.399	9.399	0	7.573	0	0	0	0	0	0
2002	25	23	1	318.65	-445.782	D	6.855	6.855	0	1.765	0	0	0	0	0	0
2002	26	23	1	318.65	-445.782	D	6.706	6.706	0	1.468	0	0	0	0	0	0
2002	27	23	2783	339.861	-425.806	D	6.626	6.626	0	1.311	89.28	0.05	0	0	0.08	4.87
2002	28	23	1	318.65	-445.782	D	7.081	7.081	0	2.223	0	0	0	0	0	0
2002	29	23	1	318.65	-445.782	D	9.828	9.828	0	8.707	0	0	0	0	0	0
2002	30	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	31	23	1	318.65	-445.782	D	10.176	10.176	0	9.662	0	0	0	0	0	0
2002	32	23	1	318.65	-445.782	D	7.486	7.486	0	3.071	0	0	0	0	0	0
2002	33	23	1	318.65	-445.782	D	7.099	7.099	0	2.261	0	0	0	0	0	0
2002	34	23	1	318.65	-445.782	D	6.798	6.798	0	1.652	0	0	0	0	0	0
2002	35	23	1	318.65	-445.782	D	6.88	6.88	0	1.815	0	0	0	0	0	0
2002	36	23	2587	318.699	-445.781	D	6.855	6.828	0.027	1.711	90.2	0.22	0	0	1.22	8.37
2002	37	23	2704	329.056	-425.092	D	9.657	9.611	0.046	8.127	97.45	0.4	0	0	0.05	2.11
2002	38	23	2789	340.496	-426.449	D	9.706	9.412	0.294	7.605	99.18	0.13	0	0	0.04	0.66
2002	39	23	2571	322.646	-445.476	D	7.996	7.981	0.015	4.154	98.32	0.07	0	0	0.13	1.48
2002	40	23	2789	340.496	-426.449	D	9.366	9.34	0.026	7.421	99.31	0.05	0	0	0.02	0.62
2002	41	23	1	318.65	-445.782	D	8.083	8.083	0	4.385	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	42	23	1	318.65	-445.782	D	7.47	7.47	0	3.037	0	0	0	0	0	0
2002	43	23	1	318.65	-445.782	D	6.601	6.601	0	1.262	0	0	0	0	0	0
2002	44	23	1	318.65	-445.782	D	6.728	6.728	0	1.512	0	0	0	0	0	0
2002	45	23	1	318.65	-445.782	D	6.604	6.604	0	1.269	0	0	0	0	0	0
2002	46	23	1	318.65	-445.782	D	7.064	7.064	0	2.189	0	0	0	0	0	0
2002	47	23	1	318.65	-445.782	D	6.737	6.737	0	1.53	0	0	0	0	0	0
2002	48	23	1	318.65	-445.782	D	6.574	6.574	0	1.21	0	0	0	0	0	0
2002	49	23	2789	340.496	-426.449	D	6.624	6.621	0.003	1.302	92.15	0.12	0	0	0.14	7.58
2002	50	23	1	318.65	-445.782	D	8.708	8.708	0	5.847	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	9.05	9.05	0	6.686	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	6.911	6.911	0	1.879	0	0	0	0	0	0
2002	53	23	1	318.65	-445.782	D	6.779	6.779	0	1.614	0	0	0	0	0	0
2002	54	23	1	318.65	-445.782	D	6.702	6.702	0	1.46	0	0	0	0	0	0
2002	55	23	1	318.65	-445.782	D	6.796	6.796	0	1.648	0	0	0	0	0	0
2002	56	23	1	318.65	-445.782	D	8.076	8.076	0	4.369	0	0	0	0	0	0
2002	57	23	1	318.65	-445.782	D	7.469	7.469	0	3.035	0	0	0	0	0	0
2002	58	23	1	318.65	-445.782	D	6.708	6.708	0	1.472	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	6.508	6.508	0	1.082	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.98	7.98	0	4.153	0	0	0	0	0	0
2002	61	23	2781	339.842	-425.379	D	9.726	9.722	0.004	8.42	95.31	0.42	0	0	0.05	4.24
2002	62	23	2789	340.496	-426.449	D	7.314	7.314	0	2.707	97.56	0.22	0	0	0.01	2.66
2002	63	23	1	318.65	-445.782	D	7.154	7.154	0	2.374	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	6.603	6.603	0	1.266	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.141	7.141	0	2.346	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	9.603	9.603	0	8.106	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	8.845	8.845	0	6.18	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	6.753	6.753	0	1.563	0	0	0	0	0	0
2002	70	23	2789	340.496	-426.449	D	7.386	7.385	0.002	2.855	92.22	0.14	0	0	0.14	7.49
2002	71	23	1	318.65	-445.782	D	9.328	9.328	0	7.39	0	0	0	0	0	0
2002	72	23	1	318.65	-445.782	D	6.804	6.804	0	1.663	0	0	0	0	0	0
2002	73	23	1	318.65	-445.782	D	7.929	7.929	0	4.037	0	0	0	0	0	0
2002	74	23	1	318.65	-445.782	D	10.09	10.09	0	9.423	0	0	0	0	0	0
2002	75	23	1	318.65	-445.782	D	7.789	7.789	0	3.728	0	0	0	0	0	0
2002	76	23	1	318.65	-445.782	D	8.42	8.42	0	5.161	0	0	0	0	0	0
2002	77	23	2789	340.496	-426.449	D	9.474	9.466	0.007	7.748	99.21	0.13	0	0	0.02	0.63
2002	78	23	2781	339.842	-425.379	D	11.059	10.218	**0.841**	9.779	99.26	0.07	0	0	0.06	0.61
2002	79	23	2789	340.496	-426.449	D	9.743	9.413	0.33	7.61	99.7	0.02	0	0	0.02	0.26
2002	80	23	1	318.65	-445.782	D	8.134	8.134	0	4.5	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	81	23	1	318.65	-445.782	D	6.551	6.551	0	1.166	0	0	0	0	0	0
2002	82	23	1	318.65	-445.782	D	6.89	6.89	0	1.836	0	0	0	0	0	0
2002	83	23	1	318.65	-445.782	D	8.743	8.743	0	5.932	0	0	0	0	0	0
2002	84	23	2704	329.056	-425.092	D	10.223	10.218	0.006	9.779	99.41	0.09	0	0	0.01	0.47
2002	85	23	2704	329.056	-425.092	D	8.799	8.641	0.158	5.686	99.51	0.06	0	0	0	0.42
2002	86	23	1	318.65	-445.782	D	7.962	7.962	0	4.113	0	0	0	0	0	0
2002	87	23	2789	340.496	-426.449	D	7.273	7.273	0.001	2.62	97.16	0.11	0	0	0.08	2.64
2002	88	23	1	318.65	-445.782	D	8.765	8.765	0	5.984	0	0	0	0	0	0
2002	89	23	2255	335.942	-426.039	D	7.669	7.656	0.013	3.438	97.57	0.03	0	0	0.18	2.21
2002	90	23	2704	329.056	-425.092	D	8.463	8.365	0.098	5.034	96.94	0.26	0	0	0.22	2.58
2002	91	23	2589	318.383	-445.593	D	6.77	6.763	0.008	1.581	97.23	0.01	0	0	0.08	2.67
2002	92	23	2789	340.496	-426.449	D	7.638	7.637	0	3.396	97.22	0.01	0	0	0.06	2.88
2002	93	23	1	318.65	-445.782	D	6.697	6.697	0	1.452	0	0	0	0	0	0
2002	94	23	1	318.65	-445.782	D	6.669	6.669	0	1.395	0	0	0	0	0	0
2002	95	23	1	318.65	-445.782	D	6.574	6.574	0	1.209	0	0	0	0	0	0
2002	96	23	2588	318.452	-445.8	D	6.587	6.566	0.02	1.195	94.46	0.02	0	0	0.46	5.06
2002	97	23	2789	340.496	-426.449	D	8.262	8.245	0.017	4.755	96.16	0.04	0	0	0.15	3.66
2002	98	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	99	23	1	318.65	-445.782	D	9.117	9.117	0	6.854	0	0	0	0	0	0
2002	100	23	2588	318.452	-445.8	D	7.601	7.563	0.037	3.237	94.25	0.01	0	0	0.9	4.85
2002	101	23	2684	326.713	-427.014	D	6.948	6.942	0.006	1.941	85.92	0.05	0	0	0.2	13.83
2002	102	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	103	23	1	318.65	-445.782	D	8.889	8.889	0	6.287	0	0	0	0	0	0
2002	104	23	1	318.65	-445.782	D	8.999	8.999	0	6.559	0	0	0	0	0	0
2002	105	23	1	318.65	-445.782	D	8.516	8.516	0	5.389	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.596	7.596	0	3.307	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	8.247	8.247	0	4.758	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	8.641	8.641	0	5.687	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.663	7.663	0	3.453	0	0	0	0	0	0
2002	110	23	1	318.65	-445.782	D	9.387	9.387	0	7.541	0	0	0	0	0	0
2002	111	23	1	318.65	-445.782	D	8.234	8.234	0	4.73	0	0	0	0	0	0
2002	112	23	1	318.65	-445.782	D	6.849	6.849	0	1.754	0	0	0	0	0	0
2002	113	23	2789	340.496	-426.449	D	7.253	7.251	0.002	2.576	97.58	0.03	0	0	0.08	2.26
2002	114	23	1	318.65	-445.782	D	8.745	8.745	0	5.937	0	0	0	0	0	0
2002	115	23	1	318.65	-445.782	D	6.743	6.743	0	1.543	0	0	0	0	0	0
2002	116	23	2588	318.452	-445.8	D	7.964	7.832	0.132	3.822	98.79	0.08	0	0	0.13	1.01
2002	117	23	2704	329.056	-425.092	D	9.361	9.341	0.019	7.425	98.36	0.1	0	0	0.11	1.43
2002	118	23	1	318.65	-445.782	D	8.893	8.893	0	6.297	0	0	0	0	0	0
2002	119	23	1	318.65	-445.782	D	6.782	6.782	0	1.619	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	120	23	2789	340.496	-426.449	D	7.918	7.913	0.005	4.002	95.81	0.01	0	0	0.04	4.12
2002	121	23	1	318.65	-445.782	D	9.294	9.294	0	7.303	0	0	0	0	0	0
2002	122	23	2784	339.87	-426.019	D	8.929	8.806	0.123	6.083	99.6	0.02	0	0	0.01	0.37
2002	123	23	2571	322.646	-445.476	D	7.284	7.228	0.056	2.527	99.13	0.01	0	0	0.03	0.82
2002	124	23	2255	335.942	-426.039	D	9.702	9.102	**0.6**	6.816	99.01	0.05	0	0	0.05	0.89
2002	125	23	2708	329.979	-425	D	8.661	8.424	0.237	5.171	98.81	0.02	0	0	0.05	1.11
2002	126	23	2789	340.496	-426.449	D	8.478	8.471	0.007	5.282	99.04	0	0	0	0.02	0.92
2002	127	23	1	318.65	-445.782	D	8.423	8.423	0	5.168	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	129	23	1	318.65	-445.782	D	8.462	8.462	0	5.26	0	0	0	0	0	0
2002	130	23	2571	322.646	-445.476	D	7.041	7.019	0.021	2.097	96.49	0.02	0	0	0.28	3.2
2002	131	23	2758	335.862	-424.454	D	8.499	8.437	0.062	5.201	98.33	0.02	0	0	0.05	1.59
2002	132	23	1	318.65	-445.782	D	9.38	9.38	0	7.523	0	0	0	0	0	0
2002	133	23	1	318.65	-445.782	D	8.506	8.506	0	5.364	0	0	0	0	0	0
2002	134	23	1	318.65	-445.782	D	6.747	6.747	0	1.551	0	0	0	0	0	0
2002	135	23	1	318.65	-445.782	D	6.85	6.85	0	1.755	0	0	0	0	0	0
2002	136	23	1	318.65	-445.782	D	7.384	7.384	0	2.855	0	0	0	0	0	0
2002	137	23	2789	340.496	-426.449	D	10.1	10.1	0	9.449	89.65	1.46	0	0	0.13	7.15
2002	138	23	1	318.65	-445.782	D	7.964	7.964	0	4.116	0	0	0	0	0	0
2002	139	23	1	318.65	-445.782	D	6.861	6.861	0	1.777	0	0	0	0	0	0
2002	140	23	1	318.65	-445.782	D	6.876	6.876	0	1.808	0	0	0	0	0	0
2002	141	23	2781	339.842	-425.379	D	6.726	6.713	0.013	1.482	86.14	0.02	0	0	0.46	13.38
2002	142	23	2781	339.842	-425.379	D	6.712	6.708	0.003	1.473	82.9	0.04	0	0	0.4	16.63
2002	143	23	2401	338.661	-425.669	D	6.756	6.756	0	1.568	91.01	0.01	0	0	0.16	6.86
2002	144	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2002	145	23	1	318.65	-445.782	D	8.137	8.137	0	4.507	0	0	0	0	0	0
2002	146	23	1	318.65	-445.782	D	8.441	8.441	0	5.212	0	0	0	0	0	0
2002	147	23	1	318.65	-445.782	D	8.905	8.905	0	6.327	0	0	0	0	0	0
2002	148	23	1	318.65	-445.782	D	8.901	8.901	0	6.317	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	9.28	9.28	0	7.267	0	0	0	0	0	0
2002	150	23	2781	339.842	-425.379	D	8.639	8.637	0.001	5.676	97.01	0	0	0	0.34	2.75
2002	151	23	2781	339.842	-425.379	D	7.161	7.129	0.031	2.323	98.4	0.01	0	0	0.13	1.47
2002	152	23	2781	339.842	-425.379	D	7.745	7.743	0.002	3.626	98.7	0	0	0	0.06	1.22
2002	153	23	1	318.65	-445.782	D	8.029	8.029	0	4.264	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.439	7.439	0	2.97	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.015	7.015	0	2.089	0	0	0	0	0	0
2002	156	23	1	318.65	-445.782	D	8.887	8.887	0	6.281	0	0	0	0	0	0
2002	157	23	1	318.65	-445.782	D	8.762	8.762	0	5.977	0	0	0	0	0	0
2002	158	23	2571	322.646	-445.476	D	6.91	6.909	0	1.875	99.14	0	0	0	0.25	0.92

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	159	23	454	323.042	-443.841	D	6.991	6.908	0.083	1.871	98.2	0	0	0	0.15	1.65
2002	160	23	2758	335.862	-424.454	D	7.619	7.593	0.026	3.302	95.85	0	0	0	0.13	4.02
2002	161	23	1	318.65	-445.782	D	9.508	9.508	0	7.855	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	8.531	8.531	0	5.424	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	8.238	8.238	0	4.74	0	0	0	0	0	0
2002	164	23	1	318.65	-445.782	D	8.172	8.172	0	4.588	0	0	0	0	0	0
2002	165	23	1	318.65	-445.782	D	7.569	7.569	0	3.249	0	0	0	0	0	0
2002	166	23	1	318.65	-445.782	D	6.682	6.682	0	1.422	0	0	0	0	0	0
2002	167	23	1	318.65	-445.782	D	6.744	6.744	0	1.543	0	0	0	0	0	0
2002	168	23	1	318.65	-445.782	D	6.73	6.73	0	1.516	0	0	0	0	0	0
2002	169	23	375	322.611	-445.359	D	6.695	6.695	0	1.448	95.91	0	0	0	0.43	2.38
2002	170	23	2781	339.842	-425.379	D	6.889	6.885	0.004	1.825	98.28	0	0	0	0.15	1.62
2002	171	23	2276	336.157	-425.28	D	7.628	7.628	0	3.377	97.35	0	0	0	0.06	1.37
2002	172	23	1	318.65	-445.782	D	8.033	8.033	0	4.272	0	0	0	0	0	0
2002	173	23	2758	335.862	-424.454	D	7.363	7.361	0.002	2.806	91.34	0	0	0	1.9	6.72
2002	174	23	2709	330.21	-424.978	D	7.163	7.07	0.093	2.2	96.85	0.01	0	0	0.25	2.9
2002	175	23	1449	329.434	-425.075	D	7.379	7.379	0	2.843	76.47	0.01	0	0	0.6	22.26
2002	176	23	1	318.65	-445.782	D	8.073	8.073	0	4.363	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	8.808	8.808	0	6.089	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	8.838	8.838	0	6.163	0	0	0	0	0	0
2002	179	23	1	318.65	-445.782	D	7.841	7.841	0	3.842	0	0	0	0	0	0
2002	180	23	1	318.65	-445.782	D	8.173	8.173	0	4.59	0	0	0	0	0	0
2002	181	23	1	318.65	-445.782	D	8.264	8.264	0	4.798	0	0	0	0	0	0
2002	182	23	1412	329.218	-425.834	D	6.884	6.884	0	1.824	17.63	0	0	0	2.16	3.75
2002	183	23	2564	323.159	-444.002	D	7.094	6.978	0.115	2.014	97.95	0	0	0	0.24	1.81
2002	184	23	2789	340.496	-426.449	D	8.904	8.857	0.048	6.208	99.41	0	0	0	0.05	0.54
2002	185	23	2789	340.496	-426.449	D	7.394	7.309	0.085	2.697	98.27	0	0	0	0.27	1.46
2002	186	23	2429	338.563	-428.651	D	8.956	8.174	**0.782**	4.592	99.18	0	0	0	0.1	0.72
2002	187	23	2600	318.952	-443.12	D	7.694	7.471	0.223	3.04	98.5	0	0	0	0.1	1.39
2002	188	23	2588	318.452	-445.8	D	7.909	7.851	0.058	3.864	98.58	0	0	0	0.12	1.29
2002	189	23	2588	318.452	-445.8	D	6.885	6.865	0.02	1.786	97.35	0	0	0	0.34	2.31
2002	190	23	2597	318.971	-443.851	D	6.826	6.761	0.066	1.577	97.7	0	0	0	0.21	2.09
2002	191	23	2256	335.931	-425.789	D	7.087	7.024	0.063	2.107	98.71	0	0	0	0.06	1.23
2002	192	23	2429	338.563	-428.651	D	7.763	7.745	0.018	3.631	99.35	0	0	0	0.02	0.63
2002	193	23	2789	340.496	-426.449	D	8.539	8.484	0.055	5.313	99.16	0	0	0	0.13	0.7
2002	194	23	2468	334.002	-434.887	D	9.352	9.319	0.033	7.368	99.74	0.01	0	0	0.02	0.23
2002	195	23	2571	322.646	-445.476	D	8.944	8.806	0.138	6.085	99.37	0.01	0	0	0.09	0.53
2002	196	23	2571	322.646	-445.476	D	8.342	8.017	0.325	4.235	98.98	0.02	0	0	0.14	0.86
2002	197	23	2571	322.646	-445.476	D	7.795	7.428	0.367	2.948	98.95	0	0	0	0.09	0.96

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	198	23	2255	335.942	-426.039	D	9.654	9.436	0.218	7.669	99.74	0	0	0	0.02	0.24
2002	199	23	2789	340.496	-426.449	D	8.859	8.843	0.016	6.175	99.69	0	0	0	0.01	0.29
2002	200	23	2781	339.842	-425.379	D	9.392	9.391	0.002	7.551	99.7	0.01	0	0	0.01	0.23
2002	201	23	1	318.65	-445.782	D	7.7	7.7	0	3.533	0	0	0	0	0	0
2002	202	23	2236	336.149	-430.776	D	8.177	8.177	0	4.598	5.57	0	0	0	0.09	0.13
2002	203	23	1549	330.211	-425.79	D	7.235	7.235	0	2.541	40.15	0	0	0	1.69	2.86
2002	204	23	623	324.229	-442.54	D	7.091	7.091	0	2.244	44.18	0	0	0	1.06	3.15
2002	205	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2002	206	23	2571	322.646	-445.476	D	7.2	7.188	0.012	2.445	99.44	0	0	0	0.09	0.46
2002	207	23	2789	340.496	-426.449	D	7.126	7.07	0.056	2.202	99.37	0	0	0	0.04	0.59
2002	208	23	2416	339.665	-425.875	D	7.866	7.866	0	3.898	96.61	0	0	0	0.11	1.9
2002	209	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.824	7.824	0	3.806	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	8.482	8.482	0	5.307	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.166	7.166	0	2.398	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.644	7.644	0	3.411	0	0	0	0	0	0
2002	214	23	2789	340.496	-426.449	D	7.317	7.317	0	2.713	98.49	0	0	0	0.2	1.07
2002	215	23	2468	334.002	-434.887	D	8.46	8.111	0.349	4.448	98.64	0	0	0	0.2	1.16
2002	216	23	2694	327.861	-425.964	D	7.655	7.482	0.173	3.063	99.06	0	0	0	0.08	0.86
2002	217	23	2255	335.942	-426.039	D	7.406	7.402	0.004	2.892	99.04	0	0	0	0.07	0.88
2002	218	23	2571	322.646	-445.476	D	6.885	6.822	0.063	1.699	97.88	0	0	0	0.18	1.93
2002	219	23	2563	323.259	-443.79	D	8.807	8.627	0.181	5.651	99.61	0	0	0	0.01	0.38
2002	220	23	2571	322.646	-445.476	D	6.92	6.92	0.001	1.895	98.28	0	0	0	0.07	1.52
2002	221	23	2571	322.646	-445.476	D	6.789	6.724	0.065	1.505	96.29	0	0	0	0.37	3.34
2002	222	23	2781	339.842	-425.379	D	7.043	7.005	0.038	2.068	96.6	0	0	0	0.18	3.22
2002	223	23	2708	329.979	-425	D	7.281	7.28	0.001	2.635	98.42	0	0	0	0.03	1.56
2002	224	23	1	318.65	-445.782	D	6.912	6.912	0	1.88	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	8.619	8.619	0	5.634	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	9.936	9.936	0	9	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	8.318	8.318	0	4.925	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	8.739	8.739	0	5.922	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	8.63	8.63	0	5.658	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.926	7.926	0	4.031	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	6.941	6.941	0	1.939	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	6.972	6.972	0	2.001	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.651	7.651	0	3.426	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.084	7.084	0	2.23	0	0	0	0	0	0
2002	236	23	1	318.65	-445.782	D	7.668	7.668	0	3.464	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	237	23	1	318.65	-445.782	D	8.628	8.628	0	5.655	0	0	0	0	0	0
2002	238	23	1	318.65	-445.782	D	7.881	7.881	0	3.932	0	0	0	0	0	0
2002	239	23	1	318.65	-445.782	D	6.98	6.98	0	2.017	0	0	0	0	0	0
2002	240	23	1	318.65	-445.782	D	7.508	7.508	0	3.117	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.124	7.124	0	2.313	0	0	0	0	0	0
2002	242	23	2571	322.646	-445.476	D	7.142	7.14	0.002	2.344	87.55	0.01	0	0	3.13	9.31
2002	243	23	2597	318.971	-443.851	D	7.541	7.41	0.131	2.909	97.23	0.02	0	0	0.33	2.42
2002	244	23	2476	332.154	-435.398	D	7.296	7.165	0.131	2.396	97.45	0	0	0	0.18	2.36
2002	245	23	2708	329.979	-425	D	6.937	6.927	0.01	1.91	95.73	0	0	0	0.14	4.13
2002	246	23	1	318.65	-445.782	D	6.972	6.972	0	2.002	0	0	0	0	0	0
2002	247	23	1	318.65	-445.782	D	6.886	6.886	0	1.827	0	0	0	0	0	0
2002	248	23	2588	318.452	-445.8	D	7.237	7.236	0	2.545	95.83	0	0	0	0.5	3.58
2002	249	23	2571	322.646	-445.476	D	6.814	6.797	0.017	1.65	93.73	0	0	0	1.32	4.96
2002	250	23	2757	335.63	-424.484	D	6.77	6.756	0.014	1.567	94.69	0	0	0	0.23	5.07
2002	251	23	1549	330.211	-425.79	D	7.828	7.828	0	3.813	0	0.01	0	0	0	4.28
2002	252	23	2788	340.294	-426.448	D	7.261	7.261	0	2.596	90.71	0	0	0	0.5	9.73
2002	253	23	2597	318.971	-443.851	D	7.334	7.262	0.072	2.598	97.95	0	0	0	0.12	1.92
2002	254	23	2563	323.259	-443.79	D	7.032	7.029	0.003	2.116	97.7	0	0	0	0.29	2
2002	255	23	660	324.477	-442.529	D	8.097	8.097	0	4.417	96.68	0	0	0	0.05	1.19
2002	256	23	2571	322.646	-445.476	D	6.684	6.68	0.004	1.418	98.83	0	0	0	0.19	0.95
2002	257	23	2790	340.421	-426.562	D	6.695	6.657	0.038	1.373	96.98	0	0	0	0.3	2.72
2002	258	23	2789	340.496	-426.449	D	8.308	8.282	0.026	4.841	98.86	0	0	0	0.06	1.07
2002	259	23	2789	340.496	-426.449	D	8.436	8.436	0	5.2	96.17	0.01	0	0	0.07	3.99
2002	260	23	2398	338.694	-426.417	D	7.813	7.813	0	3.78	88.13	0.1	0	0	0.05	6.12
2002	261	23	1549	330.211	-425.79	D	8.426	8.426	0	5.175	89.94	0.2	0	0	0.04	9.94
2002	262	23	1	318.65	-445.782	D	9.39	9.39	0	7.549	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	9.262	9.262	0	7.221	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	6.8	6.8	0	1.655	0	0	0	0	0	0
2002	265	23	1	318.65	-445.782	D	6.783	6.783	0	1.622	0	0	0	0	0	0
2002	266	23	1	318.65	-445.782	D	6.606	6.606	0	1.273	0	0	0	0	0	0
2002	267	23	1	318.65	-445.782	D	6.552	6.552	0	1.167	0	0	0	0	0	0
2002	268	23	2571	322.646	-445.476	D	6.835	6.801	0.035	1.657	94.92	0.01	0	0	0.44	4.63
2002	269	23	2600	318.952	-443.12	D	7.468	7.406	0.062	2.902	95.22	0.06	0	0	0.42	4.3
2002	270	23	2789	340.496	-426.449	D	7.523	7.494	0.029	3.089	96.59	0	0	0	0.91	2.51
2002	271	23	1552	330.178	-425.042	D	6.81	6.809	0.001	1.674	96.87	0	0	0	0.06	2.88
2002	272	23	2468	334.002	-434.887	D	7.332	7.238	0.094	2.548	98.51	0	0	0	0.18	1.31
2002	273	23	2623	320.666	-438.044	D	7.426	7.384	0.042	2.855	97.97	0.01	0	0	0.11	1.91
2002	274	23	2036	333.956	-426.126	D	6.968	6.968	0	1.994	94.01	0	0	0	0.21	2.84
2002	275	23	1	318.65	-445.782	D	7.239	7.239	0	2.549	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	276	23	1	318.65	-445.782	D	7.523	7.523	0	3.151	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	9.147	9.147	0	6.929	0	0	0	0	0	0
2002	278	23	1	318.65	-445.782	D	6.953	6.953	0	1.963	0	0	0	0	0	0
2002	279	23	1	318.65	-445.782	D	6.8	6.8	0	1.655	0	0	0	0	0	0
2002	280	23	1	318.65	-445.782	D	6.811	6.811	0	1.677	0	0	0	0	0	0
2002	281	23	1	318.65	-445.782	D	6.562	6.562	0	1.186	0	0	0	0	0	0
2002	282	23	2588	318.452	-445.8	D	9.046	8.768	0.277	5.993	99.23	0.06	0	0	0.06	0.64
2002	283	23	2571	322.646	-445.476	D	10.338	9.852	0.485	8.772	99.5	0.03	0	0	0.07	0.4
2002	284	23	2588	318.452	-445.8	D	9.486	9.433	0.052	7.662	99.07	0.01	0	0	0.1	0.82
2002	285	23	2588	318.452	-445.8	D	9.227	9.046	0.181	6.677	99.48	0.02	0	0	0.02	0.48
2002	286	23	2448	335.908	-431.021	D	8.182	8.08	0.101	4.379	99.5	0.01	0	0	0	0.48
2002	287	23	1	318.65	-445.782	D	6.522	6.522	0	1.109	0	0	0	0	0	0
2002	288	23	1	318.65	-445.782	D	6.507	6.507	0	1.079	0	0	0	0	0	0
2002	289	23	1	318.65	-445.782	D	6.548	6.548	0	1.158	0	0	0	0	0	0
2002	290	23	1	318.65	-445.782	D	6.977	6.977	0	2.01	0	0	0	0	0	0
2002	291	23	1	318.65	-445.782	D	6.645	6.645	0	1.348	0	0	0	0	0	0
2002	292	23	1	318.65	-445.782	D	9.779	9.779	0	8.575	0	0	0	0	0	0
2002	293	23	1	318.65	-445.782	D	9.4	9.4	0	7.576	0	0	0	0	0	0
2002	294	23	2789	340.496	-426.449	D	6.918	6.917	0.001	1.89	97.06	0	0	0	0.77	2.2
2002	295	23	2468	334.002	-434.887	D	7.36	7.338	0.021	2.758	98.2	0.01	0	0	0.23	1.56
2002	296	23	2588	318.452	-445.8	D	7.069	7.031	0.038	2.121	97.28	0.01	0	0	0.34	2.36
2002	297	23	2588	318.452	-445.8	D	6.76	6.76	0.001	1.575	69.94	0	0	0	5.61	24.46
2002	298	23	2588	318.452	-445.8	D	9.865	9.646	0.219	8.218	99.19	0.05	0	0	0.03	0.73
2002	299	23	2571	322.646	-445.476	D	9.325	9.298	0.027	7.313	99.4	0.02	0	0	0.01	0.56
2002	300	23	2571	322.646	-445.476	D	8.987	8.965	0.022	6.476	98.6	0.03	0	0	0.21	1.17
2002	301	23	2781	339.842	-425.379	D	10.984	10.218	**0.766**	9.779	99.12	0.1	0	0	0.05	0.73
2002	302	23	2597	318.971	-443.851	D	10.663	9.834	**0.829**	8.723	99.31	0.06	0	0	0.04	0.58
2002	303	23	2571	322.646	-445.476	D	9.028	8.913	0.114	6.348	99.53	0.02	0	0	0.02	0.44
2002	304	23	2527	325.898	-438.476	D	9.078	9.077	0.001	6.754	97.8	0	0	0	0.25	1.79
2002	305	23	1	318.65	-445.782	D	7.72	7.72	0	3.576	0	0	0	0	0	0
2002	306	23	1	318.65	-445.782	D	7.777	7.777	0	3.701	0	0	0	0	0	0
2002	307	23	2789	340.496	-426.449	D	10.254	10.218	0.036	9.779	99.42	0.09	0	0	0.05	0.44
2002	308	23	2789	340.496	-426.449	D	9.253	9.25	0.003	7.192	99.73	0.05	0	0	0.01	0.26
2002	309	23	2789	340.496	-426.449	D	9.367	9.322	0.045	7.375	99.79	0.03	0	0	0.01	0.17
2002	310	23	2571	322.646	-445.476	D	8.035	8.034	0	4.275	99.49	0.02	0	0	0	0.23
2002	311	23	1	318.65	-445.782	D	6.545	6.545	0	1.153	0	0	0	0	0	0
2002	312	23	1	318.65	-445.782	D	6.713	6.713	0	1.482	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	9.044	9.044	0	6.672	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	9.306	9.306	0	7.334	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	315	23	1	318.65	-445.782	D	6.786	6.786	0	1.628	0	0	0	0	0	0
2002	316	23	1	318.65	-445.782	D	6.605	6.605	0	1.27	0	0	0	0	0	0
2002	317	23	1	318.65	-445.782	D	6.613	6.613	0	1.285	0	0	0	0	0	0
2002	318	23	1	318.65	-445.782	D	7.01	7.01	0	2.079	0	0	0	0	0	0
2002	319	23	1	318.65	-445.782	D	9.393	9.393	0	7.558	0	0	0	0	0	0
2002	320	23	1	318.65	-445.782	D	8.404	8.404	0	5.124	0	0	0	0	0	0
2002	321	23	1	318.65	-445.782	D	6.705	6.705	0	1.467	0	0	0	0	0	0
2002	322	23	1	318.65	-445.782	D	6.826	6.826	0	1.707	0	0	0	0	0	0
2002	323	23	1	318.65	-445.782	D	6.805	6.805	0	1.665	0	0	0	0	0	0
2002	324	23	1	318.65	-445.782	D	6.495	6.495	0	1.057	0	0	0	0	0	0
2002	325	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	326	23	1	318.65	-445.782	D	6.938	6.938	0	1.932	0	0	0	0	0	0
2002	327	23	1	318.65	-445.782	D	6.536	6.536	0	1.136	0	0	0	0	0	0
2002	328	23	1	318.65	-445.782	D	6.643	6.643	0	1.345	0	0	0	0	0	0
2002	329	23	1	318.65	-445.782	D	7.36	7.36	0	2.804	0	0	0	0	0	0
2002	330	23	1	318.65	-445.782	D	6.647	6.647	0	1.353	0	0	0	0	0	0
2002	331	23	1	318.65	-445.782	D	6.863	6.863	0	1.781	0	0	0	0	0	0
2002	332	23	1	318.65	-445.782	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2002	333	23	1	318.65	-445.782	D	6.591	6.591	0	1.243	0	0	0	0	0	0
2002	334	23	1	318.65	-445.782	D	6.662	6.662	0	1.382	0	0	0	0	0	0
2002	335	23	1	318.65	-445.782	D	6.502	6.502	0	1.07	0	0	0	0	0	0
2002	336	23	1	318.65	-445.782	D	6.496	6.496	0	1.058	0	0	0	0	0	0
2002	337	23	1	318.65	-445.782	D	6.994	6.994	0	2.046	0	0	0	0	0	0
2002	338	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	95.28	0.01	0	0	0	0.34
2002	339	23	1	318.65	-445.782	D	8.558	8.558	0	5.488	0	0	0	0	0	0
2002	340	23	1	318.65	-445.782	D	8.705	8.705	0	5.84	0	0	0	0	0	0
2002	341	23	1	318.65	-445.782	D	7.075	7.075	0	2.211	0	0	0	0	0	0
2002	342	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	343	23	2588	318.452	-445.8	D	8.447	8.447	0	5.225	71.97	0.01	0	0	10.83	16.93
2002	344	23	1	318.65	-445.782	D	6.856	6.855	0	1.766	76.49	0	0	0	7.56	15.62
2002	345	23	2588	318.452	-445.8	D	8.192	8.185	0.007	4.617	97.15	0	0	0	0.37	2.47
2002	346	23	2707	329.748	-425.023	D	8.221	8.216	0.004	4.689	99.02	0	0	0	0.03	0.94
2002	347	23	2789	340.496	-426.449	D	9.589	9.461	0.128	7.733	99.17	0.13	0	0	0.04	0.66
2002	348	23	2789	340.496	-426.449	D	9.364	9.351	0.014	7.448	99.11	0.13	0	0	0.01	0.74
2002	349	23	1	318.65	-445.782	D	7.033	7.033	0	2.126	0	0	0	0	0	0
2002	350	23	1	318.65	-445.782	D	9.107	9.107	0	6.829	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	9.67	9.67	0	8.285	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	9.899	9.899	0	8.899	0	0	0	0	0	0
2002	353	23	1	318.65	-445.782	D	8.345	8.345	0	4.987	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	354	23	1	318.65	-445.782	D	6.783	6.783	0	1.622	0	0	0	0	0	0
2002	355	23	1	318.65	-445.782	D	6.532	6.532	0	1.128	0	0	0	0	0	0
2002	356	23	1	318.65	-445.782	D	7.006	7.006	0	2.071	0	0	0	0	0	0
2002	357	23	2571	322.646	-445.476	D	7.591	7.59	0.001	3.295	93.5	0.07	0	0	2.01	4.4
2002	358	23	2588	318.452	-445.8	D	9.688	9.673	0.014	8.292	97.47	0.17	0	0	0.47	1.89
2002	359	23	1	318.65	-445.782	D	7.604	7.604	0	3.324	0	0	0	0	0	0
2002	360	23	1	318.65	-445.782	D	6.825	6.825	0	1.705	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	6.876	6.876	0	1.807	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.067	7.067	0	2.195	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.04	7.04	0	2.14	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	10.069	10.069	0	9.364	0	0	0	0	0	0
2002	365	23	1	318.65	-445.782	D	8.777	8.777	0	6.014	0	0	0	0	0	0
									0.841							
INDEPENDENCE											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	2704	329.056	-425.092	D	6.939	6.876	0.063	1.807	73.16	24.66	0	0	0	2.18
2002	2	23	2789	340.496	-426.449	D	7.21	6.89	0.32	1.836	81.68	17.39	0	0	0	0.92
2002	3	23	2597	318.971	-443.851	D	7.462	7.297	0.166	2.67	85.17	14.38	0	0	0	0.46
2002	4	23	2789	340.496	-426.449	D	6.81	6.809	0.001	1.673	88.82	10.65	0	0	0	0.57
2002	5	23	1	318.65	-445.782	D	8.011	8.011	0	4.223	0	0	0	0	0	0
2002	6	23	2589	318.383	-445.593	D	9.744	9.577	0.167	8.037	82.62	17.15	0	0	0	0.22
2002	7	23	2789	340.496	-426.449	D	8.197	7.93	0.267	4.04	75.63	23.51	0	0	0	0.86
2002	8	23	2789	340.496	-426.449	D	6.875	6.874	0.001	1.804	81.14	17.95	0	0	0	0.93
2002	9	23	1	318.65	-445.782	D	6.877	6.877	0	1.81	0	0	0	0	0	0
2002	10	23	2708	329.979	-425	D	9.541	9.393	0.148	7.557	93.38	6.47	0	0	0	0.15
2002	11	23	2789	340.496	-426.449	D	7.517	7.315	0.202	2.709	66.82	31.73	0	0	0	1.45
2002	12	23	2789	340.496	-426.449	D	6.769	6.768	0.001	1.591	88.12	10.48	0	0	0	1.45
2002	13	23	1	318.65	-445.782	D	7.018	7.018	0	2.094	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	6.95	6.95	0	1.957	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	6.62	6.62	0	1.299	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	17	23	2695	328.074	-426.025	D	6.994	6.949	0.045	1.955	68.88	29.2	0	0	0	1.92
2002	18	23	2704	329.056	-425.092	D	8.745	8.733	0.012	5.906	80.98	18.83	0	0	0	0.19
2002	19	23	2758	335.862	-424.454	D	8.964	8.957	0.007	6.455	93.12	6.65	0	0	0	0.22
2002	20	23	2781	339.842	-425.379	D	8.932	8.882	0.05	6.27	93.7	6.23	0	0	0	0.06
2002	21	23	1	318.65	-445.782	D	7.216	7.216	0	2.501	0	0	0	0	0	0
2002	22	23	1	318.65	-445.782	D	7.001	7.001	0	2.059	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	23	23	1	318.65	-445.782	D	9.862	9.862	0	8.798	0	0	0	0	0	0
2002	24	23	2684	326.713	-427.014	D	9.578	9.407	0.171	7.593	88.82	11	0	0	0	0.18
2002	25	23	2552	324.659	-442.591	D	6.99	6.881	0.109	1.817	88.6	11.01	0	0	0	0.39
2002	26	23	2789	340.496	-426.449	D	6.7	6.699	0	1.456	94.56	5.37	0	0	0	0.64
2002	27	23	1	318.65	-445.782	D	6.657	6.657	0	1.373	0	0	0	0	0	0
2002	28	23	1	318.65	-445.782	D	7.081	7.081	0	2.223	0	0	0	0	0	0
2002	29	23	2709	330.21	-424.978	D	9.778	9.753	0.025	8.506	89.74	10.16	0	0	0	0.1
2002	30	23	2711	330.671	-424.932	D	12.178	10.218	**1.96**	9.779	90.6	9.33	0	0	0	0.07
2002	31	23	2704	329.056	-425.092	D	10.236	10.155	0.081	9.603	91.98	7.98	0	0	0	0.04
2002	32	23	2789	340.496	-426.449	D	7.503	7.502	0.001	3.105	93.54	6.44	0	0	0	0.03
2002	33	23	2789	340.496	-426.449	D	7.089	7.088	0.002	2.237	93.56	5.67	0	0	0	0.83
2002	34	23	2789	340.496	-426.449	D	6.818	6.817	0.002	1.688	93.94	5.67	0	0	0	0.4
2002	35	23	2694	327.861	-425.964	D	6.988	6.926	0.062	1.908	62.99	35.5	0	0	0	1.5
2002	36	23	1	318.65	-445.782	D	6.828	6.828	0	1.711	0	0	0	0	0	0
2002	37	23	1	318.65	-445.782	D	9.575	9.575	0	8.033	0	0	0	0	0	0
2002	38	23	2725	331.984	-427.096	D	9.522	9.415	0.107	7.614	88.73	10.9	0	0	0	0.38
2002	39	23	2468	334.002	-434.887	D	7.808	7.724	0.085	3.585	90.83	8.98	0	0	0	0.18
2002	40	23	1	318.65	-445.782	D	9.566	9.566	0	8.007	0	0	0	0	0	0
2002	41	23	1	318.65	-445.782	D	8.083	8.083	0	4.385	0	0	0	0	0	0
2002	42	23	2711	330.671	-424.932	D	7.703	7.55	0.152	3.209	75.47	23.53	0	0	0	0.99
2002	43	23	2781	339.842	-425.379	D	6.621	6.617	0.004	1.293	90.03	8.06	0	0	0	1.92
2002	44	23	2596	318.977	-444.095	D	6.773	6.728	0.045	1.512	87.49	11.12	0	0	0	1.4
2002	45	23	2704	329.056	-425.092	D	6.615	6.591	0.024	1.243	84.19	14.59	0	0	0	1.22
2002	46	23	1	318.65	-445.782	D	7.064	7.064	0	2.189	0	0	0	0	0	0
2002	47	23	1	318.65	-445.782	D	6.737	6.737	0	1.53	0	0	0	0	0	0
2002	48	23	2596	318.977	-444.095	D	6.607	6.574	0.033	1.21	81.53	15.74	0	0	0	2.73
2002	49	23	2589	318.383	-445.593	D	6.636	6.633	0.003	1.325	93.54	5.46	0	0	0	1.03
2002	50	23	1	318.65	-445.782	D	8.708	8.708	0	5.847	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	9.05	9.05	0	6.686	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	6.911	6.911	0	1.879	0	0	0	0	0	0
2002	53	23	2589	318.383	-445.593	D	6.802	6.779	0.022	1.614	72.75	24.94	0	0	0	2.31
2002	54	23	2661	325.283	-432.004	D	6.722	6.697	0.025	1.45	88.05	10.99	0	0	0	0.95
2002	55	23	2789	340.496	-426.449	D	6.795	6.794	0.001	1.643	94.53	4.97	0	0	0	0.52
2002	56	23	2589	318.383	-445.593	D	8.443	8.076	0.367	4.369	84.69	15.09	0	0	0	0.22
2002	57	23	2709	330.21	-424.978	D	7.757	7.666	0.091	3.459	85.57	14.15	0	0	0	0.29
2002	58	23	1	318.65	-445.782	D	6.708	6.708	0	1.472	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	6.508	6.508	0	1.082	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.98	7.98	0	4.153	0	0	0	0	0	0
2002	61	23	2784	339.87	-426.019	D	9.782	9.765	0.017	8.538	82.23	17.59	0	0	0	0.17

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	62	23	1	318.65	-445.782	D	7.265	7.265	0	2.605	0	0	0	0	0	0
2002	63	23	1	318.65	-445.782	D	7.154	7.154	0	2.374	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	6.603	6.603	0	1.266	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.141	7.141	0	2.346	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	9.603	9.603	0	8.106	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	8.845	8.845	0	6.18	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	6.753	6.753	0	1.563	0	0	0	0	0	0
2002	70	23	1	318.65	-445.782	D	7.416	7.416	0	2.922	0	0	0	0	0	0
2002	71	23	2684	326.713	-427.014	D	9.356	9.355	0.001	7.46	97.7	1.39	0	0	0	1
2002	72	23	2781	339.842	-425.379	D	6.917	6.863	0.054	1.782	93.29	6.21	0	0	0	0.5
2002	73	23	2789	340.496	-426.449	D	7.98	7.979	0.001	4.15	97.74	2.15	0	0	0	0.19
2002	74	23	2609	319.563	-441.09	D	10.416	10.107	0.309	9.471	88.43	11.46	0	0	0	0.11
2002	75	23	2571	322.646	-445.476	D	7.823	7.789	0.034	3.728	94.61	5.28	0	0	0	0.11
2002	76	23	1	318.65	-445.782	D	8.42	8.42	0	5.161	0	0	0	0	0	0
2002	77	23	1	318.65	-445.782	D	9.608	9.608	0	8.119	0	0	0	0	0	0
2002	78	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	79	23	1	318.65	-445.782	D	9.393	9.393	0	7.557	0	0	0	0	0	0
2002	80	23	2662	325.404	-431.803	D	8.455	8.348	0.107	4.994	89.67	10.04	0	0	0	0.29
2002	81	23	2614	319.957	-439.987	D	6.565	6.539	0.027	1.141	73.17	24.13	0	0	0	2.69
2002	82	23	2255	335.942	-426.039	D	6.907	6.868	0.039	1.791	84.41	14.87	0	0	0	0.72
2002	83	23	1	318.65	-445.782	D	8.743	8.743	0	5.932	0	0	0	0	0	0
2002	84	23	2757	335.63	-424.484	D	10.221	10.218	0.003	9.779	94.43	5.46	0	0	0	0.02
2002	85	23	2597	318.971	-443.851	D	8.602	8.593	0.01	5.57	92.17	7.57	0	0	0	0.25
2002	86	23	2694	327.861	-425.964	D	8.346	7.921	0.425	4.021	93.7	6.17	0	0	0	0.14
2002	87	23	1242	327.988	-426.138	D	7.267	7.267	0	2.608	99.05	0.46	0	0	0	0.37
2002	88	23	2693	327.829	-426.17	D	8.802	8.74	0.062	5.924	99.17	0.52	0	0	0	0.32
2002	89	23	2588	318.452	-445.8	D	7.749	7.669	0.079	3.466	98.57	1.24	0	0	0	0.19
2002	90	23	2684	326.713	-427.014	D	8.378	8.377	0.001	5.061	97.55	0.96	0	0	0	1.41
2002	91	23	2789	340.496	-426.449	D	6.731	6.723	0.008	1.502	97.2	1.76	0	0	0	1.04
2002	92	23	2789	340.496	-426.449	D	7.72	7.637	0.083	3.396	97.41	2.23	0	0	0	0.36
2002	93	23	2571	322.646	-445.476	D	6.699	6.697	0.001	1.452	98.43	1.31	0	0	0	0.34
2002	94	23	1	318.65	-445.782	D	6.669	6.669	0	1.395	0	0	0	0	0	0
2002	95	23	1	318.65	-445.782	D	6.574	6.574	0	1.209	0	0	0	0	0	0
2002	96	23	2781	339.842	-425.379	D	6.554	6.554	0	1.171	98.46	0.53	0	0	0	0.86
2002	97	23	2789	340.496	-426.449	D	8.246	8.245	0.001	4.755	98	1.83	0	0	0	0.32
2002	98	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	99	23	2781	339.842	-425.379	D	10.305	9.162	**1.143**	6.967	93.47	6.44	0	0	0	0.09
2002	100	23	1	318.65	-445.782	D	7.563	7.563	0	3.237	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	101	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0
2002	102	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	103	23	1	318.65	-445.782	D	8.889	8.889	0	6.287	0	0	0	0	0	0
2002	104	23	2707	329.748	-425.023	D	9.135	9.135	0.001	6.898	99.68	0.21	0	0	0	0.07
2002	105	23	1	318.65	-445.782	D	8.516	8.516	0	5.389	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.596	7.596	0	3.307	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	8.247	8.247	0	4.758	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	8.641	8.641	0	5.687	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.663	7.663	0	3.453	0	0	0	0	0	0
2002	110	23	1	318.65	-445.782	D	9.387	9.387	0	7.541	0	0	0	0	0	0
2002	111	23	1	318.65	-445.782	D	8.234	8.234	0	4.73	0	0	0	0	0	0
2002	112	23	2789	340.496	-426.449	D	6.875	6.874	0.001	1.804	97.95	0.69	0	0	0	1.5
2002	113	23	2789	340.496	-426.449	D	7.254	7.251	0.003	2.576	98.72	0.66	0	0	0	0.64
2002	114	23	1	318.65	-445.782	D	8.745	8.745	0	5.937	0	0	0	0	0	0
2002	115	23	2684	326.713	-427.014	D	6.791	6.763	0.028	1.581	95.05	4.05	0	0	0	0.9
2002	116	23	2781	339.842	-425.379	D	7.974	7.973	0.001	4.137	97.23	2.55	0	0	0	0.11
2002	117	23	1	318.65	-445.782	D	9.613	9.613	0	8.132	0	0	0	0	0	0
2002	118	23	1	318.65	-445.782	D	8.893	8.893	0	6.297	0	0	0	0	0	0
2002	119	23	2781	339.842	-425.379	D	6.848	6.783	0.065	1.621	98.32	0.9	0	0	0	0.78
2002	120	23	2708	329.979	-425	D	7.918	7.869	0.049	3.905	99.47	0.31	0	0	0	0.22
2002	121	23	2749	333.775	-424.726	D	9.301	9.301	0	7.322	98.28	0.34	0	0	0	0.04
2002	122	23	2704	329.056	-425.092	D	9.031	8.782	0.249	6.026	90.8	9.05	0	0	0	0.15
2002	123	23	2236	336.149	-430.776	D	7.217	7.217	0	2.503	95.08	0.77	0	0	0	0.06
2002	124	23	1	318.65	-445.782	D	9.125	9.125	0	6.875	0	0	0	0	0	0
2002	125	23	1	318.65	-445.782	D	8.379	8.379	0	5.065	0	0	0	0	0	0
2002	126	23	1	318.65	-445.782	D	8.615	8.615	0	5.623	0	0	0	0	0	0
2002	127	23	1	318.65	-445.782	D	8.423	8.423	0	5.168	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	129	23	2661	325.283	-432.004	D	8.518	8.444	0.073	5.219	91.14	8.24	0	0	0	0.62
2002	130	23	2628	320.933	-436.998	D	6.958	6.934	0.024	1.925	98.07	0.96	0	0	0	0.97
2002	131	23	2758	335.862	-424.454	D	8.437	8.437	0	5.201	99.21	0.45	0	0	0	0.03
2002	132	23	1	318.65	-445.782	D	9.38	9.38	0	7.523	0	0	0	0	0	0
2002	133	23	2684	326.713	-427.014	D	9.095	8.562	**0.533**	5.497	95.67	4.26	0	0	0	0.07
2002	134	23	2789	340.496	-426.449	D	6.777	6.761	0.016	1.578	98.08	0.95	0	0	0	0.98
2002	135	23	2789	340.496	-426.449	D	6.815	6.815	0	1.685	94.31	0.6	0	0	0	0.33
2002	136	23	1	318.65	-445.782	D	7.384	7.384	0	2.855	0	0	0	0	0	0
2002	137	23	1	318.65	-445.782	D	10.134	10.134	0	9.545	0	0	0	0	0	0
2002	138	23	1	318.65	-445.782	D	7.964	7.964	0	4.116	0	0	0	0	0	0
2002	139	23	2694	327.861	-425.964	D	6.922	6.865	0.058	1.785	97.63	1.45	0	0	0	0.91

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	140	23	2789	340.496	-426.449	D	6.962	6.892	0.07	1.841	96.66	2.77	0	0	0	0.57
2002	141	23	2588	318.452	-445.8	D	6.727	6.72	0.007	1.496	98.85	0.63	0	0	0	0.53
2002	142	23	2694	327.861	-425.964	D	6.706	6.705	0.001	1.466	99.41	0.3	0	0	0	0.3
2002	143	23	1	318.65	-445.782	D	6.812	6.812	0	1.679	0	0	0	0	0	0
2002	144	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2002	145	23	1	318.65	-445.782	D	8.137	8.137	0	4.507	0	0	0	0	0	0
2002	146	23	1	318.65	-445.782	D	8.441	8.441	0	5.212	0	0	0	0	0	0
2002	147	23	1	318.65	-445.782	D	8.905	8.905	0	6.327	0	0	0	0	0	0
2002	148	23	1	318.65	-445.782	D	8.901	8.901	0	6.317	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	9.28	9.28	0	7.267	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	8.533	8.533	0	5.428	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.158	7.158	0	2.382	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.878	7.878	0	3.924	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	8.029	8.029	0	4.264	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.439	7.439	0	2.97	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.015	7.015	0	2.089	0	0	0	0	0	0
2002	156	23	2707	329.748	-425.023	D	9.115	9.113	0.002	6.844	99.46	0.39	0	0	0	0.08
2002	157	23	2789	340.496	-426.449	D	8.9	8.726	0.174	5.891	97.98	1.96	0	0	0	0.06
2002	158	23	2684	326.713	-427.014	D	6.914	6.904	0.009	1.864	99.47	0.09	0	0	0	0.44
2002	159	23	1	318.65	-445.782	D	6.894	6.894	0	1.844	0	0	0	0	0	0
2002	160	23	1	318.65	-445.782	D	7.528	7.528	0	3.16	0	0	0	0	0	0
2002	161	23	1	318.65	-445.782	D	9.508	9.508	0	7.855	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	8.531	8.531	0	5.424	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	8.238	8.238	0	4.74	0	0	0	0	0	0
2002	164	23	1	318.65	-445.782	D	8.172	8.172	0	4.588	0	0	0	0	0	0
2002	165	23	1454	329.998	-432.294	D	7.922	7.545	0.377	3.197	98.5	1.36	0	0	0	0.13
2002	166	23	2789	340.496	-426.449	D	6.696	6.695	0	1.448	92.1	5.2	0	0	0	2.98
2002	167	23	1990	333.959	-431.871	D	6.75	6.75	0	1.556	93.34	0.03	0	0	0	0.51
2002	168	23	2781	339.842	-425.379	D	6.828	6.754	0.074	1.564	99.23	0.32	0	0	0	0.44
2002	169	23	2789	340.496	-426.449	D	6.773	6.716	0.057	1.488	99.56	0.09	0	0	0	0.35
2002	170	23	2781	339.842	-425.379	D	6.895	6.885	0.011	1.825	99.7	0.08	0	0	0	0.23
2002	171	23	2337	337.15	-425.236	D	7.628	7.628	0	3.377	97.3	0.02	0	0	0	0.23
2002	172	23	1	318.65	-445.782	D	8.033	8.033	0	4.272	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.251	7.251	0	2.574	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.025	7.025	0	2.108	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	8.073	8.073	0	4.363	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	8.808	8.808	0	6.089	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	8.838	8.838	0	6.163	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	179	23	2789	340.496	-426.449	D	7.875	7.874	0.001	3.915	99.79	0.04	0	0	0	0.28
2002	180	23	2789	340.496	-426.449	D	7.988	7.983	0.005	4.16	99.8	0.06	0	0	0	0.16
2002	181	23	1	318.65	-445.782	D	8.264	8.264	0	4.798	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	6.882	6.882	0	1.82	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	6.978	6.978	0	2.014	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	8.892	8.892	0	6.295	0	0	0	0	0	0
2002	185	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2002	186	23	1	318.65	-445.782	D	8.01	8.01	0	4.221	0	0	0	0	0	0
2002	187	23	1	318.65	-445.782	D	7.431	7.431	0	2.954	0	0	0	0	0	0
2002	188	23	1	318.65	-445.782	D	7.851	7.851	0	3.864	0	0	0	0	0	0
2002	189	23	1	318.65	-445.782	D	6.865	6.865	0	1.786	0	0	0	0	0	0
2002	190	23	1	318.65	-445.782	D	6.746	6.746	0	1.548	0	0	0	0	0	0
2002	191	23	1	318.65	-445.782	D	6.966	6.966	0	1.988	0	0	0	0	0	0
2002	192	23	2789	340.496	-426.449	D	7.753	7.745	0.008	3.631	98.88	0.96	0	0	0	0.16
2002	193	23	2789	340.496	-426.449	D	8.515	8.484	0.031	5.313	99.68	0.25	0	0	0	0.08
2002	194	23	2789	340.496	-426.449	D	9.33	9.321	0.008	7.372	98.99	0.98	0	0	0	0.03
2002	195	23	1	318.65	-445.782	D	8.806	8.806	0	6.085	0	0	0	0	0	0
2002	196	23	1	318.65	-445.782	D	8.017	8.017	0	4.235	0	0	0	0	0	0
2002	197	23	1	318.65	-445.782	D	7.428	7.428	0	2.948	0	0	0	0	0	0
2002	198	23	1	318.65	-445.782	D	9.517	9.517	0	7.879	0	0	0	0	0	0
2002	199	23	1	318.65	-445.782	D	8.871	8.871	0	6.243	0	0	0	0	0	0
2002	200	23	1	318.65	-445.782	D	9.09	9.09	0	6.785	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.7	7.7	0	3.533	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.888	7.888	0	3.947	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.159	7.159	0	2.385	0	0	0	0	0	0
2002	204	23	2708	329.979	-425	D	7.132	7.119	0.014	2.301	99.51	0.11	0	0	0	0.38
2002	205	23	2563	323.259	-443.79	D	7.562	7.46	0.101	3.016	99.68	0.21	0	0	0	0.11
2002	206	23	1	318.65	-445.782	D	7.188	7.188	0	2.445	0	0	0	0	0	0
2002	207	23	1	318.65	-445.782	D	6.99	6.99	0	2.038	0	0	0	0	0	0
2002	208	23	1	318.65	-445.782	D	7.99	7.99	0	4.174	0	0	0	0	0	0
2002	209	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.824	7.824	0	3.806	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	8.482	8.482	0	5.307	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.166	7.166	0	2.398	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.644	7.644	0	3.411	0	0	0	0	0	0
2002	214	23	2782	339.852	-425.592	D	7.317	7.317	0	2.713	99.27	0.04	0	0	0	0.12
2002	215	23	2468	334.002	-434.887	D	8.113	8.111	0.002	4.448	99.97	0.02	0	0	0	0.06
2002	216	23	2694	327.861	-425.964	D	7.484	7.482	0.001	3.063	99.87	0.02	0	0	0	0.08
2002	217	23	2035	333.967	-426.375	D	7.402	7.402	0	2.892	99.41	0.01	0	0	0	0.08

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	218	23	2709	330.21	-424.978	D	6.806	6.805	0.002	1.664	99.54	0.12	0	0	0	0.29
2002	219	23	2709	330.21	-424.978	D	8.655	8.64	0.015	5.684	99.75	0.18	0	0	0	0.07
2002	220	23	1	318.65	-445.782	D	6.92	6.92	0	1.895	0	0	0	0	0	0
2002	221	23	1	318.65	-445.782	D	6.724	6.724	0	1.505	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.045	7.045	0	2.15	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.191	7.191	0	2.45	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	6.912	6.912	0	1.88	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	8.619	8.619	0	5.634	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	9.936	9.936	0	9	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	8.318	8.318	0	4.925	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	8.739	8.739	0	5.922	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	8.63	8.63	0	5.658	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.926	7.926	0	4.031	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	6.941	6.941	0	1.939	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	6.972	6.972	0	2.001	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.651	7.651	0	3.426	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.084	7.084	0	2.23	0	0	0	0	0	0
2002	236	23	2789	340.496	-426.449	D	8.053	7.906	0.147	3.987	99.57	0.21	0	0	0	0.22
2002	237	23	2561	323.441	-443.393	D	8.719	8.663	0.055	5.739	98.55	1.35	0	0	0	0.1
2002	238	23	2571	322.646	-445.476	D	7.882	7.881	0.001	3.932	99.76	0.06	0	0	0	0.13
2002	239	23	1	318.65	-445.782	D	6.98	6.98	0	2.017	0	0	0	0	0	0
2002	240	23	1	318.65	-445.782	D	7.508	7.508	0	3.117	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.124	7.124	0	2.313	0	0	0	0	0	0
2002	242	23	1	318.65	-445.782	D	7.14	7.14	0	2.344	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.361	7.361	0	2.805	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.134	7.134	0	2.332	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	6.909	6.909	0	1.875	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	6.972	6.972	0	2.002	0	0	0	0	0	0
2002	247	23	2784	339.87	-426.019	D	6.927	6.924	0.003	1.904	99.4	0.03	0	0	0	0.57
2002	248	23	2758	335.862	-424.454	D	7.373	7.326	0.047	2.732	99.64	0.14	0	0	0	0.22
2002	249	23	2704	329.056	-425.092	D	6.808	6.799	0.009	1.653	99.61	0.03	0	0	0	0.34
2002	250	23	1415	329.185	-425.086	D	6.75	6.75	0	1.555	99.47	0.01	0	0	0	0.41
2002	251	23	1	318.65	-445.782	D	7.423	7.423	0	2.937	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.171	7.171	0	2.409	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.202	7.202	0	2.474	0	0	0	0	0	0
2002	254	23	2709	330.21	-424.978	D	7.09	7.068	0.022	2.197	96.01	3.44	0	0	0	0.55
2002	255	23	2571	322.646	-445.476	D	8.076	8.076	0	4.368	99.69	0.03	0	0	0	0.39
2002	256	23	1	318.65	-445.782	D	6.68	6.68	0	1.418	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	257	23	1	318.65	-445.782	D	6.656	6.656	0	1.371	0	0	0	0	0	0
2002	258	23	2684	326.713	-427.014	D	8.441	8.372	0.069	5.048	99.12	0.58	0	0	0	0.29
2002	259	23	2597	318.971	-443.851	D	9.031	8.462	**0.569**	5.26	98.81	1.09	0	0	0	0.1
2002	260	23	2781	339.842	-425.379	D	8.017	7.812	0.205	3.779	99.25	0.63	0	0	0	0.11
2002	261	23	2784	339.87	-426.019	D	8.447	8.444	0.003	5.217	98.68	1.21	0	0	0	0.12
2002	262	23	1	318.65	-445.782	D	9.39	9.39	0	7.549	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	9.262	9.262	0	7.221	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	6.8	6.8	0	1.655	0	0	0	0	0	0
2002	265	23	2628	320.933	-436.998	D	6.854	6.786	0.067	1.628	98.82	0.74	0	0	0	0.44
2002	266	23	2644	323.22	-434.992	D	6.606	6.599	0.008	1.258	95.33	3.02	0	0	0	1.64
2002	267	23	2709	330.21	-424.978	D	6.554	6.549	0.005	1.161	98.28	0.84	0	0	0	0.92
2002	268	23	2758	335.862	-424.454	D	6.84	6.826	0.013	1.708	98.94	0.64	0	0	0	0.42
2002	269	23	1	318.65	-445.782	D	7.39	7.39	0	2.867	0	0	0	0	0	0
2002	270	23	2694	327.861	-425.964	D	7.346	7.345	0.001	2.772	98.81	0.1	0	0	0	1.19
2002	271	23	2704	329.056	-425.092	D	6.813	6.804	0.009	1.663	98.89	0.46	0	0	0	0.63
2002	272	23	1	318.65	-445.782	D	7.197	7.197	0	2.463	0	0	0	0	0	0
2002	273	23	1	318.65	-445.782	D	7.371	7.371	0	2.827	0	0	0	0	0	0
2002	274	23	1	318.65	-445.782	D	6.966	6.966	0	1.989	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.239	7.239	0	2.549	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.523	7.523	0	3.151	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	9.147	9.147	0	6.929	0	0	0	0	0	0
2002	278	23	2789	340.496	-426.449	D	7.088	7.043	0.045	2.146	77.2	21.73	0	0	0	1.07
2002	279	23	2599	318.958	-443.364	D	6.807	6.801	0.006	1.658	98.82	0.58	0	0	0	0.58
2002	280	23	2789	340.496	-426.449	D	6.858	6.829	0.03	1.713	92.24	5.58	0	0	0	2.18
2002	281	23	1	318.65	-445.782	D	6.562	6.562	0	1.186	0	0	0	0	0	0
2002	282	23	1	318.65	-445.782	D	8.768	8.768	0	5.993	0	0	0	0	0	0
2002	283	23	1	318.65	-445.782	D	9.852	9.852	0	8.772	0	0	0	0	0	0
2002	284	23	1	318.65	-445.782	D	9.433	9.433	0	7.662	0	0	0	0	0	0
2002	285	23	1	318.65	-445.782	D	9.046	9.046	0	6.677	0	0	0	0	0	0
2002	286	23	2789	340.496	-426.449	D	8.47	8.062	0.408	4.338	95.33	4.58	0	0	0	0.08
2002	287	23	1	318.65	-445.782	D	6.522	6.522	0	1.109	0	0	0	0	0	0
2002	288	23	2600	318.952	-443.12	D	6.525	6.506	0.019	1.078	96.25	1.49	0	0	0	2.26
2002	289	23	2589	318.383	-445.593	D	6.554	6.548	0.006	1.158	94.28	4.03	0	0	0	1.7
2002	290	23	1	318.65	-445.782	D	6.977	6.977	0	2.01	0	0	0	0	0	0
2002	291	23	1	318.65	-445.782	D	6.645	6.645	0	1.348	0	0	0	0	0	0
2002	292	23	2704	329.056	-425.092	D	10.093	9.785	0.308	8.591	90.6	9.3	0	0	0	0.09
2002	293	23	2588	318.452	-445.8	D	9.587	9.4	0.187	7.576	94.24	5.71	0	0	0	0.05
2002	294	23	2588	318.452	-445.8	D	6.977	6.975	0.002	2.008	98.51	1.36	0	0	0	0.16
2002	295	23	2588	318.452	-445.8	D	7.449	7.448	0	2.991	99.34	0.45	0	0	0	0.11

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	296	23	1	318.65	-445.782	D	7.031	7.031	0	2.121	0	0	0	0	0	0
2002	297	23	1	318.65	-445.782	D	6.76	6.76	0	1.575	0	0	0	0	0	0
2002	298	23	1	318.65	-445.782	D	9.646	9.646	0	8.218	0	0	0	0	0	0
2002	299	23	2781	339.842	-425.379	D	9.422	9.336	0.085	7.411	93.17	6.47	0	0	0	0.36
2002	300	23	2597	318.971	-443.851	D	9.666	9.124	**0.542**	6.872	92.89	6.99	0	0	0	0.12
2002	301	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	302	23	1	318.65	-445.782	D	9.773	9.773	0	8.559	0	0	0	0	0	0
2002	303	23	1	318.65	-445.782	D	8.913	8.913	0	6.348	0	0	0	0	0	0
2002	304	23	2600	318.952	-443.12	D	9.392	9.1	0.293	6.81	78.89	20.64	0	0	0	0.46
2002	305	23	2600	318.952	-443.12	D	8.25	8.109	0.141	4.444	91.74	8.02	0	0	0	0.24
2002	306	23	2758	335.862	-424.454	D	7.918	7.74	0.178	3.621	91.14	8.48	0	0	0	0.39
2002	307	23	2781	339.842	-425.379	D	10.229	10.218	0.012	9.779	93.62	6.31	0	0	0	0.07
2002	308	23	2781	339.842	-425.379	D	9.253	9.252	0.001	7.196	93.37	6.34	0	0	0	0.24
2002	309	23	2781	339.842	-425.379	D	9.262	9.26	0.003	7.216	94.42	5.39	0	0	0	0.15
2002	310	23	2789	340.496	-426.449	D	8.1	8.072	0.028	4.359	94.58	5.34	0	0	0	0.08
2002	311	23	1	318.65	-445.782	D	6.545	6.545	0	1.153	0	0	0	0	0	0
2002	312	23	1	318.65	-445.782	D	6.713	6.713	0	1.482	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	9.044	9.044	0	6.672	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	9.306	9.306	0	7.334	0	0	0	0	0	0
2002	315	23	2781	339.842	-425.379	D	6.81	6.809	0.001	1.673	79.85	17.68	0	0	0	2.55
2002	316	23	2236	336.149	-430.776	D	6.67	6.633	0.037	1.326	82.51	15.8	0	0	0	1.68
2002	317	23	2781	339.842	-425.379	D	6.61	6.606	0.004	1.273	88.01	10.08	0	0	0	1.91
2002	318	23	1	318.65	-445.782	D	7.01	7.01	0	2.079	0	0	0	0	0	0
2002	319	23	2781	339.842	-425.379	D	9.532	9.464	0.068	7.741	88.31	11.59	0	0	0	0.11
2002	320	23	2694	327.861	-425.964	D	8.986	8.986	0	6.527	86.22	12.03	0	0	0	1.87
2002	321	23	2789	340.496	-426.449	D	6.736	6.721	0.014	1.499	84.55	14.09	0	0	0	1.37
2002	322	23	1	318.65	-445.782	D	6.826	6.826	0	1.707	0	0	0	0	0	0
2002	323	23	2789	340.496	-426.449	D	6.829	6.829	0	1.713	94.12	1.93	0	0	0	1.92
2002	324	23	2789	340.496	-426.449	D	6.494	6.493	0	1.053	92.44	5.51	0	0	0	1.37
2002	325	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	326	23	2589	318.383	-445.593	D	6.954	6.938	0.017	1.932	85.28	12.1	0	0	0	2.62
2002	327	23	2468	334.002	-434.887	D	6.541	6.538	0.003	1.14	89.26	9.36	0	0	0	1.35
2002	328	23	1415	329.185	-425.086	D	6.635	6.635	0	1.329	95.53	3.99	0	0	0	0.59
2002	329	23	2571	322.646	-445.476	D	7.374	7.36	0.013	2.804	93.43	6.42	0	0	0	0.15
2002	330	23	1	318.65	-445.782	D	6.647	6.647	0	1.353	0	0	0	0	0	0
2002	331	23	2628	320.933	-436.998	D	6.9	6.899	0.001	1.853	83.84	14.57	0	0	0	1.66
2002	332	23	2704	329.056	-425.092	D	6.595	6.588	0.007	1.238	83.19	15.86	0	0	0	0.95
2002	333	23	1	318.65	-445.782	D	6.591	6.591	0	1.243	0	0	0	0	0	0
2002	334	23	1	318.65	-445.782	D	6.662	6.662	0	1.382	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	335	23	2789	340.496	-426.449	D	6.503	6.503	0	1.072	61.25	34.05	0	0	0	4.83
2002	336	23	1	318.65	-445.782	D	6.496	6.496	0	1.058	0	0	0	0	0	0
2002	337	23	2597	318.971	-443.851	D	7.162	7.074	0.088	2.209	87.11	12.08	0	0	0	0.81
2002	338	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	339	23	2694	327.861	-425.964	D	8.62	8.615	0.005	5.623	83.57	15.5	0	0	0	0.93
2002	340	23	2448	335.908	-431.021	D	8.992	8.925	0.068	6.375	85.46	14.22	0	0	0	0.32
2002	341	23	1	318.65	-445.782	D	7.075	7.075	0	2.211	0	0	0	0	0	0
2002	342	23	2758	335.862	-424.454	D	7.486	7.48	0.006	3.058	94.4	5.51	0	0	0	0.07
2002	343	23	2758	335.862	-424.454	D	8.733	8.492	0.241	5.33	94.64	5.31	0	0	0	0.05
2002	344	23	1	318.65	-445.782	D	6.855	6.855	0	1.766	0	0	0	0	0	0
2002	345	23	1	318.65	-445.782	D	8.185	8.185	0	4.617	0	0	0	0	0	0
2002	346	23	1	318.65	-445.782	D	8.309	8.309	0	4.902	0	0	0	0	0	0
2002	347	23	2597	318.971	-443.851	D	9.597	9.457	0.14	7.724	92.12	7.73	0	0	0	0.15
2002	348	23	175	321.056	-443.928	D	10.244	9.264	**0.981**	7.226	92.5	7.4	0	0	0	0.1
2002	349	23	1	318.65	-445.782	D	7.033	7.033	0	2.126	0	0	0	0	0	0
2002	350	23	1	318.65	-445.782	D	9.107	9.107	0	6.829	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	9.67	9.67	0	8.285	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	9.899	9.899	0	8.899	0	0	0	0	0	0
2002	353	23	2784	339.87	-426.019	D	8.233	8.178	0.054	4.602	87.54	11.83	0	0	0	0.63
2002	354	23	2789	340.496	-426.449	D	6.781	6.781	0	1.617	87.32	11.9	0	0	0	0.63
2002	355	23	1	318.65	-445.782	D	6.532	6.532	0	1.128	0	0	0	0	0	0
2002	356	23	2781	339.842	-425.379	D	7.011	7.01	0.001	2.078	79.04	20.44	0	0	0	0.55
2002	357	23	2571	322.646	-445.476	D	7.617	7.59	0.027	3.295	88.69	11.21	0	0	0	0.1
2002	358	23	2588	318.452	-445.8	D	9.794	9.673	0.121	8.292	85.11	14.81	0	0	0	0.08
2002	359	23	2597	318.971	-443.851	D	7.66	7.598	0.062	3.312	89.47	10.38	0	0	0	0.15
2002	360	23	1	318.65	-445.782	D	6.825	6.825	0	1.705	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	6.876	6.876	0	1.807	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.067	7.067	0	2.195	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.04	7.04	0	2.14	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	10.069	10.069	0	9.364	0	0	0	0	0	0
2002	365	23	1548	330.222	-426.04	D	8.868	8.824	0.044	6.128	85.66	14.2	0	0	0	0.13
									1.96							
MARSHALL											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	1	318.65	-445.782	D	6.842	6.842	0	1.74	0	0	0	0	0	0
2002	2	23	2789	340.496	-426.449	D	6.912	6.89	0.022	1.836	67.04	31.37	0	0	0	1.59
2002	3	23	2789	340.496	-426.449	D	7.358	7.288	0.07	2.652	67.7	31.45	0	0	0	0.85

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	4	23	1	318.65	-445.782	D	6.816	6.816	0	1.687	0	0	0	0	0	0
2002	5	23	1	318.65	-445.782	D	8.011	8.011	0	4.223	0	0	0	0	0	0
2002	6	23	1	318.65	-445.782	D	9.577	9.577	0	8.037	0	0	0	0	0	0
2002	7	23	1	318.65	-445.782	D	7.828	7.828	0	3.813	0	0	0	0	0	0
2002	8	23	1	318.65	-445.782	D	6.896	6.896	0	1.848	0	0	0	0	0	0
2002	9	23	1	318.65	-445.782	D	6.877	6.877	0	1.81	0	0	0	0	0	0
2002	10	23	2653	324.014	-433.36	D	9.684	9.528	0.156	7.91	81.46	18.21	0	0	0	0.33
2002	11	23	2789	340.496	-426.449	D	7.362	7.315	0.047	2.709	88.21	11.36	0	0	0	0.43
2002	12	23	1	318.65	-445.782	D	6.82	6.82	0	1.694	0	0	0	0	0	0
2002	13	23	1	318.65	-445.782	D	7.018	7.018	0	2.094	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	6.95	6.95	0	1.957	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	6.62	6.62	0	1.299	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	17	23	2789	340.496	-426.449	D	6.944	6.933	0.011	1.921	60.51	36.81	0	0	0	2.68
2002	18	23	2623	320.666	-438.044	D	8.871	8.773	0.098	6.005	65.5	34.21	0	0	0	0.29
2002	19	23	2758	335.862	-424.454	D	8.963	8.957	0.006	6.455	86.24	13.45	0	0	0	0.3
2002	20	23	2789	340.496	-426.449	D	8.959	8.858	0.101	6.211	83.49	16.4	0	0	0	0.11
2002	21	23	1	318.65	-445.782	D	7.216	7.216	0	2.501	0	0	0	0	0	0
2002	22	23	1	318.65	-445.782	D	7.001	7.001	0	2.059	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	9.862	9.862	0	8.798	0	0	0	0	0	0
2002	24	23	2789	340.496	-426.449	D	9.407	9.407	0	7.593	75.07	24.5	0	0	0	0.43
2002	25	23	1	318.65	-445.782	D	6.855	6.855	0	1.765	0	0	0	0	0	0
2002	26	23	1	318.65	-445.782	D	6.706	6.706	0	1.468	0	0	0	0	0	0
2002	27	23	1	318.65	-445.782	D	6.657	6.657	0	1.373	0	0	0	0	0	0
2002	28	23	1	318.65	-445.782	D	7.081	7.081	0	2.223	0	0	0	0	0	0
2002	29	23	1	318.65	-445.782	D	9.828	9.828	0	8.707	0	0	0	0	0	0
2002	30	23	2758	335.862	-424.454	D	11.045	10.218	**0.827**	9.779	85.34	14.56	0	0	0	0.1
2002	31	23	2694	327.861	-425.964	D	10.619	10.155	0.464	9.603	86.88	13.06	0	0	0	0.06
2002	32	23	2781	339.842	-425.379	D	7.479	7.475	0.004	3.047	89.17	10.77	0	0	0	0.04
2002	33	23	2789	340.496	-426.449	D	7.088	7.088	0	2.237	86.92	9.48	0	0	0	0.88
2002	34	23	1	318.65	-445.782	D	6.798	6.798	0	1.652	0	0	0	0	0	0
2002	35	23	2255	335.942	-426.039	D	6.928	6.918	0.01	1.891	73.17	24.49	0	0	0	2.33
2002	36	23	2589	318.383	-445.593	D	6.835	6.828	0.007	1.711	76.4	22.32	0	0	0	1.25
2002	37	23	2694	327.861	-425.964	D	9.612	9.611	0	8.127	82.9	17.01	0	0	0	0.12
2002	38	23	2758	335.862	-424.454	D	9.416	9.415	0.001	7.614	87.29	12.43	0	0	0	0.14
2002	39	23	2210	335.901	-430.787	D	7.715	7.715	0.001	3.565	90.35	9.43	0	0	0	0.14
2002	40	23	2781	339.842	-425.379	D	9.315	9.315	0	7.357	92.14	6.81	0	0	0	0.08
2002	41	23	1	318.65	-445.782	D	8.083	8.083	0	4.385	0	0	0	0	0	0
2002	42	23	1	318.65	-445.782	D	7.47	7.47	0	3.037	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	43	23	1	318.65	-445.782	D	6.601	6.601	0	1.262	0	0	0	0	0	0
2002	44	23	2694	327.861	-425.964	D	6.751	6.701	0.049	1.46	51.71	45.59	0	0	0	2.7
2002	45	23	2789	340.496	-426.449	D	6.591	6.586	0.005	1.234	76.22	22.21	0	0	0	1.57
2002	46	23	2399	338.683	-426.168	D	6.985	6.985	0	2.028	82.05	13.7	0	0	0	0.45
2002	47	23	1	318.65	-445.782	D	6.737	6.737	0	1.53	0	0	0	0	0	0
2002	48	23	2789	340.496	-426.449	D	6.568	6.562	0.006	1.186	76.04	20.5	0	0	0	3.45
2002	49	23	2708	329.979	-425	D	6.634	6.631	0.003	1.322	84.75	13.74	0	0	0	1.5
2002	50	23	1	318.65	-445.782	D	8.708	8.708	0	5.847	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	9.05	9.05	0	6.686	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	6.911	6.911	0	1.879	0	0	0	0	0	0
2002	53	23	2790	340.421	-426.562	D	6.829	6.81	0.02	1.674	60.02	37.76	0	0	0	2.23
2002	54	23	2789	340.496	-426.449	D	6.697	6.687	0.009	1.432	79.02	19.43	0	0	0	1.54
2002	55	23	2789	340.496	-426.449	D	6.794	6.794	0	1.643	87.99	11.14	0	0	0	0.74
2002	56	23	2789	340.496	-426.449	D	8.141	8.14	0	4.515	83.63	16	0	0	0	0.17
2002	57	23	1	318.65	-445.782	D	7.469	7.469	0	3.035	0	0	0	0	0	0
2002	58	23	1	318.65	-445.782	D	6.708	6.708	0	1.472	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	6.508	6.508	0	1.082	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.98	7.98	0	4.153	0	0	0	0	0	0
2002	61	23	2784	339.87	-426.019	D	9.778	9.765	0.013	8.538	75.94	23.9	0	0	0	0.16
2002	62	23	1	318.65	-445.782	D	7.265	7.265	0	2.605	0	0	0	0	0	0
2002	63	23	1	318.65	-445.782	D	7.154	7.154	0	2.374	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	6.603	6.603	0	1.266	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.141	7.141	0	2.346	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	9.603	9.603	0	8.106	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	8.845	8.845	0	6.18	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	6.753	6.753	0	1.563	0	0	0	0	0	0
2002	70	23	1	318.65	-445.782	D	7.416	7.416	0	2.922	0	0	0	0	0	0
2002	71	23	1415	329.185	-425.086	D	9.349	9.349	0	7.445	90.03	3.55	0	0	0	1.24
2002	72	23	2781	339.842	-425.379	D	6.864	6.863	0.001	1.782	86.83	12.52	0	0	0	0.62
2002	73	23	1	318.65	-445.782	D	7.929	7.929	0	4.037	0	0	0	0	0	0
2002	74	23	2789	340.496	-426.449	D	9.994	9.958	0.036	9.059	84.69	15.15	0	0	0	0.15
2002	75	23	2789	340.496	-426.449	D	8.332	7.991	0.341	4.178	82.75	17.07	0	0	0	0.18
2002	76	23	1	318.65	-445.782	D	8.42	8.42	0	5.161	0	0	0	0	0	0
2002	77	23	1	318.65	-445.782	D	9.608	9.608	0	8.119	0	0	0	0	0	0
2002	78	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	79	23	2628	320.933	-436.998	D	9.697	9.428	0.269	7.648	72.85	26.84	0	0	0	0.3
2002	80	23	2600	318.952	-443.12	D	8.379	8.294	0.085	4.869	87.39	12.44	0	0	0	0.17
2002	81	23	1	318.65	-445.782	D	6.551	6.551	0	1.166	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	82	23	2789	340.496	-426.449	D	6.837	6.837	0	1.73	76.79	22.21	0	0	0	0.72
2002	83	23	1	318.65	-445.782	D	8.743	8.743	0	5.932	0	0	0	0	0	0
2002	84	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	85	23	2789	340.496	-426.449	D	8.684	8.61	0.074	5.612	68.22	31.11	0	0	0	0.67
2002	86	23	2789	340.496	-426.449	D	7.899	7.862	0.036	3.89	91.44	8.16	0	0	0	0.39
2002	87	23	2255	335.942	-426.039	D	7.28	7.267	0.013	2.608	96.73	3.01	0	0	0	0.27
2002	88	23	2789	340.496	-426.449	D	8.729	8.669	0.059	5.753	98.19	1.13	0	0	0	0.67
2002	89	23	2563	323.259	-443.79	D	7.735	7.663	0.072	3.452	87.69	11.98	0	0	0	0.34
2002	90	23	2705	329.287	-425.069	D	8.366	8.365	0.001	5.034	96.54	1.5	0	0	0	1.76
2002	91	23	2789	340.496	-426.449	D	6.729	6.723	0.006	1.502	94.76	3.97	0	0	0	1.29
2002	92	23	2684	326.713	-427.014	D	7.682	7.652	0.029	3.429	91.89	7.68	0	0	0	0.43
2002	93	23	2789	340.496	-426.449	D	6.717	6.688	0.028	1.433	75.59	22.87	0	0	0	1.55
2002	94	23	2255	335.942	-426.039	D	6.693	6.635	0.059	1.328	85.62	13.44	0	0	0	0.94
2002	95	23	2589	318.383	-445.593	D	6.64	6.574	0.066	1.209	93.79	5.45	0	0	0	0.76
2002	96	23	2694	327.861	-425.964	D	6.585	6.562	0.023	1.187	96.78	2.65	0	0	0	0.56
2002	97	23	2789	340.496	-426.449	D	8.246	8.245	0.001	4.755	97.1	2.48	0	0	0	0.44
2002	98	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	99	23	2789	340.496	-426.449	D	9.321	9.162	0.159	6.968	87.91	11.86	0	0	0	0.23
2002	100	23	2589	318.383	-445.593	D	7.574	7.563	0.011	3.237	97.77	1.66	0	0	0	0.58
2002	101	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0
2002	102	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	103	23	1	318.65	-445.782	D	8.889	8.889	0	6.287	0	0	0	0	0	0
2002	104	23	1	318.65	-445.782	D	8.999	8.999	0	6.559	0	0	0	0	0	0
2002	105	23	1	318.65	-445.782	D	8.516	8.516	0	5.389	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.596	7.596	0	3.307	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	8.247	8.247	0	4.758	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	8.641	8.641	0	5.687	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.663	7.663	0	3.453	0	0	0	0	0	0
2002	110	23	1	318.65	-445.782	D	9.387	9.387	0	7.541	0	0	0	0	0	0
2002	111	23	1	318.65	-445.782	D	8.234	8.234	0	4.73	0	0	0	0	0	0
2002	112	23	1	318.65	-445.782	D	6.849	6.849	0	1.754	0	0	0	0	0	0
2002	113	23	1	318.65	-445.782	D	7.3	7.3	0	2.678	0	0	0	0	0	0
2002	114	23	1	318.65	-445.782	D	8.745	8.745	0	5.937	0	0	0	0	0	0
2002	115	23	2781	339.842	-425.379	D	6.773	6.767	0.006	1.589	57.96	36.5	0	0	0	5.54
2002	116	23	2789	340.496	-426.449	D	8.001	7.992	0.009	4.179	91.83	7.95	0	0	0	0.22
2002	117	23	2789	340.496	-426.449	D	9.187	9.187	0.001	7.029	96.53	3.27	0	0	0	0.15
2002	118	23	1	318.65	-445.782	D	8.893	8.893	0	6.297	0	0	0	0	0	0
2002	119	23	2789	340.496	-426.449	D	6.783	6.783	0	1.622	96.29	0.32	0	0	0	1.38
2002	120	23	2789	340.496	-426.449	D	7.913	7.913	0	4.002	99	0.37	0	0	0	0.64

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	121	23	1	318.65	-445.782	D	9.294	9.294	0	7.303	0	0	0	0	0	0
2002	122	23	2600	318.952	-443.12	D	8.88	8.821	0.058	6.121	77.51	22.15	0	0	0	0.34
2002	123	23	2589	318.383	-445.593	D	7.256	7.228	0.028	2.527	97.52	2.04	0	0	0	0.43
2002	124	23	1	318.65	-445.782	D	9.125	9.125	0	6.875	0	0	0	0	0	0
2002	125	23	1	318.65	-445.782	D	8.379	8.379	0	5.065	0	0	0	0	0	0
2002	126	23	1	318.65	-445.782	D	8.615	8.615	0	5.623	0	0	0	0	0	0
2002	127	23	1	318.65	-445.782	D	8.423	8.423	0	5.168	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	129	23	1	318.65	-445.782	D	8.462	8.462	0	5.26	0	0	0	0	0	0
2002	130	23	2255	335.942	-426.039	D	6.965	6.934	0.031	1.924	96.4	3.22	0	0	0	0.37
2002	131	23	2789	340.496	-426.449	D	8.337	8.332	0.005	4.956	98.74	1.15	0	0	0	0.11
2002	132	23	1	318.65	-445.782	D	9.38	9.38	0	7.523	0	0	0	0	0	0
2002	133	23	2589	318.383	-445.593	D	8.731	8.506	0.225	5.364	84.12	15.72	0	0	0	0.16
2002	134	23	1	318.65	-445.782	D	6.747	6.747	0	1.551	0	0	0	0	0	0
2002	135	23	1	318.65	-445.782	D	6.85	6.85	0	1.755	0	0	0	0	0	0
2002	136	23	1	318.65	-445.782	D	7.384	7.384	0	2.855	0	0	0	0	0	0
2002	137	23	2600	318.952	-443.12	D	10.194	10.14	0.054	9.561	95.98	3.97	0	0	0	0.05
2002	138	23	2597	318.971	-443.851	D	8.391	8.39	0.001	5.091	98.58	1.42	0	0	0	0.11
2002	139	23	2694	327.861	-425.964	D	7.102	6.865	0.237	1.785	93.53	6.08	0	0	0	0.39
2002	140	23	2588	318.452	-445.8	D	6.877	6.876	0.001	1.808	98.58	0.61	0	0	0	0.79
2002	141	23	2781	339.842	-425.379	D	6.744	6.713	0.031	1.482	96.39	2.88	0	0	0	0.72
2002	142	23	2781	339.842	-425.379	D	6.723	6.708	0.015	1.473	98.41	1.12	0	0	0	0.46
2002	143	23	1	318.65	-445.782	D	6.812	6.812	0	1.679	0	0	0	0	0	0
2002	144	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2002	145	23	1	318.65	-445.782	D	8.137	8.137	0	4.507	0	0	0	0	0	0
2002	146	23	1	318.65	-445.782	D	8.441	8.441	0	5.212	0	0	0	0	0	0
2002	147	23	1	318.65	-445.782	D	8.905	8.905	0	6.327	0	0	0	0	0	0
2002	148	23	1	318.65	-445.782	D	8.901	8.901	0	6.317	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	9.28	9.28	0	7.267	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	8.533	8.533	0	5.428	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.158	7.158	0	2.382	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.878	7.878	0	3.924	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	8.029	8.029	0	4.264	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.439	7.439	0	2.97	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.015	7.015	0	2.089	0	0	0	0	0	0
2002	156	23	2704	329.056	-425.092	D	9.114	9.113	0.001	6.844	98.62	1.09	0	0	0	0.12
2002	157	23	2628	320.933	-436.998	D	8.828	8.786	0.042	6.035	95.61	4.1	0	0	0	0.28
2002	158	23	2589	318.383	-445.593	D	6.914	6.909	0.005	1.875	99.14	0.28	0	0	0	0.59
2002	159	23	2209	335.38	-424.564	D	6.91	6.91	0	1.875	99.38	0.18	0	0	0	0.33

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	160	23	1	318.65	-445.782	D	7.528	7.528	0	3.16	0	0	0	0	0	0
2002	161	23	1	318.65	-445.782	D	9.508	9.508	0	7.855	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	8.531	8.531	0	5.424	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	8.238	8.238	0	4.74	0	0	0	0	0	0
2002	164	23	1	318.65	-445.782	D	8.172	8.172	0	4.588	0	0	0	0	0	0
2002	165	23	2789	340.496	-426.449	D	7.611	7.432	0.179	2.956	95.14	4.64	0	0	0	0.23
2002	166	23	1	318.65	-445.782	D	6.682	6.682	0	1.422	0	0	0	0	0	0
2002	167	23	1	318.65	-445.782	D	6.744	6.744	0	1.543	0	0	0	0	0	0
2002	168	23	2781	339.842	-425.379	D	6.841	6.754	0.087	1.564	98.57	0.79	0	0	0	0.64
2002	169	23	2789	340.496	-426.449	D	6.768	6.716	0.052	1.488	99.29	0.24	0	0	0	0.47
2002	170	23	2781	339.842	-425.379	D	6.886	6.885	0.002	1.825	99.66	0.09	0	0	0	0.35
2002	171	23	1	318.65	-445.782	D	7.457	7.457	0	3.008	0	0	0	0	0	0
2002	172	23	1	318.65	-445.782	D	8.033	8.033	0	4.272	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.251	7.251	0	2.574	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.025	7.025	0	2.108	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	8.073	8.073	0	4.363	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	8.808	8.808	0	6.089	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	8.838	8.838	0	6.163	0	0	0	0	0	0
2002	179	23	1	318.65	-445.782	D	7.841	7.841	0	3.842	0	0	0	0	0	0
2002	180	23	2781	339.842	-425.379	D	7.976	7.976	0	4.144	100.2	0.09	0	0	0	0.17
2002	181	23	1	318.65	-445.782	D	8.264	8.264	0	4.798	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	6.882	6.882	0	1.82	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	6.978	6.978	0	2.014	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	8.892	8.892	0	6.295	0	0	0	0	0	0
2002	185	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2002	186	23	1	318.65	-445.782	D	8.01	8.01	0	4.221	0	0	0	0	0	0
2002	187	23	1	318.65	-445.782	D	7.431	7.431	0	2.954	0	0	0	0	0	0
2002	188	23	1	318.65	-445.782	D	7.851	7.851	0	3.864	0	0	0	0	0	0
2002	189	23	1	318.65	-445.782	D	6.865	6.865	0	1.786	0	0	0	0	0	0
2002	190	23	1	318.65	-445.782	D	6.746	6.746	0	1.548	0	0	0	0	0	0
2002	191	23	1	318.65	-445.782	D	6.966	6.966	0	1.988	0	0	0	0	0	0
2002	192	23	2789	340.496	-426.449	D	7.747	7.745	0.002	3.631	98.47	1.23	0	0	0	0.25
2002	193	23	2781	339.842	-425.379	D	8.508	8.494	0.014	5.335	99.13	0.76	0	0	0	0.1
2002	194	23	2781	339.842	-425.379	D	9.332	9.321	0.011	7.372	97.68	2.27	0	0	0	0.05
2002	195	23	1	318.65	-445.782	D	8.806	8.806	0	6.085	0	0	0	0	0	0
2002	196	23	1	318.65	-445.782	D	8.017	8.017	0	4.235	0	0	0	0	0	0
2002	197	23	1	318.65	-445.782	D	7.428	7.428	0	2.948	0	0	0	0	0	0
2002	198	23	1	318.65	-445.782	D	9.517	9.517	0	7.879	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	199	23	1	318.65	-445.782	D	8.871	8.871	0	6.243	0	0	0	0	0	0
2002	200	23	1	318.65	-445.782	D	9.09	9.09	0	6.785	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.7	7.7	0	3.533	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.888	7.888	0	3.947	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.159	7.159	0	2.385	0	0	0	0	0	0
2002	204	23	2781	339.842	-425.379	D	7.127	7.117	0.01	2.298	99.28	0.08	0	0	0	0.64
2002	205	23	2448	335.908	-431.021	D	7.493	7.412	0.082	2.913	99.31	0.52	0	0	0	0.17
2002	206	23	1	318.65	-445.782	D	7.188	7.188	0	2.445	0	0	0	0	0	0
2002	207	23	1	318.65	-445.782	D	6.99	6.99	0	2.038	0	0	0	0	0	0
2002	208	23	1	318.65	-445.782	D	7.99	7.99	0	4.174	0	0	0	0	0	0
2002	209	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.824	7.824	0	3.806	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	8.482	8.482	0	5.307	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.166	7.166	0	2.398	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.644	7.644	0	3.411	0	0	0	0	0	0
2002	214	23	1552	330.178	-425.042	D	7.312	7.312	0	2.702	99.25	0.07	0	0	0	0.23
2002	215	23	2466	334.129	-434.416	D	8.112	8.111	0.002	4.448	99.91	0.04	0	0	0	0.08
2002	216	23	1412	329.218	-425.834	D	7.483	7.482	0.001	3.063	99.71	0.07	0	0	0	0.11
2002	217	23	2123	334.701	-426.093	D	7.402	7.402	0	2.892	99.51	0.03	0	0	0	0.12
2002	218	23	2789	340.496	-426.449	D	6.839	6.819	0.02	1.693	99.34	0.17	0	0	0	0.5
2002	219	23	37	319.567	-443.993	D	8.901	8.627	0.274	5.651	99.04	0.89	0	0	0	0.07
2002	220	23	1	318.65	-445.782	D	6.92	6.92	0	1.895	0	0	0	0	0	0
2002	221	23	1	318.65	-445.782	D	6.724	6.724	0	1.505	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.045	7.045	0	2.15	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.191	7.191	0	2.45	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	6.912	6.912	0	1.88	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	8.619	8.619	0	5.634	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	9.936	9.936	0	9	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	8.318	8.318	0	4.925	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	8.739	8.739	0	5.922	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	8.63	8.63	0	5.658	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.926	7.926	0	4.031	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	6.941	6.941	0	1.939	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	6.972	6.972	0	2.001	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.651	7.651	0	3.426	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.084	7.084	0	2.23	0	0	0	0	0	0
2002	236	23	2789	340.496	-426.449	D	7.918	7.906	0.012	3.987	99.4	0.18	0	0	0	0.41
2002	237	23	2781	339.842	-425.379	D	9.121	8.541	**0.58**	5.446	95.88	3.97	0	0	0	0.15

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	238	23	2588	318.452	-445.8	D	7.928	7.881	0.047	3.932	99.38	0.38	0	0	0	0.24
2002	239	23	1	318.65	-445.782	D	6.98	6.98	0	2.017	0	0	0	0	0	0
2002	240	23	1	318.65	-445.782	D	7.508	7.508	0	3.117	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.124	7.124	0	2.313	0	0	0	0	0	0
2002	242	23	1	318.65	-445.782	D	7.14	7.14	0	2.344	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.361	7.361	0	2.805	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.134	7.134	0	2.332	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	6.909	6.909	0	1.875	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	6.972	6.972	0	2.002	0	0	0	0	0	0
2002	247	23	2789	340.496	-426.449	D	6.925	6.924	0.001	1.904	99.3	0.04	0	0	0	0.7
2002	248	23	2758	335.862	-424.454	D	7.367	7.326	0.041	2.732	99.4	0.29	0	0	0	0.31
2002	249	23	2704	329.056	-425.092	D	6.805	6.799	0.006	1.653	99.5	0.05	0	0	0	0.45
2002	250	23	1241	327.999	-426.387	D	6.748	6.748	0	1.552	98.84	0.02	0	0	0	0.52
2002	251	23	1	318.65	-445.782	D	7.423	7.423	0	2.937	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.171	7.171	0	2.409	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.202	7.202	0	2.474	0	0	0	0	0	0
2002	254	23	2628	320.933	-436.998	D	7.044	7.036	0.007	2.132	96.7	2.11	0	0	0	1.19
2002	255	23	2588	318.452	-445.8	D	8.115	8.076	0.039	4.368	98.24	1.44	0	0	0	0.32
2002	256	23	2588	318.452	-445.8	D	6.682	6.68	0.002	1.418	99.15	0.18	0	0	0	0.64
2002	257	23	1415	329.185	-425.086	D	6.673	6.672	0.001	1.402	99.26	0.17	0	0	0	0.5
2002	258	23	2781	339.842	-425.379	D	8.252	8.245	0.007	4.755	99.06	0.29	0	0	0	0.64
2002	259	23	2781	339.842	-425.379	D	8.897	8.42	0.477	5.161	96.25	3.56	0	0	0	0.18
2002	260	23	2781	339.842	-425.379	D	7.899	7.812	0.087	3.779	98.88	0.89	0	0	0	0.22
2002	261	23	2789	340.496	-426.449	D	8.446	8.444	0.002	5.217	97.58	2.32	0	0	0	0.15
2002	262	23	1	318.65	-445.782	D	9.39	9.39	0	7.549	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	9.262	9.262	0	7.221	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	6.8	6.8	0	1.655	0	0	0	0	0	0
2002	265	23	2599	318.958	-443.364	D	6.861	6.793	0.068	1.641	93.08	5.49	0	0	0	1.43
2002	266	23	2589	318.383	-445.593	D	6.629	6.606	0.023	1.273	93.15	5.23	0	0	0	1.62
2002	267	23	2709	330.21	-424.978	D	6.555	6.549	0.006	1.161	97.35	1.35	0	0	0	1.3
2002	268	23	2781	339.842	-425.379	D	6.838	6.823	0.015	1.702	98.12	1.32	0	0	0	0.56
2002	269	23	2704	329.056	-425.092	D	7.377	7.375	0.002	2.836	99.3	0.46	0	0	0	0.27
2002	270	23	2623	320.666	-438.044	D	7.383	7.345	0.038	2.773	98.01	0.59	0	0	0	1.4
2002	271	23	2571	322.646	-445.476	D	6.855	6.805	0.05	1.666	98.93	0.41	0	0	0	0.66
2002	272	23	2709	330.21	-424.978	D	7.29	7.247	0.043	2.567	98.72	1.03	0	0	0	0.25
2002	273	23	2757	335.63	-424.484	D	7.365	7.365	0	2.814	99.57	0.05	0	0	0	0.29
2002	274	23	1	318.65	-445.782	D	6.966	6.966	0	1.989	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.239	7.239	0	2.549	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.523	7.523	0	3.151	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	277	23	1	318.65	-445.782	D	9.147	9.147	0	6.929	0	0	0	0	0	0
2002	278	23	2789	340.496	-426.449	D	7.048	7.043	0.005	2.146	95.96	1.56	0	0	0	2.45
2002	279	23	2789	340.496	-426.449	D	6.811	6.806	0.005	1.667	97.38	1.61	0	0	0	1.04
2002	280	23	2781	339.842	-425.379	D	6.831	6.818	0.013	1.691	79.33	16.58	0	0	0	4.09
2002	281	23	1	318.65	-445.782	D	6.562	6.562	0	1.186	80.54	1	0	0	0	1.49
2002	282	23	1	318.65	-445.782	D	8.768	8.768	0	5.993	0	0	0	0	0	0
2002	283	23	1	318.65	-445.782	D	9.852	9.852	0	8.772	0	0	0	0	0	0
2002	284	23	1	318.65	-445.782	D	9.433	9.433	0	7.662	0	0	0	0	0	0
2002	285	23	1	318.65	-445.782	D	9.046	9.046	0	6.677	0	0	0	0	0	0
2002	286	23	2781	339.842	-425.379	D	8.15	8.035	0.114	4.277	66.85	32.47	0	0	0	0.68
2002	287	23	1	318.65	-445.782	D	6.522	6.522	0	1.109	0	0	0	0	0	0
2002	288	23	1	318.65	-445.782	D	6.507	6.507	0	1.079	0	0	0	0	0	0
2002	289	23	2704	329.056	-425.092	D	6.562	6.552	0.01	1.167	64.62	31.17	0	0	0	4.23
2002	290	23	2781	339.842	-425.379	D	7.956	7.942	0.015	4.067	83.76	16.03	0	0	0	0.19
2002	291	23	2788	340.294	-426.448	D	6.63	6.63	0	1.32	94.38	0.98	0	0	0	0.8
2002	292	23	2781	339.842	-425.379	D	9.895	9.74	0.155	8.47	85.13	14.75	0	0	0	0.11
2002	293	23	2571	322.646	-445.476	D	9.519	9.4	0.119	7.576	86.99	12.94	0	0	0	0.07
2002	294	23	1	318.65	-445.782	D	6.976	6.975	0.001	2.008	95.4	4.19	0	0	0	0.26
2002	295	23	1	318.65	-445.782	D	7.448	7.448	0	2.991	97.73	1.03	0	0	0	0.27
2002	296	23	1415	329.185	-425.086	D	6.996	6.996	0.001	2.049	92.3	7.26	0	0	0	0.31
2002	297	23	1	318.65	-445.782	D	6.76	6.76	0	1.575	0	0	0	0	0	0
2002	298	23	2781	339.842	-425.379	D	9.517	9.51	0.007	7.862	87.56	12.24	0	0	0	0.2
2002	299	23	2789	340.496	-426.449	D	9.342	9.336	0.006	7.41	87.49	12.37	0	0	0	0.11
2002	300	23	2789	340.496	-426.449	D	9.685	9.18	**0.504**	7.013	86.63	13.27	0	0	0	0.1
2002	301	23	2694	327.861	-425.964	D	10.249	10.218	0.031	9.779	90.91	9.02	0	0	0	0.06
2002	302	23	2684	326.713	-427.014	D	9.834	9.834	0	8.723	92.82	6.74	0	0	0	0.05
2002	303	23	2597	318.971	-443.851	D	9.28	9.121	0.159	6.864	94.79	5.01	0	0	0	0.19
2002	304	23	2589	318.383	-445.593	D	9.768	9	**0.768**	6.563	86.64	13.26	0	0	0	0.1
2002	305	23	2789	340.496	-426.449	D	8.223	8.166	0.057	4.573	84.19	15.66	0	0	0	0.16
2002	306	23	2571	322.646	-445.476	D	7.795	7.777	0.018	3.701	85.16	14.66	0	0	0	0.16
2002	307	23	2789	340.496	-426.449	D	10.253	10.218	0.035	9.779	86.25	13.66	0	0	0	0.09
2002	308	23	1	318.65	-445.782	D	8.974	8.974	0	6.498	0	0	0	0	0	0
2002	309	23	1	318.65	-445.782	D	9.292	9.292	0	7.299	0	0	0	0	0	0
2002	310	23	2789	340.496	-426.449	D	8.081	8.072	0.009	4.359	90.38	9.53	0	0	0	0.09
2002	311	23	1	318.65	-445.782	D	6.545	6.545	0	1.153	0	0	0	0	0	0
2002	312	23	1	318.65	-445.782	D	6.713	6.713	0	1.482	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	9.044	9.044	0	6.672	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	9.306	9.306	0	7.334	0	0	0	0	0	0
2002	315	23	1	318.65	-445.782	D	6.786	6.786	0	1.628	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	316	23	2758	335.862	-424.454	D	6.655	6.633	0.022	1.326	58.93	38.1	0	0	0	2.97
2002	317	23	2789	340.496	-426.449	D	6.607	6.607	0	1.274	71.79	8.32	0	0	0	2.6
2002	318	23	1	318.65	-445.782	D	7.01	7.01	0	2.079	0	0	0	0	0	0
2002	319	23	2704	329.056	-425.092	D	9.903	9.479	0.424	7.781	70.27	29.4	0	0	0	0.33
2002	320	23	2694	327.861	-425.964	D	9.382	8.986	0.395	6.527	82.34	17.47	0	0	0	0.2
2002	321	23	2789	340.496	-426.449	D	6.722	6.721	0	1.499	80.03	18.54	0	0	0	1.51
2002	322	23	1	318.65	-445.782	D	6.826	6.826	0	1.707	0	0	0	0	0	0
2002	323	23	1	318.65	-445.782	D	6.805	6.805	0	1.665	0	0	0	0	0	0
2002	324	23	1	318.65	-445.782	D	6.495	6.495	0	1.057	0	0	0	0	0	0
2002	325	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	326	23	2789	340.496	-426.449	D	7.006	7.005	0.002	2.068	46.64	51.82	0	0	0	1.58
2002	327	23	1	318.65	-445.782	D	6.536	6.536	0	1.136	0	0	0	0	0	0
2002	328	23	1415	329.185	-425.086	D	6.635	6.635	0	1.329	90.15	9.56	0	0	0	0.81
2002	329	23	2596	318.977	-444.095	D	7.383	7.36	0.023	2.804	71.45	27.55	0	0	0	0.99
2002	330	23	2693	327.829	-426.17	D	6.653	6.628	0.025	1.315	76.56	22.01	0	0	0	1.44
2002	331	23	2621	320.559	-438.464	D	7.007	6.899	0.108	1.853	61.56	37.04	0	0	0	1.4
2002	332	23	2789	340.496	-426.449	D	6.597	6.586	0.011	1.234	72.91	25.93	0	0	0	1.17
2002	333	23	1	318.65	-445.782	D	6.591	6.591	0	1.243	0	0	0	0	0	0
2002	334	23	1	318.65	-445.782	D	6.662	6.662	0	1.382	0	0	0	0	0	0
2002	335	23	1	318.65	-445.782	D	6.502	6.502	0	1.07	0	0	0	0	0	0
2002	336	23	1	318.65	-445.782	D	6.496	6.496	0	1.058	0	0	0	0	0	0
2002	337	23	2563	323.259	-443.79	D	7.104	7.074	0.03	2.209	76.69	22.18	0	0	0	1.13
2002	338	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	339	23	2628	320.933	-436.998	D	8.644	8.586	0.059	5.553	57.56	40.57	0	0	0	1.87
2002	340	23	2789	340.496	-426.449	D	8.896	8.896	0	6.304	71.77	27.44	0	0	0	0.64
2002	341	23	1	318.65	-445.782	D	7.075	7.075	0	2.211	0	0	0	0	0	0
2002	342	23	2781	339.842	-425.379	D	7.495	7.493	0.002	3.086	85.22	14.67	0	0	0	0.08
2002	343	23	2758	335.862	-424.454	D	8.689	8.492	0.198	5.33	87.77	12.16	0	0	0	0.07
2002	344	23	1	318.65	-445.782	D	6.855	6.855	0	1.766	0	0	0	0	0	0
2002	345	23	1	318.65	-445.782	D	8.185	8.185	0	4.617	0	0	0	0	0	0
2002	346	23	1	318.65	-445.782	D	8.309	8.309	0	4.902	0	0	0	0	0	0
2002	347	23	1552	330.178	-425.042	D	9.657	9.461	0.196	7.733	84.01	15.87	0	0	0	0.13
2002	348	23	2789	340.496	-426.449	D	9.687	9.351	0.337	7.448	85.06	14.83	0	0	0	0.11
2002	349	23	1	318.65	-445.782	D	7.033	7.033	0	2.126	0	0	0	0	0	0
2002	350	23	1	318.65	-445.782	D	9.107	9.107	0	6.829	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	9.67	9.67	0	8.285	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	9.899	9.899	0	8.899	0	0	0	0	0	0
2002	353	23	1	318.65	-445.782	D	8.345	8.345	0	4.987	0	0	0	0	0	0
2002	354	23	1	318.65	-445.782	D	6.783	6.783	0	1.622	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	355	23	1	318.65	-445.782	D	6.532	6.532	0	1.128	0	0	0	0	0	0
2002	356	23	2781	339.842	-425.379	D	7.01	7.01	0.001	2.078	67.62	31.69	0	0	0	0.69
2002	357	23	1	318.65	-445.782	D	7.59	7.59	0	3.295	0	0	0	0	0	0
2002	358	23	2704	329.056	-425.092	D	9.83	9.751	0.079	8.5	76.1	23.75	0	0	0	0.16
2002	359	23	2789	340.496	-426.449	D	7.55	7.546	0.004	3.199	86.47	13.41	0	0	0	0.12
2002	360	23	1	318.65	-445.782	D	6.825	6.825	0	1.705	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	6.876	6.876	0	1.807	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.067	7.067	0	2.195	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.04	7.04	0	2.14	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	10.069	10.069	0	9.364	0	0	0	0	0	0
2002	365	23	1548	330.222	-426.04	D	8.875	8.824	0.051	6.128	58.12	41.43	0	0	0	0.45
									0.827							
COLUMBIA											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	1	318.65	-445.782	D	6.842	6.842	0	1.74	0	0	0	0	0	0
2002	2	23	2789	340.496	-426.449	D	6.891	6.89	0.001	1.836	46.37	53.59	0	0	0	0.06
2002	3	23	2789	340.496	-426.449	D	7.291	7.288	0.003	2.652	50.4	49.56	0	0	0	0.02
2002	4	23	1	318.65	-445.782	D	6.816	6.816	0	1.687	0	0	0	0	0	0
2002	5	23	1	318.65	-445.782	D	8.011	8.011	0	4.223	0	0	0	0	0	0
2002	6	23	1	318.65	-445.782	D	9.577	9.577	0	8.037	0	0	0	0	0	0
2002	7	23	1	318.65	-445.782	D	7.828	7.828	0	3.813	0	0	0	0	0	0
2002	8	23	1	318.65	-445.782	D	6.896	6.896	0	1.848	0	0	0	0	0	0
2002	9	23	1	318.65	-445.782	D	6.877	6.877	0	1.81	0	0	0	0	0	0
2002	10	23	2789	340.496	-426.449	D	9.382	9.353	0.029	7.455	77.24	22.75	0	0	0	0.02
2002	11	23	2468	334.002	-434.887	D	7.31	7.309	0.002	2.696	78.42	21.58	0	0	0	0.01
2002	12	23	1	318.65	-445.782	D	6.82	6.82	0	1.694	0	0	0	0	0	0
2002	13	23	1	318.65	-445.782	D	7.018	7.018	0	2.094	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	6.95	6.95	0	1.957	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	6.62	6.62	0	1.299	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	17	23	2789	340.496	-426.449	D	6.933	6.933	0	1.921	51.3	48.45	0	0	0	0.06
2002	18	23	2789	340.496	-426.449	D	8.774	8.73	0.044	5.901	55.73	44.26	0	0	0	0.01
2002	19	23	2758	335.862	-424.454	D	8.961	8.957	0.004	6.455	77.8	22.14	0	0	0	0.01
2002	20	23	2781	339.842	-425.379	D	8.923	8.882	0.041	6.27	78.46	21.54	0	0	0	0
2002	21	23	1	318.65	-445.782	D	7.216	7.216	0	2.501	0	0	0	0	0	0
2002	22	23	1	318.65	-445.782	D	7.001	7.001	0	2.059	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	9.862	9.862	0	8.798	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	24	23	1	318.65	-445.782	D	9.399	9.399	0	7.573	0	0	0	0	0	0
2002	25	23	1	318.65	-445.782	D	6.855	6.855	0	1.765	0	0	0	0	0	0
2002	26	23	1	318.65	-445.782	D	6.706	6.706	0	1.468	0	0	0	0	0	0
2002	27	23	1	318.65	-445.782	D	6.657	6.657	0	1.373	0	0	0	0	0	0
2002	28	23	1	318.65	-445.782	D	7.081	7.081	0	2.223	0	0	0	0	0	0
2002	29	23	1	318.65	-445.782	D	9.828	9.828	0	8.707	0	0	0	0	0	0
2002	30	23	2758	335.862	-424.454	D	10.451	10.218	0.233	9.779	73.67	26.32	0	0	0	0
2002	31	23	2704	329.056	-425.092	D	10.571	10.155	0.416	9.603	79.71	20.28	0	0	0	0
2002	32	23	2781	339.842	-425.379	D	7.477	7.475	0.002	3.047	82.52	17.47	0	0	0	0
2002	33	23	1	318.65	-445.782	D	7.099	7.099	0	2.261	0	0	0	0	0	0
2002	34	23	1	318.65	-445.782	D	6.798	6.798	0	1.652	0	0	0	0	0	0
2002	35	23	2788	340.294	-426.448	D	6.933	6.932	0	1.921	63.71	35.01	0	0	0	0.07
2002	36	23	2704	329.056	-425.092	D	6.819	6.812	0.007	1.679	61.43	38.53	0	0	0	0.03
2002	37	23	2684	326.713	-427.014	D	9.611	9.611	0	8.127	72.22	27.83	0	0	0	0
2002	38	23	2789	340.496	-426.449	D	9.412	9.412	0	7.605	80.27	19.14	0	0	0	0
2002	39	23	2781	339.842	-425.379	D	7.67	7.67	0	3.467	83.84	15.07	0	0	0	0
2002	40	23	2413	339.406	-425.637	D	9.315	9.315	0	7.357	86.04	10.79	0	0	0	0
2002	41	23	1	318.65	-445.782	D	8.083	8.083	0	4.385	0	0	0	0	0	0
2002	42	23	1	318.65	-445.782	D	7.47	7.47	0	3.037	0	0	0	0	0	0
2002	43	23	1	318.65	-445.782	D	6.601	6.601	0	1.262	0	0	0	0	0	0
2002	44	23	2789	340.496	-426.449	D	6.695	6.691	0.004	1.439	40.81	59.1	0	0	0	0.07
2002	45	23	1	318.65	-445.782	D	6.604	6.604	0	1.269	0	0	0	0	0	0
2002	46	23	1	318.65	-445.782	D	7.064	7.064	0	2.189	0	0	0	0	0	0
2002	47	23	1	318.65	-445.782	D	6.737	6.737	0	1.53	0	0	0	0	0	0
2002	48	23	2789	340.496	-426.449	D	6.562	6.562	0	1.186	87.32	12.23	0	0	0	0.12
2002	49	23	2789	340.496	-426.449	D	6.622	6.621	0.001	1.302	72.91	27.1	0	0	0	0.05
2002	50	23	1	318.65	-445.782	D	8.708	8.708	0	5.847	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	9.05	9.05	0	6.686	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	6.911	6.911	0	1.879	0	0	0	0	0	0
2002	53	23	2789	340.496	-426.449	D	6.81	6.81	0	1.674	73	26.91	0	0	0	0.08
2002	54	23	2789	340.496	-426.449	D	6.688	6.687	0.001	1.432	72.69	27.21	0	0	0	0.04
2002	55	23	2788	340.294	-426.448	D	6.794	6.794	0	1.643	82.63	17.51	0	0	0	0.03
2002	56	23	1	318.65	-445.782	D	8.076	8.076	0	4.369	0	0	0	0	0	0
2002	57	23	1	318.65	-445.782	D	7.469	7.469	0	3.035	0	0	0	0	0	0
2002	58	23	1	318.65	-445.782	D	6.708	6.708	0	1.472	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	6.508	6.508	0	1.082	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.98	7.98	0	4.153	0	0	0	0	0	0
2002	61	23	2784	339.87	-426.019	D	9.769	9.765	0.004	8.538	66.31	33.68	0	0	0	0
2002	62	23	1	318.65	-445.782	D	7.265	7.265	0	2.605	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	63	23	1	318.65	-445.782	D	7.154	7.154	0	2.374	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	6.603	6.603	0	1.266	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.141	7.141	0	2.346	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	9.603	9.603	0	8.106	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	8.845	8.845	0	6.18	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	6.753	6.753	0	1.563	0	0	0	0	0	0
2002	70	23	1	318.65	-445.782	D	7.416	7.416	0	2.922	0	0	0	0	0	0
2002	71	23	1	318.65	-445.782	D	9.328	9.328	0	7.39	0	0	0	0	0	0
2002	72	23	1	318.65	-445.782	D	6.804	6.804	0	1.663	0	0	0	0	0	0
2002	73	23	1	318.65	-445.782	D	7.929	7.929	0	4.037	0	0	0	0	0	0
2002	74	23	1	318.65	-445.782	D	10.09	10.09	0	9.423	0	0	0	0	0	0
2002	75	23	2758	335.862	-424.454	D	8.018	7.996	0.022	4.188	40.75	59.21	0	0	0	0.03
2002	76	23	1	318.65	-445.782	D	8.42	8.42	0	5.161	0	0	0	0	0	0
2002	77	23	1	318.65	-445.782	D	9.608	9.608	0	8.119	0	0	0	0	0	0
2002	78	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	79	23	2704	329.056	-425.092	D	9.669	9.428	0.241	7.648	79.35	20.65	0	0	0	0
2002	80	23	2789	340.496	-426.449	D	8.432	8.4	0.032	5.114	79.31	20.68	0	0	0	0.01
2002	81	23	1	318.65	-445.782	D	6.551	6.551	0	1.166	0	0	0	0	0	0
2002	82	23	1	318.65	-445.782	D	6.89	6.89	0	1.836	0	0	0	0	0	0
2002	83	23	1	318.65	-445.782	D	8.743	8.743	0	5.932	0	0	0	0	0	0
2002	84	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	85	23	2694	327.861	-425.964	D	8.775	8.641	0.134	5.686	75.81	24.18	0	0	0	0.01
2002	86	23	2789	340.496	-426.449	D	7.863	7.862	0.001	3.89	95.74	4.11	0	0	0	0.03
2002	87	23	2789	340.496	-426.449	D	7.278	7.273	0.005	2.62	91.27	8.71	0	0	0	0.01
2002	88	23	2789	340.496	-426.449	D	8.69	8.669	0.021	5.753	96.62	3.36	0	0	0	0.02
2002	89	23	2571	322.646	-445.476	D	7.674	7.669	0.005	3.466	81.17	18.78	0	0	0	0.02
2002	90	23	2694	327.861	-425.964	D	8.366	8.365	0	5.034	93.11	6.79	0	0	0	0.04
2002	91	23	2789	340.496	-426.449	D	6.725	6.723	0.002	1.502	91.05	8.97	0	0	0	0.05
2002	92	23	1	318.65	-445.782	D	7.704	7.704	0	3.542	0	0	0	0	0	0
2002	93	23	1	318.65	-445.782	D	6.697	6.697	0	1.452	0	0	0	0	0	0
2002	94	23	2789	340.496	-426.449	D	6.628	6.626	0.002	1.311	78.27	21.64	0	0	0	0.04
2002	95	23	2789	340.496	-426.449	D	6.564	6.559	0.005	1.181	87.61	12.38	0	0	0	0.04
2002	96	23	2789	340.496	-426.449	D	6.571	6.556	0.015	1.175	94.3	5.66	0	0	0	0.03
2002	97	23	2781	339.842	-425.379	D	8.246	8.244	0.002	4.753	96.94	3.09	0	0	0	0.02
2002	98	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	99	23	2789	340.496	-426.449	D	9.163	9.162	0.001	6.968	97.71	2.24	0	0	0	0.03
2002	100	23	2694	327.861	-425.964	D	7.53	7.514	0.016	3.132	95.03	4.96	0	0	0	0.02
2002	101	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	102	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	103	23	1	318.65	-445.782	D	8.889	8.889	0	6.287	0	0	0	0	0	0
2002	104	23	1	318.65	-445.782	D	8.999	8.999	0	6.559	0	0	0	0	0	0
2002	105	23	1	318.65	-445.782	D	8.516	8.516	0	5.389	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.596	7.596	0	3.307	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	8.247	8.247	0	4.758	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	8.641	8.641	0	5.687	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.663	7.663	0	3.453	0	0	0	0	0	0
2002	110	23	1	318.65	-445.782	D	9.387	9.387	0	7.541	0	0	0	0	0	0
2002	111	23	1	318.65	-445.782	D	8.234	8.234	0	4.73	0	0	0	0	0	0
2002	112	23	1	318.65	-445.782	D	6.849	6.849	0	1.754	0	0	0	0	0	0
2002	113	23	1	318.65	-445.782	D	7.3	7.3	0	2.678	0	0	0	0	0	0
2002	114	23	1	318.65	-445.782	D	8.745	8.745	0	5.937	0	0	0	0	0	0
2002	115	23	2789	340.496	-426.449	D	6.772	6.769	0.003	1.594	93.87	6.04	0	0	0	0.1
2002	116	23	2758	335.862	-424.454	D	8.037	8.025	0.012	4.253	87.29	12.7	0	0	0	0.02
2002	117	23	2758	335.862	-424.454	D	9.187	9.187	0.001	7.029	94.16	5.8	0	0	0	0
2002	118	23	1	318.65	-445.782	D	8.893	8.893	0	6.297	0	0	0	0	0	0
2002	119	23	1	318.65	-445.782	D	6.782	6.782	0	1.619	0	0	0	0	0	0
2002	120	23	1	318.65	-445.782	D	7.861	7.861	0	3.887	0	0	0	0	0	0
2002	121	23	1	318.65	-445.782	D	9.294	9.294	0	7.303	0	0	0	0	0	0
2002	122	23	2789	340.496	-426.449	D	8.815	8.806	0.009	6.083	85.22	14.76	0	0	0	0.01
2002	123	23	2789	340.496	-426.449	D	7.242	7.217	0.025	2.503	90.81	9.18	0	0	0	0.01
2002	124	23	1	318.65	-445.782	D	9.125	9.125	0	6.875	0	0	0	0	0	0
2002	125	23	1	318.65	-445.782	D	8.379	8.379	0	5.065	0	0	0	0	0	0
2002	126	23	1	318.65	-445.782	D	8.615	8.615	0	5.623	0	0	0	0	0	0
2002	127	23	1	318.65	-445.782	D	8.423	8.423	0	5.168	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	129	23	1	318.65	-445.782	D	8.462	8.462	0	5.26	0	0	0	0	0	0
2002	130	23	2789	340.496	-426.449	D	6.899	6.889	0.01	1.834	97.87	2.11	0	0	0	0.01
2002	131	23	2784	339.87	-426.019	D	8.338	8.332	0.006	4.956	97.74	2.26	0	0	0	0.01
2002	132	23	1	318.65	-445.782	D	9.38	9.38	0	7.523	0	0	0	0	0	0
2002	133	23	2789	340.496	-426.449	D	8.578	8.578	0	5.534	61.18	38.77	0	0	0	0.01
2002	134	23	1	318.65	-445.782	D	6.747	6.747	0	1.551	0	0	0	0	0	0
2002	135	23	1	318.65	-445.782	D	6.85	6.85	0	1.755	0	0	0	0	0	0
2002	136	23	1	318.65	-445.782	D	7.384	7.384	0	2.855	0	0	0	0	0	0
2002	137	23	2610	319.631	-440.865	D	10.185	10.14	0.045	9.561	90.75	9.25	0	0	0	0
2002	138	23	311	322.049	-443.885	D	8.404	8.39	0.014	5.091	83.65	16.35	0	0	0	0.01
2002	139	23	2789	340.496	-426.449	D	6.927	6.863	0.065	1.781	90.91	9.07	0	0	0	0.01
2002	140	23	2781	339.842	-425.379	D	6.886	6.886	0	1.827	98.16	1.86	0	0	0	0.05

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	141	23	2781	339.842	-425.379	D	6.728	6.713	0.015	1.482	93.77	6.2	0	0	0	0.03
2002	142	23	2789	340.496	-426.449	D	6.713	6.704	0.009	1.466	97.73	2.24	0	0	0	0.02
2002	143	23	2780	339.614	-425.419	D	6.756	6.756	0	1.568	97.14	0.87	0	0	0	0.01
2002	144	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2002	145	23	1	318.65	-445.782	D	8.137	8.137	0	4.507	0	0	0	0	0	0
2002	146	23	1	318.65	-445.782	D	8.441	8.441	0	5.212	0	0	0	0	0	0
2002	147	23	1	318.65	-445.782	D	8.905	8.905	0	6.327	0	0	0	0	0	0
2002	148	23	1	318.65	-445.782	D	8.901	8.901	0	6.317	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	9.28	9.28	0	7.267	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	8.533	8.533	0	5.428	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.158	7.158	0	2.382	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.878	7.878	0	3.924	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	8.029	8.029	0	4.264	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.439	7.439	0	2.97	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.015	7.015	0	2.089	0	0	0	0	0	0
2002	156	23	1415	329.185	-425.086	D	9.113	9.113	0	6.844	97.45	2.58	0	0	0	0
2002	157	23	2684	326.713	-427.014	D	9.011	8.755	0.256	5.959	83.11	16.88	0	0	0	0.01
2002	158	23	2588	318.452	-445.8	D	6.925	6.909	0.016	1.875	99.19	0.8	0	0	0	0.02
2002	159	23	2781	339.842	-425.379	D	6.917	6.899	0.018	1.853	99.26	0.72	0	0	0	0.01
2002	160	23	2758	335.862	-424.454	D	7.594	7.593	0.001	3.302	99.82	0.14	0	0	0	0.01
2002	161	23	1	318.65	-445.782	D	9.508	9.508	0	7.855	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	8.531	8.531	0	5.424	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	8.238	8.238	0	4.74	0	0	0	0	0	0
2002	164	23	1	318.65	-445.782	D	8.172	8.172	0	4.588	0	0	0	0	0	0
2002	165	23	1	318.65	-445.782	D	7.569	7.569	0	3.249	0	0	0	0	0	0
2002	166	23	1	318.65	-445.782	D	6.682	6.682	0	1.422	0	0	0	0	0	0
2002	167	23	1	318.65	-445.782	D	6.744	6.744	0	1.543	0	0	0	0	0	0
2002	168	23	2789	340.496	-426.449	D	6.753	6.752	0.001	1.56	97.74	2.08	0	0	0	0.02
2002	169	23	2789	340.496	-426.449	D	6.718	6.716	0.003	1.488	99.66	0.29	0	0	0	0.02
2002	170	23	2781	339.842	-425.379	D	6.885	6.885	0.001	1.825	99.73	0.19	0	0	0	0.01
2002	171	23	1	318.65	-445.782	D	7.457	7.457	0	3.008	0	0	0	0	0	0
2002	172	23	1	318.65	-445.782	D	8.033	8.033	0	4.272	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.251	7.251	0	2.574	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.025	7.025	0	2.108	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	8.073	8.073	0	4.363	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	8.808	8.808	0	6.089	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	8.838	8.838	0	6.163	0	0	0	0	0	0
2002	179	23	1	318.65	-445.782	D	7.841	7.841	0	3.842	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	180	23	1	318.65	-445.782	D	8.173	8.173	0	4.59	0	0	0	0	0	0
2002	181	23	1	318.65	-445.782	D	8.264	8.264	0	4.798	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	6.882	6.882	0	1.82	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	6.978	6.978	0	2.014	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	8.892	8.892	0	6.295	0	0	0	0	0	0
2002	185	23	1	318.65	-445.782	D	7.36	7.36	0	2.803	0	0	0	0	0	0
2002	186	23	2789	340.496	-426.449	D	8.174	8.174	0	4.592	98.71	0.15	0	0	0	0.01
2002	187	23	2758	335.862	-424.454	D	7.455	7.452	0.003	2.999	99.88	0.12	0	0	0	0.01
2002	188	23	1552	330.178	-425.042	D	8.035	8.033	0.002	4.271	99.83	0.16	0	0	0	0
2002	189	23	1412	329.218	-425.834	D	6.863	6.863	0	1.782	93.04	0.03	0	0	0	0.01
2002	190	23	1	318.65	-445.782	D	6.746	6.746	0	1.548	0	0	0	0	0	0
2002	191	23	1	318.65	-445.782	D	6.966	6.966	0	1.988	0	0	0	0	0	0
2002	192	23	2789	340.496	-426.449	D	7.746	7.745	0.001	3.631	97.08	2.89	0	0	0	0.01
2002	193	23	2758	335.862	-424.454	D	8.528	8.521	0.008	5.399	97.82	2.16	0	0	0	0
2002	194	23	1415	329.185	-425.086	D	9.325	9.318	0.007	7.364	96.54	3.43	0	0	0	0
2002	195	23	623	324.229	-442.54	D	8.908	8.907	0.001	6.331	99.75	0.29	0	0	0	0
2002	196	23	1	318.65	-445.782	D	8.017	8.017	0	4.235	0	0	0	0	0	0
2002	197	23	1	318.65	-445.782	D	7.428	7.428	0	2.948	0	0	0	0	0	0
2002	198	23	1	318.65	-445.782	D	9.517	9.517	0	7.879	0	0	0	0	0	0
2002	199	23	1	318.65	-445.782	D	8.871	8.871	0	6.243	0	0	0	0	0	0
2002	200	23	1	318.65	-445.782	D	9.09	9.09	0	6.785	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.7	7.7	0	3.533	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.888	7.888	0	3.947	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.159	7.159	0	2.385	0	0	0	0	0	0
2002	204	23	1415	329.185	-425.086	D	7.119	7.119	0.001	2.301	99.7	0.16	0	0	0	0.03
2002	205	23	2255	335.942	-426.039	D	7.557	7.412	0.146	2.913	98.81	1.17	0	0	0	0.01
2002	206	23	2600	318.952	-443.12	D	7.25	7.231	0.019	2.532	99.71	0.27	0	0	0	0.01
2002	207	23	2789	340.496	-426.449	D	7.074	7.07	0.004	2.202	99.71	0.29	0	0	0	0.01
2002	208	23	2274	336.179	-425.778	D	7.866	7.866	0	3.898	96.27	0.03	0	0	0	0.01
2002	209	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.824	7.824	0	3.806	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	8.482	8.482	0	5.307	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.166	7.166	0	2.398	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.644	7.644	0	3.411	0	0	0	0	0	0
2002	214	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	215	23	1	318.65	-445.782	D	7.971	7.971	0	4.133	0	0	0	0	0	0
2002	216	23	1	318.65	-445.782	D	7.347	7.347	0	2.775	0	0	0	0	0	0
2002	217	23	1	318.65	-445.782	D	7.34	7.34	0	2.761	0	0	0	0	0	0
2002	218	23	2789	340.496	-426.449	D	6.829	6.819	0.011	1.693	99.56	0.43	0	0	0	0.02

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	219	23	2563	323.259	-443.79	D	8.819	8.627	0.192	5.651	97.93	2.07	0	0	0	0
2002	220	23	1	318.65	-445.782	D	6.92	6.92	0	1.895	0	0	0	0	0	0
2002	221	23	1	318.65	-445.782	D	6.724	6.724	0	1.505	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.045	7.045	0	2.15	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.191	7.191	0	2.45	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	6.912	6.912	0	1.88	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	8.619	8.619	0	5.634	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	9.936	9.936	0	9	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	8.318	8.318	0	4.925	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	8.739	8.739	0	5.922	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	8.63	8.63	0	5.658	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.926	7.926	0	4.031	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	6.941	6.941	0	1.939	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	6.972	6.972	0	2.001	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.651	7.651	0	3.426	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.084	7.084	0	2.23	0	0	0	0	0	0
2002	236	23	1	318.65	-445.782	D	7.668	7.668	0	3.464	0	0	0	0	0	0
2002	237	23	2789	340.496	-426.449	D	8.597	8.587	0.009	5.557	95.74	4.22	0	0	0	0.03
2002	238	23	2555	324.03	-442.528	D	8.053	7.904	0.149	3.983	94.8	5.19	0	0	0	0.01
2002	239	23	2684	326.713	-427.014	D	6.998	6.987	0.012	2.031	98.28	1.7	0	0	0	0.02
2002	240	23	1	318.65	-445.782	D	7.508	7.508	0	3.117	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.124	7.124	0	2.313	0	0	0	0	0	0
2002	242	23	1	318.65	-445.782	D	7.14	7.14	0	2.344	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.361	7.361	0	2.805	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.134	7.134	0	2.332	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	6.909	6.909	0	1.875	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	6.972	6.972	0	2.002	0	0	0	0	0	0
2002	247	23	2784	339.87	-426.019	D	6.924	6.924	0	1.904	100.43	0.09	0	0	0	0.02
2002	248	23	2255	335.942	-426.039	D	7.35	7.337	0.013	2.756	99.45	0.53	0	0	0	0.01
2002	249	23	2695	328.074	-426.025	D	6.796	6.794	0.001	1.644	99.79	0.07	0	0	0	0.01
2002	250	23	1009	326.641	-429.444	D	6.748	6.748	0	1.552	96.85	0.03	0	0	0	0.02
2002	251	23	1	318.65	-445.782	D	7.423	7.423	0	2.937	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.171	7.171	0	2.409	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.202	7.202	0	2.474	0	0	0	0	0	0
2002	254	23	2789	340.496	-426.449	D	7.1	7.048	0.052	2.156	87.82	12.13	0	0	0	0.05
2002	255	23	381	322.546	-443.863	D	8.193	8.097	0.096	4.417	91.28	8.71	0	0	0	0.01
2002	256	23	2588	318.452	-445.8	D	6.684	6.68	0.004	1.418	99.69	0.27	0	0	0	0.02
2002	257	23	1415	329.185	-425.086	D	6.674	6.672	0.002	1.402	99.56	0.29	0	0	0	0.02

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	258	23	2402	338.942	-426.406	D	8.282	8.282	0	4.841	97.17	1.04	0	0	0	0.01
2002	259	23	2789	340.496	-426.449	D	8.49	8.436	0.054	5.2	94.55	5.44	0	0	0	0.01
2002	260	23	2789	340.496	-426.449	D	7.852	7.813	0.039	3.78	97.24	2.75	0	0	0	0.01
2002	261	23	2789	340.496	-426.449	D	8.444	8.444	0.001	5.217	95.64	4.38	0	0	0	0.01
2002	262	23	1	318.65	-445.782	D	9.39	9.39	0	7.549	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	9.262	9.262	0	7.221	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	6.8	6.8	0	1.655	0	0	0	0	0	0
2002	265	23	2789	340.496	-426.449	D	6.811	6.797	0.014	1.649	88.97	10.94	0	0	0	0.08
2002	266	23	2789	340.496	-426.449	D	6.613	6.604	0.01	1.267	95.05	4.89	0	0	0	0.06
2002	267	23	2758	335.862	-424.454	D	6.56	6.549	0.01	1.161	96.99	2.97	0	0	0	0.05
2002	268	23	2758	335.862	-424.454	D	6.833	6.826	0.007	1.708	97.89	2.06	0	0	0	0.02
2002	269	23	1415	329.185	-425.086	D	7.376	7.375	0	2.836	99.23	0.65	0	0	0	0.01
2002	270	23	2597	318.971	-443.851	D	7.383	7.345	0.037	2.773	97.38	2.58	0	0	0	0.04
2002	271	23	2789	340.496	-426.449	D	6.828	6.811	0.018	1.677	98.76	1.2	0	0	0	0.03
2002	272	23	2762	336.074	-425.006	D	7.259	7.25	0.009	2.573	98.13	1.85	0	0	0	0.01
2002	273	23	2235	335.628	-424.554	D	7.365	7.365	0	2.814	99.32	0.09	0	0	0	0.01
2002	274	23	1	318.65	-445.782	D	6.966	6.966	0	1.989	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.239	7.239	0	2.549	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.523	7.523	0	3.151	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	9.147	9.147	0	6.929	0	0	0	0	0	0
2002	278	23	2789	340.496	-426.449	D	7.045	7.043	0.002	2.146	98.54	1.38	0	0	0	0.08
2002	279	23	2789	340.496	-426.449	D	6.81	6.806	0.004	1.667	97.18	2.84	0	0	0	0.04
2002	280	23	2789	340.496	-426.449	D	6.832	6.829	0.003	1.713	95.94	3.95	0	0	0	0.1
2002	281	23	2589	318.383	-445.593	D	6.569	6.562	0.007	1.186	95.29	4.66	0	0	0	0.06
2002	282	23	1413	329.207	-425.585	D	9.027	9.027	0	6.628	96.77	0.85	0	0	0	0.01
2002	283	23	1412	329.218	-425.834	D	9.995	9.995	0	9.162	93.7	0.76	0	0	0	0
2002	284	23	1	318.65	-445.782	D	9.433	9.433	0	7.662	0	0	0	0	0	0
2002	285	23	1	318.65	-445.782	D	9.046	9.046	0	6.677	0	0	0	0	0	0
2002	286	23	2255	335.942	-426.039	D	8.088	8.08	0.007	4.379	80.89	19.06	0	0	0	0.07
2002	287	23	2628	320.933	-436.998	D	6.526	6.524	0.002	1.112	88.31	11.65	0	0	0	0.05
2002	288	23	2789	340.496	-426.449	D	6.504	6.504	0	1.073	91.81	7.99	0	0	0	0.04
2002	289	23	2789	340.496	-426.449	D	6.573	6.554	0.02	1.17	57.85	42.02	0	0	0	0.13
2002	290	23	2447	336.137	-430.956	D	7.751	7.748	0.003	3.638	82.66	17.31	0	0	0	0.02
2002	291	23	1	318.65	-445.782	D	6.645	6.645	0	1.348	0	0	0	0	0	0
2002	292	23	2781	339.842	-425.379	D	9.78	9.74	0.04	8.47	79.57	20.42	0	0	0	0
2002	293	23	2704	329.056	-425.092	D	9.539	9.344	0.195	7.432	75.01	24.98	0	0	0	0.01
2002	294	23	2684	326.713	-427.014	D	6.942	6.935	0.007	1.926	92.92	7.06	0	0	0	0.02
2002	295	23	2661	325.283	-432.004	D	7.391	7.384	0.006	2.855	94.47	5.52	0	0	0	0.01
2002	296	23	2708	329.979	-425	D	7.004	6.996	0.009	2.049	91.62	8.35	0	0	0	0.02

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	297	23	2704	329.056	-425.092	D	6.758	6.757	0.002	1.569	94.45	5.48	0	0	0	0.02
2002	298	23	1	318.65	-445.782	D	9.646	9.646	0	8.218	0	0	0	0	0	0
2002	299	23	2789	340.496	-426.449	D	9.336	9.336	0	7.41	96.62	2.85	0	0	0	0.01
2002	300	23	2789	340.496	-426.449	D	9.465	9.18	0.285	7.013	80.96	19.03	0	0	0	0
2002	301	23	2704	329.056	-425.092	D	10.283	10.218	0.065	9.779	86.85	13.14	0	0	0	0
2002	302	23	2752	334.471	-424.635	D	9.973	9.849	0.124	8.762	78.31	21.69	0	0	0	0
2002	303	23	2597	318.971	-443.851	D	9.8	9.121	**0.679**	6.864	82.87	17.13	0	0	0	0
2002	304	23	2476	332.154	-435.398	D	9.67	9.085	**0.585**	6.773	80.36	19.64	0	0	0	0
2002	305	23	1	318.65	-445.782	D	7.72	7.72	0	3.576	0	0	0	0	0	0
2002	306	23	1	318.65	-445.782	D	7.777	7.777	0	3.701	0	0	0	0	0	0
2002	307	23	2789	340.496	-426.449	D	10.218	10.218	0.001	9.779	78.54	21.13	0	0	0	0
2002	308	23	1	318.65	-445.782	D	8.974	8.974	0	6.498	0	0	0	0	0	0
2002	309	23	2789	340.496	-426.449	D	9.323	9.322	0	7.375	88.87	10.71	0	0	0	0
2002	310	23	2789	340.496	-426.449	D	8.073	8.072	0.002	4.359	74.7	25.27	0	0	0	0
2002	311	23	1	318.65	-445.782	D	6.545	6.545	0	1.153	0	0	0	0	0	0
2002	312	23	1	318.65	-445.782	D	6.713	6.713	0	1.482	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	9.044	9.044	0	6.672	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	9.306	9.306	0	7.334	0	0	0	0	0	0
2002	315	23	1	318.65	-445.782	D	6.786	6.786	0	1.628	0	0	0	0	0	0
2002	316	23	2789	340.496	-426.449	D	6.635	6.633	0.002	1.326	41.52	58.33	0	0	0	0.09
2002	317	23	1	318.65	-445.782	D	6.613	6.613	0	1.285	0	0	0	0	0	0
2002	318	23	1	318.65	-445.782	D	7.01	7.01	0	2.079	0	0	0	0	0	0
2002	319	23	2789	340.496	-426.449	D	9.476	9.476	0	7.772	36.62	62.8	0	0	0	0.01
2002	320	23	2789	340.496	-426.449	D	8.923	8.881	0.042	6.268	44.7	55.29	0	0	0	0.01
2002	321	23	1	318.65	-445.782	D	6.705	6.705	0	1.467	0	0	0	0	0	0
2002	322	23	1	318.65	-445.782	D	6.826	6.826	0	1.707	0	0	0	0	0	0
2002	323	23	1	318.65	-445.782	D	6.805	6.805	0	1.665	0	0	0	0	0	0
2002	324	23	1	318.65	-445.782	D	6.495	6.495	0	1.057	0	0	0	0	0	0
2002	325	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	326	23	1	318.65	-445.782	D	6.938	6.938	0	1.932	0	0	0	0	0	0
2002	327	23	1	318.65	-445.782	D	6.536	6.536	0	1.136	0	0	0	0	0	0
2002	328	23	1551	330.189	-425.292	D	6.63	6.629	0	1.318	73.03	23.93	0	0	0	0.02
2002	329	23	2789	340.496	-426.449	D	7.264	7.219	0.045	2.507	58.34	41.64	0	0	0	0.02
2002	330	23	2789	340.496	-426.449	D	6.649	6.626	0.023	1.312	66.5	33.47	0	0	0	0.04
2002	331	23	2789	340.496	-426.449	D	6.917	6.887	0.03	1.83	56.02	43.94	0	0	0	0.03
2002	332	23	2789	340.496	-426.449	D	6.586	6.586	0	1.234	60.63	45.58	0	0	0	0.05
2002	333	23	1	318.65	-445.782	D	6.591	6.591	0	1.243	0	0	0	0	0	0
2002	334	23	1	318.65	-445.782	D	6.662	6.662	0	1.382	0	0	0	0	0	0
2002	335	23	1	318.65	-445.782	D	6.502	6.502	0	1.07	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	336	23	1	318.65	-445.782	D	6.496	6.496	0	1.058	0	0	0	0	0	0
2002	337	23	2597	318.971	-443.851	D	7.083	7.074	0.009	2.209	62.82	37.14	0	0	0	0.03
2002	338	23	2588	318.452	-445.8	D	10.219	10.218	0.001	9.779	66.01	34.03	0	0	0	0
2002	339	23	2789	340.496	-426.449	D	8.654	8.64	0.014	5.684	31.63	68.34	0	0	0	0.03
2002	340	23	1	318.65	-445.782	D	8.705	8.705	0	5.84	0	0	0	0	0	0
2002	341	23	1	318.65	-445.782	D	7.075	7.075	0	2.211	0	0	0	0	0	0
2002	342	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	343	23	2758	335.862	-424.454	D	8.631	8.492	0.14	5.33	73.89	26.11	0	0	0	0
2002	344	23	1	318.65	-445.782	D	6.855	6.855	0	1.766	0	0	0	0	0	0
2002	345	23	1	318.65	-445.782	D	8.185	8.185	0	4.617	0	0	0	0	0	0
2002	346	23	1	318.65	-445.782	D	8.309	8.309	0	4.902	0	0	0	0	0	0
2002	347	23	2709	330.21	-424.978	D	9.617	9.461	0.156	7.733	73.87	26.13	0	0	0	0.01
2002	348	23	2790	340.421	-426.562	D	9.486	9.351	0.135	7.448	73.29	26.71	0	0	0	0
2002	349	23	1	318.65	-445.782	D	7.033	7.033	0	2.126	0	0	0	0	0	0
2002	350	23	1	318.65	-445.782	D	9.107	9.107	0	6.829	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	9.67	9.67	0	8.285	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	9.899	9.899	0	8.899	0	0	0	0	0	0
2002	353	23	1	318.65	-445.782	D	8.345	8.345	0	4.987	0	0	0	0	0	0
2002	354	23	1	318.65	-445.782	D	6.783	6.783	0	1.622	0	0	0	0	0	0
2002	355	23	1	318.65	-445.782	D	6.532	6.532	0	1.128	0	0	0	0	0	0
2002	356	23	1	318.65	-445.782	D	7.006	7.006	0	2.071	0	0	0	0	0	0
2002	357	23	1	318.65	-445.782	D	7.59	7.59	0	3.295	0	0	0	0	0	0
2002	358	23	2781	339.842	-425.379	D	9.875	9.805	0.07	8.644	63.68	36.32	0	0	0	0.01
2002	359	23	1	318.65	-445.782	D	7.604	7.604	0	3.324	0	0	0	0	0	0
2002	360	23	1	318.65	-445.782	D	6.825	6.825	0	1.705	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	6.876	6.876	0	1.807	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.067	7.067	0	2.195	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.04	7.04	0	2.14	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	10.069	10.069	0	9.364	0	0	0	0	0	0
2002	365	23	1548	330.222	-426.04	D	8.853	8.824	0.03	6.128	38.35	61.62	0	0	0	0.03
									0.679							
HOLCIM									**DELTA**		**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	1	318.65	-445.782	D	6.842	6.842	0	1.74	0	0	0	0	0	0
2002	2	23	1	318.65	-445.782	D	6.882	6.882	0	1.82	0	0	0	0	0	0
2002	3	23	1	318.65	-445.782	D	7.245	7.245	0	2.562	0	0	0	0	0	0
2002	4	23	1	318.65	-445.782	D	6.816	6.816	0	1.687	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	5	23	1	318.65	-445.782	D	8.011	8.011	0	4.223	0	0	0	0	0	0
2002	6	23	1	318.65	-445.782	D	9.577	9.577	0	8.037	0	0	0	0	0	0
2002	7	23	1	318.65	-445.782	D	7.828	7.828	0	3.813	0	0	0	0	0	0
2002	8	23	1	318.65	-445.782	D	6.896	6.896	0	1.848	0	0	0	0	0	0
2002	9	23	1	318.65	-445.782	D	6.877	6.877	0	1.81	0	0	0	0	0	0
2002	10	23	1	318.65	-445.782	D	9.544	9.544	0	7.951	0	0	0	0	0	0
2002	11	23	1	318.65	-445.782	D	7.312	7.312	0	2.702	0	0	0	0	0	0
2002	12	23	1	318.65	-445.782	D	6.82	6.82	0	1.694	0	0	0	0	0	0
2002	13	23	1	318.65	-445.782	D	7.018	7.018	0	2.094	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	6.95	6.95	0	1.957	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	6.62	6.62	0	1.299	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	17	23	2468	334.002	-434.887	D	6.958	6.957	0	1.971	47.29	52.41	0	0	0	0.29
2002	18	23	2789	340.496	-426.449	D	8.746	8.73	0.015	5.901	59.21	40.35	0	0	0	0.43
2002	19	23	2758	335.862	-424.454	D	9.081	8.957	0.124	6.455	62.76	37.12	0	0	0	0.12
2002	20	23	2781	339.842	-425.379	D	9.255	8.882	0.373	6.27	68.13	31.83	0	0	0	0.04
2002	21	23	2781	339.842	-425.379	D	7.26	7.26	0	2.594	72.37	27.41	0	0	0	0.08
2002	22	23	1	318.65	-445.782	D	7.001	7.001	0	2.059	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	9.862	9.862	0	8.798	0	0	0	0	0	0
2002	24	23	1	318.65	-445.782	D	9.399	9.399	0	7.573	0	0	0	0	0	0
2002	25	23	1	318.65	-445.782	D	6.855	6.855	0	1.765	0	0	0	0	0	0
2002	26	23	1	318.65	-445.782	D	6.706	6.706	0	1.468	0	0	0	0	0	0
2002	27	23	1	318.65	-445.782	D	6.657	6.657	0	1.373	0	0	0	0	0	0
2002	28	23	1	318.65	-445.782	D	7.081	7.081	0	2.223	0	0	0	0	0	0
2002	29	23	1	318.65	-445.782	D	9.828	9.828	0	8.707	0	0	0	0	0	0
2002	30	23	2781	339.842	-425.379	D	10.238	10.218	0.02	9.779	58.07	41.88	0	0	0	0.05
2002	31	23	2704	329.056	-425.092	D	11.326	10.155	**1.171**	9.603	63.57	36.39	0	0	0	0.04
2002	32	23	2781	339.842	-425.379	D	7.477	7.475	0.002	3.047	72.77	27.22	0	0	0	0.02
2002	33	23	1	318.65	-445.782	D	7.099	7.099	0	2.261	0	0	0	0	0	0
2002	34	23	1	318.65	-445.782	D	6.798	6.798	0	1.652	0	0	0	0	0	0
2002	35	23	1	318.65	-445.782	D	6.88	6.88	0	1.815	0	0	0	0	0	0
2002	36	23	2448	335.908	-431.021	D	6.855	6.813	0.042	1.681	46.31	53.4	0	0	0	0.29
2002	37	23	2704	329.056	-425.092	D	9.616	9.611	0.004	8.127	56.93	43.02	0	0	0	0.05
2002	38	23	2758	335.862	-424.454	D	9.42	9.415	0.005	7.614	68.42	31.47	0	0	0	0.07
2002	39	23	2565	323.059	-444.215	D	7.986	7.981	0.005	4.154	74.93	25.01	0	0	0	0.06
2002	40	23	2781	339.842	-425.379	D	9.316	9.315	0.001	7.357	81.33	18.63	0	0	0	0.03
2002	41	23	1	318.65	-445.782	D	8.083	8.083	0	4.385	0	0	0	0	0	0
2002	42	23	1	318.65	-445.782	D	7.47	7.47	0	3.037	0	0	0	0	0	0
2002	43	23	1	318.65	-445.782	D	6.601	6.601	0	1.262	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	44	23	1	318.65	-445.782	D	6.728	6.728	0	1.512	0	0	0	0	0	0
2002	45	23	1	318.65	-445.782	D	6.604	6.604	0	1.269	0	0	0	0	0	0
2002	46	23	1	318.65	-445.782	D	7.064	7.064	0	2.189	0	0	0	0	0	0
2002	47	23	1	318.65	-445.782	D	6.737	6.737	0	1.53	0	0	0	0	0	0
2002	48	23	1	318.65	-445.782	D	6.574	6.574	0	1.21	0	0	0	0	0	0
2002	49	23	2789	340.496	-426.449	D	6.621	6.621	0	1.302	49.14	48.98	0	0	0	0.58
2002	50	23	1	318.65	-445.782	D	8.708	8.708	0	5.847	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	9.05	9.05	0	6.686	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	6.911	6.911	0	1.879	0	0	0	0	0	0
2002	53	23	1	318.65	-445.782	D	6.779	6.779	0	1.614	0	0	0	0	0	0
2002	54	23	2788	340.294	-426.448	D	6.687	6.687	0	1.432	81.32	16.98	0	0	0	0.78
2002	55	23	2789	340.496	-426.449	D	6.795	6.794	0.001	1.643	73.52	26.09	0	0	0	0.44
2002	56	23	1	318.65	-445.782	D	8.076	8.076	0	4.369	0	0	0	0	0	0
2002	57	23	1	318.65	-445.782	D	7.469	7.469	0	3.035	0	0	0	0	0	0
2002	58	23	1	318.65	-445.782	D	6.708	6.708	0	1.472	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	6.508	6.508	0	1.082	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.98	7.98	0	4.153	0	0	0	0	0	0
2002	61	23	2781	339.842	-425.379	D	9.731	9.722	0.01	8.42	55.87	44.06	0	0	0	0.07
2002	62	23	1	318.65	-445.782	D	7.265	7.265	0	2.605	0	0	0	0	0	0
2002	63	23	1	318.65	-445.782	D	7.154	7.154	0	2.374	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	6.603	6.603	0	1.266	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.141	7.141	0	2.346	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	9.603	9.603	0	8.106	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	8.845	8.845	0	6.18	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	6.753	6.753	0	1.563	0	0	0	0	0	0
2002	70	23	1	318.65	-445.782	D	7.416	7.416	0	2.922	0	0	0	0	0	0
2002	71	23	1	318.65	-445.782	D	9.328	9.328	0	7.39	0	0	0	0	0	0
2002	72	23	1	318.65	-445.782	D	6.804	6.804	0	1.663	0	0	0	0	0	0
2002	73	23	1	318.65	-445.782	D	7.929	7.929	0	4.037	0	0	0	0	0	0
2002	74	23	1	318.65	-445.782	D	10.09	10.09	0	9.423	0	0	0	0	0	0
2002	75	23	2789	340.496	-426.449	D	8.057	7.991	0.066	4.178	55.95	43.52	0	0	0	0.53
2002	76	23	2694	327.861	-425.964	D	8.472	8.378	0.094	5.064	56.53	43.27	0	0	0	0.2
2002	77	23	2781	339.842	-425.379	D	9.432	9.431	0.001	7.657	89.85	9.87	0	0	0	0.06
2002	78	23	2758	335.862	-424.454	D	10.4	10.218	0.182	9.779	73.77	26.19	0	0	0	0.04
2002	79	23	2781	339.842	-425.379	D	11.73	9.408	2.322	7.597	72.09	27.88	0	0	0	0.03
2002	80	23	1	318.65	-445.782	D	8.134	8.134	0	4.5	0	0	0	0	0	0
2002	81	23	1	318.65	-445.782	D	6.551	6.551	0	1.166	0	0	0	0	0	0
2002	82	23	1	318.65	-445.782	D	6.89	6.89	0	1.836	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	83	23	1	318.65	-445.782	D	8.743	8.743	0	5.932	0	0	0	0	0	0
2002	84	23	2684	326.713	-427.014	D	10.227	10.218	0.01	9.779	71.39	28.57	0	0	0	0.04
2002	85	23	2781	339.842	-425.379	D	9.988	8.605	1.384	5.599	71.4	28.56	0	0	0	0.05
2002	86	23	1	318.65	-445.782	D	7.962	7.962	0	4.113	0	0	0	0	0	0
2002	87	23	2789	340.496	-426.449	D	7.274	7.273	0.001	2.62	80.56	19.21	0	0	0	0.13
2002	88	23	1	318.65	-445.782	D	8.765	8.765	0	5.984	0	0	0	0	0	0
2002	89	23	2564	323.159	-444.002	D	7.744	7.669	0.075	3.466	74.92	24.8	0	0	0	0.28
2002	90	23	2589	318.383	-445.593	D	8.716	8.668	0.049	5.75	72.77	27.14	0	0	0	0.09
2002	91	23	2789	340.496	-426.449	D	6.726	6.723	0.004	1.502	73.77	25.2	0	0	0	1.04
2002	92	23	1	318.65	-445.782	D	7.704	7.704	0	3.542	0	0	0	0	0	0
2002	93	23	1	318.65	-445.782	D	6.697	6.697	0	1.452	0	0	0	0	0	0
2002	94	23	2781	339.842	-425.379	D	6.62	6.62	0	1.3	75.62	22.82	0	0	0	0.89
2002	95	23	2781	339.842	-425.379	D	6.625	6.555	0.071	1.172	68.21	31.25	0	0	0	0.53
2002	96	23	2789	340.496	-426.449	D	6.638	6.556	0.082	1.175	85.2	14.37	0	0	0	0.42
2002	97	23	2758	335.862	-424.454	D	8.281	8.279	0.002	4.833	93.46	6.14	0	0	0	0.4
2002	98	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	99	23	1	318.65	-445.782	D	9.117	9.117	0	6.854	0	0	0	0	0	0
2002	100	23	2781	339.842	-425.379	D	7.711	7.512	0.2	3.126	73.04	26.88	0	0	0	0.09
2002	101	23	1045	326.823	-427.937	D	6.942	6.942	0	1.941	90.37	0.62	0	0	0	0.22
2002	102	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	103	23	1	318.65	-445.782	D	8.889	8.889	0	6.287	0	0	0	0	0	0
2002	104	23	1	318.65	-445.782	D	8.999	8.999	0	6.559	0	0	0	0	0	0
2002	105	23	1	318.65	-445.782	D	8.516	8.516	0	5.389	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.596	7.596	0	3.307	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	8.247	8.247	0	4.758	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	8.641	8.641	0	5.687	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.663	7.663	0	3.453	0	0	0	0	0	0
2002	110	23	1	318.65	-445.782	D	9.387	9.387	0	7.541	0	0	0	0	0	0
2002	111	23	1	318.65	-445.782	D	8.234	8.234	0	4.73	0	0	0	0	0	0
2002	112	23	1	318.65	-445.782	D	6.849	6.849	0	1.754	0	0	0	0	0	0
2002	113	23	1	318.65	-445.782	D	7.3	7.3	0	2.678	0	0	0	0	0	0
2002	114	23	1	318.65	-445.782	D	8.745	8.745	0	5.937	0	0	0	0	0	0
2002	115	23	1	318.65	-445.782	D	6.743	6.743	0	1.543	0	0	0	0	0	0
2002	116	23	839	325.77	-437.976	D	8.045	7.985	0.06	4.164	75	24.91	0	0	0	0.09
2002	117	23	2255	335.942	-426.039	D	9.354	9.341	0.012	7.425	87.62	12.3	0	0	0	0.07
2002	118	23	1	318.65	-445.782	D	8.893	8.893	0	6.297	0	0	0	0	0	0
2002	119	23	1	318.65	-445.782	D	6.782	6.782	0	1.619	0	0	0	0	0	0
2002	120	23	1	318.65	-445.782	D	7.861	7.861	0	3.887	0	0	0	0	0	0
2002	121	23	1	318.65	-445.782	D	9.294	9.294	0	7.303	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	122	23	2789	340.496	-426.449	D	8.889	8.806	0.083	6.083	88.22	11.73	0	0	0	0.05
2002	123	23	2588	318.452	-445.8	D	7.36	7.228	0.133	2.527	91.05	8.68	0	0	0	0.27
2002	124	23	2684	326.713	-427.014	D	9.316	9.104	0.212	6.82	87.64	12.31	0	0	0	0.05
2002	125	23	2684	326.713	-427.014	D	8.532	8.428	0.104	5.181	92.25	7.7	0	0	0	0.05
2002	126	23	1414	329.196	-425.335	D	8.452	8.452	0	5.237	99.81	0.1	0	0	0	0.04
2002	127	23	1	318.65	-445.782	D	8.423	8.423	0	5.168	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	8.824	8.824	0	6.129	0	0	0	0	0	0
2002	129	23	1	318.65	-445.782	D	8.462	8.462	0	5.26	0	0	0	0	0	0
2002	130	23	1	318.65	-445.782	D	7.019	7.019	0	2.097	0	0	0	0	0	0
2002	131	23	1	318.65	-445.782	D	8.523	8.523	0	5.404	0	0	0	0	0	0
2002	132	23	1	318.65	-445.782	D	9.38	9.38	0	7.523	0	0	0	0	0	0
2002	133	23	1	318.65	-445.782	D	8.506	8.506	0	5.364	0	0	0	0	0	0
2002	134	23	1	318.65	-445.782	D	6.747	6.747	0	1.551	0	0	0	0	0	0
2002	135	23	1	318.65	-445.782	D	6.85	6.85	0	1.755	0	0	0	0	0	0
2002	136	23	1	318.65	-445.782	D	7.384	7.384	0	2.855	0	0	0	0	0	0
2002	137	23	2628	320.933	-436.998	D	11.359	10.14	**1.22**	9.561	73.38	26.58	0	0	0	0.04
2002	138	23	2789	340.496	-426.449	D	9.428	8.46	**0.968**	5.257	69.12	30.81	0	0	0	0.07
2002	139	23	1	318.65	-445.782	D	6.861	6.861	0	1.777	0	0	0	0	0	0
2002	140	23	1	318.65	-445.782	D	6.876	6.876	0	1.808	0	0	0	0	0	0
2002	141	23	2789	340.496	-426.449	D	6.714	6.713	0.001	1.483	96.67	2.79	0	0	0	0.53
2002	142	23	2789	340.496	-426.449	D	6.728	6.704	0.024	1.466	95.05	4.58	0	0	0	0.36
2002	143	23	2789	340.496	-426.449	D	6.768	6.765	0.003	1.586	98.16	1.61	0	0	0	0.22
2002	144	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2002	145	23	1	318.65	-445.782	D	8.137	8.137	0	4.507	0	0	0	0	0	0
2002	146	23	1	318.65	-445.782	D	8.441	8.441	0	5.212	0	0	0	0	0	0
2002	147	23	1	318.65	-445.782	D	8.905	8.905	0	6.327	0	0	0	0	0	0
2002	148	23	1	318.65	-445.782	D	8.901	8.901	0	6.317	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	9.28	9.28	0	7.267	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	8.533	8.533	0	5.428	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.158	7.158	0	2.382	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.878	7.878	0	3.924	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	8.029	8.029	0	4.264	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.439	7.439	0	2.97	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.015	7.015	0	2.089	0	0	0	0	0	0
2002	156	23	1	318.65	-445.782	D	8.887	8.887	0	6.281	0	0	0	0	0	0
2002	157	23	1	318.65	-445.782	D	8.762	8.762	0	5.977	0	0	0	0	0	0
2002	158	23	2571	322.646	-445.476	D	6.931	6.909	0.022	1.875	97.25	2.41	0	0	0	0.34
2002	159	23	2468	334.002	-434.887	D	7.026	6.907	0.119	1.87	98.38	1.4	0	0	0	0.23
2002	160	23	2708	329.979	-425	D	7.623	7.604	0.018	3.325	99.45	0.39	0	0	0	0.17

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	161	23	1	318.65	-445.782	D	9.508	9.508	0	7.855	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	8.531	8.531	0	5.424	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	8.238	8.238	0	4.74	0	0	0	0	0	0
2002	164	23	1	318.65	-445.782	D	8.172	8.172	0	4.588	0	0	0	0	0	0
2002	165	23	1	318.65	-445.782	D	7.569	7.569	0	3.249	0	0	0	0	0	0
2002	166	23	1	318.65	-445.782	D	6.682	6.682	0	1.422	0	0	0	0	0	0
2002	167	23	1	318.65	-445.782	D	6.744	6.744	0	1.543	0	0	0	0	0	0
2002	168	23	2789	340.496	-426.449	D	6.752	6.752	0	1.56	99.04	0.23	0	0	0	0.49
2002	169	23	2781	339.842	-425.379	D	6.719	6.718	0.002	1.492	99.52	0.21	0	0	0	0.33
2002	170	23	2781	339.842	-425.379	D	6.886	6.885	0.001	1.825	99.2	0.63	0	0	0	0.21
2002	171	23	1	318.65	-445.782	D	7.457	7.457	0	3.008	0	0	0	0	0	0
2002	172	23	1	318.65	-445.782	D	8.033	8.033	0	4.272	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.251	7.251	0	2.574	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.025	7.025	0	2.108	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.402	7.402	0	2.893	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	8.073	8.073	0	4.363	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	8.808	8.808	0	6.089	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	8.838	8.838	0	6.163	0	0	0	0	0	0
2002	179	23	1	318.65	-445.782	D	7.841	7.841	0	3.842	0	0	0	0	0	0
2002	180	23	1	318.65	-445.782	D	8.173	8.173	0	4.59	0	0	0	0	0	0
2002	181	23	1	318.65	-445.782	D	8.264	8.264	0	4.798	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	6.882	6.882	0	1.82	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	6.978	6.978	0	2.014	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	8.892	8.892	0	6.295	0	0	0	0	0	0
2002	185	23	2781	339.842	-425.379	D	7.305	7.303	0.001	2.685	99.29	0.4	0	0	0	0.18
2002	186	23	2781	339.842	-425.379	D	8.175	8.163	0.012	4.567	99.67	0.27	0	0	0	0.06
2002	187	23	2789	340.496	-426.449	D	7.503	7.423	0.08	2.937	99.26	0.6	0	0	0	0.14
2002	188	23	2628	320.933	-436.998	D	8.169	8.036	0.134	4.278	99.55	0.38	0	0	0	0.06
2002	189	23	2182	335.131	-424.575	D	6.862	6.862	0	1.779	99.54	0.19	0	0	0	0.16
2002	190	23	1	318.65	-445.782	D	6.746	6.746	0	1.548	0	0	0	0	0	0
2002	191	23	1	318.65	-445.782	D	6.966	6.966	0	1.988	0	0	0	0	0	0
2002	192	23	2789	340.496	-426.449	D	7.752	7.745	0.008	3.631	95.62	4.19	0	0	0	0.18
2002	193	23	2781	339.842	-425.379	D	8.546	8.494	0.053	5.335	95.27	4.66	0	0	0	0.06
2002	194	23	2758	335.862	-424.454	D	9.371	9.321	0.05	7.372	90.22	9.74	0	0	0	0.03
2002	195	23	2694	327.861	-425.964	D	8.945	8.942	0.004	6.417	99.56	0.33	0	0	0	0.08
2002	196	23	2704	329.056	-425.092	D	7.899	7.883	0.015	3.937	97.66	2.16	0	0	0	0.18
2002	197	23	2694	327.861	-425.964	D	7.339	7.339	0	2.76	99.43	0.12	0	0	0	0.29
2002	198	23	1	318.65	-445.782	D	9.517	9.517	0	7.879	0	0	0	0	0	0
2002	199	23	1	318.65	-445.782	D	8.871	8.871	0	6.243	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	200	23	1	318.65	-445.782	D	9.09	9.09	0	6.785	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.7	7.7	0	3.533	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.888	7.888	0	3.947	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.159	7.159	0	2.385	0	0	0	0	0	0
2002	204	23	1	318.65	-445.782	D	7.027	7.027	0	2.113	0	0	0	0	0	0
2002	205	23	2789	340.496	-426.449	D	7.35	7.328	0.022	2.737	96.86	2.75	0	0	0	0.39
2002	206	23	2789	340.496	-426.449	D	7.328	7.225	0.103	2.521	99.13	0.72	0	0	0	0.15
2002	207	23	2789	340.496	-426.449	D	7.093	7.07	0.023	2.202	99.27	0.6	0	0	0	0.12
2002	208	23	2781	339.842	-425.379	D	7.866	7.866	0	3.898	99.11	0.07	0	0	0	0.17
2002	209	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.824	7.824	0	3.806	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	8.482	8.482	0	5.307	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.166	7.166	0	2.398	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.644	7.644	0	3.411	0	0	0	0	0	0
2002	214	23	1	318.65	-445.782	D	7.186	7.186	0	2.439	0	0	0	0	0	0
2002	215	23	1	318.65	-445.782	D	7.971	7.971	0	4.133	0	0	0	0	0	0
2002	216	23	1	318.65	-445.782	D	7.347	7.347	0	2.775	0	0	0	0	0	0
2002	217	23	1	318.65	-445.782	D	7.34	7.34	0	2.761	0	0	0	0	0	0
2002	218	23	2789	340.496	-426.449	D	6.833	6.819	0.014	1.693	97.51	2.23	0	0	0	0.27
2002	219	23	2552	324.659	-442.591	D	9.545	8.626	**0.92**	5.649	94.43	5.53	0	0	0	0.04
2002	220	23	1	318.65	-445.782	D	6.92	6.92	0	1.895	0	0	0	0	0	0
2002	221	23	1	318.65	-445.782	D	6.724	6.724	0	1.505	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.045	7.045	0	2.15	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.191	7.191	0	2.45	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	6.912	6.912	0	1.88	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	8.619	8.619	0	5.634	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	9.936	9.936	0	9	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	8.318	8.318	0	4.925	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	8.739	8.739	0	5.922	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	8.63	8.63	0	5.658	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.926	7.926	0	4.031	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	6.941	6.941	0	1.939	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	6.972	6.972	0	2.001	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.651	7.651	0	3.426	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.084	7.084	0	2.23	0	0	0	0	0	0
2002	236	23	1	318.65	-445.782	D	7.668	7.668	0	3.464	0	0	0	0	0	0
2002	237	23	1	318.65	-445.782	D	8.628	8.628	0	5.655	0	0	0	0	0	0
2002	238	23	2789	340.496	-426.449	D	7.854	7.822	0.032	3.801	93.85	5.74	0	0	0	0.42

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	239	23	2784	339.87	-426.019	D	7.235	6.994	0.24	2.046	97.76	1.88	0	0	0	0.36
2002	240	23	2684	326.713	-427.014	D	7.84	7.724	0.116	3.586	98.98	0.82	0	0	0	0.2
2002	241	23	2694	327.861	-425.964	D	7.17	7.169	0	2.406	94.72	0.4	0	0	0	0.44
2002	242	23	1	318.65	-445.782	D	7.14	7.14	0	2.344	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.361	7.361	0	2.805	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.134	7.134	0	2.332	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	6.909	6.909	0	1.875	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	6.972	6.972	0	2.002	0	0	0	0	0	0
2002	247	23	1	318.65	-445.782	D	6.886	6.886	0	1.827	0	0	0	0	0	0
2002	248	23	2789	340.496	-426.449	D	7.427	7.297	0.131	2.671	98.63	1.14	0	0	0	0.23
2002	249	23	2628	320.933	-436.998	D	6.844	6.795	0.049	1.645	99.18	0.54	0	0	0	0.28
2002	250	23	1242	327.988	-426.138	D	6.748	6.748	0	1.552	98.85	0.08	0	0	0	0.32
2002	251	23	1	318.65	-445.782	D	7.423	7.423	0	2.937	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.171	7.171	0	2.409	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.202	7.202	0	2.474	0	0	0	0	0	0
2002	254	23	1	318.65	-445.782	D	6.97	6.97	0	1.997	0	0	0	0	0	0
2002	255	23	2255	335.942	-426.039	D	8.435	8.097	0.338	4.416	82.25	17.62	0	0	0	0.13
2002	256	23	2589	318.383	-445.593	D	6.725	6.68	0.045	1.418	98.95	0.66	0	0	0	0.39
2002	257	23	1415	329.185	-425.086	D	6.68	6.672	0.008	1.402	99.07	0.61	0	0	0	0.29
2002	258	23	2789	340.496	-426.449	D	8.283	8.282	0.001	4.841	97.43	2.13	0	0	0	0.11
2002	259	23	2789	340.496	-426.449	D	8.442	8.436	0.006	5.2	97.81	1.95	0	0	0	0.26
2002	260	23	2789	340.496	-426.449	D	7.832	7.813	0.02	3.78	95.48	4.38	0	0	0	0.13
2002	261	23	2789	340.496	-426.449	D	8.444	8.444	0	5.217	95.5	4.28	0	0	0	0.08
2002	262	23	1	318.65	-445.782	D	9.39	9.39	0	7.549	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	9.262	9.262	0	7.221	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	6.8	6.8	0	1.655	0	0	0	0	0	0
2002	265	23	1	318.65	-445.782	D	6.783	6.783	0	1.622	0	0	0	0	0	0
2002	266	23	2468	334.002	-434.887	D	6.608	6.608	0.001	1.275	96.8	2.01	0	0	0	1.14
2002	267	23	2789	340.496	-426.449	D	6.573	6.551	0.022	1.165	92.55	6.67	0	0	0	0.77
2002	268	23	2781	339.842	-425.379	D	6.85	6.823	0.026	1.702	93.4	6.21	0	0	0	0.39
2002	269	23	2704	329.056	-425.092	D	7.381	7.375	0.006	2.836	97.86	1.97	0	0	0	0.18
2002	270	23	2758	335.862	-424.454	D	7.429	7.394	0.034	2.876	98.25	1.06	0	0	0	0.68
2002	271	23	2781	339.842	-425.379	D	7.044	6.81	0.234	1.676	97.01	2.61	0	0	0	0.37
2002	272	23	2781	339.842	-425.379	D	7.411	7.25	0.161	2.573	96.82	2.99	0	0	0	0.19
2002	273	23	2781	339.842	-425.379	D	7.362	7.362	0	2.808	99.86	0.17	0	0	0	0.17
2002	274	23	1	318.65	-445.782	D	6.966	6.966	0	1.989	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.239	7.239	0	2.549	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.523	7.523	0	3.151	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	9.147	9.147	0	6.929	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	278	23	1	318.65	-445.782	D	6.953	6.953	0	1.963	0	0	0	0	0	0
2002	279	23	2789	340.496	-426.449	D	6.807	6.806	0.001	1.667	94.08	5.41	0	0	0	0.59
2002	280	23	1	318.65	-445.782	D	6.811	6.811	0	1.677	0	0	0	0	0	0
2002	281	23	2789	340.496	-426.449	D	6.606	6.571	0.035	1.204	86.61	12.68	0	0	0	0.72
2002	282	23	2694	327.861	-425.964	D	9.032	9.027	0.006	6.628	89.78	9.89	0	0	0	0.3
2002	283	23	1415	329.185	-425.086	D	9.995	9.995	0	9.162	98.02	1.58	0	0	0	0.06
2002	284	23	1	318.65	-445.782	D	9.433	9.433	0	7.662	0	0	0	0	0	0
2002	285	23	1	318.65	-445.782	D	9.046	9.046	0	6.677	0	0	0	0	0	0
2002	286	23	1	318.65	-445.782	D	7.886	7.886	0	3.942	0	0	0	0	0	0
2002	287	23	2710	330.44	-424.955	D	6.588	6.526	0.062	1.116	63.15	36.13	0	0	0	0.71
2002	288	23	2571	322.646	-445.476	D	6.531	6.507	0.024	1.079	81.26	18.16	0	0	0	0.58
2002	289	23	2236	336.149	-430.776	D	6.554	6.554	0	1.17	48.41	1.54	0	0	0	0.34
2002	290	23	1	318.65	-445.782	D	6.977	6.977	0	2.01	0	0	0	0	0	0
2002	291	23	1	318.65	-445.782	D	6.645	6.645	0	1.348	0	0	0	0	0	0
2002	292	23	1	318.65	-445.782	D	9.779	9.779	0	8.575	0	0	0	0	0	0
2002	293	23	2571	322.646	-445.476	D	9.762	9.4	0.362	7.576	73.18	26.73	0	0	0	0.09
2002	294	23	2573	322.153	-445.515	D	7.311	6.975	0.336	2.008	81.11	18.65	0	0	0	0.24
2002	295	23	2588	318.452	-445.8	D	7.758	7.448	0.31	2.991	89.53	10.35	0	0	0	0.12
2002	296	23	2781	339.842	-425.379	D	7.146	6.941	0.206	1.938	85.06	14.57	0	0	0	0.37
2002	297	23	2589	318.383	-445.593	D	6.917	6.76	0.157	1.575	92.59	7.13	0	0	0	0.28
2002	298	23	1	318.65	-445.782	D	9.646	9.646	0	8.218	87.17	12.81	0	0	0	0.09
2002	299	23	2781	339.842	-425.379	D	9.343	9.336	0.007	7.411	80.65	19.2	0	0	0	0.1
2002	300	23	2789	340.496	-426.449	D	11.392	9.18	**2.211**	7.013	75.28	24.65	0	0	0	0.07
2002	301	23	2704	329.056	-425.092	D	11.394	10.218	**1.177**	9.779	75.69	24.28	0	0	0	0.03
2002	302	23	2781	339.842	-425.379	D	10.795	9.849	**0.946**	8.762	62.79	37.14	0	0	0	0.08
2002	303	23	2789	340.496	-426.449	D	13.499	9.108	**4.391**	6.831	68.2	31.74	0	0	0	0.07
2002	304	23	2789	340.496	-426.449	D	12.105	9.083	**3.022**	6.769	64.38	35.57	0	0	0	0.05
2002	305	23	1	318.65	-445.782	D	7.72	7.72	0	3.576	0	0	0	0	0	0
2002	306	23	1	318.65	-445.782	D	7.777	7.777	0	3.701	0	0	0	0	0	0
2002	307	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	308	23	1	318.65	-445.782	D	8.974	8.974	0	6.498	0	0	0	0	0	0
2002	309	23	1	318.65	-445.782	D	9.292	9.292	0	7.299	0	0	0	0	0	0
2002	310	23	1	318.65	-445.782	D	8.034	8.034	0	4.275	0	0	0	0	0	0
2002	311	23	1	318.65	-445.782	D	6.545	6.545	0	1.153	0	0	0	0	0	0
2002	312	23	1	318.65	-445.782	D	6.713	6.713	0	1.482	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	9.044	9.044	0	6.672	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	9.306	9.306	0	7.334	0	0	0	0	0	0
2002	315	23	1	318.65	-445.782	D	6.786	6.786	0	1.628	0	0	0	0	0	0
2002	316	23	1	318.65	-445.782	D	6.605	6.605	0	1.27	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	317	23	1	318.65	-445.782	D	6.613	6.613	0	1.285	0	0	0	0	0	0
2002	318	23	1	318.65	-445.782	D	7.01	7.01	0	2.079	0	0	0	0	0	0
2002	319	23	1	318.65	-445.782	D	9.393	9.393	0	7.558	0	0	0	0	0	0
2002	320	23	1	318.65	-445.782	D	8.404	8.404	0	5.124	0	0	0	0	0	0
2002	321	23	1	318.65	-445.782	D	6.705	6.705	0	1.467	0	0	0	0	0	0
2002	322	23	1	318.65	-445.782	D	6.826	6.826	0	1.707	0	0	0	0	0	0
2002	323	23	1	318.65	-445.782	D	6.805	6.805	0	1.665	0	0	0	0	0	0
2002	324	23	1	318.65	-445.782	D	6.495	6.495	0	1.057	0	0	0	0	0	0
2002	325	23	1	318.65	-445.782	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	326	23	1	318.65	-445.782	D	6.938	6.938	0	1.932	0	0	0	0	0	0
2002	327	23	1	318.65	-445.782	D	6.536	6.536	0	1.136	0	0	0	0	0	0
2002	328	23	1	318.65	-445.782	D	6.643	6.643	0	1.345	0	0	0	0	0	0
2002	329	23	2789	340.496	-426.449	D	7.527	7.219	0.309	2.507	49.78	50.1	0	0	0	0.12
2002	330	23	2789	340.496	-426.449	D	6.666	6.626	0.04	1.312	54.67	44.92	0	0	0	0.41
2002	331	23	37	319.567	-443.993	D	7.105	6.899	0.206	1.853	40.06	59.67	0	0	0	0.27
2002	332	23	1	318.65	-445.782	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2002	333	23	1	318.65	-445.782	D	6.591	6.591	0	1.243	0	0	0	0	0	0
2002	334	23	1	318.65	-445.782	D	6.662	6.662	0	1.382	0	0	0	0	0	0
2002	335	23	1	318.65	-445.782	D	6.502	6.502	0	1.07	0	0	0	0	0	0
2002	336	23	1	318.65	-445.782	D	6.496	6.496	0	1.058	0	0	0	0	0	0
2002	337	23	2597	318.971	-443.851	D	7.16	7.074	0.086	2.209	41.03	58.49	0	0	0	0.48
2002	338	23	2588	318.452	-445.8	D	10.232	10.218	0.014	9.779	52.39	47.57	0	0	0	0.03
2002	339	23	2758	335.862	-424.454	D	9.32	8.641	**0.679**	5.686	28.4	71.49	0	0	0	0.12
2002	340	23	1	318.65	-445.782	D	8.705	8.705	0	5.84	0	0	0	0	0	0
2002	341	23	1	318.65	-445.782	D	7.075	7.075	0	2.211	0	0	0	0	0	0
2002	342	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2002	343	23	2758	335.862	-424.454	D	9.457	8.492	**0.966**	5.33	60.93	39.04	0	0	0	0.04
2002	344	23	1	318.65	-445.782	D	6.855	6.855	0	1.766	0	0	0	0	0	0
2002	345	23	1	318.65	-445.782	D	8.185	8.185	0	4.617	0	0	0	0	0	0
2002	346	23	1	318.65	-445.782	D	8.309	8.309	0	4.902	0	0	0	0	0	0
2002	347	23	2781	339.842	-425.379	D	9.565	9.435	0.129	7.667	53.2	46.73	0	0	0	0.08
2002	348	23	2789	340.496	-426.449	D	9.745	9.351	0.395	7.448	51.88	48.06	0	0	0	0.06
2002	349	23	1	318.65	-445.782	D	7.033	7.033	0	2.126	0	0	0	0	0	0
2002	350	23	1	318.65	-445.782	D	9.107	9.107	0	6.829	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	9.67	9.67	0	8.285	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	9.899	9.899	0	8.899	0	0	0	0	0	0
2002	353	23	1	318.65	-445.782	D	8.345	8.345	0	4.987	0	0	0	0	0	0
2002	354	23	1	318.65	-445.782	D	6.783	6.783	0	1.622	0	0	0	0	0	0
2002	355	23	1	318.65	-445.782	D	6.532	6.532	0	1.128	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	356	23	1	318.65	-445.782	D	7.006	7.006	0	2.071	0	0	0	0	0	0
2002	357	23	1	318.65	-445.782	D	7.59	7.59	0	3.295	0	0	0	0	0	0
2002	358	23	1548	330.222	-426.04	D	10.39	9.765	**0.625**	8.538	43	56.92	0	0	0	0.09
2002	359	23	1	318.65	-445.782	D	7.604	7.604	0	3.324	0	0	0	0	0	0
2002	360	23	1	318.65	-445.782	D	6.825	6.825	0	1.705	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	6.876	6.876	0	1.807	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.067	7.067	0	2.195	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.04	7.04	0	2.14	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	10.069	10.069	0	9.364	0	0	0	0	0	0
2002	365	23	2789	340.496	-426.449	D	8.877	8.828	0.048	6.139	61.78	37.9	0	0	0	0.32
									4.391							

Appendix M
Upper Buffalo
2003 M2

EGU											% of Modeled Extinction by Species					
YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	1	23	2758	335.862	-424.454	D	7.065	7.051	0.014	2.162	0	0	0	0	0	100
2003	2	23	2704	329.056	-425.092	D	9.343	9.327	0.016	7.386	0	0	0	0	0	100
2003	3	23	802	325.089	-433.759	D	7.919	7.912	0.007	4	0	0	0	0	0	99.98
2003	4	23	2789	340.496	-426.449	D	6.798	6.798	0	1.65	0	0	0	0	0	91.76
2003	5	23	2588	318.452	-445.8	D	7.261	7.26	0.001	2.595	0	0	0	0	0	99.84
2003	6	23	2758	335.862	-424.454	D	8.259	8.222	0.037	4.703	0	0	0	0	0	100
2003	7	23	2684	326.713	-427.014	D	7.381	7.377	0.005	2.839	0	0	0	0	0	100.05
2003	8	23	346	322.298	-443.874	D	6.711	6.711	0	1.478	0	0	0	0	0	13.19
2003	9	23	2704	329.056	-425.092	D	6.974	6.967	0.007	1.991	0	0	0	0	0	100
2003	10	23	2789	340.496	-426.449	D	6.606	6.602	0.004	1.265	0	0	0	0	0	100.01
2003	11	23	2758	335.862	-424.454	D	6.604	6.552	0.052	1.167	0	0	0	0	0	100
2003	12	23	2781	339.842	-425.379	D	6.528	6.498	0.029	1.063	0	0	0	0	0	99.99
2003	13	23	2781	339.842	-425.379	D	6.699	6.698	0.001	1.452	0	0	0	0	0	100.01
2003	14	23	2789	340.496	-426.449	D	9.153	9.15	0.002	6.938	0	0	0	0	0	99.88
2003	15	23	2758	335.862	-424.454	D	6.662	6.622	0.04	1.303	0	0	0	0	0	100
2003	16	23	2789	340.496	-426.449	D	8.292	8.274	0.018	4.822	0	0	0	0	0	99.99
2003	17	23	12	319.07	-444.015	D	7.909	7.905	0.004	3.985	0	0	0	0	0	100.01
2003	18	23	2758	335.862	-424.454	D	6.59	6.589	0.001	1.24	0	0	0	0	0	99.96
2003	19	23	1	318.65	-445.782	D	6.651	6.651	0	1.361	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	6.624	6.624	0	1.308	0	0	0	0	0	0
2003	21	23	2468	334.002	-434.887	D	7.544	7.538	0.006	3.183	0	0	0	0	0	99.98
2003	22	23	2704	329.056	-425.092	D	7.613	7.571	0.042	3.254	0	0	0	0	0	100
2003	23	23	2789	340.496	-426.449	D	7.008	6.962	0.046	1.981	0	0	0	0	0	100
2003	24	23	2589	318.383	-445.593	D	6.605	6.593	0.013	1.246	0	0	0	0	0	100.01
2003	25	23	2781	339.842	-425.379	D	6.5	6.5	0.001	1.065	0	0	0	0	0	99.78
2003	26	23	2789	340.496	-426.449	D	7.219	7.197	0.022	2.463	0	0	0	0	0	100
2003	27	23	2777	338.93	-425.542	D	6.816	6.793	0.023	1.641	0	0	0	0	0	100
2003	28	23	1	318.65	-445.782	D	8.235	8.235	0	4.732	0	0	0	0	0	0
2003	29	23	2781	339.842	-425.379	D	9.773	9.766	0.007	8.54	0	0	0	0	0	99.99
2003	30	23	2781	339.842	-425.379	D	9.138	9.129	0.009	6.885	0	0	0	0	0	99.98
2003	31	23	1415	329.185	-425.086	D	7.068	7.067	0	2.196	0	0	0	0	0	99.73
2003	32	23	2758	335.862	-424.454	D	7.082	7.079	0.002	2.22	0	0	0	0	0	99.98
2003	33	23	1	318.65	-445.782	D	6.87	6.87	0	1.795	0	0	0	0	0	0
2003	34	23	1549	330.211	-425.79	D	9.478	9.478	0	7.778	0	0	0	0	0	13.52
2003	35	23	452	322.413	-435.125	D	7.145	7.144	0.001	2.353	0	0	0	0	0	99.89
2003	36	23	2704	329.056	-425.092	D	6.61	6.566	0.044	1.194	0	0	0	0	0	100
2003	37	23	2781	339.842	-425.379	D	9.185	9.182	0.003	7.018	0	0	0	0	0	99.93
2003	38	23	2758	335.862	-424.454	D	8.027	8.005	0.022	4.209	0	0	0	0	0	100

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	39	23	2789	340.496	-426.449	D	6.875	6.875	0	1.805	0	0	0	0	0	99.42
2003	40	23	1	318.65	-445.782	D	7.657	7.657	0	3.439	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	9.339	9.339	0	7.418	0	0	0	0	0	0
2003	42	23	2758	335.862	-424.454	D	6.776	6.776	0	1.608	0	0	0	0	0	98.62
2003	43	23	2704	329.056	-425.092	D	6.535	6.52	0.014	1.106	0	0	0	0	0	100
2003	44	23	2704	329.056	-425.092	D	6.627	6.626	0.001	1.312	0	0	0	0	0	100.21
2003	45	23	1241	327.999	-426.387	D	10.218	10.218	0	9.779	0	0	0	0	0	81.04
2003	46	23	2758	335.862	-424.454	D	10.207	10.197	0.01	9.721	0	0	0	0	0	99.96
2003	47	23	2589	318.383	-445.593	D	8.487	8.453	0.034	5.24	0	0	0	0	0	100
2003	48	23	2711	330.671	-424.932	D	8.332	8.267	0.065	4.806	0	0	0	0	0	100
2003	49	23	2789	340.496	-426.449	D	6.98	6.979	0.001	2.016	0	0	0	0	0	99.97
2003	50	23	1415	329.185	-425.086	D	9.213	9.213	0	7.097	0	0	0	0	0	98.68
2003	51	23	2789	340.496	-426.449	D	9.572	9.556	0.016	7.983	0	0	0	0	0	99.99
2003	52	23	2709	330.21	-424.978	D	9.651	9.648	0.003	8.224	0	0	0	0	0	99.95
2003	53	23	2600	318.952	-443.12	D	9.504	9.493	0.011	7.818	0	0	0	0	0	99.99
2003	54	23	2758	335.862	-424.454	D	8.852	8.837	0.015	6.16	0	0	0	0	0	100
2003	55	23	2789	340.496	-426.449	D	8.5	8.491	0.009	5.329	0	0	0	0	0	99.99
2003	56	23	2781	339.842	-425.379	D	7.398	7.382	0.017	2.849	0	0	0	0	0	99.99
2003	57	23	2781	339.842	-425.379	D	8.527	8.518	0.009	5.392	0	0	0	0	0	100
2003	58	23	2628	320.933	-436.998	D	8.755	8.752	0.003	5.953	0	0	0	0	0	99.98
2003	59	23	2704	329.056	-425.092	D	8.984	8.967	0.017	6.48	0	0	0	0	0	99.99
2003	60	23	2704	329.056	-425.092	D	9.662	9.651	0.011	8.233	0	0	0	0	0	100
2003	61	23	2789	340.496	-426.449	D	9.124	9.117	0.007	6.853	0	0	0	0	0	99.99
2003	62	23	2789	340.496	-426.449	D	7.375	7.373	0.002	2.832	0	0	0	0	0	99.84
2003	63	23	2781	339.842	-425.379	D	6.982	6.981	0	2.02	0	0	0	0	0	98.33
2003	64	23	2781	339.842	-425.379	D	9.037	9.034	0.003	6.647	0	0	0	0	0	99.97
2003	65	23	2789	340.496	-426.449	D	7.579	7.573	0.006	3.258	0	0	0	0	0	99.98
2003	66	23	2789	340.496	-426.449	D	6.946	6.945	0.002	1.946	0	0	0	0	0	100.04
2003	67	23	2781	339.842	-425.379	D	7.068	7.068	0	2.196	0	0	0	0	0	95.04
2003	68	23	2628	320.933	-436.998	D	7.105	7.092	0.012	2.247	0	0	0	0	0	100
2003	69	23	2789	340.496	-426.449	D	6.558	6.547	0.01	1.158	0	0	0	0	0	99.99
2003	70	23	2789	340.496	-426.449	D	6.559	6.546	0.013	1.155	0	0	0	0	0	100
2003	71	23	2781	339.842	-425.379	D	7.11	7.11	0	2.282	0	0	0	0	0	100.01
2003	72	23	2758	335.862	-424.454	D	8.608	8.594	0.013	5.574	0	0	0	0	0	99.97
2003	73	23	2789	340.496	-426.449	D	8.603	8.594	0.009	5.574	0	0	0	0	0	99.97
2003	74	23	2694	327.861	-425.964	D	8.068	8.064	0.003	4.342	0	0	0	0	0	99.96
2003	75	23	1551	330.189	-425.292	D	7.282	7.282	0	2.639	0	0	0	0	0	100.1
2003	76	23	1	318.65	-445.782	D	8.644	8.644	0	5.692	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	8.653	8.653	0	5.713	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	78	23	2417	339.654	-425.626	D	8.846	8.846	0	6.183	0	0	0	0	0	95.46
2003	79	23	2709	330.21	-424.978	D	9.226	9.213	0.013	7.097	0	0	0	0	0	99.98
2003	80	23	2789	340.496	-426.449	D	8.846	8.841	0.005	6.169	0	0	0	0	0	100
2003	81	23	2308	337.055	-428.737	D	6.535	6.534	0.001	1.132	0	0	0	0	0	100.08
2003	82	23	2429	338.563	-428.651	D	6.574	6.574	0	1.21	0	0	0	0	0	99.37
2003	83	23	1	318.65	-445.782	D	6.82	6.82	0	1.696	0	0	0	0	0	0
2003	84	23	2789	340.496	-426.449	D	7.634	7.625	0.009	3.369	0	0	0	0	0	99.99
2003	85	23	2758	335.862	-424.454	D	8.833	8.829	0.004	6.141	0	0	0	0	0	99.95
2003	86	23	2413	339.406	-425.637	D	6.607	6.607	0	1.274	0	0	0	0	0	99.08
2003	87	23	2694	327.861	-425.964	D	8.731	8.729	0.001	5.898	0	0	0	0	0	99.99
2003	88	23	2694	327.861	-425.964	D	7.321	7.315	0.006	2.709	0	0	0	0	0	99.97
2003	89	23	2758	335.862	-424.454	D	6.532	6.531	0.001	1.126	0	0	0	0	0	99.83
2003	90	23	1	318.65	-445.782	D	6.478	6.478	0	1.023	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	6.547	6.547	0	1.157	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	6.893	6.893	0	1.842	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.231	7.231	0	2.533	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	8.075	8.075	0	4.366	0	0	0	0	0	0
2003	95	23	2758	335.862	-424.454	D	6.803	6.789	0.014	1.634	0	0	0	0	0	100.01
2003	96	23	2758	335.862	-424.454	D	8.067	8.064	0.003	4.342	0	0	0	0	0	100.01
2003	97	23	1	318.65	-445.782	D	9.082	9.082	0	6.766	0	0	0	0	0	0
2003	98	23	2789	340.496	-426.449	D	7.434	7.431	0.003	2.955	0	0	0	0	0	99.95
2003	99	23	2758	335.862	-424.454	D	7.102	7.055	0.047	2.17	0	0	0	0	0	100
2003	100	23	2758	335.862	-424.454	D	6.641	6.591	0.05	1.244	0	0	0	0	0	100
2003	101	23	2758	335.862	-424.454	D	6.493	6.478	0.014	1.024	0	0	0	0	0	100
2003	102	23	2789	340.496	-426.449	D	6.515	6.495	0.02	1.057	0	0	0	0	0	100
2003	103	23	2789	340.496	-426.449	D	6.526	6.525	0.001	1.115	0	0	0	0	0	100.04
2003	104	23	2418	339.946	-426.612	D	6.65	6.65	0	1.359	0	0	0	0	0	95.92
2003	105	23	1	318.65	-445.782	D	6.637	6.637	0	1.334	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	6.669	6.669	0	1.396	0	0	0	0	0	0
2003	107	23	2780	339.614	-425.419	D	7.566	7.564	0.001	3.239	0	0	0	0	0	99.86
2003	108	23	2781	339.842	-425.379	D	7.83	7.83	0	3.818	0	0	0	0	0	99.93
2003	109	23	2411	339.428	-426.135	D	7.559	7.559	0	3.227	0	0	0	0	0	96.36
2003	110	23	1	318.65	-445.782	D	9.045	9.045	0	6.674	0	0	0	0	0	0
2003	111	23	2781	339.842	-425.379	D	7.029	7.029	0	2.116	0	0	0	0	0	100.06
2003	112	23	2758	335.862	-424.454	D	6.562	6.539	0.022	1.142	0	0	0	0	0	100
2003	113	23	2789	340.496	-426.449	D	6.593	6.588	0.005	1.237	0	0	0	0	0	99.93
2003	114	23	1549	330.211	-425.79	D	8.042	8.042	0	4.291	0	0	0	0	0	96.91
2003	115	23	2684	326.713	-427.014	D	8.384	8.375	0.009	5.056	0	0	0	0	0	99.97
2003	116	23	2694	327.861	-425.964	D	8.383	8.367	0.015	5.038	0	0	0	0	0	100

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	117	23	307	322.093	-444.882	D	7.058	7.053	0.004	2.166	0	0	0	0	0	99.98
2003	118	23	2275	336.168	-425.529	D	7.47	7.47	0	3.038	0	0	0	0	0	97.58
2003	119	23	2245	336.051	-428.532	D	7.463	7.463	0	3.023	0	0	0	0	0	81.64
2003	120	23	1357	329.243	-432.078	D	8.159	8.159	0	4.557	0	0	0	0	0	51.74
2003	121	23	1	318.65	-445.782	D	7.624	7.624	0	3.367	0	0	0	0	0	0
2003	122	23	2684	326.713	-427.014	D	8.901	8.841	0.06	6.169	0	0	0	0	0	100
2003	123	23	2589	318.383	-445.593	D	8.36	8.345	0.015	4.986	0	0	0	0	0	100
2003	124	23	2789	340.496	-426.449	D	7.252	7.246	0.006	2.565	0	0	0	0	0	100.01
2003	125	23	1	318.65	-445.782	D	8.789	8.789	0	6.042	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	8.385	8.385	0	5.081	0	0	0	0	0	0
2003	127	23	1415	329.185	-425.086	D	8.622	8.618	0.004	5.629	0	0	0	0	0	99.98
2003	128	23	2781	339.842	-425.379	D	7.98	7.978	0.001	4.149	0	0	0	0	0	100.03
2003	129	23	1	318.65	-445.782	D	7.642	7.642	0	3.407	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	8.486	8.486	0	5.317	0	0	0	0	0	0
2003	131	23	2789	340.496	-426.449	D	7.328	7.327	0	2.735	0	0	0	0	0	100.16
2003	132	23	2589	318.383	-445.593	D	6.574	6.572	0.002	1.206	0	0	0	0	0	100.02
2003	133	23	2781	339.842	-425.379	D	6.891	6.891	0	1.837	0	0	0	0	0	99.76
2003	134	23	1	318.65	-445.782	D	9.399	9.399	0	7.572	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	8.763	8.763	0	5.98	0	0	0	0	0	0
2003	136	23	2415	339.676	-426.124	D	9.348	9.348	0	7.442	0	0	0	0	0	99.45
2003	137	23	2789	340.496	-426.449	D	9.371	9.371	0	7.5	0	0	0	0	0	99.47
2003	138	23	2589	318.383	-445.593	D	9.028	9.003	0.025	6.57	0	0	0	0	0	100
2003	139	23	2589	318.383	-445.593	D	8.747	8.739	0.008	5.921	0	0	0	0	0	99.99
2003	140	23	2628	320.933	-436.998	D	8.276	8.262	0.014	4.794	0	0	0	0	0	100
2003	141	23	2588	318.452	-445.8	D	6.73	6.718	0.012	1.492	0	0	0	0	0	100.01
2003	142	23	2628	320.933	-436.998	D	7.2	7.186	0.014	2.44	0	0	0	0	0	100
2003	143	23	2628	320.933	-436.998	D	6.721	6.702	0.019	1.46	0	0	0	0	0	100
2003	144	23	2790	340.421	-426.562	D	7.802	7.793	0.009	3.737	0	0	0	0	0	99.96
2003	145	23	2758	335.862	-424.454	D	9.221	9.201	0.02	7.066	0	0	0	0	0	99.99
2003	146	23	2588	318.452	-445.8	D	7.885	7.862	0.023	3.89	0	0	0	0	0	100
2003	147	23	2789	340.496	-426.449	D	6.664	6.656	0.008	1.369	0	0	0	0	0	99.98
2003	148	23	2789	340.496	-426.449	D	6.61	6.606	0.004	1.272	0	0	0	0	0	99.99
2003	149	23	1627	330.675	-425.021	D	7.29	7.287	0.004	2.649	0	0	0	0	0	99.98
2003	150	23	2789	340.496	-426.449	D	6.617	6.617	0.001	1.293	0	0	0	0	0	100.03
2003	151	23	2758	335.862	-424.454	D	7.215	7.204	0.011	2.477	0	0	0	0	0	100.01
2003	152	23	2789	340.496	-426.449	D	7.173	7.169	0.004	2.404	0	0	0	0	0	100.02
2003	153	23	2781	339.842	-425.379	D	8.609	8.607	0.003	5.603	0	0	0	0	0	99.92
2003	154	23	2781	339.842	-425.379	D	9.133	9.118	0.014	6.857	0	0	0	0	0	99.98
2003	155	23	2704	329.056	-425.092	D	7.659	7.617	0.042	3.353	0	0	0	0	0	100

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	156	23	2628	320.933	-436.998	D	6.831	6.819	0.012	1.693	0	0	0	0	0	99.99
2003	157	23	2781	339.842	-425.379	D	8.63	8.629	0.001	5.657	0	0	0	0	0	99.71
2003	158	23	2758	335.862	-424.454	D	7.542	7.528	0.014	3.162	0	0	0	0	0	100
2003	159	23	2758	335.862	-424.454	D	7.166	7.165	0	2.397	0	0	0	0	0	99.59
2003	160	23	1	318.65	-445.782	D	6.621	6.621	0	1.301	0	0	0	0	0	0
2003	161	23	1	318.65	-445.782	D	7.499	7.499	0	3.098	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	8.817	8.817	0	6.112	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	8.874	8.874	0	6.251	0	0	0	0	0	0
2003	164	23	1415	329.185	-425.086	D	9.213	9.212	0	7.095	0	0	0	0	0	95.34
2003	165	23	2704	329.056	-425.092	D	8.29	8.28	0.01	4.835	0	0	0	0	0	99.97
2003	166	23	2789	340.496	-426.449	D	8.145	8.13	0.015	4.492	0	0	0	0	0	100
2003	167	23	2694	327.861	-425.964	D	8.108	8.099	0.009	4.422	0	0	0	0	0	99.99
2003	168	23	2704	329.056	-425.092	D	7.421	7.418	0.002	2.927	0	0	0	0	0	99.96
2003	169	23	2709	330.21	-424.978	D	8.859	8.856	0.003	6.206	0	0	0	0	0	99.99
2003	170	23	2758	335.862	-424.454	D	8.529	8.518	0.011	5.392	0	0	0	0	0	99.99
2003	171	23	2571	322.646	-445.476	D	8.203	8.182	0.02	4.611	0	0	0	0	0	99.99
2003	172	23	2588	318.452	-445.8	D	6.971	6.969	0.002	1.995	0	0	0	0	0	100.01
2003	173	23	1	318.65	-445.782	D	6.92	6.92	0	1.897	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.108	7.108	0	2.279	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.784	7.784	0	3.718	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	8.399	8.399	0	5.113	0	0	0	0	0	0
2003	177	23	2789	340.496	-426.449	D	8.727	8.724	0.004	5.885	0	0	0	0	0	100.05
2003	178	23	2758	335.862	-424.454	D	6.9	6.837	0.063	1.729	0	0	0	0	0	100
2003	179	23	2704	329.056	-425.092	D	6.652	6.647	0.005	1.353	0	0	0	0	0	99.98
2003	180	23	1415	329.185	-425.086	D	6.721	6.719	0.003	1.494	0	0	0	0	0	99.93
2003	181	23	1415	329.185	-425.086	D	7.058	7.057	0	2.175	0	0	0	0	0	100.17
2003	182	23	1551	330.189	-425.292	D	8.821	8.821	0	6.12	0	0	0	0	0	94.3
2003	183	23	2757	335.63	-424.484	D	7.463	7.463	0	3.021	0	0	0	0	0	99.73
2003	184	23	2781	339.842	-425.379	D	7.374	7.374	0	2.832	0	0	0	0	0	99.34
2003	185	23	2781	339.842	-425.379	D	6.976	6.976	0	2.01	0	0	0	0	0	94.82
2003	186	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	8.318	8.318	0	4.923	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.086	7.086	0	2.234	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.739	7.739	0	3.619	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	8.593	8.593	0	5.571	0	0	0	0	0	0
2003	192	23	2758	335.862	-424.454	D	7.223	7.2	0.023	2.47	0	0	0	0	0	100
2003	193	23	2789	340.496	-426.449	D	7.846	7.846	0.001	3.853	0	0	0	0	0	99.86
2003	194	23	2781	339.842	-425.379	D	7.249	7.249	0	2.571	0	0	0	0	0	99.97

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	195	23	2789	340.496	-426.449	D	8.422	8.421	0.001	5.165	0	0	0	0	0	99.8
2003	196	23	2780	339.614	-425.419	D	8.22	8.22	0	4.698	0	0	0	0	0	86.6
2003	197	23	2405	338.909	-425.659	D	7.027	7.027	0	2.114	0	0	0	0	0	91.63
2003	198	23	2789	340.496	-426.449	D	7.155	7.155	0	2.375	0	0	0	0	0	99.93
2003	199	23	2787	340.091	-426.447	D	7.116	7.116	0	2.295	0	0	0	0	0	98.35
2003	200	23	2789	340.496	-426.449	D	7.719	7.719	0	3.574	0	0	0	0	0	99.61
2003	201	23	2780	339.614	-425.419	D	8.558	8.558	0	5.488	0	0	0	0	0	99.8
2003	202	23	2182	335.131	-424.575	D	8.102	8.102	0	4.428	0	0	0	0	0	94.51
2003	203	23	2781	339.842	-425.379	D	7.652	7.647	0.005	3.418	0	0	0	0	0	99.99
2003	204	23	2684	326.713	-427.014	D	7.06	7.024	0.037	2.106	0	0	0	0	0	100
2003	205	23	2589	318.383	-445.593	D	6.97	6.955	0.015	1.968	0	0	0	0	0	100.01
2003	206	23	2781	339.842	-425.379	D	7.092	7.08	0.012	2.222	0	0	0	0	0	100.01
2003	207	23	2704	329.056	-425.092	D	6.833	6.833	0	1.721	0	0	0	0	0	99.72
2003	208	23	1	318.65	-445.782	D	7.085	7.085	0	2.232	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.085	7.085	0	2.233	0	0	0	0	0	0
2003	210	23	2710	330.44	-424.955	D	8.382	8.382	0	5.073	0	0	0	0	0	99.46
2003	211	23	2596	318.977	-444.095	D	9.286	9.28	0.006	7.267	0	0	0	0	0	99.96
2003	212	23	2589	318.383	-445.593	D	7.275	7.263	0.012	2.6	0	0	0	0	0	100
2003	213	23	2789	340.496	-426.449	D	6.903	6.901	0.002	1.858	0	0	0	0	0	99.98
2003	214	23	2783	339.861	-425.806	D	7.583	7.583	0	3.28	0	0	0	0	0	97.72
2003	215	23	2780	339.614	-425.419	D	7.854	7.854	0	3.872	0	0	0	0	0	98.1
2003	216	23	2758	335.862	-424.454	D	7.684	7.684	0	3.498	0	0	0	0	0	99.89
2003	217	23	1662	330.967	-426.007	D	8.441	8.441	0	5.211	0	0	0	0	0	74.69
2003	218	23	2758	335.862	-424.454	D	8.595	8.571	0.024	5.519	0	0	0	0	0	99.99
2003	219	23	2789	340.496	-426.449	D	8.412	8.399	0.012	5.113	0	0	0	0	0	100
2003	220	23	2601	319.02	-442.895	D	7.095	7.084	0.011	2.229	0	0	0	0	0	100
2003	221	23	2589	318.383	-445.593	D	6.982	6.977	0.006	2.01	0	0	0	0	0	99.97
2003	222	23	2589	318.383	-445.593	D	7.178	7.162	0.016	2.39	0	0	0	0	0	100
2003	223	23	2588	318.452	-445.8	D	7.285	7.272	0.012	2.62	0	0	0	0	0	99.99
2003	224	23	2694	327.861	-425.964	D	7.098	7.086	0.012	2.234	0	0	0	0	0	99.99
2003	225	23	2704	329.056	-425.092	D	8.251	8.25	0.001	4.767	0	0	0	0	0	100.06
2003	226	23	1415	329.185	-425.086	D	8.936	8.936	0	6.402	0	0	0	0	0	100.22
2003	227	23	1	318.65	-445.782	D	7.337	7.337	0	2.755	0	0	0	0	0	0
2003	228	23	2789	340.496	-426.449	D	7.25	7.246	0.004	2.565	0	0	0	0	0	100
2003	229	23	2789	340.496	-426.449	D	6.943	6.942	0.001	1.94	0	0	0	0	0	100.04
2003	230	23	2781	339.842	-425.379	D	6.893	6.889	0.003	1.834	0	0	0	0	0	99.95
2003	231	23	2789	340.496	-426.449	D	6.829	6.826	0.004	1.706	0	0	0	0	0	100.03
2003	232	23	2789	340.496	-426.449	D	6.862	6.86	0.002	1.775	0	0	0	0	0	99.98
2003	233	23	2789	340.496	-426.449	D	6.922	6.921	0.001	1.898	0	0	0	0	0	100.05

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	234	23	2789	340.496	-426.449	D	7.116	7.113	0.003	2.289	0	0	0	0	0	99.96
2003	235	23	2758	335.862	-424.454	D	7.034	7.023	0.012	2.104	0	0	0	0	0	100
2003	236	23	2781	339.842	-425.379	D	8.467	8.455	0.012	5.245	0	0	0	0	0	99.99
2003	237	23	2694	327.861	-425.964	D	7.846	7.841	0.005	3.843	0	0	0	0	0	99.98
2003	238	23	2781	339.842	-425.379	D	7.354	7.352	0.002	2.786	0	0	0	0	0	99.95
2003	239	23	2781	339.842	-425.379	D	7.03	7.03	0	2.119	0	0	0	0	0	99.14
2003	240	23	1	318.65	-445.782	D	7.105	7.105	0	2.273	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	8.394	8.394	0	5.101	0	0	0	0	0	0
2003	242	23	2789	340.496	-426.449	D	9.245	9.245	0	7.179	0	0	0	0	0	97.18
2003	243	23	2781	339.842	-425.379	D	9.331	9.331	0	7.397	0	0	0	0	0	99.96
2003	244	23	1550	330.2	-425.541	D	9.378	9.378	0	7.518	0	0	0	0	0	95.02
2003	245	23	2588	318.452	-445.8	D	9.776	9.776	0	8.566	0	0	0	0	0	99.58
2003	246	23	2781	339.842	-425.379	D	9.219	9.199	0.02	7.062	0	0	0	0	0	99.99
2003	247	23	2694	327.861	-425.964	D	7.77	7.676	0.094	3.48	0	0	0	0	0	100
2003	248	23	2589	318.383	-445.593	D	6.744	6.736	0.008	1.529	0	0	0	0	0	99.98
2003	249	23	2704	329.056	-425.092	D	6.886	6.87	0.016	1.795	0	0	0	0	0	100
2003	250	23	2589	318.383	-445.593	D	6.932	6.929	0.003	1.915	0	0	0	0	0	100
2003	251	23	2468	334.002	-434.887	D	7.057	7.053	0.003	2.167	0	0	0	0	0	99.99
2003	252	23	2781	339.842	-425.379	D	7.201	7.2	0.001	2.469	0	0	0	0	0	100
2003	253	23	2781	339.842	-425.379	D	7.37	7.369	0.001	2.824	0	0	0	0	0	100.04
2003	254	23	1506	330.05	-427.796	D	8.313	8.313	0	4.913	0	0	0	0	0	82.49
2003	255	23	1	318.65	-445.782	D	9.962	9.962	0	9.071	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	9.428	9.428	0	7.649	0	0	0	0	0	0
2003	257	23	2781	339.842	-425.379	D	8.654	8.651	0.004	5.708	0	0	0	0	0	99.95
2003	258	23	2308	337.055	-428.737	D	6.757	6.719	0.038	1.494	0	0	0	0	0	100
2003	259	23	2757	335.63	-424.484	D	6.648	6.646	0.002	1.351	0	0	0	0	0	99.94
2003	260	23	2781	339.842	-425.379	D	6.756	6.755	0.001	1.565	0	0	0	0	0	99.91
2003	261	23	139	320.353	-439.212	D	6.75	6.75	0	1.556	0	0	0	0	0	90.08
2003	262	23	2758	335.862	-424.454	D	7.91	7.893	0.018	3.957	0	0	0	0	0	99.99
2003	263	23	2789	340.496	-426.449	D	6.597	6.588	0.01	1.236	0	0	0	0	0	99.99
2003	264	23	2789	340.496	-426.449	D	7.055	7.049	0.006	2.158	0	0	0	0	0	99.97
2003	265	23	2684	326.713	-427.014	D	9.082	9.081	0.001	6.764	0	0	0	0	0	99.86
2003	266	23	2758	335.862	-424.454	D	6.929	6.888	0.041	1.832	0	0	0	0	0	100
2003	267	23	1415	329.185	-425.086	D	6.853	6.853	0	1.761	0	0	0	0	0	99.91
2003	268	23	2435	337.211	-428.786	D	6.852	6.838	0.013	1.732	0	0	0	0	0	100
2003	269	23	2789	340.496	-426.449	D	7.045	7.039	0.006	2.138	0	0	0	0	0	99.97
2003	270	23	2684	326.713	-427.014	D	7.488	7.461	0.026	3.018	0	0	0	0	0	99.99
2003	271	23	2758	335.862	-424.454	D	6.74	6.678	0.062	1.413	0	0	0	0	0	100
2003	272	23	2694	327.861	-425.964	D	6.552	6.531	0.02	1.127	0	0	0	0	0	99.99

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	273	23	2757	335.63	-424.484	D	6.575	6.563	0.011	1.189	0	0	0	0	0	100
2003	274	23	2694	327.861	-425.964	D	8.494	8.474	0.02	5.288	0	0	0	0	0	99.98
2003	275	23	2694	327.861	-425.964	D	6.644	6.574	0.07	1.209	0	0	0	0	0	100
2003	276	23	2762	336.074	-425.006	D	7.01	7.007	0.003	2.072	0	0	0	0	0	99.99
2003	277	23	2758	335.862	-424.454	D	6.867	6.855	0.011	1.766	0	0	0	0	0	100
2003	278	23	2711	330.671	-424.932	D	7.063	7.04	0.023	2.139	0	0	0	0	0	100
2003	279	23	12	319.07	-444.015	D	9.15	9.143	0.006	6.921	0	0	0	0	0	99.98
2003	280	23	2781	339.842	-425.379	D	7.755	7.748	0.006	3.639	0	0	0	0	0	100.01
2003	281	23	2684	326.713	-427.014	D	7.599	7.597	0.001	3.31	0	0	0	0	0	99.97
2003	282	23	1412	329.218	-425.834	D	8.913	8.913	0	6.345	0	0	0	0	0	98.1
2003	283	23	2684	326.713	-427.014	D	9.772	9.772	0	8.556	0	0	0	0	0	99.4
2003	284	23	1549	330.211	-425.79	D	9.555	9.555	0	7.98	0	0	0	0	0	79.25
2003	285	23	2704	329.056	-425.092	D	7.947	7.924	0.023	4.028	0	0	0	0	0	100
2003	286	23	2589	318.383	-445.593	D	6.946	6.944	0.002	1.944	0	0	0	0	0	99.99
2003	287	23	2781	339.842	-425.379	D	8.87	8.869	0.001	6.238	0	0	0	0	0	100.05
2003	288	23	2308	337.055	-428.737	D	6.721	6.713	0.008	1.483	0	0	0	0	0	100
2003	289	23	2781	339.842	-425.379	D	6.602	6.602	0	1.265	0	0	0	0	0	100.14
2003	290	23	2789	340.496	-426.449	D	8.094	8.079	0.016	4.375	0	0	0	0	0	100
2003	291	23	2600	318.952	-443.12	D	6.625	6.622	0.004	1.303	0	0	0	0	0	100.02
2003	292	23	2571	322.646	-445.476	D	6.598	6.595	0.003	1.251	0	0	0	0	0	100.01
2003	293	23	2468	334.002	-434.887	D	6.696	6.696	0	1.45	0	0	0	0	0	96.66
2003	294	23	2781	339.842	-425.379	D	6.723	6.719	0.003	1.495	0	0	0	0	0	100
2003	295	23	2758	335.862	-424.454	D	6.732	6.71	0.022	1.478	0	0	0	0	0	100
2003	296	23	2789	340.496	-426.449	D	6.627	6.617	0.01	1.294	0	0	0	0	0	100
2003	297	23	2781	339.842	-425.379	D	6.686	6.685	0.002	1.427	0	0	0	0	0	99.9
2003	298	23	2758	335.862	-424.454	D	8.004	7.99	0.014	4.174	0	0	0	0	0	99.99
2003	299	23	2758	335.862	-424.454	D	7.594	7.562	0.032	3.234	0	0	0	0	0	100
2003	300	23	2789	340.496	-426.449	D	6.541	6.541	0	1.146	0	0	0	0	0	100.23
2003	301	23	2755	335.167	-424.545	D	6.633	6.632	0	1.324	0	0	0	0	0	99.93
2003	302	23	2758	335.862	-424.454	D	6.55	6.53	0.02	1.125	0	0	0	0	0	100.01
2003	303	23	1	318.65	-445.782	D	7.414	7.414	0	2.919	0	0	0	0	0	0
2003	304	23	2684	326.713	-427.014	D	9.138	9.138	0	6.907	0	0	0	0	0	56.57
2003	305	23	2704	329.056	-425.092	D	9.496	9.466	0.029	7.748	0	0	0	0	0	99.99
2003	306	23	1	318.65	-445.782	D	8.79	8.79	0	6.045	0	0	0	0	0	0
2003	307	23	1	318.65	-445.782	D	7.877	7.877	0	3.922	0	0	0	0	0	0
2003	308	23	1415	329.185	-425.086	D	7.408	7.408	0	2.905	0	0	0	0	0	99.26
2003	309	23	2684	326.713	-427.014	D	8.031	8.014	0.017	4.229	0	0	0	0	0	99.99
2003	310	23	2758	335.862	-424.454	D	8.951	8.925	0.026	6.376	0	0	0	0	0	99.99
2003	311	23	2694	327.861	-425.964	D	7.902	7.865	0.038	3.895	0	0	0	0	0	100

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	312	23	2684	326.713	-427.014	D	6.627	6.624	0.003	1.307	0	0	0	0	0	99.99
2003	313	23	1415	329.185	-425.086	D	6.512	6.512	0	1.089	0	0	0	0	0	100.17
2003	314	23	2789	340.496	-426.449	D	6.613	6.612	0.001	1.284	0	0	0	0	0	99.99
2003	315	23	1	318.65	-445.782	D	8.07	8.07	0	4.354	0	0	0	0	0	0
2003	316	23	2292	336.405	-425.269	D	9.266	9.266	0	7.232	0	0	0	0	0	97.97
2003	317	23	2758	335.862	-424.454	D	6.514	6.496	0.018	1.058	0	0	0	0	0	99.99
2003	318	23	2789	340.496	-426.449	D	6.968	6.957	0.011	1.97	0	0	0	0	0	99.99
2003	319	23	2456	334.644	-432.056	D	8.414	8.414	0	5.147	0	0	0	0	0	65.99
2003	320	23	1	318.65	-445.782	D	9.626	9.626	0	8.168	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	10.088	10.088	0	9.417	0	0	0	0	0	0
2003	322	23	2789	340.496	-426.449	D	9.877	9.876	0.001	8.836	0	0	0	0	0	100
2003	323	23	2756	335.398	-424.515	D	7.467	7.463	0.003	3.022	0	0	0	0	0	100
2003	324	23	1	318.65	-445.782	D	6.656	6.656	0	1.371	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	9.817	9.817	0	8.677	0	0	0	0	0	0
2003	327	23	1415	329.185	-425.086	D	9.01	9.009	0	6.585	0	0	0	0	0	99.14
2003	328	23	2781	339.842	-425.379	D	7.262	7.262	0	2.598	0	0	0	0	0	99.94
2003	329	23	1	318.65	-445.782	D	6.515	6.515	0	1.095	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.434	7.434	0	2.961	0	0	0	0	0	0
2003	331	23	2600	318.952	-443.12	D	9.181	9.17	0.011	6.988	0	0	0	0	0	99.98
2003	332	23	2789	340.496	-426.449	D	6.843	6.839	0.004	1.734	0	0	0	0	0	99.98
2003	333	23	2668	326.131	-430.598	D	6.497	6.494	0.003	1.055	0	0	0	0	0	99.97
2003	334	23	1	318.65	-445.782	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2003	335	23	2758	335.862	-424.454	D	6.671	6.659	0.013	1.376	0	0	0	0	0	99.99
2003	336	23	2308	337.055	-428.737	D	6.519	6.512	0.008	1.089	0	0	0	0	0	99.99
2003	337	23	2410	339.439	-426.385	D	8.177	8.177	0	4.598	0	0	0	0	0	99.79
2003	338	23	2758	335.862	-424.454	D	9.197	9.185	0.011	7.027	0	0	0	0	0	99.98
2003	339	23	1951	333.842	-434.874	D	8.542	8.536	0.006	5.436	0	0	0	0	0	99.99
2003	340	23	2789	340.496	-426.449	D	7.823	7.817	0.006	3.79	0	0	0	0	0	99.98
2003	341	23	2781	339.842	-425.379	D	6.659	6.656	0.003	1.37	0	0	0	0	0	99.98
2003	342	23	1	318.65	-445.782	D	8.111	8.111	0	4.449	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	10.155	10.155	0	9.603	0	0	0	0	0	0
2003	344	23	2781	339.842	-425.379	D	8.902	8.894	0.007	6.301	0	0	0	0	0	99.95
2003	345	23	2758	335.862	-424.454	D	7.571	7.558	0.013	3.226	0	0	0	0	0	99.99
2003	346	23	2781	339.842	-425.379	D	6.853	6.844	0.01	1.742	0	0	0	0	0	100.01
2003	347	23	2758	335.862	-424.454	D	9.553	9.55	0.003	7.966	0	0	0	0	0	99.91
2003	348	23	2781	339.842	-425.379	D	9.442	9.434	0.008	7.664	0	0	0	0	0	99.97
2003	349	23	2781	339.842	-425.379	D	9.064	9.064	0.001	6.72	0	0	0	0	0	99.77
2003	350	23	2789	340.496	-426.449	D	8.725	8.723	0.002	5.883	0	0	0	0	0	100

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	351	23	2789	340.496	-426.449	D	7.501	7.5	0	3.102	0	0	0	0	0	100.02
2003	352	23	2758	335.862	-424.454	D	6.936	6.935	0.001	1.926	0	0	0	0	0	99.92
2003	353	23	2611	319.699	-440.64	D	7.572	7.567	0.005	3.244	0	0	0	0	0	100.01
2003	354	23	2758	335.862	-424.454	D	6.619	6.614	0.005	1.288	0	0	0	0	0	100.01
2003	355	23	2789	340.496	-426.449	D	6.609	6.609	0	1.278	0	0	0	0	0	100.45
2003	356	23	1	318.65	-445.782	D	9.46	9.46	0	7.73	0	0	0	0	0	0
2003	357	23	2640	322.263	-435.121	D	9.48	9.464	0.016	7.742	0	0	0	0	0	100
2003	358	23	2758	335.862	-424.454	D	8.598	8.544	0.054	5.454	0	0	0	0	0	100
2003	359	23	2789	340.496	-426.449	D	6.592	6.584	0.008	1.23	0	0	0	0	0	100.01
2003	360	23	2781	339.842	-425.379	D	6.846	6.845	0.001	1.745	0	0	0	0	0	100.17
2003	361	23	2781	339.842	-425.379	D	6.757	6.757	0	1.569	0	0	0	0	0	97.38
2003	362	23	1	318.65	-445.782	D	8.719	8.719	0	5.874	0	0	0	0	0	0
2003	363	23	2704	329.056	-425.092	D	7.285	7.283	0.002	2.642	0	0	0	0	0	99.98
2003	364	23	1	318.65	-445.782	D	6.566	6.566	0	1.194	0	0	0	0	0	0
									0.094							
EXIDE											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	6.999	6.999	0	2.056	0	0	0	0	0	0
2003	2	23	1	318.65	-445.782	D	9.22	9.22	0	7.114	87.1	10.43	0	0	0	3.2
2003	3	23	2758	335.862	-424.454	D	7.932	7.927	0.005	4.034	85.77	11.43	0	0	0	2.77
2003	4	23	2409	339.158	-425.648	D	6.796	6.796	0	1.647	87.67	7.06	0	0	0	5.41
2003	5	23	2789	340.496	-426.449	D	7.327	7.327	0	2.733	71	19.88	0	0	0	6.73
2003	6	23	2781	339.842	-425.379	D	8.231	8.228	0.003	4.716	91.5	7.7	0	0	0	0.76
2003	7	23	2624	320.719	-437.835	D	7.422	7.422	0.001	2.934	90.83	6.63	0	0	0	2.35
2003	8	23	2362	338.048	-428.694	D	6.719	6.719	0	1.494	88.38	3.23	0	0	0	3.41
2003	9	23	2757	335.63	-424.484	D	6.968	6.968	0	1.994	85.67	6.26	0	0	0	7.3
2003	10	23	2694	327.861	-425.964	D	6.605	6.604	0	1.268	63.56	17.47	0	0	0	18.98
2003	11	23	440	322.543	-438.117	D	6.551	6.55	0.001	1.164	70.94	13.83	0	0	0	15.23
2003	12	23	2588	318.452	-445.8	D	6.501	6.5	0.001	1.066	84.46	8.13	0	0	0	7.16
2003	13	23	2400	338.672	-425.919	D	6.698	6.698	0	1.452	90.04	5.56	0	0	0	3.15
2003	14	23	2704	329.056	-425.092	D	9.205	9.204	0.001	7.075	90.3	7.75	0	0	0	1.69
2003	15	23	1	318.65	-445.782	D	6.625	6.625	0	1.309	92.2	4.32	0	0	0	3.55
2003	16	23	2605	319.291	-441.992	D	8.256	8.256	0	4.78	92.88	4.85	0	0	0	0.51
2003	17	23	2758	335.862	-424.454	D	8.102	8.1	0.002	4.424	91.97	6.39	0	0	0	1.78
2003	18	23	2781	339.842	-425.379	D	6.6	6.6	0	1.261	82.18	9.61	0	0	0	8.13
2003	19	23	1	318.65	-445.782	D	6.651	6.651	0	1.361	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	6.624	6.624	0	1.308	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	21	23	2707	329.748	-425.023	D	7.53	7.527	0.003	3.159	94.79	4.65	0	0	0	0.59
2003	22	23	623	324.229	-442.54	D	7.562	7.562	0	3.234	93.41	2.65	0	0	0	0.37
2003	23	23	1	318.65	-445.782	D	6.876	6.876	0	1.806	0	0	0	0	0	0
2003	24	23	168	320.568	-438.453	D	6.618	6.618	0	1.295	80.24	10.4	0	0	0	5.84
2003	25	23	2182	335.131	-424.575	D	6.501	6.501	0	1.067	85.08	9.49	0	0	0	3.85
2003	26	23	2707	329.748	-425.023	D	7.266	7.257	0.008	2.589	88.14	10.2	0	0	0	1.65
2003	27	23	1	318.65	-445.782	D	6.779	6.778	0.001	1.612	90.34	5.96	0	0	0	3.69
2003	28	23	2789	340.496	-426.449	D	8.039	8.039	0	4.285	91.65	4.61	0	0	0	2.09
2003	29	23	1	318.65	-445.782	D	9.699	9.699	0	8.36	0	0	0	0	0	0
2003	30	23	1	318.65	-445.782	D	9.114	9.114	0	6.846	0	0	0	0	0	0
2003	31	23	1	318.65	-445.782	D	7.121	7.121	0	2.306	0	0	0	0	0	0
2003	32	23	1	318.65	-445.782	D	6.936	6.936	0	1.929	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	6.87	6.87	0	1.795	0	0	0	0	0	0
2003	34	23	1551	330.189	-425.292	D	9.478	9.478	0	7.778	56.38	2.01	0	0	0	0.25
2003	35	23	1	318.65	-445.782	D	7.1	7.1	0	2.263	0	0	0	0	0	0
2003	36	23	2789	340.496	-426.449	D	6.564	6.563	0	1.189	89.16	4.56	0	0	0	5.96
2003	37	23	2694	327.861	-425.964	D	9.202	9.199	0.003	7.061	94.52	4.81	0	0	0	0.54
2003	38	23	2789	340.496	-426.449	D	8.016	8.011	0.005	4.221	95.32	4.03	0	0	0	0.61
2003	39	23	346	322.298	-443.874	D	6.839	6.839	0	1.734	65.16	7.09	0	0	0	3.81
2003	40	23	2758	335.862	-424.454	D	7.768	7.768	0	3.681	86.38	5	0	0	0	0.78
2003	41	23	2359	337.701	-426.461	D	9.352	9.352	0	7.452	84.92	4.62	0	0	0	0.26
2003	42	23	1	318.65	-445.782	D	6.733	6.733	0	1.522	0	0	0	0	0	0
2003	43	23	2692	327.796	-426.377	D	6.521	6.52	0	1.106	68.28	14.12	0	0	0	17.42
2003	44	23	2790	340.421	-426.562	D	6.611	6.61	0	1.281	87.39	5.14	0	0	0	6.79
2003	45	23	1414	329.196	-425.335	D	10.218	10.218	0	9.779	86.24	4.25	0	0	0	0.52
2003	46	23	1	318.65	-445.782	D	10.176	10.176	0	9.662	0	0	0	0	0	0
2003	47	23	1	318.65	-445.782	D	8.453	8.453	0	5.24	0	0	0	0	0	0
2003	48	23	1	318.65	-445.782	D	7.865	7.865	0	3.896	0	0	0	0	0	0
2003	49	23	2588	318.452	-445.8	D	6.86	6.86	0	1.776	94.05	2.89	0	0	0	1.86
2003	50	23	2240	336.106	-429.778	D	9.195	9.195	0	7.051	40.41	1.43	0	0	0	0.43
2003	51	23	2704	329.056	-425.092	D	9.526	9.524	0.002	7.899	96.34	3.17	0	0	0	0.39
2003	52	23	2684	326.713	-427.014	D	9.716	9.716	0	8.405	97.78	1.38	0	0	0	0.3
2003	53	23	13	319.06	-443.766	D	9.494	9.493	0	7.818	95.32	3.17	0	0	0	0.98
2003	54	23	1	318.65	-445.782	D	8.727	8.727	0	5.892	0	0	0	0	0	0
2003	55	23	2597	318.971	-443.851	D	8.439	8.438	0	5.204	89.03	8.1	0	0	0	2.52
2003	56	23	2623	320.666	-438.044	D	7.488	7.485	0.003	3.069	92.95	5.73	0	0	0	1.26
2003	57	23	1415	329.185	-425.086	D	8.626	8.624	0.002	5.646	95.63	3.89	0	0	0	0.44
2003	58	23	2155	334.883	-424.586	D	8.768	8.768	0.001	5.991	96.67	2.83	0	0	0	0.33
2003	59	23	2750	334.007	-424.696	D	8.968	8.967	0.001	6.48	97.42	2.15	0	0	0	0.24

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	60	23	2413	339.406	-425.637	D	9.652	9.651	0.001	8.233	97.74	1.82	0	0	0	0.15
2003	61	23	2781	339.842	-425.379	D	9.122	9.119	0.003	6.86	94.77	3.22	0	0	0	1.98
2003	62	23	2447	336.137	-430.956	D	7.378	7.373	0.005	2.832	93.34	5.21	0	0	0	1.41
2003	63	23	2789	340.496	-426.449	D	6.994	6.99	0.004	2.037	97.68	1.3	0	0	0	0.99
2003	64	23	2704	329.056	-425.092	D	9.103	9.103	0.001	6.818	96.61	2.77	0	0	0	0.44
2003	65	23	2563	323.259	-443.79	D	7.623	7.623	0	3.366	96.27	2.98	0	0	0	0.42
2003	66	23	2709	330.21	-424.978	D	6.918	6.918	0	1.891	94.96	2.82	0	0	0	1.83
2003	67	23	1412	329.218	-425.834	D	7.058	7.058	0	2.176	94.45	0.92	0	0	0	2.24
2003	68	23	2789	340.496	-426.449	D	7.063	7.06	0.003	2.18	93.64	4.89	0	0	0	1.43
2003	69	23	1	318.65	-445.782	D	6.544	6.544	0	1.152	95.29	0.92	0	0	0	3.44
2003	70	23	2588	318.452	-445.8	D	6.561	6.56	0.001	1.183	96.71	1.04	0	0	0	2.31
2003	71	23	2149	334.949	-426.082	D	7.133	7.133	0	2.331	97.6	0.77	0	0	0	1.32
2003	72	23	2694	327.861	-425.964	D	8.684	8.683	0.001	5.787	96.62	2.12	0	0	0	1.23
2003	73	23	2600	318.952	-443.12	D	8.678	8.677	0.001	5.772	97.47	1.75	0	0	0	0.66
2003	74	23	1045	326.823	-427.937	D	8.138	8.138	0	4.509	97.12	1.36	0	0	0	0.63
2003	75	23	1	318.65	-445.782	D	7.312	7.312	0	2.702	0	0	0	0	0	0
2003	76	23	1	318.65	-445.782	D	8.644	8.644	0	5.692	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	8.653	8.653	0	5.713	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	8.871	8.871	0	6.244	0	0	0	0	0	0
2003	79	23	2597	318.971	-443.851	D	9.206	9.203	0.003	7.071	94.96	4.32	0	0	0	0.63
2003	80	23	37	319.567	-443.993	D	8.893	8.871	0.022	6.244	95.07	4.19	0	0	0	0.74
2003	81	23	2571	322.646	-445.476	D	6.546	6.545	0.001	1.154	90.81	2.49	0	0	0	6.7
2003	82	23	2467	334.065	-434.651	D	6.58	6.58	0	1.222	95.43	0.53	0	0	0	3.81
2003	83	23	1	318.65	-445.782	D	6.82	6.82	0	1.696	0	0	0	0	0	0
2003	84	23	1552	330.178	-425.042	D	7.681	7.681	0	3.492	97.24	1.69	0	0	0	0.99
2003	85	23	1922	333.594	-434.885	D	8.823	8.823	0	6.126	96.62	2.39	0	0	0	0.29
2003	86	23	1	318.65	-445.782	D	6.635	6.635	0	1.329	0	0	0	0	0	0
2003	87	23	2781	339.842	-425.379	D	8.663	8.663	0	5.739	89.93	6.78	0	0	0	0.77
2003	88	23	1	318.65	-445.782	D	7.301	7.301	0	2.679	0	0	0	0	0	0
2003	89	23	2780	339.614	-425.419	D	6.531	6.531	0	1.126	79.16	8.98	0	0	0	11.27
2003	90	23	2177	335.186	-425.822	D	6.477	6.477	0	1.022	36.53	1.57	0	0	0	4.37
2003	91	23	1	318.65	-445.782	D	6.547	6.547	0	1.157	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	6.893	6.893	0	1.842	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.231	7.231	0	2.533	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	8.075	8.075	0	4.366	0	0	0	0	0	0
2003	95	23	2758	335.862	-424.454	D	6.79	6.789	0.001	1.634	89.02	5.65	0	0	0	5.32
2003	96	23	2404	338.92	-425.908	D	8.057	8.057	0	4.325	97.33	1.4	0	0	0	0.2
2003	97	23	2248	336.018	-427.784	D	9.101	9.101	0	6.813	66.44	0.72	0	0	0	0.03
2003	98	23	2781	339.842	-425.379	D	7.437	7.433	0.003	2.959	90.83	6.9	0	0	0	2.22

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	99	23	2588	318.452	-445.8	D	6.95	6.95	0	1.956	88.88	6.01	0	0	0	4.99
2003	100	23	1	318.65	-445.782	D	6.581	6.581	0	1.223	0	0	0	0	0	0
2003	101	23	863	325.509	-431.992	D	6.479	6.479	0	1.025	88.86	0.4	0	0	0	3.28
2003	102	23	1412	329.218	-425.834	D	6.494	6.494	0	1.055	96.43	0.18	0	0	0	2.74
2003	103	23	199	320.795	-437.944	D	6.522	6.522	0	1.11	89.79	0.09	0	0	0	2.09
2003	104	23	2236	336.149	-430.776	D	6.65	6.65	0	1.359	82.43	0.1	0	0	0	1.54
2003	105	23	1	318.65	-445.782	D	6.637	6.637	0	1.334	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	6.669	6.669	0	1.396	0	0	0	0	0	0
2003	107	23	199	320.795	-437.944	D	7.652	7.651	0.001	3.426	95.98	3.26	0	0	0	0.72
2003	108	23	2781	339.842	-425.379	D	7.83	7.83	0	3.818	94.22	0.7	0	0	0	1.72
2003	109	23	2407	339.18	-426.146	D	7.559	7.559	0	3.227	95.71	0.11	0	0	0	0.87
2003	110	23	2704	329.056	-425.092	D	9.015	9.008	0.007	6.582	97.47	1.9	0	0	0	0.61
2003	111	23	1	318.65	-445.782	D	7.014	7.014	0	2.087	0	0	0	0	0	0
2003	112	23	2404	338.92	-425.908	D	6.542	6.541	0	1.146	89.43	2.51	0	0	0	8.06
2003	113	23	15	319.038	-443.267	D	6.594	6.593	0.001	1.247	96.52	0.66	0	0	0	2.56
2003	114	23	1	318.65	-445.782	D	8.02	8.02	0	4.243	0	0	0	0	0	0
2003	115	23	2624	320.719	-437.835	D	8.363	8.358	0.004	5.018	96.35	1.54	0	0	0	2.07
2003	116	23	2588	318.452	-445.8	D	8.088	8.087	0.001	4.394	97.65	0.96	0	0	0	1.4
2003	117	23	1	318.65	-445.782	D	7.053	7.053	0	2.166	95.36	0.45	0	0	0	0.85
2003	118	23	199	320.795	-437.944	D	7.435	7.435	0	2.963	2.68	0	0	0	0	0.04
2003	119	23	1	318.65	-445.782	D	7.327	7.327	0	2.733	0	0	0	0	0	0
2003	120	23	1	318.65	-445.782	D	7.985	7.985	0	4.163	0	0	0	0	0	0
2003	121	23	1	318.65	-445.782	D	7.624	7.624	0	3.367	0	0	0	0	0	0
2003	122	23	2704	329.056	-425.092	D	8.846	8.842	0.004	6.173	97.56	1.8	0	0	0	0.62
2003	123	23	2789	340.496	-426.449	D	8.512	8.507	0.005	5.366	98.98	0.6	0	0	0	0.41
2003	124	23	2254	335.953	-426.288	D	7.32	7.318	0.002	2.716	99.26	0.13	0	0	0	0.53
2003	125	23	1	318.65	-445.782	D	8.789	8.789	0	6.042	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	8.385	8.385	0	5.081	0	0	0	0	0	0
2003	127	23	1415	329.185	-425.086	D	8.618	8.618	0	5.629	97.38	0.9	0	0	0	1.46
2003	128	23	2415	339.676	-426.124	D	8.007	8.007	0	4.213	98.19	0.21	0	0	0	1.47
2003	129	23	1	318.65	-445.782	D	7.642	7.642	0	3.407	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	8.486	8.486	0	5.317	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.409	7.409	0	2.907	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	6.899	6.899	0	1.854	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	9.399	9.399	0	7.572	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	8.763	8.763	0	5.98	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	9.31	9.31	0	7.344	0	0	0	0	0	0
2003	137	23	2277	336.146	-425.03	D	9.371	9.371	0	7.5	97.35	0.08	0	0	0	0.7

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	138	23	2684	326.713	-427.014	D	9.096	9.093	0.002	6.795	99.14	0.54	0	0	0	0.23
2003	139	23	1048	326.791	-427.189	D	8.791	8.79	0	6.046	98.89	0.32	0	0	0	0.29
2003	140	23	2684	326.713	-427.014	D	8.271	8.269	0.002	4.81	98.23	1.39	0	0	0	0.36
2003	141	23	1	318.65	-445.782	D	6.718	6.718	0	1.492	99.7	0.16	0	0	0	0.92
2003	142	23	1	318.65	-445.782	D	7.283	7.283	0	2.641	0	0	0	0	0	0
2003	143	23	2274	336.179	-425.778	D	6.676	6.676	0	1.409	56	0.02	0	0	0	1.51
2003	144	23	2209	335.38	-424.564	D	7.815	7.815	0	3.785	98.13	0.41	0	0	0	0.63
2003	145	23	2704	329.056	-425.092	D	9.207	9.205	0.003	7.075	98.59	0.92	0	0	0	0.43
2003	146	23	2597	318.971	-443.851	D	8.096	8.096	0	4.414	99.32	0.1	0	0	0	0.54
2003	147	23	1	318.65	-445.782	D	6.647	6.647	0	1.353	0	0	0	0	0	0
2003	148	23	1	318.65	-445.782	D	6.596	6.596	0	1.253	0	0	0	0	0	0
2003	149	23	2789	340.496	-426.449	D	7.287	7.286	0.001	2.649	94.17	2.35	0	0	0	3.49
2003	150	23	1	318.65	-445.782	D	6.615	6.614	0	1.289	95.53	0.11	0	0	0	3.69
2003	151	23	2694	327.861	-425.964	D	7.237	7.237	0	2.545	87.68	6.65	0	0	0	5.47
2003	152	23	1	318.65	-445.782	D	7.102	7.102	0	2.267	68.05	0.01	0	0	0	1.75
2003	153	23	692	324.107	-434.051	D	8.688	8.688	0	5.799	93.08	0.1	0	0	0	0.23
2003	154	23	1	318.65	-445.782	D	9.027	9.027	0	6.628	98.97	0.53	0	0	0	0.19
2003	155	23	1	318.65	-445.782	D	7.305	7.305	0	2.689	0	0	0	0	0	0
2003	156	23	1	318.65	-445.782	D	6.821	6.821	0	1.697	0	0	0	0	0	0
2003	157	23	2684	326.713	-427.014	D	8.784	8.784	0	6.03	92.26	0.12	0	0	0	0.64
2003	158	23	13	319.06	-443.766	D	7.514	7.514	0	3.132	98.41	0.17	0	0	0	0.63
2003	159	23	2236	336.149	-430.776	D	7.15	7.15	0	2.365	94.52	0.04	0	0	0	0.66
2003	160	23	2037	333.945	-425.876	D	6.623	6.623	0	1.305	75.88	0.03	0	0	0	0.92
2003	161	23	1	318.65	-445.782	D	7.499	7.499	0	3.098	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	8.817	8.817	0	6.112	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	8.874	8.874	0	6.251	0	0	0	0	0	0
2003	164	23	67	319.674	-440.741	D	9.221	9.221	0	7.117	96.24	0.12	0	0	0	0.87
2003	165	23	1551	330.189	-425.292	D	8.299	8.299	0	4.879	98.56	0.28	0	0	0	0.34
2003	166	23	1	318.65	-445.782	D	8.279	8.279	0	4.833	97.74	0.3	0	0	0	0.29
2003	167	23	2183	335.664	-431.047	D	8.102	8.102	0	4.428	96.68	0.13	0	0	0	0.33
2003	168	23	1	318.65	-445.782	D	7.645	7.645	0	3.413	97.53	0.21	0	0	0	0.4
2003	169	23	1	318.65	-445.782	D	8.946	8.946	0	6.427	100.21	0.1	0	0	0	0.16
2003	170	23	2155	334.883	-424.586	D	8.518	8.518	0	5.392	96.55	0.05	0	0	0	1.95
2003	171	23	2709	330.21	-424.978	D	8.411	8.408	0.004	5.133	98.65	0.95	0	0	0	0.37
2003	172	23	1	318.65	-445.782	D	6.969	6.969	0	1.995	98.57	0.06	0	0	0	0.85
2003	173	23	1	318.65	-445.782	D	6.92	6.92	0	1.897	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.108	7.108	0	2.279	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.784	7.784	0	3.718	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	8.399	8.399	0	5.113	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	177	23	2758	335.862	-424.454	D	8.725	8.722	0.003	5.881	96.97	2.28	0	0	0	0.71
2003	178	23	2684	326.713	-427.014	D	6.842	6.84	0.002	1.735	96.52	0.42	0	0	0	3.01
2003	179	23	30	319.242	-442.259	D	6.649	6.647	0.001	1.353	97.24	0.06	0	0	0	2.66
2003	180	23	1415	329.185	-425.086	D	6.719	6.719	0	1.494	97.62	0.04	0	0	0	1.97
2003	181	23	1549	330.211	-425.79	D	7.095	7.095	0	2.252	91.23	0.12	0	0	0	1.09
2003	182	23	1	318.65	-445.782	D	8.857	8.857	0	6.21	0	0	0	0	0	0
2003	183	23	199	320.795	-437.944	D	7.367	7.367	0	2.818	38.46	0	0	0	0	0.57
2003	184	23	13	319.06	-443.766	D	7.354	7.354	0	2.791	14.83	0	0	0	0	0.1
2003	185	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	8.318	8.318	0	4.923	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.086	7.086	0	2.234	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.739	7.739	0	3.619	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	8.593	8.593	0	5.571	0	0	0	0	0	0
2003	192	23	2589	318.383	-445.593	D	7.286	7.285	0.001	2.647	95.09	0.31	0	0	0	4.69
2003	193	23	2213	335.868	-430.039	D	7.863	7.862	0.001	3.889	98.24	0.48	0	0	0	1.18
2003	194	23	2781	339.842	-425.379	D	7.249	7.249	0	2.571	98.15	0.14	0	0	0	1.34
2003	195	23	2781	339.842	-425.379	D	8.449	8.448	0.001	5.227	99.33	0.2	0	0	0	0.39
2003	196	23	2037	333.945	-425.876	D	8.174	8.174	0	4.592	89.43	0.01	0	0	0	0.48
2003	197	23	2203	335.445	-426.06	D	7.006	7.006	0	2.07	91.38	0.02	0	0	0	2.17
2003	198	23	2274	336.179	-425.778	D	7.133	7.133	0	2.331	90.13	0.02	0	0	0	1.19
2003	199	23	1412	329.218	-425.834	D	7.137	7.137	0	2.338	88.15	0.01	0	0	0	0.87
2003	200	23	13	319.06	-443.766	D	7.66	7.66	0	3.446	42.16	0	0	0	0	0.31
2003	201	23	1	318.65	-445.782	D	8.338	8.338	0	4.97	0	0	0	0	0	0
2003	202	23	2155	334.883	-424.586	D	8.102	8.102	0	4.428	98.31	0.12	0	0	0	0.39
2003	203	23	2789	340.496	-426.449	D	7.678	7.677	0.001	3.482	98.36	0.33	0	0	0	1.36
2003	204	23	1	318.65	-445.782	D	7.015	7.015	0	2.088	0	0	0	0	0	0
2003	205	23	1	318.65	-445.782	D	6.955	6.955	0	1.968	0	0	0	0	0	0
2003	206	23	1	318.65	-445.782	D	7.058	7.058	0	2.176	0	0	0	0	0	0
2003	207	23	1	318.65	-445.782	D	6.798	6.798	0	1.652	0	0	0	0	0	0
2003	208	23	1	318.65	-445.782	D	7.085	7.085	0	2.232	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.085	7.085	0	2.233	0	0	0	0	0	0
2003	210	23	2762	336.074	-425.006	D	8.42	8.415	0.005	5.151	99.16	0.42	0	0	0	0.36
2003	211	23	2694	327.861	-425.964	D	9.346	9.34	0.006	7.421	99.42	0.28	0	0	0	0.27
2003	212	23	2789	340.496	-426.449	D	7.609	7.607	0.002	3.331	99.22	0.16	0	0	0	0.58
2003	213	23	2418	339.946	-426.612	D	6.901	6.901	0	1.858	98.02	0.08	0	0	0	1
2003	214	23	2156	335.416	-431.058	D	7.672	7.672	0	3.471	98.13	0.02	0	0	0	0.45
2003	215	23	2762	336.074	-425.006	D	7.855	7.854	0.001	3.872	98.91	0.17	0	0	0	0.77

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	216	23	1455	329.987	-432.045	D	7.888	7.882	0.006	3.934	99.27	0.19	0	0	0	0.52
2003	217	23	2789	340.496	-426.449	D	8.348	8.348	0	4.992	99.15	0.13	0	0	0	0.58
2003	218	23	2273	336.19	-426.028	D	8.604	8.603	0.001	5.595	98.93	0.22	0	0	0	0.58
2003	219	23	13	319.06	-443.766	D	8.445	8.443	0.002	5.214	99.36	0.23	0	0	0	0.38
2003	220	23	199	320.795	-437.944	D	7.079	7.079	0	2.22	95.13	0	0	0	0	0.92
2003	221	23	1	318.65	-445.782	D	6.977	6.977	0	2.01	0	0	0	0	0	0
2003	222	23	1	318.65	-445.782	D	7.162	7.162	0	2.39	0	0	0	0	0	0
2003	223	23	1	318.65	-445.782	D	7.272	7.272	0	2.62	0	0	0	0	0	0
2003	224	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2003	225	23	1	318.65	-445.782	D	8.321	8.321	0	4.931	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	8.753	8.753	0	5.955	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.337	7.337	0	2.755	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.347	7.347	0	2.776	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	6.982	6.982	0	2.021	0	0	0	0	0	0
2003	230	23	2789	340.496	-426.449	D	6.902	6.901	0	1.859	97.44	0.03	0	0	0	2.21
2003	231	23	2789	340.496	-426.449	D	6.826	6.826	0.001	1.706	98.32	0.03	0	0	0	1.55
2003	232	23	2788	340.294	-426.448	D	6.86	6.86	0	1.775	98.52	0.04	0	0	0	1.25
2003	233	23	2789	340.496	-426.449	D	6.921	6.921	0	1.898	98.76	0.13	0	0	0	1.07
2003	234	23	2784	339.87	-426.019	D	7.114	7.113	0.001	2.289	98.15	0.02	0	0	0	1.85
2003	235	23	2784	339.87	-426.019	D	7.033	7.028	0.005	2.114	98.57	0.04	0	0	0	1.4
2003	236	23	2588	318.452	-445.8	D	8.524	8.515	0.009	5.385	99.35	0.13	0	0	0	0.49
2003	237	23	2653	324.014	-433.36	D	7.889	7.884	0.005	3.939	99.38	0.05	0	0	0	0.58
2003	238	23	2784	339.87	-426.019	D	7.376	7.375	0.001	2.835	99.17	0.01	0	0	0	0.68
2003	239	23	2413	339.406	-425.637	D	7.03	7.03	0	2.119	98.82	0.02	0	0	0	0.73
2003	240	23	1	318.65	-445.782	D	7.105	7.105	0	2.273	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	8.394	8.394	0	5.101	0	0	0	0	0	0
2003	242	23	1	318.65	-445.782	D	8.773	8.773	0	6.004	0	0	0	0	0	0
2003	243	23	1	318.65	-445.782	D	9.309	9.309	0	7.34	0	0	0	0	0	0
2003	244	23	1	318.65	-445.782	D	9.456	9.456	0	7.721	0	0	0	0	0	0
2003	245	23	1	318.65	-445.782	D	9.776	9.776	0	8.566	0	0	0	0	0	0
2003	246	23	1	318.65	-445.782	D	9.235	9.235	0	7.152	0	0	0	0	0	0
2003	247	23	2628	320.933	-436.998	D	7.688	7.674	0.014	3.476	97.92	1.46	0	0	0	0.61
2003	248	23	1	318.65	-445.782	D	6.736	6.736	0	1.529	78.74	0.01	0	0	0	2
2003	249	23	1	318.65	-445.782	D	6.844	6.844	0	1.743	0	0	0	0	0	0
2003	250	23	1	318.65	-445.782	D	6.929	6.929	0	1.915	0	0	0	0	0	0
2003	251	23	1	318.65	-445.782	D	7.063	7.063	0	2.187	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.368	7.368	0	2.821	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	8.253	8.253	0	4.773	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	255	23	1	318.65	-445.782	D	9.962	9.962	0	9.071	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	9.428	9.428	0	7.649	0	0	0	0	0	0
2003	257	23	1242	327.988	-426.138	D	8.751	8.75	0.001	5.947	92.36	2.09	0	0	0	5.44
2003	258	23	375	322.611	-445.359	D	6.718	6.717	0.001	1.49	95.11	0.45	0	0	0	4.33
2003	259	23	2571	322.646	-445.476	D	6.643	6.641	0.002	1.341	96.81	0.15	0	0	0	3.07
2003	260	23	1552	330.178	-425.042	D	6.749	6.749	0	1.554	97.84	0.07	0	0	0	2.17
2003	261	23	1	318.65	-445.782	D	6.732	6.732	0	1.52	0	0	0	0	0	0
2003	262	23	2758	335.862	-424.454	D	7.894	7.893	0.002	3.957	95.55	3.61	0	0	0	0.79
2003	263	23	1048	326.791	-427.189	D	6.584	6.584	0	1.229	90.09	0.56	0	0	0	5.99
2003	264	23	37	319.567	-443.993	D	7.041	7.04	0.001	2.14	99.09	0.05	0	0	0	0.52
2003	265	23	2784	339.87	-426.019	D	9.108	9.106	0.002	6.827	99.25	0.44	0	0	0	0.13
2003	266	23	2763	336.292	-425.028	D	6.898	6.898	0	1.852	92.4	0.67	0	0	0	7.23
2003	267	23	1	318.65	-445.782	D	6.83	6.83	0	1.715	0	0	0	0	0	0
2003	268	23	2684	326.713	-427.014	D	6.847	6.846	0.001	1.748	97.15	0.46	0	0	0	2.29
2003	269	23	2694	327.861	-425.964	D	7.05	7.05	0	2.16	98.29	0.25	0	0	0	1.54
2003	270	23	1446	329.466	-425.823	D	7.478	7.477	0.001	3.052	94.77	3.26	0	0	0	1.8
2003	271	23	1448	329.444	-425.324	D	6.674	6.674	0	1.406	83.1	1.57	0	0	0	13.63
2003	272	23	1041	326.867	-428.934	D	6.532	6.532	0	1.128	83.89	4.74	0	0	0	10.77
2003	273	23	2411	339.428	-426.135	D	6.562	6.562	0	1.187	91.39	3.36	0	0	0	3.91
2003	274	23	2789	340.496	-426.449	D	8.406	8.405	0.001	5.126	95.83	2.67	0	0	0	1.06
2003	275	23	1446	329.466	-425.823	D	6.575	6.574	0.001	1.209	95.33	0.71	0	0	0	3.77
2003	276	23	2684	326.713	-427.014	D	7.118	7.117	0.001	2.297	97.36	0.71	0	0	0	1.7
2003	277	23	2709	330.21	-424.978	D	6.856	6.855	0	1.766	91.41	0.92	0	0	0	7.52
2003	278	23	1	318.65	-445.782	D	7.274	7.273	0	2.622	96.73	0.8	0	0	0	2.2
2003	279	23	417	322.794	-443.852	D	9.313	9.312	0.001	7.348	98.56	0.77	0	0	0	0.45
2003	280	23	2597	318.971	-443.851	D	7.853	7.852	0.001	3.868	99.21	0.19	0	0	0	0.61
2003	281	23	2588	318.452	-445.8	D	7.596	7.596	0	3.306	98.82	0.13	0	0	0	0.61
2003	282	23	1412	329.218	-425.834	D	8.913	8.913	0	6.345	94.92	0.15	0	0	0	0.59
2003	283	23	1	318.65	-445.782	D	9.734	9.734	0	8.453	0	0	0	0	0	0
2003	284	23	1	318.65	-445.782	D	9.551	9.551	0	7.97	0	0	0	0	0	0
2003	285	23	2784	339.87	-426.019	D	7.892	7.891	0.001	3.954	96.12	2.55	0	0	0	1.32
2003	286	23	1	318.65	-445.782	D	6.944	6.944	0.001	1.944	98.21	0.13	0	0	0	1.52
2003	287	23	2588	318.452	-445.8	D	8.855	8.853	0.002	6.2	96.98	2.26	0	0	0	0.7
2003	288	23	2789	340.496	-426.449	D	6.714	6.713	0.001	1.483	91.65	1.26	0	0	0	7.07
2003	289	23	2788	340.294	-426.448	D	6.603	6.603	0	1.267	96.06	0.21	0	0	0	3.36
2003	290	23	2444	336.237	-430.247	D	8.079	8.079	0	4.375	97.48	1.78	0	0	0	0.47
2003	291	23	2362	338.048	-428.694	D	6.617	6.617	0	1.294	88.29	0.37	0	0	0	1.52
2003	292	23	1	318.65	-445.782	D	6.595	6.595	0	1.251	0	0	0	0	0	0
2003	293	23	1	318.65	-445.782	D	6.677	6.677	0	1.412	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	294	23	2788	340.294	-426.448	D	6.722	6.722	0	1.5	89.32	0.22	0	0	0	10.05
2003	295	23	2790	340.421	-426.562	D	6.71	6.709	0.002	1.474	93.48	0.52	0	0	0	5.89
2003	296	23	1	318.65	-445.782	D	6.61	6.61	0	1.28	94.94	0.11	0	0	0	4.78
2003	297	23	2255	335.942	-426.039	D	6.712	6.711	0.001	1.478	96.67	0.15	0	0	0	2.96
2003	298	23	2277	336.146	-425.03	D	7.99	7.988	0.002	4.171	98.98	0.5	0	0	0	0.48
2003	299	23	2705	329.287	-425.069	D	7.565	7.563	0.002	3.236	89.08	7.23	0	0	0	3.62
2003	300	23	2406	339.19	-426.396	D	6.541	6.541	0	1.146	88.58	4.47	0	0	0	6.9
2003	301	23	1	318.65	-445.782	D	6.598	6.598	0	1.258	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	6.533	6.533	0	1.13	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.414	7.414	0	2.919	0	0	0	0	0	0
2003	304	23	1415	329.185	-425.086	D	9.127	9.127	0	6.88	98.51	1.42	0	0	0	1.19
2003	305	23	2704	329.056	-425.092	D	9.47	9.466	0.004	7.748	95.56	3.59	0	0	0	0.79
2003	306	23	1551	330.189	-425.292	D	8.854	8.854	0	6.202	91.97	1.76	0	0	0	0.71
2003	307	23	1	318.65	-445.782	D	7.877	7.877	0	3.922	0	0	0	0	0	0
2003	308	23	1415	329.185	-425.086	D	7.408	7.408	0	2.905	97.15	1.01	0	0	0	1.58
2003	309	23	2781	339.842	-425.379	D	8.106	8.075	0.031	4.367	97.63	1.82	0	0	0	0.55
2003	310	23	2571	322.646	-445.476	D	9.052	9.017	0.035	6.605	97.98	1.77	0	0	0	0.25
2003	311	23	37	319.567	-443.993	D	7.884	7.883	0.001	3.935	98.86	0.97	0	0	0	0.23
2003	312	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	6.51	6.51	0	1.085	0	0	0	0	0	0
2003	314	23	1	318.65	-445.782	D	6.616	6.616	0	1.292	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	8.07	8.07	0	4.354	0	0	0	0	0	0
2003	316	23	1	318.65	-445.782	D	9.37	9.37	0	7.497	0	0	0	0	0	0
2003	317	23	2781	339.842	-425.379	D	6.496	6.496	0	1.059	75.17	7.69	0	0	0	15.12
2003	318	23	2788	340.294	-426.448	D	6.957	6.957	0.001	1.97	86.06	7.33	0	0	0	6.33
2003	319	23	1	318.65	-445.782	D	8.304	8.304	0	4.891	0	0	0	0	0	0
2003	320	23	1	318.65	-445.782	D	9.626	9.626	0	8.168	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	10.088	10.088	0	9.417	0	0	0	0	0	0
2003	322	23	1	318.65	-445.782	D	9.908	9.908	0	8.922	0	0	0	0	0	0
2003	323	23	2694	327.861	-425.964	D	7.445	7.445	0	2.983	67.58	13.56	0	0	0	18.45
2003	324	23	1	318.65	-445.782	D	6.656	6.656	0	1.371	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	9.817	9.817	0	8.677	0	0	0	0	0	0
2003	327	23	2704	329.056	-425.092	D	9.011	9.009	0.001	6.585	92.52	6.83	0	0	0	0.5
2003	328	23	1	318.65	-445.782	D	7.264	7.264	0	2.603	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	6.515	6.515	0	1.095	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.434	7.434	0	2.961	0	0	0	0	0	0
2003	331	23	2589	318.383	-445.593	D	9.186	9.185	0.001	7.026	93.82	4.51	0	0	0	1.61
2003	332	23	2784	339.87	-426.019	D	6.84	6.839	0	1.734	69.45	16.29	0	0	0	14.18

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	333	23	1	318.65	-445.782	D	6.494	6.494	0	1.054	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2003	335	23	2684	326.713	-427.014	D	6.661	6.66	0	1.379	86.41	6.24	0	0	0	7.16
2003	336	23	1	318.65	-445.782	D	6.513	6.513	0	1.092	0	0	0	0	0	0
2003	337	23	1	318.65	-445.782	D	7.872	7.872	0	3.912	0	0	0	0	0	0
2003	338	23	1	318.65	-445.782	D	8.993	8.993	0	6.544	0	0	0	0	0	0
2003	339	23	2604	319.223	-442.217	D	8.537	8.531	0.007	5.422	94.65	4.89	0	0	0	0.44
2003	340	23	2684	326.713	-427.014	D	7.79	7.789	0.001	3.729	91.82	5.57	0	0	0	2.46
2003	341	23	1	318.65	-445.782	D	6.652	6.652	0	1.362	0	0	0	0	0	0
2003	342	23	1	318.65	-445.782	D	8.111	8.111	0	4.449	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	10.155	10.155	0	9.603	0	0	0	0	0	0
2003	344	23	2588	318.452	-445.8	D	8.857	8.853	0.005	6.198	92.33	6.76	0	0	0	0.92
2003	345	23	2781	339.842	-425.379	D	7.536	7.534	0.002	3.175	80.74	10.91	0	0	0	8.31
2003	346	23	2275	336.168	-425.529	D	6.845	6.844	0.001	1.742	89.61	6.69	0	0	0	3.62
2003	347	23	863	325.509	-431.992	D	9.591	9.591	0	8.076	72.17	3.47	0	0	0	1.54
2003	348	23	1	318.65	-445.782	D	9.425	9.425	0	7.641	0	0	0	0	0	0
2003	349	23	1	318.65	-445.782	D	9.203	9.203	0	7.071	0	0	0	0	0	0
2003	350	23	1	318.65	-445.782	D	8.775	8.775	0	6.01	0	0	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.444	7.444	0	2.982	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	6.918	6.918	0	1.892	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.467	7.467	0	3.031	0	0	0	0	0	0
2003	354	23	2789	340.496	-426.449	D	6.619	6.619	0	1.298	90.44	3.34	0	0	0	5.75
2003	355	23	2417	339.654	-425.626	D	6.61	6.61	0	1.279	90.39	3.23	0	0	0	3.71
2003	356	23	1	318.65	-445.782	D	9.46	9.46	0	7.73	0	0	0	0	0	0
2003	357	23	2706	329.518	-425.046	D	9.465	9.464	0.001	7.742	91.36	6.16	0	0	0	2.32
2003	358	23	2781	339.842	-425.379	D	8.555	8.546	0.009	5.459	94.91	4.45	0	0	0	0.63
2003	359	23	37	319.567	-443.993	D	6.576	6.575	0.001	1.212	93.92	2.71	0	0	0	3.2
2003	360	23	2307	336.654	-425.258	D	6.846	6.845	0.001	1.745	96.26	2.3	0	0	0	1.17
2003	361	23	1	318.65	-445.782	D	6.753	6.753	0	1.562	0	0	0	0	0	0
2003	362	23	1	318.65	-445.782	D	8.719	8.719	0	5.874	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.299	7.299	0	2.675	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	6.566	6.566	0	1.194	0	0	0	0	0	0
									0.035							
TRIGEN KC											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	6.999	6.999	0	2.056	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	2	23	2597	318.971	-443.851	D	9.325	9.32	0.005	7.37	94.72	5.1	0	0	0	0.2
2003	3	23	2789	340.496	-426.449	D	7.922	7.908	0.014	3.991	92.11	7.64	0	0	0	0.24
2003	4	23	1	318.65	-445.782	D	6.784	6.784	0	1.624	0	0	0	0	0	0
2003	5	23	2789	340.496	-426.449	D	7.327	7.327	0	2.733	78.49	19.79	0	0	0	1.31
2003	6	23	2789	340.496	-426.449	D	8.243	8.238	0.005	4.738	86.79	12.98	0	0	0	0.22
2003	7	23	2624	320.719	-437.835	D	7.424	7.422	0.003	2.934	95.3	4.51	0	0	0	0.17
2003	8	23	2429	338.563	-428.651	D	6.719	6.719	0	1.494	93.8	2.1	0	0	0	0.33
2003	9	23	2781	339.842	-425.379	D	6.968	6.967	0.001	1.992	93.75	5.37	0	0	0	0.79
2003	10	23	16	319.027	-443.017	D	6.595	6.594	0.002	1.248	80.85	15.78	0	0	0	3.36
2003	11	23	2789	340.496	-426.449	D	6.553	6.552	0.001	1.168	81.56	15.76	0	0	0	2.66
2003	12	23	2588	318.452	-445.8	D	6.5	6.5	0	1.066	92.14	6.25	0	0	0	0.71
2003	13	23	2229	335.693	-426.049	D	6.723	6.722	0.001	1.5	94.08	5.35	0	0	0	0.39
2003	14	23	2708	329.979	-425	D	9.232	9.204	0.028	7.075	93.86	5.9	0	0	0	0.23
2003	15	23	2588	318.452	-445.8	D	6.628	6.625	0.003	1.309	96.18	3.48	0	0	0	0.35
2003	16	23	2588	318.452	-445.8	D	8.194	8.187	0.007	4.622	95.63	4.32	0	0	0	0.03
2003	17	23	2597	318.971	-443.851	D	8.103	8.099	0.004	4.422	95.44	4.35	0	0	0	0.2
2003	18	23	2781	339.842	-425.379	D	6.6	6.6	0	1.261	92.04	6.9	0	0	0	0.85
2003	19	23	1	318.65	-445.782	D	6.651	6.651	0	1.361	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	6.624	6.624	0	1.308	0	0	0	0	0	0
2003	21	23	2789	340.496	-426.449	D	7.538	7.533	0.005	3.171	95	4.96	0	0	0	0.07
2003	22	23	13	319.06	-443.766	D	7.565	7.565	0	3.24	97.84	2.57	0	0	0	0.04
2003	23	23	2589	318.383	-445.593	D	6.876	6.876	0.001	1.806	86.2	12.44	0	0	0	1.35
2003	24	23	2624	320.719	-437.835	D	6.625	6.624	0.001	1.308	91.62	7.52	0	0	0	0.56
2003	25	23	2781	339.842	-425.379	D	6.501	6.5	0.001	1.065	92.66	6.84	0	0	0	0.4
2003	26	23	2694	327.861	-425.964	D	7.264	7.257	0.006	2.589	78.83	20.63	0	0	0	0.53
2003	27	23	2563	323.259	-443.79	D	6.803	6.801	0.003	1.657	92.17	7.44	0	0	0	0.35
2003	28	23	2789	340.496	-426.449	D	8.039	8.039	0	4.285	94.42	4.93	0	0	0	0.23
2003	29	23	2628	320.933	-436.998	D	9.8	9.793	0.007	8.612	94.67	5.25	0	0	0	0.04
2003	30	23	1	318.65	-445.782	D	9.114	9.114	0	6.846	0	0	0	0	0	0
2003	31	23	1	318.65	-445.782	D	7.121	7.121	0	2.306	0	0	0	0	0	0
2003	32	23	1	318.65	-445.782	D	6.936	6.936	0	1.929	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	6.87	6.87	0	1.795	0	0	0	0	0	0
2003	34	23	2709	330.21	-424.978	D	9.479	9.478	0.001	7.778	95.63	3.93	0	0	0	0.04
2003	35	23	1	318.65	-445.782	D	7.1	7.1	0	2.263	0	0	0	0	0	0
2003	36	23	2789	340.496	-426.449	D	6.567	6.563	0.004	1.189	94.84	4.45	0	0	0	0.69
2003	37	23	2694	327.861	-425.964	D	9.213	9.199	0.014	7.061	96.73	3.2	0	0	0	0.05
2003	38	23	2704	329.056	-425.092	D	8.047	8.006	0.041	4.21	96.84	3.11	0	0	0	0.04
2003	39	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2003	40	23	2410	339.439	-426.385	D	7.735	7.735	0	3.609	87	3.28	0	0	0	0.04

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	41	23	2781	339.842	-425.379	D	9.355	9.355	0.001	7.458	93.31	6.44	0	0	0	0.06
2003	42	23	1415	329.185	-425.086	D	6.773	6.773	0	1.601	90.21	2.82	0	0	0	1.03
2003	43	23	2418	339.946	-426.612	D	6.522	6.521	0.001	1.107	87.8	10.38	0	0	0	1.75
2003	44	23	1415	329.185	-425.086	D	6.627	6.626	0.001	1.312	96.29	3.38	0	0	0	0.51
2003	45	23	2757	335.63	-424.484	D	10.218	10.218	0	9.779	97.19	2.36	0	0	0	0.03
2003	46	23	1	318.65	-445.782	D	10.176	10.176	0	9.662	0	0	0	0	0	0
2003	47	23	1	318.65	-445.782	D	8.453	8.453	0	5.24	0	0	0	0	0	0
2003	48	23	1	318.65	-445.782	D	7.865	7.865	0	3.896	0	0	0	0	0	0
2003	49	23	2709	330.21	-424.978	D	6.947	6.945	0.002	1.947	96.91	2.78	0	0	0	0.23
2003	50	23	2694	327.861	-425.964	D	9.215	9.213	0.002	7.097	97.37	2.5	0	0	0	0.05
2003	51	23	2704	329.056	-425.092	D	9.547	9.524	0.022	7.899	97.41	2.56	0	0	0	0.03
2003	52	23	2684	326.713	-427.014	D	9.72	9.716	0.004	8.405	99.04	0.95	0	0	0	0.03
2003	53	23	2600	318.952	-443.12	D	9.497	9.493	0.004	7.818	97.53	2.34	0	0	0	0.06
2003	54	23	2597	318.971	-443.851	D	8.861	8.853	0.007	6.2	92.13	7.67	0	0	0	0.16
2003	55	23	2597	318.971	-443.851	D	8.458	8.438	0.02	5.204	90.96	8.7	0	0	0	0.33
2003	56	23	2600	318.952	-443.12	D	7.502	7.485	0.017	3.069	95.98	3.92	0	0	0	0.09
2003	57	23	2628	320.933	-436.998	D	8.658	8.658	0	5.725	97.42	2.31	0	0	0	0.05
2003	58	23	2599	318.958	-443.364	D	8.758	8.758	0.001	5.967	97.67	1.65	0	0	0	0.03
2003	59	23	13	319.06	-443.766	D	8.963	8.962	0.001	6.467	98.65	1.24	0	0	0	0.02
2003	60	23	2704	329.056	-425.092	D	9.656	9.651	0.005	8.233	98.5	1.45	0	0	0	0.03
2003	61	23	2781	339.842	-425.379	D	9.193	9.119	0.074	6.86	98.22	1.73	0	0	0	0.05
2003	62	23	2709	330.21	-424.978	D	7.365	7.338	0.028	2.757	96.37	3.49	0	0	0	0.14
2003	63	23	2789	340.496	-426.449	D	7.002	6.99	0.012	2.037	98.66	1.24	0	0	0	0.09
2003	64	23	2588	318.452	-445.8	D	9.142	9.117	0.025	6.855	97.34	2.6	0	0	0	0.07
2003	65	23	2563	323.259	-443.79	D	7.638	7.623	0.015	3.366	97.31	2.62	0	0	0	0.07
2003	66	23	2781	339.842	-425.379	D	6.954	6.949	0.004	1.956	97.98	1.85	0	0	0	0.13
2003	67	23	2781	339.842	-425.379	D	7.068	7.068	0	2.196	99.19	0.63	0	0	0	0.14
2003	68	23	241	321.553	-443.906	D	7.109	7.094	0.015	2.249	96.46	3.43	0	0	0	0.11
2003	69	23	2588	318.452	-445.8	D	6.545	6.544	0.001	1.152	98.83	0.81	0	0	0	0.18
2003	70	23	2588	318.452	-445.8	D	6.563	6.56	0.003	1.183	98.98	0.83	0	0	0	0.16
2003	71	23	2255	335.942	-426.039	D	7.134	7.133	0.001	2.331	98.96	0.68	0	0	0	0.09
2003	72	23	2709	330.21	-424.978	D	8.621	8.594	0.026	5.574	99.08	0.82	0	0	0	0.1
2003	73	23	2597	318.971	-443.851	D	8.733	8.677	0.056	5.772	98.76	1.2	0	0	0	0.04
2003	74	23	2684	326.713	-427.014	D	8.149	8.138	0.011	4.509	99.21	0.75	0	0	0	0.04
2003	75	23	1415	329.185	-425.086	D	7.29	7.289	0	2.656	99.23	0.27	0	0	0	0.08
2003	76	23	1	318.65	-445.782	D	8.644	8.644	0	5.692	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	8.653	8.653	0	5.713	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	8.871	8.871	0	6.244	0	0	0	0	0	0
2003	79	23	2597	318.971	-443.851	D	9.332	9.203	0.129	7.071	96.64	3.31	0	0	0	0.05

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	80	23	2468	334.002	-434.887	D	8.941	8.868	0.073	6.235	96.68	3.24	0	0	0	0.09
2003	81	23	2789	340.496	-426.449	D	6.536	6.534	0.002	1.132	97.91	1.35	0	0	0	0.72
2003	82	23	2789	340.496	-426.449	D	6.574	6.574	0	1.21	97.63	0.28	0	0	0	0.32
2003	83	23	1	318.65	-445.782	D	6.82	6.82	0	1.696	0	0	0	0	0	0
2003	84	23	2694	327.861	-425.964	D	7.694	7.692	0.002	3.515	98.61	1.3	0	0	0	0.1
2003	85	23	2552	324.659	-442.591	D	8.822	8.818	0.005	6.112	97.99	1.96	0	0	0	0.03
2003	86	23	2290	336.427	-425.767	D	6.607	6.607	0	1.274	77.56	0.28	0	0	0	0.11
2003	87	23	1	318.65	-445.782	D	8.676	8.676	0	5.769	0	0	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.301	7.301	0	2.679	0	0	0	0	0	0
2003	89	23	2781	339.842	-425.379	D	6.533	6.531	0.002	1.126	86.45	11.68	0	0	0	1.85
2003	90	23	1	318.65	-445.782	D	6.478	6.478	0	1.023	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	6.547	6.547	0	1.157	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	6.893	6.893	0	1.842	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.231	7.231	0	2.533	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	8.075	8.075	0	4.366	0	0	0	0	0	0
2003	95	23	2781	339.842	-425.379	D	6.789	6.787	0.002	1.63	88.52	10.29	0	0	0	1.19
2003	96	23	2781	339.842	-425.379	D	8.058	8.057	0.001	4.325	98.71	1.28	0	0	0	0.02
2003	97	23	2270	336.223	-426.776	D	9.101	9.101	0	6.813	67.58	0.66	0	0	0	0
2003	98	23	2781	339.842	-425.379	D	7.441	7.433	0.007	2.959	91.07	8.51	0	0	0	0.41
2003	99	23	2597	318.971	-443.851	D	7.015	7.01	0.005	2.079	94.15	5.42	0	0	0	0.43
2003	100	23	1	318.65	-445.782	D	6.581	6.581	0	1.223	0	0	0	0	0	0
2003	101	23	1	318.65	-445.782	D	6.481	6.48	0	1.028	99.4	0.29	0	0	0	0.29
2003	102	23	1282	328.236	-426.127	D	6.496	6.495	0.001	1.056	99.39	0.1	0	0	0	0.22
2003	103	23	2789	340.496	-426.449	D	6.526	6.525	0.001	1.115	99.76	0.05	0	0	0	0.19
2003	104	23	2788	340.294	-426.448	D	6.65	6.65	0	1.359	99.63	0.06	0	0	0	0.15
2003	105	23	44	319.491	-442.248	D	6.636	6.636	0	1.33	7.54	0	0	0	0	0.01
2003	106	23	1	318.65	-445.782	D	6.669	6.669	0	1.396	0	0	0	0	0	0
2003	107	23	2624	320.719	-437.835	D	7.655	7.651	0.004	3.426	98.07	1.88	0	0	0	0.05
2003	108	23	2789	340.496	-426.449	D	7.823	7.822	0	3.802	98.67	0.1	0	0	0	0.19
2003	109	23	2784	339.87	-426.019	D	7.559	7.559	0	3.227	98.92	0.06	0	0	0	0.09
2003	110	23	1	318.65	-445.782	D	9.045	9.045	0	6.674	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.014	7.014	0	2.087	0	0	0	0	0	0
2003	112	23	2655	324.376	-433.059	D	6.541	6.539	0.002	1.141	96.69	2.14	0	0	0	1.09
2003	113	23	2597	318.971	-443.851	D	6.596	6.593	0.003	1.247	99.27	0.44	0	0	0	0.28
2003	114	23	1	318.65	-445.782	D	8.02	8.02	0	4.243	0	0	0	0	0	0
2003	115	23	2781	339.842	-425.379	D	8.46	8.448	0.012	5.226	98.79	1.02	0	0	0	0.18
2003	116	23	2597	318.971	-443.851	D	8.378	8.369	0.009	5.042	98.86	1.03	0	0	0	0.11
2003	117	23	2589	318.383	-445.593	D	7.054	7.053	0.001	2.166	99.43	0.34	0	0	0	0.1
2003	118	23	1242	327.988	-426.138	D	7.438	7.437	0	2.968	99.22	0.02	0	0	0	0.11

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	119	23	2784	339.87	-426.019	D	7.463	7.463	0	3.023	95.57	0.29	0	0	0	0.05
2003	120	23	2271	336.212	-426.526	D	8.176	8.176	0	4.597	82.32	0.08	0	0	0	0.03
2003	121	23	1	318.65	-445.782	D	7.624	7.624	0	3.367	0	0	0	0	0	0
2003	122	23	2704	329.056	-425.092	D	8.891	8.842	0.048	6.173	98.77	1.14	0	0	0	0.09
2003	123	23	2563	323.259	-443.79	D	8.606	8.505	0.101	5.362	99.54	0.42	0	0	0	0.04
2003	124	23	606	323.785	-438.063	D	7.369	7.359	0.009	2.803	99.88	0.07	0	0	0	0.05
2003	125	23	1	318.65	-445.782	D	8.789	8.789	0	6.042	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	8.385	8.385	0	5.081	0	0	0	0	0	0
2003	127	23	2704	329.056	-425.092	D	8.627	8.618	0.01	5.629	99.18	0.59	0	0	0	0.21
2003	128	23	2758	335.862	-424.454	D	8.014	8.011	0.003	4.221	99.7	0.08	0	0	0	0.19
2003	129	23	1	318.65	-445.782	D	7.642	7.642	0	3.407	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	8.486	8.486	0	5.317	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.409	7.409	0	2.907	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	6.899	6.899	0	1.854	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	9.399	9.399	0	7.572	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	8.763	8.763	0	5.98	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	9.31	9.31	0	7.344	0	0	0	0	0	0
2003	137	23	2757	335.63	-424.484	D	9.372	9.369	0.003	7.497	99.81	0.07	0	0	0	0.05
2003	138	23	2628	320.933	-436.998	D	9.123	9.093	0.03	6.795	99.49	0.5	0	0	0	0.02
2003	139	23	2628	320.933	-436.998	D	8.788	8.783	0.005	6.027	99.68	0.29	0	0	0	0.02
2003	140	23	2684	326.713	-427.014	D	8.293	8.269	0.024	4.81	98.87	1.12	0	0	0	0.03
2003	141	23	1	318.65	-445.782	D	6.718	6.718	0	1.492	99.99	0.19	0	0	0	0.07
2003	142	23	1	318.65	-445.782	D	7.283	7.283	0	2.641	0	0	0	0	0	0
2003	143	23	1	318.65	-445.782	D	6.712	6.712	0	1.48	0	0	0	0	0	0
2003	144	23	2705	329.287	-425.069	D	7.841	7.84	0.001	3.841	99.51	0.43	0	0	0	0.06
2003	145	23	2600	318.952	-443.12	D	9.234	9.192	0.041	7.044	99.2	0.74	0	0	0	0.05
2003	146	23	2597	318.971	-443.851	D	8.115	8.096	0.019	4.414	99.84	0.13	0	0	0	0.04
2003	147	23	1	318.65	-445.782	D	6.647	6.647	0	1.353	99.86	0.03	0	0	0	0.1
2003	148	23	2781	339.842	-425.379	D	6.608	6.607	0	1.275	99.28	0.26	0	0	0	0.34
2003	149	23	2715	330.782	-425.876	D	7.291	7.287	0.005	2.649	96.16	3.32	0	0	0	0.49
2003	150	23	2496	329.078	-433.534	D	6.619	6.616	0.003	1.291	99.51	0.09	0	0	0	0.39
2003	151	23	2628	320.933	-436.998	D	7.216	7.215	0.002	2.5	90.89	8.5	0	0	0	0.55
2003	152	23	1	318.65	-445.782	D	7.102	7.102	0	2.267	97.32	0.09	0	0	0	0.19
2003	153	23	2628	320.933	-436.998	D	8.713	8.712	0	5.857	99.87	0.1	0	0	0	0.02
2003	154	23	2597	318.971	-443.851	D	9.132	9.092	0.04	6.79	96.02	3.9	0	0	0	0.07
2003	155	23	2597	318.971	-443.851	D	7.516	7.51	0.006	3.122	99.46	0.39	0	0	0	0.14
2003	156	23	2588	318.452	-445.8	D	6.822	6.821	0.001	1.697	99.59	0.16	0	0	0	0.13
2003	157	23	234	321.01	-437.185	D	8.803	8.801	0.001	6.072	99.53	0.27	0	0	0	0.04

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	158	23	13	319.06	-443.766	D	7.517	7.514	0.002	3.132	99.7	0.14	0	0	0	0.05
2003	159	23	2236	336.149	-430.776	D	7.15	7.15	0	2.365	99.42	0.03	0	0	0	0.06
2003	160	23	199	320.795	-437.944	D	6.618	6.618	0	1.297	87.53	0	0	0	0	0.1
2003	161	23	1	318.65	-445.782	D	7.499	7.499	0	3.098	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	8.817	8.817	0	6.112	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	8.874	8.874	0	6.251	0	0	0	0	0	0
2003	164	23	2627	320.879	-437.207	D	9.214	9.212	0.002	7.095	99.77	0.03	0	0	0	0.1
2003	165	23	2600	318.952	-443.12	D	8.27	8.267	0.003	4.806	99.75	0.19	0	0	0	0.05
2003	166	23	1	318.65	-445.782	D	8.28	8.279	0.001	4.833	99.63	0.24	0	0	0	0.02
2003	167	23	2787	340.091	-426.447	D	8.117	8.117	0.001	4.462	99.65	0.1	0	0	0	0.02
2003	168	23	1	318.65	-445.782	D	7.645	7.645	0	3.413	99.58	0.17	0	0	0	0.03
2003	169	23	1	318.65	-445.782	D	8.946	8.946	0	6.427	0	0	0	0	0	0
2003	170	23	2704	329.056	-425.092	D	8.517	8.516	0.001	5.387	99.68	0.03	0	0	0	0.24
2003	171	23	2709	330.21	-424.978	D	8.417	8.408	0.009	5.133	99.77	0.15	0	0	0	0.07
2003	172	23	1	318.65	-445.782	D	6.969	6.969	0	1.995	0	0	0	0	0	0
2003	173	23	1	318.65	-445.782	D	6.92	6.92	0	1.897	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.108	7.108	0	2.279	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.784	7.784	0	3.718	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	8.399	8.399	0	5.113	0	0	0	0	0	0
2003	177	23	656	323.869	-434.312	D	8.753	8.729	0.024	5.898	96.82	3.08	0	0	0	0.09
2003	178	23	2684	326.713	-427.014	D	6.845	6.84	0.005	1.735	99.18	0.34	0	0	0	0.5
2003	179	23	2694	327.861	-425.964	D	6.651	6.647	0.004	1.353	99.66	0.07	0	0	0	0.27
2003	180	23	2707	329.748	-425.023	D	6.719	6.719	0	1.494	97.69	0.01	0	0	0	0.22
2003	181	23	1	318.65	-445.782	D	7.039	7.039	0	2.138	0	0	0	0	0	0
2003	182	23	1	318.65	-445.782	D	8.857	8.857	0	6.21	0	0	0	0	0	0
2003	183	23	2758	335.862	-424.454	D	7.463	7.463	0	3.021	93.07	0.01	0	0	0	0.11
2003	184	23	2405	338.909	-425.659	D	7.374	7.374	0	2.832	86.99	0.02	0	0	0	0.04
2003	185	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	8.318	8.318	0	4.923	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.086	7.086	0	2.234	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.739	7.739	0	3.619	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	8.593	8.593	0	5.571	0	0	0	0	0	0
2003	192	23	2589	318.383	-445.593	D	7.287	7.285	0.002	2.647	99.27	0.44	0	0	0	0.34
2003	193	23	2758	335.862	-424.454	D	7.863	7.857	0.006	3.878	99.54	0.37	0	0	0	0.07
2003	194	23	1449	329.434	-425.075	D	7.266	7.266	0	2.606	99.47	0.07	0	0	0	0.11
2003	195	23	2781	339.842	-425.379	D	8.451	8.448	0.003	5.227	99.68	0.24	0	0	0	0.03
2003	196	23	2789	340.496	-426.449	D	8.239	8.239	0	4.742	99.58	0.01	0	0	0	0.04

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	197	23	2781	339.842	-425.379	D	7.028	7.027	0.001	2.114	99.85	0.04	0	0	0	0.13
2003	198	23	2789	340.496	-426.449	D	7.155	7.155	0.001	2.375	100.23	0.01	0	0	0	0.09
2003	199	23	2790	340.421	-426.562	D	7.116	7.116	0	2.295	99.52	0	0	0	0	0.08
2003	200	23	2781	339.842	-425.379	D	7.716	7.715	0	3.567	99.7	0.01	0	0	0	0.06
2003	201	23	2417	339.654	-425.626	D	8.558	8.558	0	5.488	99.44	0.02	0	0	0	0.03
2003	202	23	2235	335.628	-424.554	D	8.102	8.102	0	4.428	99.71	0.12	0	0	0	0.03
2003	203	23	2597	318.971	-443.851	D	7.687	7.681	0.006	3.492	99.68	0.25	0	0	0	0.09
2003	204	23	2589	318.383	-445.593	D	7.015	7.015	0	2.088	99.74	0.07	0	0	0	0.25
2003	205	23	1	318.65	-445.782	D	6.955	6.955	0	1.968	0	0	0	0	0	0
2003	206	23	1	318.65	-445.782	D	7.058	7.058	0	2.176	0	0	0	0	0	0
2003	207	23	1	318.65	-445.782	D	6.798	6.798	0	1.652	0	0	0	0	0	0
2003	208	23	1	318.65	-445.782	D	7.085	7.085	0	2.232	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.085	7.085	0	2.233	0	0	0	0	0	0
2003	210	23	2781	339.842	-425.379	D	8.419	8.415	0.004	5.151	99.83	0.07	0	0	0	0.03
2003	211	23	2781	339.842	-425.379	D	9.362	9.347	0.014	7.44	99.8	0.16	0	0	0	0.02
2003	212	23	2762	336.074	-425.006	D	7.614	7.605	0.009	3.327	99.88	0.05	0	0	0	0.08
2003	213	23	2781	339.842	-425.379	D	6.907	6.901	0.006	1.857	99.85	0.06	0	0	0	0.09
2003	214	23	2210	335.901	-430.787	D	7.673	7.672	0.001	3.471	99.75	0.01	0	0	0	0.04
2003	215	23	2758	335.862	-424.454	D	7.835	7.834	0.001	3.828	99.84	0.01	0	0	0	0.18
2003	216	23	2789	340.496	-426.449	D	7.732	7.718	0.014	3.573	99.64	0.3	0	0	0	0.06
2003	217	23	2758	335.862	-424.454	D	8.391	8.39	0.001	5.093	99.67	0.11	0	0	0	0.05
2003	218	23	2589	318.383	-445.593	D	8.462	8.453	0.009	5.24	99.8	0.06	0	0	0	0.11
2003	219	23	2597	318.971	-443.851	D	8.484	8.443	0.042	5.214	99.86	0.11	0	0	0	0.03
2003	220	23	2588	318.452	-445.8	D	7.096	7.094	0.002	2.25	99.94	0	0	0	0	0.07
2003	221	23	1	318.65	-445.782	D	6.977	6.977	0	2.01	99.01	0	0	0	0	0.08
2003	222	23	199	320.795	-437.944	D	7.166	7.166	0	2.398	91.62	0.01	0	0	0	0.21
2003	223	23	1	318.65	-445.782	D	7.272	7.272	0	2.62	96.15	0.14	0	0	0	0.07
2003	224	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2003	225	23	1	318.65	-445.782	D	8.321	8.321	0	4.931	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	8.753	8.753	0	5.955	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.337	7.337	0	2.755	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.347	7.347	0	2.776	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	6.982	6.982	0	2.021	0	0	0	0	0	0
2003	230	23	2788	340.294	-426.448	D	6.902	6.901	0	1.859	99.84	0.02	0	0	0	0.21
2003	231	23	2789	340.496	-426.449	D	6.827	6.826	0.002	1.706	99.8	0.03	0	0	0	0.14
2003	232	23	2789	340.496	-426.449	D	6.863	6.86	0.004	1.775	99.81	0.05	0	0	0	0.1
2003	233	23	2789	340.496	-426.449	D	6.924	6.921	0.003	1.898	99.8	0.09	0	0	0	0.09
2003	234	23	2789	340.496	-426.449	D	7.117	7.113	0.004	2.289	99.86	0.03	0	0	0	0.1
2003	235	23	2789	340.496	-426.449	D	7.034	7.028	0.007	2.114	99.86	0.03	0	0	0	0.13

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	236	23	2588	318.452	-445.8	D	8.524	8.515	0.009	5.385	99.9	0.05	0	0	0	0.04
2003	237	23	2653	324.014	-433.36	D	7.891	7.884	0.007	3.939	99.9	0.04	0	0	0	0.05
2003	238	23	2784	339.87	-426.019	D	7.376	7.375	0.002	2.835	99.86	0.01	0	0	0	0.06
2003	239	23	2412	339.417	-425.886	D	7.03	7.03	0	2.119	99.72	0.02	0	0	0	0.06
2003	240	23	1484	330.29	-433.281	D	7.112	7.112	0	2.288	93.87	0.04	0	0	0	0.05
2003	241	23	1	318.65	-445.782	D	8.394	8.394	0	5.101	0	0	0	0	0	0
2003	242	23	2176	335.197	-426.071	D	9.175	9.175	0	7.001	104	0.09	0	0	0	0.02
2003	243	23	2764	336.51	-425.05	D	9.331	9.331	0	7.397	93.33	0.24	0	0	0	0.02
2003	244	23	1	318.65	-445.782	D	9.456	9.456	0	7.721	0	0	0	0	0	0
2003	245	23	1	318.65	-445.782	D	9.776	9.776	0	8.566	0	0	0	0	0	0
2003	246	23	1	318.65	-445.782	D	9.235	9.235	0	7.152	0	0	0	0	0	0
2003	247	23	2601	319.02	-442.895	D	7.697	7.678	0.019	3.485	99.28	0.66	0	0	0	0.05
2003	248	23	1	318.65	-445.782	D	6.736	6.736	0	1.529	0	0	0	0	0	0
2003	249	23	1	318.65	-445.782	D	6.844	6.844	0	1.743	0	0	0	0	0	0
2003	250	23	1	318.65	-445.782	D	6.929	6.929	0	1.915	0	0	0	0	0	0
2003	251	23	1	318.65	-445.782	D	7.063	7.063	0	2.187	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.368	7.368	0	2.821	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	8.253	8.253	0	4.773	0	0	0	0	0	0
2003	255	23	1	318.65	-445.782	D	9.962	9.962	0	9.071	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	9.428	9.428	0	7.649	0	0	0	0	0	0
2003	257	23	2789	340.496	-426.449	D	8.696	8.685	0.011	5.791	93.61	6.04	0	0	0	0.36
2003	258	23	2789	340.496	-426.449	D	6.725	6.719	0.006	1.494	99.22	0.35	0	0	0	0.43
2003	259	23	2694	327.861	-425.964	D	6.653	6.646	0.007	1.351	99.49	0.19	0	0	0	0.3
2003	260	23	2758	335.862	-424.454	D	6.749	6.749	0	1.554	99.27	0.05	0	0	0	0.23
2003	261	23	1	318.65	-445.782	D	6.732	6.732	0	1.52	0	0	0	0	0	0
2003	262	23	2781	339.842	-425.379	D	7.876	7.868	0.008	3.903	95.31	4.54	0	0	0	0.14
2003	263	23	2625	320.772	-437.626	D	6.582	6.582	0	1.226	98.21	0.29	0	0	0	0.55
2003	264	23	2597	318.971	-443.851	D	7.043	7.04	0.003	2.14	99.81	0.04	0	0	0	0.05
2003	265	23	2784	339.87	-426.019	D	9.112	9.106	0.006	6.827	99.6	0.36	0	0	0	0.01
2003	266	23	2789	340.496	-426.449	D	6.897	6.897	0.001	1.849	97.16	1.74	0	0	0	1.14
2003	267	23	2789	340.496	-426.449	D	6.835	6.834	0	1.724	99.29	0.11	0	0	0	0.28
2003	268	23	168	320.568	-438.453	D	6.85	6.847	0.003	1.749	99.05	0.6	0	0	0	0.33
2003	269	23	2468	334.002	-434.887	D	7.052	7.047	0.005	2.154	99.72	0.15	0	0	0	0.12
2003	270	23	1516	329.941	-425.303	D	7.479	7.477	0.002	3.052	95.43	4.3	0	0	0	0.23
2003	271	23	2781	339.842	-425.379	D	6.682	6.682	0	1.421	96.41	1.56	0	0	0	1.72
2003	272	23	2588	318.452	-445.8	D	6.531	6.53	0	1.124	94.07	4.45	0	0	0	1.5
2003	273	23	1449	329.434	-425.075	D	6.563	6.562	0.001	1.186	98.4	1.12	0	0	0	0.31
2003	274	23	2758	335.862	-424.454	D	8.494	8.478	0.016	5.298	98.44	1.52	0	0	0	0.03

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	275	23	2597	318.971	-443.851	D	6.578	6.572	0.006	1.205	98.21	1.37	0	0	0	0.4
2003	276	23	2684	326.713	-427.014	D	7.123	7.117	0.006	2.297	99.27	0.57	0	0	0	0.11
2003	277	23	2758	335.862	-424.454	D	6.858	6.855	0.003	1.766	98.43	0.82	0	0	0	0.73
2003	278	23	2571	322.646	-445.476	D	7.277	7.273	0.004	2.622	98.93	0.83	0	0	0	0.23
2003	279	23	2597	318.971	-443.851	D	9.318	9.312	0.007	7.348	99.23	0.71	0	0	0	0.04
2003	280	23	14	319.049	-443.516	D	7.854	7.852	0.001	3.868	99.76	0.16	0	0	0	0.06
2003	281	23	2694	327.861	-425.964	D	7.61	7.609	0.001	3.336	99.71	0.18	0	0	0	0.05
2003	282	23	1412	329.218	-425.834	D	8.913	8.913	0	6.345	98.51	0.07	0	0	0	0.08
2003	283	23	1	318.65	-445.782	D	9.734	9.734	0	8.453	0	0	0	0	0	0
2003	284	23	1	318.65	-445.782	D	9.551	9.551	0	7.97	0	0	0	0	0	0
2003	285	23	2784	339.87	-426.019	D	7.894	7.891	0.003	3.954	96.08	3.69	0	0	0	0.21
2003	286	23	2588	318.452	-445.8	D	6.947	6.944	0.003	1.944	99.66	0.21	0	0	0	0.15
2003	287	23	2623	320.666	-438.044	D	8.899	8.885	0.014	6.277	96.5	3.4	0	0	0	0.1
2003	288	23	2789	340.496	-426.449	D	6.715	6.713	0.002	1.483	97.39	1.58	0	0	0	1
2003	289	23	2789	340.496	-426.449	D	6.604	6.603	0.001	1.267	99.4	0.21	0	0	0	0.37
2003	290	23	2789	340.496	-426.449	D	8.084	8.079	0.005	4.375	98.26	1.72	0	0	0	0.03
2003	291	23	1922	333.594	-434.885	D	6.621	6.621	0	1.302	99.17	0.34	0	0	0	0.16
2003	292	23	1	318.65	-445.782	D	6.595	6.595	0	1.251	0	0	0	0	0	0
2003	293	23	1	318.65	-445.782	D	6.677	6.677	0	1.412	0	0	0	0	0	0
2003	294	23	2781	339.842	-425.379	D	6.72	6.719	0.001	1.495	98.78	0.17	0	0	0	1.01
2003	295	23	2789	340.496	-426.449	D	6.729	6.709	0.02	1.474	98.97	0.43	0	0	0	0.61
2003	296	23	2588	318.452	-445.8	D	6.611	6.61	0.001	1.28	99.33	0.18	0	0	0	0.41
2003	297	23	2789	340.496	-426.449	D	6.695	6.691	0.003	1.44	99.33	0.32	0	0	0	0.38
2003	298	23	2602	319.088	-442.669	D	8.002	7.979	0.023	4.151	98.66	1.23	0	0	0	0.11
2003	299	23	2704	329.056	-425.092	D	7.572	7.563	0.008	3.236	91.06	8.4	0	0	0	0.54
2003	300	23	2789	340.496	-426.449	D	6.542	6.541	0.001	1.146	96.46	2.96	0	0	0	0.59
2003	301	23	1	318.65	-445.782	D	6.598	6.598	0	1.258	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	6.533	6.533	0	1.13	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.414	7.414	0	2.919	0	0	0	0	0	0
2003	304	23	2704	329.056	-425.092	D	9.128	9.127	0	6.88	99.13	0.73	0	0	0	0.09
2003	305	23	2694	327.861	-425.964	D	9.486	9.466	0.019	7.748	97.8	2.13	0	0	0	0.07
2003	306	23	2694	327.861	-425.964	D	8.861	8.861	0	6.218	99.44	0.62	0	0	0	0.08
2003	307	23	1	318.65	-445.782	D	7.877	7.877	0	3.922	0	0	0	0	0	0
2003	308	23	2694	327.861	-425.964	D	7.409	7.408	0.001	2.905	98.82	0.76	0	0	0	0.14
2003	309	23	2249	336.007	-427.534	D	8.155	8.074	0.081	4.364	98.29	1.65	0	0	0	0.06
2003	310	23	2571	322.646	-445.476	D	9.133	9.017	0.115	6.605	98.36	1.62	0	0	0	0.02
2003	311	23	37	319.567	-443.993	D	7.887	7.883	0.005	3.935	99.13	0.85	0	0	0	0.02
2003	312	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	6.51	6.51	0	1.085	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	314	23	1	318.65	-445.782	D	6.616	6.616	0	1.292	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	8.07	8.07	0	4.354	0	0	0	0	0	0
2003	316	23	1	318.65	-445.782	D	9.37	9.37	0	7.497	0	0	0	0	0	0
2003	317	23	2684	326.713	-427.014	D	6.495	6.492	0.002	1.052	92.17	5.97	0	0	0	1.88
2003	318	23	2589	318.383	-445.593	D	6.754	6.751	0.003	1.557	93.82	5	0	0	0	1.18
2003	319	23	1	318.65	-445.782	D	8.304	8.304	0	4.891	0	0	0	0	0	0
2003	320	23	1	318.65	-445.782	D	9.626	9.626	0	8.168	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	10.088	10.088	0	9.417	0	0	0	0	0	0
2003	322	23	2600	318.952	-443.12	D	9.917	9.909	0.008	8.925	97.71	2.25	0	0	0	0.04
2003	323	23	2781	339.842	-425.379	D	7.479	7.473	0.005	3.044	92.41	6.66	0	0	0	0.93
2003	324	23	1	318.65	-445.782	D	6.656	6.656	0	1.371	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	9.817	9.817	0	8.677	0	0	0	0	0	0
2003	327	23	1415	329.185	-425.086	D	9.014	9.009	0.004	6.585	96.76	3.14	0	0	0	0.03
2003	328	23	2236	336.149	-430.776	D	7.262	7.262	0	2.598	17.4	0.37	0	0	0	0
2003	329	23	1	318.65	-445.782	D	6.515	6.515	0	1.095	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.434	7.434	0	2.961	0	0	0	0	0	0
2003	331	23	2589	318.383	-445.593	D	9.19	9.185	0.005	7.026	95.42	4.46	0	0	0	0.1
2003	332	23	2781	339.842	-425.379	D	6.833	6.832	0.002	1.719	78.92	18.71	0	0	0	2.35
2003	333	23	1	318.65	-445.782	D	6.494	6.494	0	1.054	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2003	335	23	2695	328.074	-426.025	D	6.661	6.66	0.001	1.379	93.33	5.6	0	0	0	0.99
2003	336	23	1	318.65	-445.782	D	6.513	6.513	0	1.092	0	0	0	0	0	0
2003	337	23	1	318.65	-445.782	D	7.872	7.872	0	3.912	0	0	0	0	0	0
2003	338	23	2597	318.971	-443.851	D	9.149	9.132	0.017	6.893	96.68	3.19	0	0	0	0.13
2003	339	23	2789	340.496	-426.449	D	8.495	8.486	0.009	5.316	95.49	4.44	0	0	0	0.07
2003	340	23	2781	339.842	-425.379	D	7.816	7.813	0.004	3.78	94.27	5.28	0	0	0	0.45
2003	341	23	1	318.65	-445.782	D	6.652	6.652	0	1.362	0	0	0	0	0	0
2003	342	23	1	318.65	-445.782	D	8.111	8.111	0	4.449	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	10.155	10.155	0	9.603	0	0	0	0	0	0
2003	344	23	2588	318.452	-445.8	D	8.91	8.853	0.057	6.198	96.48	3.48	0	0	0	0.04
2003	345	23	2781	339.842	-425.379	D	7.539	7.534	0.004	3.175	84.25	14.4	0	0	0	1.33
2003	346	23	1549	330.211	-425.79	D	6.825	6.82	0.005	1.695	92.68	6.89	0	0	0	0.41
2003	347	23	863	325.509	-431.992	D	9.592	9.591	0	8.076	85.56	4.16	0	0	0	0.25
2003	348	23	1	318.65	-445.782	D	9.425	9.425	0	7.641	0	0	0	0	0	0
2003	349	23	1	318.65	-445.782	D	9.203	9.203	0	7.071	0	0	0	0	0	0
2003	350	23	1	318.65	-445.782	D	8.775	8.775	0	6.01	0	0	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.444	7.444	0	2.982	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	6.918	6.918	0	1.892	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	353	23	1	318.65	-445.782	D	7.467	7.467	0	3.031	0	0	0	0	0	0
2003	354	23	2789	340.496	-426.449	D	6.619	6.619	0	1.298	93.4	5.34	0	0	0	0.85
2003	355	23	2789	340.496	-426.449	D	6.609	6.609	0	1.278	96.73	3.13	0	0	0	0.41
2003	356	23	1	318.65	-445.782	D	9.46	9.46	0	7.73	0	0	0	0	0	0
2003	357	23	2628	320.933	-436.998	D	9.47	9.464	0.006	7.742	94.67	5.15	0	0	0	0.16
2003	358	23	2789	340.496	-426.449	D	8.574	8.544	0.029	5.455	94.02	5.87	0	0	0	0.1
2003	359	23	2571	322.646	-445.476	D	6.573	6.569	0.004	1.2	95.92	3.62	0	0	0	0.42
2003	360	23	2780	339.614	-425.419	D	6.847	6.845	0.002	1.745	97.22	2.64	0	0	0	0.15
2003	361	23	1	318.65	-445.782	D	6.753	6.753	0	1.562	0	0	0	0	0	0
2003	362	23	1	318.65	-445.782	D	8.719	8.719	0	5.874	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.299	7.299	0	2.675	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	6.566	6.566	0	1.194	0	0	0	0	0	0
									0.129							
UMC											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	6.999	6.999	0	2.056	0	0	0	0	0	0
2003	2	23	2709	330.21	-424.978	D	9.375	9.354	0.022	7.456	69.61	30.34	0	0	0	0.04
2003	3	23	1	318.65	-445.782	D	7.872	7.872	0	3.912	0	0	0	0	0	0
2003	4	23	1	318.65	-445.782	D	6.784	6.784	0	1.624	0	0	0	0	0	0
2003	5	23	1	318.65	-445.782	D	7.26	7.26	0	2.595	0	0	0	0	0	0
2003	6	23	1	318.65	-445.782	D	8.242	8.242	0	4.748	0	0	0	0	0	0
2003	7	23	1	318.65	-445.782	D	7.239	7.239	0	2.55	0	0	0	0	0	0
2003	8	23	1	318.65	-445.782	D	6.71	6.71	0	1.477	0	0	0	0	0	0
2003	9	23	2789	340.496	-426.449	D	6.98	6.968	0.012	1.994	96.71	3.08	0	0	0	0.2
2003	10	23	1	318.65	-445.782	D	6.587	6.587	0	1.234	0	0	0	0	0	0
2003	11	23	1	318.65	-445.782	D	6.549	6.549	0	1.161	0	0	0	0	0	0
2003	12	23	2789	340.496	-426.449	D	6.5	6.499	0.001	1.064	85.71	14.16	0	0	0	0.11
2003	13	23	2788	340.294	-426.448	D	6.7	6.699	0	1.456	87.72	11.72	0	0	0	0.07
2003	14	23	1	318.65	-445.782	D	9.224	9.224	0	7.124	0	0	0	0	0	0
2003	15	23	2789	340.496	-426.449	D	6.627	6.623	0.004	1.305	85.62	14.25	0	0	0	0.1
2003	16	23	2597	318.971	-443.851	D	8.373	8.256	0.117	4.78	88.65	11.33	0	0	0	0.02
2003	17	23	454	323.042	-443.841	D	8.1	8.099	0	4.422	92.18	5.28	0	0	0	0
2003	18	23	1	318.65	-445.782	D	6.57	6.57	0	1.203	0	0	0	0	0	0
2003	19	23	1	318.65	-445.782	D	6.651	6.651	0	1.361	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	6.624	6.624	0	1.308	0	0	0	0	0	0
2003	21	23	2789	340.496	-426.449	D	7.572	7.533	0.039	3.171	87.63	12.36	0	0	0	0.01

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	22	23	2762	336.074	-425.006	D	7.514	7.501	0.013	3.103	79.23	20.6	0	0	0	0.15
2003	23	23	2789	340.496	-426.449	D	6.965	6.962	0.003	1.981	83.86	16.07	0	0	0	0.04
2003	24	23	2790	340.421	-426.562	D	6.636	6.635	0.001	1.33	88.54	11.21	0	0	0	0.05
2003	25	23	2468	334.002	-434.887	D	6.5	6.499	0.001	1.064	90.35	9.55	0	0	0	0.03
2003	26	23	2788	340.294	-426.448	D	7.197	7.197	0	2.463	93.21	6.84	0	0	0	0.02
2003	27	23	2789	340.496	-426.449	D	6.797	6.794	0.003	1.644	87.26	12.73	0	0	0	0.04
2003	28	23	2788	340.294	-426.448	D	8.039	8.039	0	4.285	91.55	7.92	0	0	0	0.02
2003	29	23	2789	340.496	-426.449	D	9.896	9.793	0.103	8.612	70.79	29.18	0	0	0	0.03
2003	30	23	1	318.65	-445.782	D	9.114	9.114	0	6.846	0	0	0	0	0	0
2003	31	23	1412	329.218	-425.834	D	7.067	7.067	0	2.196	91.97	5.04	0	0	0	0.01
2003	32	23	1	318.65	-445.782	D	6.936	6.936	0	1.929	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	6.87	6.87	0	1.795	0	0	0	0	0	0
2003	34	23	1	318.65	-445.782	D	9.527	9.527	0	7.906	0	0	0	0	0	0
2003	35	23	1	318.65	-445.782	D	7.1	7.1	0	2.263	0	0	0	0	0	0
2003	36	23	2789	340.496	-426.449	D	6.563	6.563	0	1.189	85.39	13.63	0	0	0	0.14
2003	37	23	2781	339.842	-425.379	D	9.277	9.182	0.094	7.018	90.94	9.05	0	0	0	0
2003	38	23	2684	326.713	-427.014	D	8.868	8.001	**0.867**	4.199	93.9	6.1	0	0	0	0
2003	39	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2003	40	23	1	318.65	-445.782	D	7.657	7.657	0	3.439	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	9.339	9.339	0	7.418	0	0	0	0	0	0
2003	42	23	1	318.65	-445.782	D	6.733	6.733	0	1.522	0	0	0	0	0	0
2003	43	23	1	318.65	-445.782	D	6.521	6.521	0	1.107	0	0	0	0	0	0
2003	44	23	2789	340.496	-426.449	D	6.611	6.61	0.001	1.281	89.32	10.52	0	0	0	0.07
2003	45	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2003	46	23	1	318.65	-445.782	D	10.176	10.176	0	9.662	0	0	0	0	0	0
2003	47	23	2781	339.842	-425.379	D	8.894	8.654	0.24	5.716	92.6	7.39	0	0	0	0.01
2003	48	23	2694	327.861	-425.964	D	8.671	8.275	0.396	4.824	91.97	8.02	0	0	0	0.01
2003	49	23	2789	340.496	-426.449	D	7.011	6.979	0.032	2.016	93.3	6.67	0	0	0	0.02
2003	50	23	2781	339.842	-425.379	D	9.386	9.217	0.169	7.106	96.39	3.61	0	0	0	0
2003	51	23	2704	329.056	-425.092	D	9.792	9.524	0.268	7.899	92.91	7.09	0	0	0	0
2003	52	23	2628	320.933	-436.998	D	9.716	9.704	0.012	8.373	96.82	3.15	0	0	0	0
2003	53	23	2628	320.933	-436.998	D	9.616	9.454	0.162	7.717	92.02	7.97	0	0	0	0.01
2003	54	23	2781	339.842	-425.379	D	8.931	8.774	0.157	6.006	88.68	11.31	0	0	0	0.01
2003	55	23	2709	330.21	-424.978	D	8.768	8.504	0.264	5.359	91.58	8.42	0	0	0	0
2003	56	23	2575	321.659	-445.553	D	7.559	7.488	0.071	3.075	85.7	14.25	0	0	0	0.04
2003	57	23	2597	318.971	-443.851	D	8.891	8.653	0.238	5.715	92.76	7.24	0	0	0	0.01
2003	58	23	2600	318.952	-443.12	D	8.869	8.758	0.111	5.967	94.88	5.11	0	0	0	0
2003	59	23	2617	320.215	-439.334	D	9.087	8.962	0.126	6.467	95.36	4.63	0	0	0	0
2003	60	23	2704	329.056	-425.092	D	9.815	9.651	0.164	8.233	95.8	4.19	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	61	23	2781	339.842	-425.379	D	9.39	9.119	0.271	6.86	96.34	3.66	0	0	0	0
2003	62	23	2429	338.563	-428.651	D	7.391	7.373	0.018	2.832	97.24	2.74	0	0	0	0.01
2003	63	23	2789	340.496	-426.449	D	7.007	6.99	0.017	2.037	97.64	2.35	0	0	0	0.01
2003	64	23	2758	335.862	-424.454	D	9.219	9.059	0.16	6.709	93.77	6.23	0	0	0	0
2003	65	23	2789	340.496	-426.449	D	7.583	7.573	0.01	3.258	94.87	5.1	0	0	0	0.03
2003	66	23	2789	340.496	-426.449	D	6.977	6.945	0.033	1.946	94.53	5.45	0	0	0	0.02
2003	67	23	2789	340.496	-426.449	D	7.073	7.07	0.003	2.2	98.69	1.33	0	0	0	0.02
2003	68	23	2789	340.496	-426.449	D	7.095	7.06	0.035	2.18	78.1	21.77	0	0	0	0.13
2003	69	23	2758	335.862	-424.454	D	6.654	6.548	0.106	1.16	86.82	13.1	0	0	0	0.08
2003	70	23	2704	329.056	-425.092	D	6.615	6.553	0.062	1.168	95.1	4.87	0	0	0	0.04
2003	71	23	2789	340.496	-426.449	D	7.116	7.113	0.003	2.289	98.11	1.88	0	0	0	0.02
2003	72	23	2781	339.842	-425.379	D	8.581	8.571	0.01	5.518	98.44	1.53	0	0	0	0.02
2003	73	23	2597	318.971	-443.851	D	8.864	8.677	0.187	5.772	96.8	3.19	0	0	0	0.01
2003	74	23	2589	318.383	-445.593	D	8.213	8.106	0.107	4.436	97.98	2.02	0	0	0	0.01
2003	75	23	2704	329.056	-425.092	D	7.296	7.289	0.006	2.656	99.53	0.45	0	0	0	0.01
2003	76	23	1	318.65	-445.782	D	8.644	8.644	0	5.692	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	8.653	8.653	0	5.713	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	8.871	8.871	0	6.244	0	0	0	0	0	0
2003	79	23	2684	326.713	-427.014	D	9.718	9.196	**0.522**	7.054	94.92	5.08	0	0	0	0
2003	80	23	2789	340.496	-426.449	D	9.217	8.841	0.377	6.169	93.51	6.48	0	0	0	0
2003	81	23	1	318.65	-445.782	D	6.545	6.545	0	1.154	0	0	0	0	0	0
2003	82	23	1	318.65	-445.782	D	6.586	6.586	0	1.234	0	0	0	0	0	0
2003	83	23	1	318.65	-445.782	D	6.82	6.82	0	1.696	0	0	0	0	0	0
2003	84	23	2628	320.933	-436.998	D	7.727	7.676	0.05	3.482	97.13	2.85	0	0	0	0.02
2003	85	23	2684	326.713	-427.014	D	8.837	8.823	0.014	6.126	79.74	20.22	0	0	0	0.02
2003	86	23	2789	340.496	-426.449	D	6.613	6.612	0.001	1.283	99.1	0.82	0	0	0	0.02
2003	87	23	2274	336.179	-425.778	D	8.663	8.663	0	5.739	24.72	0.04	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.301	7.301	0	2.679	0	0	0	0	0	0
2003	89	23	1	318.65	-445.782	D	6.525	6.525	0	1.115	0	0	0	0	0	0
2003	90	23	1	318.65	-445.782	D	6.478	6.478	0	1.023	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	6.547	6.547	0	1.157	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	6.893	6.893	0	1.842	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.231	7.231	0	2.533	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	8.075	8.075	0	4.366	0	0	0	0	0	0
2003	95	23	1	318.65	-445.782	D	6.747	6.747	0	1.55	0	0	0	0	0	0
2003	96	23	2781	339.842	-425.379	D	8.075	8.057	0.018	4.325	94.6	5.39	0	0	0	0.01
2003	97	23	2273	336.19	-426.028	D	9.101	9.101	0	6.813	92.8	2.75	0	0	0	0
2003	98	23	2789	340.496	-426.449	D	7.456	7.431	0.025	2.955	96.24	3.75	0	0	0	0
2003	99	23	2789	340.496	-426.449	D	7.037	7.033	0.004	2.125	97.11	2.81	0	0	0	0.07

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	100	23	2789	340.496	-426.449	D	6.641	6.591	0.05	1.244	92.92	7.01	0	0	0	0.07
2003	101	23	2789	340.496	-426.449	D	6.496	6.479	0.017	1.025	98.31	1.62	0	0	0	0.07
2003	102	23	2789	340.496	-426.449	D	6.517	6.495	0.021	1.057	99.43	0.52	0	0	0	0.04
2003	103	23	2789	340.496	-426.449	D	6.526	6.525	0.001	1.115	99.9	0.11	0	0	0	0.03
2003	104	23	2788	340.294	-426.448	D	6.65	6.65	0	1.359	99.23	0.28	0	0	0	0.03
2003	105	23	1	318.65	-445.782	D	6.637	6.637	0	1.334	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	6.669	6.669	0	1.396	0	0	0	0	0	0
2003	107	23	2781	339.842	-425.379	D	7.574	7.564	0.01	3.239	94.66	5.33	0	0	0	0.01
2003	108	23	2784	339.87	-426.019	D	7.823	7.822	0	3.802	86.52	0.04	0	0	0	0.02
2003	109	23	1	318.65	-445.782	D	7.406	7.406	0	2.902	0	0	0	0	0	0
2003	110	23	1	318.65	-445.782	D	9.045	9.045	0	6.674	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.014	7.014	0	2.087	0	0	0	0	0	0
2003	112	23	2781	339.842	-425.379	D	6.543	6.541	0.002	1.146	98.65	1.27	0	0	0	0.13
2003	113	23	2758	335.862	-424.454	D	6.594	6.591	0.003	1.243	98.64	1.3	0	0	0	0.05
2003	114	23	1	318.65	-445.782	D	8.02	8.02	0	4.243	0	0	0	0	0	0
2003	115	23	2597	318.971	-443.851	D	8.522	8.341	0.181	4.977	95.7	4.29	0	0	0	0.01
2003	116	23	2781	339.842	-425.379	D	8.449	8.336	0.113	4.966	88.83	11.16	0	0	0	0.01
2003	117	23	2588	318.452	-445.8	D	7.068	7.053	0.015	2.166	98.76	1.23	0	0	0	0.02
2003	118	23	2789	340.496	-426.449	D	7.488	7.485	0.003	3.07	99.84	0.15	0	0	0	0.01
2003	119	23	2781	339.842	-425.379	D	7.485	7.484	0	3.068	99.51	0.87	0	0	0	0.01
2003	120	23	2182	335.131	-424.575	D	8.168	8.168	0	4.578	98.36	0.2	0	0	0	0.01
2003	121	23	2270	336.223	-426.776	D	7.736	7.736	0	3.612	53.25	0.26	0	0	0	0.01
2003	122	23	2781	339.842	-425.379	D	8.873	8.837	0.037	6.159	98.35	1.62	0	0	0	0.02
2003	123	23	2758	335.862	-424.454	D	9.28	8.503	**0.778**	5.356	96.88	3.11	0	0	0	0.01
2003	124	23	2255	335.942	-426.039	D	7.355	7.318	0.036	2.716	99.73	0.26	0	0	0	0.01
2003	125	23	1	318.65	-445.782	D	8.789	8.789	0	6.042	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	8.385	8.385	0	5.081	0	0	0	0	0	0
2003	127	23	2704	329.056	-425.092	D	8.64	8.618	0.022	5.629	98.26	1.72	0	0	0	0.01
2003	128	23	2758	335.862	-424.454	D	8.015	8.011	0.005	4.221	99.78	0.2	0	0	0	0.02
2003	129	23	1	318.65	-445.782	D	7.642	7.642	0	3.407	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	8.486	8.486	0	5.317	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.409	7.409	0	2.907	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	6.899	6.899	0	1.854	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	9.399	9.399	0	7.572	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	8.763	8.763	0	5.98	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	9.31	9.31	0	7.344	0	0	0	0	0	0
2003	137	23	2781	339.842	-425.379	D	9.374	9.371	0.003	7.5	99.87	0.14	0	0	0	0.01
2003	138	23	2684	326.713	-427.014	D	9.214	9.093	0.12	6.795	98.7	1.3	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	139	23	2628	320.933	-436.998	D	8.812	8.783	0.029	6.027	99.36	0.63	0	0	0	0
2003	140	23	2789	340.496	-426.449	D	8.764	8.269	0.495	4.811	94.58	5.42	0	0	0	0.01
2003	141	23	2789	340.496	-426.449	D	6.75	6.723	0.027	1.503	98.89	1.07	0	0	0	0.04
2003	142	23	2704	329.056	-425.092	D	7.22	7.179	0.04	2.426	99.47	0.49	0	0	0	0.04
2003	143	23	2571	322.646	-445.476	D	6.824	6.712	0.112	1.48	99.72	0.25	0	0	0	0.03
2003	144	23	2758	335.862	-424.454	D	8.056	7.815	0.242	3.785	99.62	0.37	0	0	0	0.01
2003	145	23	2758	335.862	-424.454	D	9.638	9.201	0.437	7.066	98.71	1.29	0	0	0	0.01
2003	146	23	2597	318.971	-443.851	D	8.48	8.096	0.384	4.414	99.39	0.6	0	0	0	0
2003	147	23	2611	319.699	-440.64	D	6.663	6.649	0.014	1.357	99.69	0.27	0	0	0	0.04
2003	148	23	2588	318.452	-445.8	D	6.643	6.596	0.047	1.253	99.79	0.18	0	0	0	0.03
2003	149	23	2563	323.259	-443.79	D	7.253	7.25	0.003	2.573	99.92	0.03	0	0	0	0.02
2003	150	23	1	318.65	-445.782	D	6.614	6.614	0	1.289	0	0	0	0	0	0
2003	151	23	2412	339.417	-425.886	D	7.202	7.202	0	2.473	98.19	0.09	0	0	0	0.05
2003	152	23	54	319.815	-443.982	D	7.213	7.171	0.042	2.409	98.93	1.06	0	0	0	0.01
2003	153	23	2694	327.861	-425.964	D	8.709	8.693	0.017	5.81	99.46	0.52	0	0	0	0
2003	154	23	2758	335.862	-424.454	D	9.333	9.114	0.219	6.847	96.27	3.73	0	0	0	0
2003	155	23	2597	318.971	-443.851	D	7.545	7.51	0.035	3.122	99.68	0.31	0	0	0	0.01
2003	156	23	2571	322.646	-445.476	D	6.879	6.821	0.058	1.697	99.81	0.17	0	0	0	0.02
2003	157	23	2708	329.979	-425	D	8.994	8.823	0.171	6.125	99.26	0.74	0	0	0	0
2003	158	23	2555	324.03	-442.528	D	7.542	7.54	0.002	3.186	99.7	0.25	0	0	0	0
2003	159	23	1	318.65	-445.782	D	7.001	7.001	0	2.06	0	0	0	0	0	0
2003	160	23	1	318.65	-445.782	D	6.621	6.621	0	1.301	0	0	0	0	0	0
2003	161	23	1	318.65	-445.782	D	7.499	7.499	0	3.098	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	8.817	8.817	0	6.112	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	8.874	8.874	0	6.251	0	0	0	0	0	0
2003	164	23	1415	329.185	-425.086	D	9.213	9.212	0	7.095	99.15	0.04	0	0	0	0.01
2003	165	23	2758	335.862	-424.454	D	8.572	8.299	0.274	4.879	97.88	2.11	0	0	0	0.01
2003	166	23	2571	322.646	-445.476	D	8.687	8.279	0.408	4.833	98.76	1.24	0	0	0	0.01
2003	167	23	2563	323.259	-443.79	D	8.216	8.097	0.119	4.417	99.47	0.53	0	0	0	0
2003	168	23	2588	318.452	-445.8	D	7.707	7.645	0.062	3.413	99.34	0.66	0	0	0	0
2003	169	23	2588	318.452	-445.8	D	8.972	8.946	0.026	6.427	99.73	0.27	0	0	0	0
2003	170	23	2684	326.713	-427.014	D	8.608	8.521	0.087	5.4	99.8	0.19	0	0	0	0.01
2003	171	23	2789	340.496	-426.449	D	9.171	8.404	**0.767**	5.124	97.17	2.83	0	0	0	0
2003	172	23	2589	318.383	-445.593	D	7.006	6.969	0.037	1.995	99.83	0.15	0	0	0	0.01
2003	173	23	1	318.65	-445.782	D	6.92	6.92	0	1.897	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.108	7.108	0	2.279	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.784	7.784	0	3.718	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	8.399	8.399	0	5.113	0	0	0	0	0	0
2003	177	23	1	318.65	-445.782	D	8.699	8.699	0	5.825	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	178	23	2571	322.646	-445.476	D	6.832	6.832	0	1.719	99.23	0.13	0	0	0	0.08
2003	179	23	2789	340.496	-426.449	D	6.651	6.647	0.004	1.352	99.81	0.14	0	0	0	0.04
2003	180	23	2684	326.713	-427.014	D	6.722	6.716	0.006	1.488	99.95	0.05	0	0	0	0.02
2003	181	23	2709	330.21	-424.978	D	7.102	7.095	0.007	2.252	99.83	0.14	0	0	0	0.01
2003	182	23	1415	329.185	-425.086	D	8.86	8.86	0	6.216	98.85	0.25	0	0	0	0
2003	183	23	2409	339.158	-425.648	D	7.561	7.56	0	3.23	99.41	0.24	0	0	0	0.01
2003	184	23	2781	339.842	-425.379	D	7.374	7.374	0	2.832	97.91	0.09	0	0	0	0.01
2003	185	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	8.318	8.318	0	4.923	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.086	7.086	0	2.234	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.739	7.739	0	3.619	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	8.593	8.593	0	5.571	0	0	0	0	0	0
2003	192	23	1	318.65	-445.782	D	7.285	7.285	0	2.647	0	0	0	0	0	0
2003	193	23	1	318.65	-445.782	D	7.83	7.83	0	3.819	0	0	0	0	0	0
2003	194	23	2788	340.294	-426.448	D	7.246	7.246	0	2.564	98.02	0.02	0	0	0	0.02
2003	195	23	2781	339.842	-425.379	D	8.471	8.448	0.023	5.227	99.64	0.35	0	0	0	0
2003	196	23	2417	339.654	-425.626	D	8.22	8.22	0	4.698	99.39	0.02	0	0	0	0.01
2003	197	23	1	318.65	-445.782	D	6.957	6.957	0	1.972	0	0	0	0	0	0
2003	198	23	2789	340.496	-426.449	D	7.156	7.155	0.001	2.375	99.9	0.07	0	0	0	0.02
2003	199	23	1951	333.842	-434.874	D	7.142	7.141	0	2.348	99.79	0.02	0	0	0	0.02
2003	200	23	2418	339.946	-426.612	D	7.719	7.719	0	3.574	99.53	0.07	0	0	0	0.01
2003	201	23	1	318.65	-445.782	D	8.338	8.338	0	4.97	0	0	0	0	0	0
2003	202	23	1	318.65	-445.782	D	8.079	8.079	0	4.375	0	0	0	0	0	0
2003	203	23	1	318.65	-445.782	D	7.552	7.552	0	3.213	0	0	0	0	0	0
2003	204	23	2704	329.056	-425.092	D	7.054	7.027	0.028	2.112	98.57	1.36	0	0	0	0.07
2003	205	23	2653	324.014	-433.36	D	7.14	6.968	0.172	1.993	99.72	0.25	0	0	0	0.03
2003	206	23	2704	329.056	-425.092	D	7.137	7.106	0.031	2.275	99.84	0.15	0	0	0	0.02
2003	207	23	1	318.65	-445.782	D	6.798	6.798	0	1.652	0	0	0	0	0	0
2003	208	23	1	318.65	-445.782	D	7.085	7.085	0	2.232	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.085	7.085	0	2.233	0	0	0	0	0	0
2003	210	23	2781	339.842	-425.379	D	8.47	8.415	0.054	5.151	99.17	0.83	0	0	0	0
2003	211	23	2781	339.842	-425.379	D	9.528	9.347	0.18	7.44	99.23	0.76	0	0	0	0
2003	212	23	2789	340.496	-426.449	D	7.705	7.607	0.098	3.331	99.49	0.5	0	0	0	0.01
2003	213	23	2789	340.496	-426.449	D	6.925	6.901	0.024	1.858	99.84	0.15	0	0	0	0.01
2003	214	23	2448	335.908	-431.021	D	7.684	7.672	0.013	3.471	99.95	0.05	0	0	0	0
2003	215	23	1	318.65	-445.782	D	7.59	7.59	0	3.294	0	0	0	0	0	0
2003	216	23	1	318.65	-445.782	D	7.802	7.802	0	3.758	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	217	23	1	318.65	-445.782	D	8.259	8.259	0	4.787	0	0	0	0	0	0
2003	218	23	2684	326.713	-427.014	D	8.668	8.602	0.066	5.592	99.87	0.11	0	0	0	0.01
2003	219	23	2600	318.952	-443.12	D	9.061	8.443	**0.619**	5.214	98.24	1.75	0	0	0	0.01
2003	220	23	2758	335.862	-424.454	D	7.285	7.066	0.219	2.193	99.67	0.3	0	0	0	0.03
2003	221	23	2589	318.383	-445.593	D	7.081	6.977	0.105	2.01	99.85	0.12	0	0	0	0.03
2003	222	23	2588	318.452	-445.8	D	7.286	7.162	0.124	2.39	99.88	0.1	0	0	0	0.03
2003	223	23	2588	318.452	-445.8	D	7.498	7.272	0.226	2.62	99.83	0.16	0	0	0	0.02
2003	224	23	2588	318.452	-445.8	D	7.213	7.207	0.006	2.483	99.62	0.37	0	0	0	0.01
2003	225	23	1	318.65	-445.782	D	8.321	8.321	0	4.931	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	8.753	8.753	0	5.955	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.337	7.337	0	2.755	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.347	7.347	0	2.776	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	6.982	6.982	0	2.021	0	0	0	0	0	0
2003	230	23	2789	340.496	-426.449	D	6.903	6.901	0.002	1.859	100.02	0.01	0	0	0	0.03
2003	231	23	2789	340.496	-426.449	D	6.844	6.826	0.018	1.706	99.91	0.07	0	0	0	0.02
2003	232	23	2789	340.496	-426.449	D	6.882	6.86	0.022	1.775	99.87	0.11	0	0	0	0.01
2003	233	23	2789	340.496	-426.449	D	6.939	6.921	0.018	1.898	99.78	0.2	0	0	0	0.01
2003	234	23	2790	340.421	-426.562	D	7.138	7.113	0.025	2.289	99.91	0.07	0	0	0	0.01
2003	235	23	2704	329.056	-425.092	D	7.095	7.028	0.067	2.115	99.92	0.06	0	0	0	0.02
2003	236	23	2588	318.452	-445.8	D	8.895	8.515	0.38	5.385	99.25	0.74	0	0	0	0.01
2003	237	23	2684	326.713	-427.014	D	8.005	7.846	0.159	3.854	99.87	0.13	0	0	0	0.01
2003	238	23	2708	329.979	-425	D	7.365	7.352	0.013	2.787	99.98	0.02	0	0	0	0.01
2003	239	23	2781	339.842	-425.379	D	7.03	7.03	0	2.119	99.82	0.02	0	0	0	0.01
2003	240	23	1	318.65	-445.782	D	7.105	7.105	0	2.273	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	8.394	8.394	0	5.101	0	0	0	0	0	0
2003	242	23	2276	336.157	-425.28	D	9.233	9.233	0	7.147	90.1	0.22	0	0	0	0
2003	243	23	2781	339.842	-425.379	D	9.331	9.331	0	7.397	99.02	0.98	0	0	0	0
2003	244	23	1	318.65	-445.782	D	9.456	9.456	0	7.721	0	0	0	0	0	0
2003	245	23	2653	324.014	-433.36	D	9.831	9.788	0.043	8.598	99.85	0.15	0	0	0	0
2003	246	23	2588	318.452	-445.8	D	9.946	9.235	**0.711**	7.152	98.45	1.55	0	0	0	0
2003	247	23	2790	340.421	-426.562	D	7.894	7.699	0.194	3.531	99.28	0.7	0	0	0	0.02
2003	248	23	2684	326.713	-427.014	D	6.832	6.745	0.087	1.545	98.83	1.11	0	0	0	0.06
2003	249	23	2588	318.452	-445.8	D	6.844	6.844	0.001	1.743	99.9	0.06	0	0	0	0.05
2003	250	23	1	318.65	-445.782	D	6.929	6.929	0	1.915	0	0	0	0	0	0
2003	251	23	1	318.65	-445.782	D	7.063	7.063	0	2.187	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.368	7.368	0	2.821	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	8.253	8.253	0	4.773	0	0	0	0	0	0
2003	255	23	1	318.65	-445.782	D	9.962	9.962	0	9.071	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	256	23	1	318.65	-445.782	D	9.428	9.428	0	7.649	0	0	0	0	0	0
2003	257	23	2781	339.842	-425.379	D	8.951	8.651	0.301	5.708	95.78	4.22	0	0	0	0
2003	258	23	1	318.65	-445.782	D	6.717	6.717	0	1.49	0	0	0	0	0	0
2003	259	23	2789	340.496	-426.449	D	6.647	6.645	0.002	1.349	99.75	0.15	0	0	0	0.05
2003	260	23	2781	339.842	-425.379	D	6.769	6.755	0.015	1.565	99.62	0.35	0	0	0	0.03
2003	261	23	2758	335.862	-424.454	D	6.771	6.77	0	1.596	99.73	0.11	0	0	0	0.02
2003	262	23	1	318.65	-445.782	D	7.776	7.776	0	3.698	0	0	0	0	0	0
2003	263	23	2789	340.496	-426.449	D	6.618	6.588	0.03	1.236	99.42	0.52	0	0	0	0.05
2003	264	23	2784	339.87	-426.019	D	7.103	7.049	0.055	2.158	99.8	0.19	0	0	0	0.01
2003	265	23	2784	339.87	-426.019	D	9.131	9.106	0.024	6.827	98.85	1.14	0	0	0	0
2003	266	23	2789	340.496	-426.449	D	6.897	6.897	0	1.849	100.33	0.09	0	0	0	0.01
2003	267	23	1	318.65	-445.782	D	6.83	6.83	0	1.715	0	0	0	0	0	0
2003	268	23	2684	326.713	-427.014	D	6.858	6.846	0.012	1.748	92.11	7.7	0	0	0	0.2
2003	269	23	2563	323.259	-443.79	D	7.074	7.052	0.022	2.164	99.23	0.75	0	0	0	0.02
2003	270	23	2789	340.496	-426.449	D	7.479	7.479	0	3.055	99.79	0.06	0	0	0	0.01
2003	271	23	1	318.65	-445.782	D	6.654	6.654	0	1.366	0	0	0	0	0	0
2003	272	23	2451	335.22	-431.216	D	6.536	6.532	0.004	1.128	92.71	7.01	0	0	0	0.23
2003	273	23	2429	338.563	-428.651	D	6.576	6.562	0.014	1.187	98.86	1.07	0	0	0	0.07
2003	274	23	2707	329.748	-425.023	D	8.577	8.474	0.103	5.288	93.85	6.14	0	0	0	0.01
2003	275	23	2684	326.713	-427.014	D	6.577	6.572	0.005	1.206	93	6.84	0	0	0	0.15
2003	276	23	2597	318.971	-443.851	D	7.149	7.115	0.034	2.293	97.78	2.2	0	0	0	0.02
2003	277	23	2789	340.496	-426.449	D	6.856	6.854	0.002	1.764	99.69	0.29	0	0	0	0.02
2003	278	23	2789	340.496	-426.449	D	7.037	7.032	0.005	2.124	99.1	0.85	0	0	0	0.03
2003	279	23	2789	340.496	-426.449	D	9.47	9.344	0.126	7.431	98.37	1.62	0	0	0	0.01
2003	280	23	2600	318.952	-443.12	D	7.934	7.852	0.081	3.868	99.45	0.54	0	0	0	0.01
2003	281	23	2694	327.861	-425.964	D	7.623	7.609	0.014	3.336	99.67	0.31	0	0	0	0.01
2003	282	23	2709	330.21	-424.978	D	8.916	8.914	0.001	6.35	99.52	0.34	0	0	0	0.01
2003	283	23	1415	329.185	-425.086	D	9.772	9.772	0	8.556	99.01	0.76	0	0	0	0
2003	284	23	1	318.65	-445.782	D	9.551	9.551	0	7.97	0	0	0	0	0	0
2003	285	23	2789	340.496	-426.449	D	7.9	7.891	0.009	3.954	99.26	0.66	0	0	0	0.09
2003	286	23	2789	340.496	-426.449	D	6.929	6.894	0.036	1.843	99.36	0.61	0	0	0	0.04
2003	287	23	2789	340.496	-426.449	D	8.898	8.869	0.03	6.237	97.92	2.08	0	0	0	0
2003	288	23	1	318.65	-445.782	D	6.692	6.692	0	1.442	0	0	0	0	0	0
2003	289	23	1	318.65	-445.782	D	6.601	6.601	0	1.262	0	0	0	0	0	0
2003	290	23	2694	327.861	-425.964	D	8.173	8.15	0.023	4.537	96.28	3.71	0	0	0	0
2003	291	23	2684	326.713	-427.014	D	6.637	6.617	0.02	1.293	98.92	1.02	0	0	0	0.06
2003	292	23	2789	340.496	-426.449	D	6.622	6.608	0.014	1.276	99.7	0.25	0	0	0	0.04
2003	293	23	2468	334.002	-434.887	D	6.7	6.696	0.004	1.45	99.84	0.09	0	0	0	0.02
2003	294	23	2789	340.496	-426.449	D	6.722	6.722	0	1.5	99.68	0.08	0	0	0	0.02

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	295	23	2684	326.713	-427.014	D	6.746	6.723	0.023	1.502	99.75	0.14	0	0	0	0.11
2003	296	23	2588	318.452	-445.8	D	6.644	6.61	0.034	1.28	99.65	0.28	0	0	0	0.07
2003	297	23	2571	322.646	-445.476	D	6.741	6.716	0.024	1.489	99.68	0.28	0	0	0	0.03
2003	298	23	1438	329.554	-427.817	D	8.463	7.987	0.477	4.168	93.38	6.6	0	0	0	0.01
2003	299	23	2563	323.259	-443.79	D	7.595	7.509	0.086	3.119	92.86	7.14	0	0	0	0
2003	300	23	13	319.06	-443.766	D	6.537	6.537	0	1.138	48.11	0.35	0	0	0	0.01
2003	301	23	1	318.65	-445.782	D	6.598	6.598	0	1.258	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	6.533	6.533	0	1.13	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.414	7.414	0	2.919	0	0	0	0	0	0
2003	304	23	1	318.65	-445.782	D	9.409	9.409	0	7.599	0	0	0	0	0	0
2003	305	23	2781	339.842	-425.379	D	9.456	9.4	0.056	7.576	91.98	8	0	0	0	0.02
2003	306	23	1	318.65	-445.782	D	8.79	8.79	0	6.045	0	0	0	0	0	0
2003	307	23	1	318.65	-445.782	D	7.877	7.877	0	3.922	0	0	0	0	0	0
2003	308	23	2758	335.862	-424.454	D	7.403	7.402	0.001	2.893	96.84	2.77	0	0	0	0.01
2003	309	23	2781	339.842	-425.379	D	8.104	8.075	0.029	4.367	97.33	2.64	0	0	0	0.02
2003	310	23	2789	340.496	-426.449	D	9.188	8.919	0.269	6.36	92.77	7.22	0	0	0	0.01
2003	311	23	2563	323.259	-443.79	D	8.093	7.883	0.21	3.935	92.69	7.3	0	0	0	0.01
2003	312	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	6.51	6.51	0	1.085	0	0	0	0	0	0
2003	314	23	1	318.65	-445.782	D	6.616	6.616	0	1.292	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	8.07	8.07	0	4.354	0	0	0	0	0	0
2003	316	23	1	318.65	-445.782	D	9.37	9.37	0	7.497	0	0	0	0	0	0
2003	317	23	1	318.65	-445.782	D	6.486	6.486	0	1.04	0	0	0	0	0	0
2003	318	23	2789	340.496	-426.449	D	6.957	6.957	0	1.97	96.23	3.57	0	0	0	0.03
2003	319	23	2781	339.842	-425.379	D	8.518	8.517	0	5.391	93.29	6.62	0	0	0	0.02
2003	320	23	1	318.65	-445.782	D	9.626	9.626	0	8.168	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	10.088	10.088	0	9.417	0	0	0	0	0	0
2003	322	23	1	318.65	-445.782	D	9.908	9.908	0	8.922	0	0	0	0	0	0
2003	323	23	1	318.65	-445.782	D	7.343	7.343	0	2.768	0	0	0	0	0	0
2003	324	23	1	318.65	-445.782	D	6.656	6.656	0	1.371	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	9.817	9.817	0	8.677	0	0	0	0	0	0
2003	327	23	2704	329.056	-425.092	D	9.041	9.009	0.032	6.585	93.08	6.91	0	0	0	0
2003	328	23	1	318.65	-445.782	D	7.264	7.264	0	2.603	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	6.515	6.515	0	1.095	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.434	7.434	0	2.961	0	0	0	0	0	0
2003	331	23	2789	340.496	-426.449	D	9.173	9.167	0.005	6.981	94.67	5.31	0	0	0	0.01
2003	332	23	2789	340.496	-426.449	D	6.841	6.839	0.002	1.734	95.16	4.83	0	0	0	0.01
2003	333	23	1	318.65	-445.782	D	6.494	6.494	0	1.054	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	334	23	1	318.65	-445.782	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2003	335	23	2684	326.713	-427.014	D	6.677	6.66	0.017	1.379	75.02	24.67	0	0	0	0.31
2003	336	23	1	318.65	-445.782	D	6.513	6.513	0	1.092	0	0	0	0	0	0
2003	337	23	1	318.65	-445.782	D	7.872	7.872	0	3.912	0	0	0	0	0	0
2003	338	23	2708	329.979	-425	D	9.316	9.209	0.107	7.085	95.03	4.96	0	0	0	0.01
2003	339	23	2597	318.971	-443.851	D	8.583	8.531	0.052	5.422	96.14	3.85	0	0	0	0
2003	340	23	1	318.65	-445.782	D	7.637	7.637	0	3.396	0	0	0	0	0	0
2003	341	23	2781	339.842	-425.379	D	6.661	6.656	0.006	1.37	88.46	11.52	0	0	0	0.04
2003	342	23	1	318.65	-445.782	D	8.111	8.111	0	4.449	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	10.155	10.155	0	9.603	0	0	0	0	0	0
2003	344	23	2588	318.452	-445.8	D	9.092	8.853	0.239	6.198	92.39	7.61	0	0	0	0
2003	345	23	1	318.65	-445.782	D	7.408	7.408	0	2.905	0	0	0	0	0	0
2003	346	23	2781	339.842	-425.379	D	6.853	6.844	0.01	1.742	91.43	8.53	0	0	0	0.04
2003	347	23	2589	318.383	-445.593	D	9.651	9.614	0.038	8.134	91.93	8.06	0	0	0	0
2003	348	23	2589	318.383	-445.593	D	9.507	9.425	0.082	7.641	94.02	5.98	0	0	0	0
2003	349	23	2781	339.842	-425.379	D	9.07	9.064	0.006	6.72	95.33	4.64	0	0	0	0
2003	350	23	2385	338.165	-425.691	D	8.717	8.717	0	5.869	85.93	3.55	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.444	7.444	0	2.982	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	6.918	6.918	0	1.892	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.467	7.467	0	3.031	0	0	0	0	0	0
2003	354	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	355	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2003	356	23	1	318.65	-445.782	D	9.46	9.46	0	7.73	0	0	0	0	0	0
2003	357	23	2789	340.496	-426.449	D	9.466	9.464	0.002	7.742	63.02	36.91	0	0	0	0.05
2003	358	23	1	318.65	-445.782	D	8.21	8.21	0	4.675	0	0	0	0	0	0
2003	359	23	1	318.65	-445.782	D	6.569	6.569	0	1.2	0	0	0	0	0	0
2003	360	23	2789	340.496	-426.449	D	6.839	6.838	0.001	1.731	94.94	5.08	0	0	0	0.05
2003	361	23	2789	340.496	-426.449	D	6.762	6.76	0.002	1.575	94.72	5.29	0	0	0	0.03
2003	362	23	1	318.65	-445.782	D	8.719	8.719	0	5.874	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.299	7.299	0	2.675	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	6.566	6.566	0	1.194	0	0	0	0	0	0
									0.867							
NORANDA									**DELTA**		**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	6.999	6.999	0	2.056	0	0	0	0	0	0
2003	2	23	1	318.65	-445.782	D	9.22	9.22	0	7.114	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	3	23	1	318.65	-445.782	D	7.872	7.872	0	3.912	0	0	0	0	0	0
2003	4	23	1	318.65	-445.782	D	6.784	6.784	0	1.624	0	0	0	0	0	0
2003	5	23	1	318.65	-445.782	D	7.26	7.26	0	2.595	0	0	0	0	0	0
2003	6	23	1	318.65	-445.782	D	8.242	8.242	0	4.748	0	0	0	0	0	0
2003	7	23	1	318.65	-445.782	D	7.239	7.239	0	2.55	0	0	0	0	0	0
2003	8	23	1	318.65	-445.782	D	6.71	6.71	0	1.477	0	0	0	0	0	0
2003	9	23	1	318.65	-445.782	D	6.922	6.922	0	1.9	0	0	0	0	0	0
2003	10	23	1	318.65	-445.782	D	6.587	6.587	0	1.234	0	0	0	0	0	0
2003	11	23	1	318.65	-445.782	D	6.549	6.549	0	1.161	0	0	0	0	0	0
2003	12	23	2789	340.496	-426.449	D	6.499	6.499	0	1.064	95.63	0.02	0	0	0.91	3.58
2003	13	23	2789	340.496	-426.449	D	6.7	6.699	0	1.456	97.74	0.02	0	0	0.26	3.09
2003	14	23	1	318.65	-445.782	D	9.224	9.224	0	7.124	0	0	0	0	0	0
2003	15	23	2571	322.646	-445.476	D	6.625	6.625	0	1.309	96.06	0.01	0	0	0.27	2.54
2003	16	23	2781	339.842	-425.379	D	8.371	8.274	0.097	4.822	97.01	0.23	0	0	0.1	2.66
2003	17	23	2236	336.149	-430.776	D	7.902	7.902	0	3.978	56.71	0	0	0	1.53	7.39
2003	18	23	1	318.65	-445.782	D	6.57	6.57	0	1.203	0	0	0	0	0	0
2003	19	23	1	318.65	-445.782	D	6.651	6.651	0	1.361	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	6.624	6.624	0	1.308	0	0	0	0	0	0
2003	21	23	1	318.65	-445.782	D	7.532	7.532	0	3.169	0	0	0	0	0	0
2003	22	23	1	318.65	-445.782	D	7.405	7.405	0	2.899	0	0	0	0	0	0
2003	23	23	1	318.65	-445.782	D	6.876	6.876	0	1.806	0	0	0	0	0	0
2003	24	23	1	318.65	-445.782	D	6.593	6.593	0	1.246	0	0	0	0	0	0
2003	25	23	1	318.65	-445.782	D	6.497	6.497	0	1.06	0	0	0	0	0	0
2003	26	23	1	318.65	-445.782	D	7.121	7.121	0	2.305	0	0	0	0	0	0
2003	27	23	2788	340.294	-426.448	D	6.794	6.794	0	1.644	88.85	0.15	0	0	0.41	10.29
2003	28	23	2788	340.294	-426.448	D	8.039	8.039	0	4.285	76.24	0.71	0	0	0.07	19.76
2003	29	23	1	318.65	-445.782	D	9.699	9.699	0	8.36	0	0	0	0	0	0
2003	30	23	1	318.65	-445.782	D	9.114	9.114	0	6.846	0	0	0	0	0	0
2003	31	23	2789	340.496	-426.449	D	7.08	7.065	0.015	2.191	98.69	0.06	0	0	0.01	1.24
2003	32	23	1	318.65	-445.782	D	6.936	6.936	0	1.929	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	6.87	6.87	0	1.795	0	0	0	0	0	0
2003	34	23	1	318.65	-445.782	D	9.527	9.527	0	7.906	0	0	0	0	0	0
2003	35	23	1	318.65	-445.782	D	7.1	7.1	0	2.263	0	0	0	0	0	0
2003	36	23	1	318.65	-445.782	D	6.56	6.56	0	1.182	0	0	0	0	0	0
2003	37	23	2781	339.842	-425.379	D	9.378	9.182	0.196	7.018	98.57	0.2	0	0	0.05	1.18
2003	38	23	2468	334.002	-434.887	D	8.08	8.005	0.075	4.21	99.12	0.13	0	0	0.01	0.73
2003	39	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2003	40	23	1	318.65	-445.782	D	7.657	7.657	0	3.439	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	9.339	9.339	0	7.418	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	42	23	1	318.65	-445.782	D	6.733	6.733	0	1.522	0	0	0	0	0	0
2003	43	23	1	318.65	-445.782	D	6.521	6.521	0	1.107	0	0	0	0	0	0
2003	44	23	1	318.65	-445.782	D	6.659	6.659	0	1.376	0	0	0	0	0	0
2003	45	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2003	46	23	2589	318.383	-445.593	D	10.186	10.176	0.01	9.662	98.97	0.13	0	0	0.01	0.85
2003	47	23	2468	334.002	-434.887	D	8.714	8.625	0.088	5.648	99.25	0.1	0	0	0	0.65
2003	48	23	1	318.65	-445.782	D	7.865	7.865	0	3.896	0	0	0	0	0	0
2003	49	23	1	318.65	-445.782	D	6.86	6.86	0	1.776	0	0	0	0	0	0
2003	50	23	2789	340.496	-426.449	D	9.228	9.195	0.033	7.051	97.1	0.33	0	0	0.05	2.51
2003	51	23	2447	336.137	-430.956	D	9.615	9.556	0.059	7.983	99.3	0.06	0	0	0.09	0.54
2003	52	23	2448	335.908	-431.021	D	10.574	9.738	**0.836**	8.464	99.38	0.07	0	0	0.04	0.51
2003	53	23	2588	318.452	-445.8	D	9.644	9.43	0.214	7.652	99.5	0.07	0	0	0.02	0.41
2003	54	23	1	318.65	-445.782	D	8.727	8.727	0	5.892	0	0	0	0	0	0
2003	55	23	1	318.65	-445.782	D	8.376	8.376	0	5.059	0	0	0	0	0	0
2003	56	23	1	318.65	-445.782	D	7.488	7.488	0	3.075	0	0	0	0	0	0
2003	57	23	2571	322.646	-445.476	D	8.662	8.622	0.04	5.641	97.05	0.11	0	0	0.36	2.48
2003	58	23	2588	318.452	-445.8	D	8.714	8.64	0.075	5.682	98.86	0.1	0	0	0.07	0.96
2003	59	23	2563	323.259	-443.79	D	8.999	8.962	0.038	6.467	99.15	0.06	0	0	0.04	0.75
2003	60	23	2563	323.259	-443.79	D	9.782	9.667	0.115	8.276	99.46	0.05	0	0	0.02	0.47
2003	61	23	2789	340.496	-426.449	D	9.16	9.117	0.043	6.853	99.6	0.05	0	0	0.01	0.35
2003	62	23	1	318.65	-445.782	D	7.196	7.196	0	2.461	0	0	0	0	0	0
2003	63	23	1	318.65	-445.782	D	7.002	7.002	0	2.063	0	0	0	0	0	0
2003	64	23	1	318.65	-445.782	D	9.117	9.117	0	6.855	0	0	0	0	0	0
2003	65	23	1	318.65	-445.782	D	7.603	7.603	0	3.323	0	0	0	0	0	0
2003	66	23	1	318.65	-445.782	D	6.885	6.885	0	1.825	0	0	0	0	0	0
2003	67	23	1	318.65	-445.782	D	7.083	7.083	0	2.227	0	0	0	0	0	0
2003	68	23	1	318.65	-445.782	D	7.068	7.068	0	2.198	0	0	0	0	0	0
2003	69	23	1	318.65	-445.782	D	6.544	6.544	0	1.152	0	0	0	0	0	0
2003	70	23	2468	334.002	-434.887	D	6.554	6.552	0.001	1.168	91.62	0.01	0	0	0.48	7.94
2003	71	23	2789	340.496	-426.449	D	7.118	7.113	0.005	2.289	93.41	0.04	0	0	0.06	6.48
2003	72	23	1	318.65	-445.782	D	8.466	8.466	0	5.269	0	0	0	0	0	0
2003	73	23	1	318.65	-445.782	D	8.6	8.6	0	5.587	0	0	0	0	0	0
2003	74	23	2789	340.496	-426.449	D	8.209	8.186	0.023	4.618	98.7	0.03	0	0	0.07	1.19
2003	75	23	2789	340.496	-426.449	D	7.287	7.277	0.011	2.629	97.17	0.05	0	0	0.04	2.73
2003	76	23	2784	339.87	-426.019	D	8.645	8.643	0.003	5.689	98.78	0.04	0	0	0.01	1.08
2003	77	23	2781	339.842	-425.379	D	8.723	8.722	0.001	5.881	99.18	0	0	0	0.09	0.69
2003	78	23	2758	335.862	-424.454	D	8.905	8.855	0.049	6.205	97.86	0.16	0	0	0.04	1.95
2003	79	23	2597	318.971	-443.851	D	9.32	9.203	0.117	7.071	99.61	0.06	0	0	0.01	0.33
2003	80	23	2563	323.259	-443.79	D	8.932	8.871	0.061	6.244	99.48	0.06	0	0	0	0.47

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	81	23	2789	340.496	-426.449	D	6.534	6.534	0	1.132	96.41	0.01	0	0	0.01	3.69
2003	82	23	1	318.65	-445.782	D	6.586	6.586	0	1.234	0	0	0	0	0	0
2003	83	23	1	318.65	-445.782	D	6.82	6.82	0	1.696	0	0	0	0	0	0
2003	84	23	1	318.65	-445.782	D	7.607	7.607	0	3.331	0	0	0	0	0	0
2003	85	23	1	318.65	-445.782	D	8.701	8.701	0	5.829	0	0	0	0	0	0
2003	86	23	2789	340.496	-426.449	D	6.617	6.612	0.006	1.283	93.2	0.05	0	0	0.29	6.46
2003	87	23	1	318.65	-445.782	D	8.676	8.676	0	5.769	0	0	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.301	7.301	0	2.679	0	0	0	0	0	0
2003	89	23	1	318.65	-445.782	D	6.525	6.525	0	1.115	0	0	0	0	0	0
2003	90	23	1	318.65	-445.782	D	6.478	6.478	0	1.023	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	6.547	6.547	0	1.157	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	6.893	6.893	0	1.842	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.231	7.231	0	2.533	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	8.075	8.075	0	4.366	0	0	0	0	0	0
2003	95	23	1	318.65	-445.782	D	6.747	6.747	0	1.55	0	0	0	0	0	0
2003	96	23	2704	329.056	-425.092	D	8.255	8.068	0.187	4.35	97.6	0.15	0	0	0.08	2.16
2003	97	23	2704	329.056	-425.092	D	9.106	9.096	0.01	6.801	93.3	1.82	0	0	0.02	4.86
2003	98	23	2789	340.496	-426.449	D	7.435	7.431	0.004	2.955	98.6	0.07	0	0	0	1.29
2003	99	23	2429	338.563	-428.651	D	7.033	7.033	0	2.125	98.08	0.02	0	0	0	1.56
2003	100	23	1	318.65	-445.782	D	6.581	6.581	0	1.223	0	0	0	0	0	0
2003	101	23	1	318.65	-445.782	D	6.48	6.48	0	1.028	0	0	0	0	0	0
2003	102	23	1	318.65	-445.782	D	6.496	6.496	0	1.058	0	0	0	0	0	0
2003	103	23	1	318.65	-445.782	D	6.523	6.523	0	1.11	0	0	0	0	0	0
2003	104	23	1	318.65	-445.782	D	6.676	6.676	0	1.411	0	0	0	0	0	0
2003	105	23	1	318.65	-445.782	D	6.637	6.637	0	1.334	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	6.669	6.669	0	1.396	0	0	0	0	0	0
2003	107	23	1	318.65	-445.782	D	7.437	7.437	0	2.967	0	0	0	0	0	0
2003	108	23	2789	340.496	-426.449	D	7.823	7.822	0.001	3.802	98.29	0	0	0	0.18	1.44
2003	109	23	2781	339.842	-425.379	D	7.582	7.582	0	3.277	97.43	0	0	0	0.12	2.08
2003	110	23	1	318.65	-445.782	D	9.045	9.045	0	6.674	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.014	7.014	0	2.087	0	0	0	0	0	0
2003	112	23	1	318.65	-445.782	D	6.538	6.538	0	1.139	0	0	0	0	0	0
2003	113	23	2789	340.496	-426.449	D	6.594	6.588	0.006	1.237	79.29	0.1	0	0	1.71	18.86
2003	114	23	2708	329.979	-425	D	8.034	8.025	0.009	4.255	96.17	0.02	0	0	0.14	3.67
2003	115	23	2624	320.719	-437.835	D	8.486	8.358	0.127	5.018	98.89	0.04	0	0	0.01	1.06
2003	116	23	2789	340.496	-426.449	D	8.408	8.355	0.054	5.009	99.42	0.01	0	0	0.01	0.57
2003	117	23	2789	340.496	-426.449	D	7.04	7.04	0	2.14	94.99	0	0	0	0.69	4.39
2003	118	23	2789	340.496	-426.449	D	7.487	7.485	0.002	3.07	97.69	0	0	0	0.1	2.16
2003	119	23	1	318.65	-445.782	D	7.327	7.327	0	2.733	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	120	23	1	318.65	-445.782	D	7.985	7.985	0	4.163	0	0	0	0	0	0
2003	121	23	1	318.65	-445.782	D	7.624	7.624	0	3.367	0	0	0	0	0	0
2003	122	23	1	318.65	-445.782	D	8.826	8.826	0	6.133	0	0	0	0	0	0
2003	123	23	340	322.363	-445.37	D	8.345	8.345	0	4.986	73.47	0	0	0	4.1	20.2
2003	124	23	2448	335.908	-431.021	D	7.346	7.318	0.028	2.716	97.92	0.01	0	0	0.03	2.04
2003	125	23	1	318.65	-445.782	D	8.789	8.789	0	6.042	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	8.385	8.385	0	5.081	0	0	0	0	0	0
2003	127	23	1	318.65	-445.782	D	8.67	8.67	0	5.754	0	0	0	0	0	0
2003	128	23	1	318.65	-445.782	D	8.057	8.057	0	4.326	0	0	0	0	0	0
2003	129	23	1	318.65	-445.782	D	7.642	7.642	0	3.407	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	8.486	8.486	0	5.317	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.409	7.409	0	2.907	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	6.899	6.899	0	1.854	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	9.399	9.399	0	7.572	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	8.763	8.763	0	5.98	0	0	0	0	0	0
2003	136	23	2413	339.406	-425.637	D	9.354	9.354	0	7.456	78.65	2.37	0	0	0.08	10.56
2003	137	23	2789	340.496	-426.449	D	9.385	9.371	0.014	7.5	97.56	0	0	0	0.28	2.15
2003	138	23	2600	318.952	-443.12	D	9.149	9.083	0.067	6.768	99.45	0.02	0	0	0.03	0.5
2003	139	23	2789	340.496	-426.449	D	8.827	8.796	0.031	6.059	98.27	0.01	0	0	0.23	1.49
2003	140	23	2790	340.421	-426.562	D	8.577	8.269	0.308	4.811	99.38	0.02	0	0	0.03	0.57
2003	141	23	2571	322.646	-445.476	D	6.718	6.718	0	1.492	98.06	0	0	0	0.08	2.22
2003	142	23	2274	336.179	-425.778	D	7.111	7.111	0	2.285	52.73	0	0	0	0.19	6.55
2003	143	23	1	318.65	-445.782	D	6.712	6.712	0	1.48	0	0	0	0	0	0
2003	144	23	2789	340.496	-426.449	D	7.806	7.793	0.013	3.737	99.66	0.01	0	0	0.04	0.27
2003	145	23	2781	339.842	-425.379	D	9.235	9.204	0.031	7.074	99.08	0.01	0	0	0.06	0.85
2003	146	23	37	319.567	-443.993	D	8.252	8.096	0.156	4.414	99.36	0.02	0	0	0.01	0.61
2003	147	23	2588	318.452	-445.8	D	6.648	6.647	0	1.353	94.99	0	0	0	0.06	4.92
2003	148	23	1	318.65	-445.782	D	6.596	6.596	0	1.253	0	0	0	0	0	0
2003	149	23	1	318.65	-445.782	D	7.175	7.175	0	2.418	0	0	0	0	0	0
2003	150	23	1	318.65	-445.782	D	6.614	6.614	0	1.289	0	0	0	0	0	0
2003	151	23	1	318.65	-445.782	D	7.098	7.098	0	2.258	0	0	0	0	0	0
2003	152	23	2571	322.646	-445.476	D	7.102	7.102	0	2.267	97.43	0	0	0	0.17	0.97
2003	153	23	2448	335.908	-431.021	D	8.733	8.683	0.05	5.786	98.47	0.01	0	0	0.03	1.48
2003	154	23	2789	340.496	-426.449	D	9.349	9.14	0.209	6.912	99.22	0.03	0	0	0.04	0.71
2003	155	23	2790	340.421	-426.562	D	7.663	7.66	0.003	3.446	95.02	0	0	0	0.33	4.67
2003	156	23	1	318.65	-445.782	D	6.821	6.821	0	1.697	87.86	0	0	0	0.71	11.21
2003	157	23	2789	340.496	-426.449	D	8.719	8.688	0.031	5.798	99.08	0.01	0	0	0.07	0.84
2003	158	23	2789	340.496	-426.449	D	7.568	7.56	0.008	3.23	98.8	0.01	0	0	0.05	1.13

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	159	23	2236	336.149	-430.776	D	7.15	7.15	0	2.365	86.94	0	0	0	0.16	7.6
2003	160	23	1	318.65	-445.782	D	6.621	6.621	0	1.301	0	0	0	0	0	0
2003	161	23	1	318.65	-445.782	D	7.499	7.499	0	3.098	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	8.817	8.817	0	6.112	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	8.874	8.874	0	6.251	0	0	0	0	0	0
2003	164	23	1	318.65	-445.782	D	9.225	9.225	0	7.127	0	0	0	0	0	0
2003	165	23	1	318.65	-445.782	D	8.181	8.181	0	4.608	0	0	0	0	0	0
2003	166	23	2408	339.168	-425.897	D	8.119	8.119	0	4.467	87.53	0	0	0	0.11	4.2
2003	167	23	2571	322.646	-445.476	D	8.03	8.005	0.025	4.208	98.78	0.02	0	0	0.15	1.05
2003	168	23	2587	318.699	-445.781	D	7.873	7.645	0.229	3.413	99.37	0.02	0	0	0.07	0.54
2003	169	23	2468	334.002	-434.887	D	9.78	8.927	**0.853**	6.381	99.32	0.03	0	0	0.07	0.58
2003	170	23	37	319.567	-443.993	D	8.682	8.51	0.171	5.375	99.24	0.01	0	0	0.06	0.68
2003	171	23	2588	318.452	-445.8	D	8.187	8.182	0.004	4.611	99.68	0	0	0	0.02	0.27
2003	172	23	2694	327.861	-425.964	D	7.013	6.976	0.038	2.009	96	0.02	0	0	0.2	3.78
2003	173	23	2781	339.842	-425.379	D	6.923	6.922	0.001	1.9	65.2	0.02	0	0	0.61	33.96
2003	174	23	2236	336.149	-430.776	D	7.092	7.092	0	2.245	52.92	0	0	0	0.77	6.63
2003	175	23	1	318.65	-445.782	D	7.784	7.784	0	3.718	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	8.399	8.399	0	5.113	0	0	0	0	0	0
2003	177	23	1	318.65	-445.782	D	8.699	8.699	0	5.825	0	0	0	0	0	0
2003	178	23	1	318.65	-445.782	D	6.832	6.832	0	1.719	0	0	0	0	0	0
2003	179	23	2571	322.646	-445.476	D	6.65	6.647	0.003	1.353	93.7	0	0	0	1.13	5.16
2003	180	23	2789	340.496	-426.449	D	6.797	6.718	0.078	1.493	96.68	0	0	0	0.27	3.05
2003	181	23	2764	336.51	-425.05	D	7.12	7.102	0.018	2.267	97.86	0	0	0	0.11	2.02
2003	182	23	2704	329.056	-425.092	D	8.865	8.86	0.005	6.216	99.19	0.01	0	0	0.04	0.75
2003	183	23	2789	340.496	-426.449	D	7.576	7.524	0.052	3.153	99.11	0.01	0	0	0.06	0.82
2003	184	23	2789	340.496	-426.449	D	7.423	7.375	0.048	2.836	98.51	0	0	0	0.09	1.4
2003	185	23	2789	340.496	-426.449	D	7.002	6.981	0.02	2.02	97.86	0	0	0	0.1	2.03
2003	186	23	2789	340.496	-426.449	D	7.311	7.311	0	2.701	90.2	0	0	0	1.43	8.16
2003	187	23	1549	330.211	-425.79	D	8.288	8.288	0	4.854	89.26	0	0	0	1.5	3.51
2003	188	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.086	7.086	0	2.234	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.739	7.739	0	3.619	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	8.593	8.593	0	5.571	0	0	0	0	0	0
2003	192	23	1	318.65	-445.782	D	7.285	7.285	0	2.647	0	0	0	0	0	0
2003	193	23	1	318.65	-445.782	D	7.83	7.83	0	3.819	0	0	0	0	0	0
2003	194	23	1	318.65	-445.782	D	7.262	7.262	0	2.597	0	0	0	0	0	0
2003	195	23	2781	339.842	-425.379	D	8.451	8.448	0.003	5.227	99.8	0	0	0	0.01	0.11
2003	196	23	1	318.65	-445.782	D	7.902	7.902	0	3.979	0	0	0	0	0	0
2003	197	23	1	318.65	-445.782	D	6.957	6.957	0	1.972	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	198	23	1	318.65	-445.782	D	7.183	7.183	0	2.433	0	0	0	0	0	0
2003	199	23	2418	339.946	-426.612	D	7.116	7.116	0	2.295	89.84	0	0	0	0.5	9.65
2003	200	23	2788	340.294	-426.448	D	7.719	7.719	0	3.574	95.67	0	0	0	0.1	3.87
2003	201	23	2037	333.945	-425.876	D	8.542	8.542	0	5.448	0.01	0.31	0	0	0	1.35
2003	202	23	1	318.65	-445.782	D	8.079	8.079	0	4.375	0	0	0	0	0	0
2003	203	23	1	318.65	-445.782	D	7.552	7.552	0	3.213	0	0	0	0	0	0
2003	204	23	1	318.65	-445.782	D	7.015	7.015	0	2.088	0	0	0	0	0	0
2003	205	23	2789	340.496	-426.449	D	6.944	6.943	0.001	1.942	98.03	0	0	0	0.43	1.41
2003	206	23	2789	340.496	-426.449	D	7.163	7.087	0.076	2.236	98.18	0	0	0	0.2	1.62
2003	207	23	2709	330.21	-424.978	D	6.848	6.836	0.012	1.728	97.54	0	0	0	0.13	2.31
2003	208	23	2415	339.676	-426.124	D	7.142	7.142	0	2.35	97.45	0	0	0	0.07	1.8
2003	209	23	1	318.65	-445.782	D	7.085	7.085	0	2.233	0	0	0	0	0	0
2003	210	23	2789	340.496	-426.449	D	8.42	8.407	0.013	5.131	99.88	0	0	0	0.01	0.1
2003	211	23	2781	339.842	-425.379	D	9.391	9.347	0.043	7.44	99.89	0	0	0	0.01	0.1
2003	212	23	2789	340.496	-426.449	D	7.627	7.607	0.02	3.331	99.81	0	0	0	0.01	0.18
2003	213	23	2468	334.002	-434.887	D	6.895	6.894	0.001	1.843	99.62	0	0	0	0.01	0.28
2003	214	23	2210	335.901	-430.787	D	7.673	7.672	0.001	3.471	99.78	0	0	0	0.01	0.2
2003	215	23	1954	333.809	-434.126	D	7.724	7.724	0	3.584	2.19	0	0	0	0	0.12
2003	216	23	1	318.65	-445.782	D	7.802	7.802	0	3.758	0	0	0	0	0	0
2003	217	23	1	318.65	-445.782	D	8.259	8.259	0	4.787	0	0	0	0	0	0
2003	218	23	1	318.65	-445.782	D	8.453	8.453	0	5.24	0	0	0	0	0	0
2003	219	23	1	318.65	-445.782	D	8.421	8.421	0	5.163	0	0	0	0	0	0
2003	220	23	1	318.65	-445.782	D	7.094	7.094	0	2.25	0	0	0	0	0	0
2003	221	23	1	318.65	-445.782	D	6.977	6.977	0	2.01	0	0	0	0	0	0
2003	222	23	1	318.65	-445.782	D	7.162	7.162	0	2.39	0	0	0	0	0	0
2003	223	23	1	318.65	-445.782	D	7.272	7.272	0	2.62	0	0	0	0	0	0
2003	224	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2003	225	23	2790	340.421	-426.562	D	8.286	8.283	0.003	4.843	97.27	0	0	0	0.54	2.16
2003	226	23	2709	330.21	-424.978	D	9.291	8.979	0.312	6.509	98.99	0.06	0	0	0.03	0.92
2003	227	23	2413	339.406	-425.637	D	7.273	7.273	0	2.621	68.36	0.01	0	0	0.38	14.68
2003	228	23	2789	340.496	-426.449	D	7.247	7.246	0.001	2.565	96.79	0	0	0	0.07	3.17
2003	229	23	2783	339.861	-425.806	D	6.935	6.934	0	1.925	87.32	0.01	0	0	0.09	8.87
2003	230	23	199	320.795	-437.944	D	6.905	6.905	0	1.866	15.45	0	0	0	0.01	2.55
2003	231	23	2789	340.496	-426.449	D	6.826	6.826	0	1.706	66.84	0.01	0	0	2.02	30.48
2003	232	23	2789	340.496	-426.449	D	6.864	6.86	0.004	1.775	95.54	0	0	0	0.39	4.07
2003	233	23	2789	340.496	-426.449	D	6.935	6.921	0.014	1.898	97.72	0	0	0	0.21	2.07
2003	234	23	2789	340.496	-426.449	D	7.138	7.113	0.025	2.289	98.6	0	0	0	0.12	1.27
2003	235	23	2789	340.496	-426.449	D	7.056	7.028	0.028	2.114	98.55	0	0	0	0.1	1.35
2003	236	23	2468	334.002	-434.887	D	8.646	8.537	0.109	5.438	99.36	0	0	0	0.06	0.57

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	237	23	2789	340.496	-426.449	D	8.237	7.854	0.383	3.872	99.21	0.01	0	0	0.06	0.73
2003	238	23	2789	340.496	-426.449	D	7.517	7.375	0.142	2.835	98.75	0	0	0	0.05	1.2
2003	239	23	2789	340.496	-426.449	D	7.034	7.03	0.004	2.12	98.69	0	0	0	0.04	1.26
2003	240	23	2788	340.294	-426.448	D	7.115	7.115	0	2.293	98.18	0	0	0	0.03	1.49
2003	241	23	13	319.06	-443.766	D	8.478	8.478	0	5.298	11.54	0	0	0	0.05	0.56
2003	242	23	2781	339.842	-425.379	D	9.365	9.233	0.132	7.147	99.5	0.01	0	0	0.03	0.46
2003	243	23	2758	335.862	-424.454	D	9.467	9.353	0.114	7.454	99.18	0.04	0	0	0.03	0.75
2003	244	23	1415	329.185	-425.086	D	9.428	9.428	0	7.647	99.3	0	0	0	0.03	0.2
2003	245	23	2694	327.861	-425.964	D	9.757	9.746	0.01	8.487	99.66	0.01	0	0	0.02	0.29
2003	246	23	2789	340.496	-426.449	D	9.34	9.204	0.136	7.074	99.77	0.02	0	0	0.01	0.2
2003	247	23	37	319.567	-443.993	D	7.679	7.678	0.001	3.485	99.49	0	0	0	0.01	0.38
2003	248	23	1	318.65	-445.782	D	6.736	6.736	0	1.529	0	0	0	0	0	0
2003	249	23	1	318.65	-445.782	D	6.844	6.844	0	1.743	0	0	0	0	0	0
2003	250	23	2571	322.646	-445.476	D	6.955	6.929	0.026	1.915	94.94	0.01	0	0	0.74	4.31
2003	251	23	2588	318.452	-445.8	D	7.234	7.063	0.171	2.187	97.48	0	0	0	0.17	2.34
2003	252	23	2708	329.979	-425	D	7.332	7.239	0.093	2.55	98.03	0	0	0	0.13	1.83
2003	253	23	2789	340.496	-426.449	D	7.52	7.381	0.139	2.847	98.86	0.01	0	0	0.05	1.09
2003	254	23	2781	339.842	-425.379	D	8.393	8.391	0.003	5.094	99.26	0	0	0	0.03	0.56
2003	255	23	2788	340.294	-426.448	D	10.005	10.005	0	9.188	84.06	0	0	0	0.6	1.38
2003	256	23	1	318.65	-445.782	D	9.428	9.428	0	7.649	0	0	0	0	0	0
2003	257	23	1	318.65	-445.782	D	8.74	8.74	0	5.924	0	0	0	0	0	0
2003	258	23	1	318.65	-445.782	D	6.717	6.717	0	1.49	0	0	0	0	0	0
2003	259	23	2789	340.496	-426.449	D	6.648	6.645	0.003	1.349	93.62	0	0	0	0.79	5.57
2003	260	23	2781	339.842	-425.379	D	6.77	6.755	0.016	1.565	95.62	0	0	0	0.21	4.15
2003	261	23	1414	329.196	-425.335	D	6.765	6.765	0	1.586	81.97	0.01	0	0	1.03	15.82
2003	262	23	2274	336.179	-425.778	D	7.868	7.868	0	3.903	60.1	0	0	0	0.48	3.59
2003	263	23	1	318.65	-445.782	D	6.579	6.579	0	1.219	0	0	0	0	0	0
2003	264	23	2789	340.496	-426.449	D	7.1	7.049	0.051	2.158	96.08	0.01	0	0	0.19	3.72
2003	265	23	2789	340.496	-426.449	D	9.169	9.106	0.063	6.827	99.48	0.02	0	0	0.02	0.47
2003	266	23	2789	340.496	-426.449	D	6.897	6.897	0	1.849	98.37	0	0	0	0.03	1.82
2003	267	23	1	318.65	-445.782	D	6.83	6.83	0	1.715	0	0	0	0	0	0
2003	268	23	1	318.65	-445.782	D	6.837	6.837	0	1.73	9.47	0	0	0	0.22	4.31
2003	269	23	2789	340.496	-426.449	D	7.039	7.039	0	2.138	93.69	0.01	0	0	0.16	5.52
2003	270	23	2310	337.033	-428.239	D	7.479	7.479	0	3.055	81.33	0.02	0	0	0.12	13.37
2003	271	23	1	318.65	-445.782	D	6.654	6.654	0	1.366	0	0	0	0	0	0
2003	272	23	1	318.65	-445.782	D	6.53	6.53	0	1.124	0	0	0	0	0	0
2003	273	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2003	274	23	1	318.65	-445.782	D	8.096	8.096	0	4.415	0	0	0	0	0	0
2003	275	23	1	318.65	-445.782	D	6.568	6.568	0	1.198	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	276	23	2571	322.646	-445.476	D	7.097	7.095	0.003	2.251	97.97	0	0	0	0.15	1.89
2003	277	23	2789	340.496	-426.449	D	6.855	6.854	0.001	1.764	96.79	0	0	0	0.06	3.14
2003	278	23	1	318.65	-445.782	D	7.273	7.273	0	2.622	0	0	0	0	0	0
2003	279	23	96	320.312	-443.961	D	9.352	9.312	0.04	7.348	99.43	0.01	0	0	0.06	0.5
2003	280	23	2789	340.496	-426.449	D	8.071	7.78	0.291	3.709	98.08	0.02	0	0	0.2	1.71
2003	281	23	2704	329.056	-425.092	D	7.652	7.609	0.043	3.336	98.41	0.01	0	0	0.07	1.51
2003	282	23	2709	330.21	-424.978	D	8.918	8.914	0.003	6.35	98.78	0	0	0	0.03	1.1
2003	283	23	2684	326.713	-427.014	D	9.836	9.772	0.064	8.556	93.69	1.04	0	0	0.26	5.01
2003	284	23	2589	318.383	-445.593	D	9.552	9.551	0.001	7.97	98.14	0.01	0	0	0.05	1.76
2003	285	23	2468	334.002	-434.887	D	7.923	7.897	0.026	3.968	99.11	0.03	0	0	0.01	0.85
2003	286	23	2571	322.646	-445.476	D	6.949	6.944	0.005	1.944	98.35	0	0	0	0.02	1.61
2003	287	23	2789	340.496	-426.449	D	8.881	8.869	0.012	6.237	99.65	0.01	0	0	0	0.34
2003	288	23	1	318.65	-445.782	D	6.692	6.692	0	1.442	0	0	0	0	0	0
2003	289	23	1	318.65	-445.782	D	6.601	6.601	0	1.262	0	0	0	0	0	0
2003	290	23	1	318.65	-445.782	D	7.667	7.667	0	3.462	0	0	0	0	0	0
2003	291	23	2236	336.149	-430.776	D	6.617	6.617	0	1.294	94.89	0	0	0	0.02	0.54
2003	292	23	1	318.65	-445.782	D	6.595	6.595	0	1.251	0	0	0	0	0	0
2003	293	23	1	318.65	-445.782	D	6.677	6.677	0	1.412	0	0	0	0	0	0
2003	294	23	1	318.65	-445.782	D	6.703	6.703	0	1.464	0	0	0	0	0	0
2003	295	23	1	318.65	-445.782	D	6.738	6.738	0	1.533	0	0	0	0	0	0
2003	296	23	1	318.65	-445.782	D	6.61	6.61	0	1.28	0	0	0	0	0	0
2003	297	23	2789	340.496	-426.449	D	6.696	6.691	0.004	1.44	52.17	0.18	0	0	1.68	45.97
2003	298	23	2789	340.496	-426.449	D	8.004	7.986	0.017	4.167	99.13	0.01	0	0	0	0.86
2003	299	23	2563	323.259	-443.79	D	7.513	7.509	0.005	3.119	98.81	0.02	0	0	0	1.19
2003	300	23	1	318.65	-445.782	D	6.536	6.536	0	1.135	0	0	0	0	0	0
2003	301	23	1	318.65	-445.782	D	6.598	6.598	0	1.258	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	6.533	6.533	0	1.13	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.414	7.414	0	2.919	0	0	0	0	0	0
2003	304	23	1	318.65	-445.782	D	9.409	9.409	0	7.599	0	0	0	0	0	0
2003	305	23	1	318.65	-445.782	D	9.384	9.384	0	7.535	0	0	0	0	0	0
2003	306	23	1	318.65	-445.782	D	8.79	8.79	0	6.045	0	0	0	0	0	0
2003	307	23	1	318.65	-445.782	D	7.877	7.877	0	3.922	0	0	0	0	0	0
2003	308	23	1	318.65	-445.782	D	7.389	7.389	0	2.864	0	0	0	0	0	0
2003	309	23	1	318.65	-445.782	D	7.708	7.708	0	3.55	0	0	0	0	0	0
2003	310	23	1	318.65	-445.782	D	9.017	9.017	0	6.605	0	0	0	0	0	0
2003	311	23	1	318.65	-445.782	D	7.749	7.749	0	3.641	0	0	0	0	0	0
2003	312	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	6.51	6.51	0	1.085	0	0	0	0	0	0
2003	314	23	2789	340.496	-426.449	D	6.624	6.612	0.012	1.284	90.02	0.05	0	0	0.33	9.61

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	315	23	2155	334.883	-424.586	D	7.918	7.918	0	4.014	69.95	0.12	0	0	0.07	29.89
2003	316	23	1	318.65	-445.782	D	9.37	9.37	0	7.497	0	0	0	0	0	0
2003	317	23	1	318.65	-445.782	D	6.486	6.486	0	1.04	0	0	0	0	0	0
2003	318	23	2429	338.563	-428.651	D	6.957	6.957	0	1.97	97.93	0.06	0	0	0.09	1.59
2003	319	23	2783	339.861	-425.806	D	8.519	8.517	0.001	5.391	96.95	0.06	0	0	0.26	2.68
2003	320	23	1	318.65	-445.782	D	9.626	9.626	0	8.168	0	0	0	0	0	0
2003	321	23	2789	340.496	-426.449	D	10.098	10.097	0.001	9.443	92.02	1.93	0	0	0.05	5.85
2003	322	23	1	318.65	-445.782	D	9.908	9.908	0	8.922	0	0	0	0	0	0
2003	323	23	1	318.65	-445.782	D	7.343	7.343	0	2.768	0	0	0	0	0	0
2003	324	23	1	318.65	-445.782	D	6.656	6.656	0	1.371	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	9.817	9.817	0	8.677	0	0	0	0	0	0
2003	327	23	1	318.65	-445.782	D	9.125	9.125	0	6.874	0	0	0	0	0	0
2003	328	23	1	318.65	-445.782	D	7.264	7.264	0	2.603	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	6.515	6.515	0	1.095	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.434	7.434	0	2.961	0	0	0	0	0	0
2003	331	23	1	318.65	-445.782	D	9.185	9.185	0	7.026	0	0	0	0	0	0
2003	332	23	1	318.65	-445.782	D	6.842	6.842	0	1.739	0	0	0	0	0	0
2003	333	23	1	318.65	-445.782	D	6.494	6.494	0	1.054	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2003	335	23	1	318.65	-445.782	D	6.66	6.66	0	1.378	0	0	0	0	0	0
2003	336	23	2789	340.496	-426.449	D	6.515	6.512	0.003	1.089	93.79	0.02	0	0	0.61	5.59
2003	337	23	2781	339.842	-425.379	D	8.179	8.178	0.001	4.6	35.7	0.8	0	0	0.93	62.64
2003	338	23	2781	339.842	-425.379	D	9.301	9.154	0.147	6.948	98.59	0.22	0	0	0.01	1.18
2003	339	23	2597	318.971	-443.851	D	8.533	8.531	0.003	5.422	98.88	0.13	0	0	0.01	0.98
2003	340	23	1	318.65	-445.782	D	7.637	7.637	0	3.396	0	0	0	0	0	0
2003	341	23	2789	340.496	-426.449	D	6.655	6.653	0.001	1.365	92.66	0.08	0	0	0.57	6.65
2003	342	23	1	318.65	-445.782	D	8.111	8.111	0	4.449	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	10.155	10.155	0	9.603	0	0	0	0	0	0
2003	344	23	2789	340.496	-426.449	D	8.895	8.894	0	6.301	96.89	0.51	0	0	0.01	1.86
2003	345	23	1	318.65	-445.782	D	7.408	7.408	0	2.905	0	0	0	0	0	0
2003	346	23	2789	340.496	-426.449	D	6.865	6.832	0.033	1.719	96.67	0.02	0	0	0.25	3.06
2003	347	23	2789	340.496	-426.449	D	9.803	9.527	0.277	7.905	97.8	0.18	0	0	0.08	1.94
2003	348	23	2781	339.842	-425.379	D	9.939	9.434	**0.505**	7.664	99.2	0.12	0	0	0.02	0.65
2003	349	23	2781	339.842	-425.379	D	9.093	9.064	0.03	6.72	98.76	0.1	0	0	0.01	1.12
2003	350	23	863	325.509	-431.992	D	8.745	8.745	0	5.935	18.89	0	0	0	0	0.37
2003	351	23	1	318.65	-445.782	D	7.444	7.444	0	2.982	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	6.918	6.918	0	1.892	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.467	7.467	0	3.031	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	354	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	355	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2003	356	23	1	318.65	-445.782	D	9.46	9.46	0	7.73	0	0	0	0	0	0
2003	357	23	1	318.65	-445.782	D	9.378	9.378	0	7.518	0	0	0	0	0	0
2003	358	23	1	318.65	-445.782	D	8.21	8.21	0	4.675	0	0	0	0	0	0
2003	359	23	1	318.65	-445.782	D	6.569	6.569	0	1.2	0	0	0	0	0	0
2003	360	23	2789	340.496	-426.449	D	6.838	6.838	0	1.731	94.1	0.01	0	0	0.97	4.56
2003	361	23	2781	339.842	-425.379	D	6.757	6.757	0	1.569	93.91	0.07	0	0	0.27	5.47
2003	362	23	1	318.65	-445.782	D	8.719	8.719	0	5.874	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.299	7.299	0	2.675	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	6.566	6.566	0	1.194	0	0	0	0	0	0
									0.853							
INDEPENDENCE											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	6.999	6.999	0	2.056	0	0	0	0	0	0
2003	2	23	1552	330.178	-425.042	D	9.427	9.354	0.073	7.456	89.15	10.4	0	0	0	0.45
2003	3	23	2789	340.496	-426.449	D	7.981	7.908	0.073	3.991	85.14	14.44	0	0	0	0.41
2003	4	23	1	318.65	-445.782	D	6.784	6.784	0	1.624	0	0	0	0	0	0
2003	5	23	1	318.65	-445.782	D	7.26	7.26	0	2.595	0	0	0	0	0	0
2003	6	23	2589	318.383	-445.593	D	8.34	8.242	0.098	4.748	69.41	30.15	0	0	0	0.43
2003	7	23	2758	335.862	-424.454	D	7.494	7.494	0	3.087	89.28	10.53	0	0	0	0.17
2003	8	23	1	318.65	-445.782	D	6.71	6.71	0	1.477	0	0	0	0	0	0
2003	9	23	2781	339.842	-425.379	D	6.973	6.967	0.006	1.992	87.03	11.34	0	0	0	1.62
2003	10	23	2789	340.496	-426.449	D	6.629	6.602	0.027	1.265	64.55	30.27	0	0	0	5.18
2003	11	23	2684	326.713	-427.014	D	6.615	6.552	0.063	1.167	63.84	31.98	0	0	0	4.18
2003	12	23	2628	320.933	-436.998	D	6.544	6.5	0.044	1.066	78.6	19.62	0	0	0	1.79
2003	13	23	2781	339.842	-425.379	D	6.699	6.698	0.001	1.452	84.91	14	0	0	0	1.07
2003	14	23	2784	339.87	-426.019	D	9.347	9.15	0.196	6.938	86.97	12.56	0	0	0	0.47
2003	15	23	2571	322.646	-445.476	D	6.63	6.625	0.005	1.309	93.73	5.53	0	0	0	0.74
2003	16	23	2597	318.971	-443.851	D	8.276	8.256	0.02	4.78	93.37	6.37	0	0	0	0.26
2003	17	23	2781	339.842	-425.379	D	7.978	7.902	0.076	3.978	92.25	7.47	0	0	0	0.28
2003	18	23	2789	340.496	-426.449	D	6.597	6.596	0	1.254	84.02	14.62	0	0	0	1.53
2003	19	23	1	318.65	-445.782	D	6.651	6.651	0	1.361	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	6.624	6.624	0	1.308	0	0	0	0	0	0
2003	21	23	2789	340.496	-426.449	D	7.575	7.533	0.042	3.171	88.2	11.67	0	0	0	0.13
2003	22	23	1	318.65	-445.782	D	7.405	7.405	0	2.899	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	23	23	2599	318.958	-443.364	D	7.043	6.946	0.097	1.948	67.2	30.62	0	0	0	2.17
2003	24	23	2600	318.952	-443.12	D	6.638	6.618	0.021	1.295	82.75	16.14	0	0	0	1.11
2003	25	23	2781	339.842	-425.379	D	6.502	6.5	0.002	1.065	85.56	13.64	0	0	0	0.8
2003	26	23	2758	335.862	-424.454	D	7.28	7.236	0.044	2.544	60.46	38.69	0	0	0	0.84
2003	27	23	2600	318.952	-443.12	D	6.812	6.801	0.012	1.657	82.28	17.21	0	0	0	0.52
2003	28	23	1	318.65	-445.782	D	8.235	8.235	0	4.732	0	0	0	0	0	0
2003	29	23	2628	320.933	-436.998	D	9.898	9.793	0.105	8.612	88.66	11.27	0	0	0	0.07
2003	30	23	1	318.65	-445.782	D	9.114	9.114	0	6.846	0	0	0	0	0	0
2003	31	23	1	318.65	-445.782	D	7.121	7.121	0	2.306	0	0	0	0	0	0
2003	32	23	1	318.65	-445.782	D	6.936	6.936	0	1.929	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	6.87	6.87	0	1.795	0	0	0	0	0	0
2003	34	23	1	318.65	-445.782	D	9.527	9.527	0	7.906	0	0	0	0	0	0
2003	35	23	1	318.65	-445.782	D	7.1	7.1	0	2.263	0	0	0	0	0	0
2003	36	23	2789	340.496	-426.449	D	6.582	6.563	0.019	1.189	87.62	10.84	0	0	0	1.54
2003	37	23	2704	329.056	-425.092	D	9.257	9.199	0.058	7.061	92.56	7.28	0	0	0	0.15
2003	38	23	2781	339.842	-425.379	D	8.263	8.007	0.257	4.213	90.76	9.1	0	0	0	0.14
2003	39	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2003	40	23	1	318.65	-445.782	D	7.657	7.657	0	3.439	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	9.339	9.339	0	7.418	0	0	0	0	0	0
2003	42	23	1	318.65	-445.782	D	6.733	6.733	0	1.522	0	0	0	0	0	0
2003	43	23	2623	320.666	-438.044	D	6.533	6.522	0.012	1.108	65.54	30.21	0	0	0	4.24
2003	44	23	2684	326.713	-427.014	D	6.632	6.629	0.004	1.317	87.81	10.67	0	0	0	1.5
2003	45	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2003	46	23	1	318.65	-445.782	D	10.176	10.176	0	9.662	0	0	0	0	0	0
2003	47	23	1	318.65	-445.782	D	8.453	8.453	0	5.24	0	0	0	0	0	0
2003	48	23	1	318.65	-445.782	D	7.865	7.865	0	3.896	0	0	0	0	0	0
2003	49	23	1	318.65	-445.782	D	6.86	6.86	0	1.776	0	0	0	0	0	0
2003	50	23	1412	329.218	-425.834	D	9.213	9.213	0	7.097	85.24	7.78	0	0	0	0.23
2003	51	23	2709	330.21	-424.978	D	9.796	9.537	0.259	7.933	93.46	6.48	0	0	0	0.07
2003	52	23	2709	330.21	-424.978	D	9.666	9.648	0.018	8.224	97.36	2.58	0	0	0	0.06
2003	53	23	2597	318.971	-443.851	D	9.545	9.493	0.052	7.818	92.24	7.47	0	0	0	0.29
2003	54	23	2460	334.486	-433.002	D	9.02	8.837	0.183	6.16	85.88	13.84	0	0	0	0.27
2003	55	23	2508	328.547	-436.117	D	8.781	8.466	0.315	5.27	76.22	23.04	0	0	0	0.74
2003	56	23	2711	330.671	-424.932	D	7.684	7.42	0.264	2.931	90.77	9.04	0	0	0	0.19
2003	57	23	1	318.65	-445.782	D	8.622	8.622	0	5.641	0	0	0	0	0	0
2003	58	23	1	318.65	-445.782	D	8.64	8.64	0	5.682	0	0	0	0	0	0
2003	59	23	1	318.65	-445.782	D	8.8	8.8	0	6.07	0	0	0	0	0	0
2003	60	23	1	318.65	-445.782	D	9.641	9.641	0	8.207	0	0	0	0	0	0
2003	61	23	2762	336.074	-425.006	D	9.194	9.119	0.074	6.86	90.1	8.89	0	0	0	1.01

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	62	23	2789	340.496	-426.449	D	7.714	7.373	0.341	2.832	91.3	8.41	0	0	0	0.29
2003	63	23	2781	339.842	-425.379	D	6.982	6.981	0	2.02	95.02	4.57	0	0	0	0.4
2003	64	23	2588	318.452	-445.8	D	9.427	9.117	0.31	6.855	90.3	9.59	0	0	0	0.11
2003	65	23	2468	334.002	-434.887	D	7.665	7.623	0.042	3.366	94.3	5.62	0	0	0	0.08
2003	66	23	1	318.65	-445.782	D	6.885	6.885	0	1.825	0	0	0	0	0	0
2003	67	23	1	318.65	-445.782	D	7.083	7.083	0	2.227	0	0	0	0	0	0
2003	68	23	2789	340.496	-426.449	D	7.078	7.06	0.019	2.18	86.61	12.67	0	0	0	0.72
2003	69	23	1	318.65	-445.782	D	6.544	6.544	0	1.152	0	0	0	0	0	0
2003	70	23	1	318.65	-445.782	D	6.56	6.56	0	1.183	0	0	0	0	0	0
2003	71	23	1	318.65	-445.782	D	7.082	7.082	0	2.225	0	0	0	0	0	0
2003	72	23	2710	330.44	-424.955	D	8.89	8.594	0.295	5.574	97.38	2.41	0	0	0	0.2
2003	73	23	2597	318.971	-443.851	D	9.232	8.677	**0.555**	5.772	97.5	2.42	0	0	0	0.08
2003	74	23	2684	326.713	-427.014	D	8.193	8.138	0.055	4.509	98.1	1.83	0	0	0	0.08
2003	75	23	2155	334.883	-424.586	D	7.282	7.282	0.001	2.639	99.57	0.23	0	0	0	0.21
2003	76	23	1	318.65	-445.782	D	8.644	8.644	0	5.692	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	8.653	8.653	0	5.713	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	8.871	8.871	0	6.244	0	0	0	0	0	0
2003	79	23	2684	326.713	-427.014	D	9.36	9.196	0.164	7.054	94.98	4.94	0	0	0	0.07
2003	80	23	2789	340.496	-426.449	D	9.423	8.841	**0.582**	6.169	93.74	6.07	0	0	0	0.19
2003	81	23	2789	340.496	-426.449	D	6.536	6.534	0.002	1.132	96.29	2.25	0	0	0	1.49
2003	82	23	1	318.65	-445.782	D	6.586	6.586	0	1.234	0	0	0	0	0	0
2003	83	23	1	318.65	-445.782	D	6.82	6.82	0	1.696	0	0	0	0	0	0
2003	84	23	2600	318.952	-443.12	D	7.797	7.687	0.109	3.506	95.82	3.92	0	0	0	0.26
2003	85	23	2789	340.496	-426.449	D	8.868	8.836	0.032	6.157	95.74	4.2	0	0	0	0.06
2003	86	23	1	318.65	-445.782	D	6.635	6.635	0	1.329	0	0	0	0	0	0
2003	87	23	1	318.65	-445.782	D	8.676	8.676	0	5.769	0	0	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.301	7.301	0	2.679	0	0	0	0	0	0
2003	89	23	2789	340.496	-426.449	D	6.541	6.531	0.01	1.126	72.11	24.86	0	0	0	3.03
2003	90	23	1	318.65	-445.782	D	6.478	6.478	0	1.023	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	6.547	6.547	0	1.157	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	6.893	6.893	0	1.842	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.231	7.231	0	2.533	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	8.075	8.075	0	4.366	0	0	0	0	0	0
2003	95	23	2781	339.842	-425.379	D	6.817	6.787	0.029	1.63	79.91	17.96	0	0	0	2.13
2003	96	23	1	318.65	-445.782	D	7.63	7.63	0	3.38	89.13	0.73	0	0	0	1.03
2003	97	23	1	318.65	-445.782	D	9.082	9.082	0	6.766	0	0	0	0	0	0
2003	98	23	2789	340.496	-426.449	D	7.494	7.431	0.062	2.955	78.6	20.8	0	0	0	0.6
2003	99	23	2640	322.263	-435.121	D	7.166	7.027	0.139	2.113	82.62	16.62	0	0	0	0.76
2003	100	23	1	318.65	-445.782	D	6.581	6.581	0	1.223	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	101	23	1	318.65	-445.782	D	6.48	6.48	0	1.028	0	0	0	0	0	0
2003	102	23	1	318.65	-445.782	D	6.496	6.496	0	1.058	0	0	0	0	0	0
2003	103	23	2789	340.496	-426.449	D	6.526	6.525	0	1.115	99.26	0.03	0	0	0	0.57
2003	104	23	2781	339.842	-425.379	D	6.648	6.648	0	1.355	99.92	0.06	0	0	0	0.46
2003	105	23	1	318.65	-445.782	D	6.637	6.637	0	1.334	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	6.669	6.669	0	1.396	0	0	0	0	0	0
2003	107	23	1	318.65	-445.782	D	7.437	7.437	0	2.967	0	0	0	0	0	0
2003	108	23	2789	340.496	-426.449	D	7.823	7.822	0.001	3.802	99.15	0.05	0	0	0	0.36
2003	109	23	2781	339.842	-425.379	D	7.582	7.582	0	3.277	99.57	0.15	0	0	0	0.17
2003	110	23	1	318.65	-445.782	D	9.045	9.045	0	6.674	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.014	7.014	0	2.087	0	0	0	0	0	0
2003	112	23	1375	329.046	-427.59	D	6.556	6.54	0.016	1.143	90.69	7.06	0	0	0	2.25
2003	113	23	2600	318.952	-443.12	D	6.607	6.593	0.014	1.247	98.29	1.09	0	0	0	0.61
2003	114	23	1	318.65	-445.782	D	8.02	8.02	0	4.243	0	0	0	0	0	0
2003	115	23	2781	339.842	-425.379	D	8.496	8.448	0.048	5.226	96.81	2.79	0	0	0	0.4
2003	116	23	2600	318.952	-443.12	D	8.545	8.369	0.176	5.042	95.5	4.34	0	0	0	0.16
2003	117	23	1	318.65	-445.782	D	7.053	7.053	0	2.166	0	0	0	0	0	0
2003	118	23	1	318.65	-445.782	D	7.399	7.399	0	2.886	0	0	0	0	0	0
2003	119	23	1	318.65	-445.782	D	7.327	7.327	0	2.733	0	0	0	0	0	0
2003	120	23	1	318.65	-445.782	D	7.985	7.985	0	4.163	0	0	0	0	0	0
2003	121	23	1	318.65	-445.782	D	7.624	7.624	0	3.367	0	0	0	0	0	0
2003	122	23	2758	335.862	-424.454	D	8.958	8.84	0.118	6.167	96.79	2.99	0	0	0	0.22
2003	123	23	2468	334.002	-434.887	D	8.879	8.511	0.368	5.375	98.54	1.38	0	0	0	0.08
2003	124	23	12	319.07	-444.015	D	7.428	7.384	0.044	2.855	99.74	0.16	0	0	0	0.1
2003	125	23	1	318.65	-445.782	D	8.789	8.789	0	6.042	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	8.385	8.385	0	5.081	0	0	0	0	0	0
2003	127	23	2684	326.713	-427.014	D	8.696	8.619	0.078	5.632	95.7	3.84	0	0	0	0.46
2003	128	23	2704	329.056	-425.092	D	8.028	8.016	0.012	4.234	99.37	0.14	0	0	0	0.48
2003	129	23	1	318.65	-445.782	D	7.642	7.642	0	3.407	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	8.486	8.486	0	5.317	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.409	7.409	0	2.907	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	6.899	6.899	0	1.854	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	9.399	9.399	0	7.572	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	8.763	8.763	0	5.98	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	9.31	9.31	0	7.344	0	0	0	0	0	0
2003	137	23	2758	335.862	-424.454	D	9.397	9.369	0.027	7.497	99.7	0.18	0	0	0	0.11
2003	138	23	2694	327.861	-425.964	D	9.212	9.093	0.119	6.795	99.22	0.74	0	0	0	0.04
2003	139	23	1	318.65	-445.782	D	8.739	8.739	0	5.921	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	140	23	2758	335.862	-424.454	D	8.334	8.263	0.071	4.796	97.61	2.32	0	0	0	0.07
2003	141	23	1	318.65	-445.782	D	6.718	6.718	0	1.492	0	0	0	0	0	0
2003	142	23	1	318.65	-445.782	D	7.283	7.283	0	2.641	0	0	0	0	0	0
2003	143	23	1	318.65	-445.782	D	6.712	6.712	0	1.48	0	0	0	0	0	0
2003	144	23	2706	329.518	-425.046	D	7.84	7.84	0	3.841	98.38	1.51	0	0	0	0.05
2003	145	23	2704	329.056	-425.092	D	9.232	9.205	0.028	7.075	96.59	3.36	0	0	0	0.04
2003	146	23	1	318.65	-445.782	D	7.862	7.862	0	3.89	0	0	0	0	0	0
2003	147	23	1	318.65	-445.782	D	6.647	6.647	0	1.353	0	0	0	0	0	0
2003	148	23	2781	339.842	-425.379	D	6.613	6.607	0.006	1.275	98.72	0.67	0	0	0	0.61
2003	149	23	2781	339.842	-425.379	D	7.313	7.286	0.027	2.649	93.21	5.57	0	0	0	1.21
2003	150	23	2781	339.842	-425.379	D	6.657	6.617	0.041	1.293	98.95	0.22	0	0	0	0.83
2003	151	23	2789	340.496	-426.449	D	7.248	7.231	0.017	2.534	88.81	8.81	0	0	0	2.38
2003	152	23	1	318.65	-445.782	D	7.102	7.102	0	2.267	0	0	0	0	0	0
2003	153	23	1	318.65	-445.782	D	8.705	8.705	0	5.84	0	0	0	0	0	0
2003	154	23	2694	327.861	-425.964	D	9.545	9.102	0.443	6.816	89.44	10.41	0	0	0	0.14
2003	155	23	2597	318.971	-443.851	D	8.099	7.51	**0.589**	3.122	98.47	1.29	0	0	0	0.24
2003	156	23	2589	318.383	-445.593	D	6.936	6.821	0.115	1.697	99.5	0.21	0	0	0	0.29
2003	157	23	2684	326.713	-427.014	D	8.784	8.784	0.001	6.03	99.69	0.11	0	0	0	0.14
2003	158	23	1	318.65	-445.782	D	7.479	7.479	0	3.057	0	0	0	0	0	0
2003	159	23	1	318.65	-445.782	D	7.001	7.001	0	2.06	0	0	0	0	0	0
2003	160	23	1	318.65	-445.782	D	6.621	6.621	0	1.301	0	0	0	0	0	0
2003	161	23	1	318.65	-445.782	D	7.499	7.499	0	3.098	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	8.817	8.817	0	6.112	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	8.874	8.874	0	6.251	0	0	0	0	0	0
2003	164	23	2784	339.87	-426.019	D	9.23	9.229	0.001	7.137	99.59	0.18	0	0	0	0.14
2003	165	23	2709	330.21	-424.978	D	8.317	8.299	0.018	4.879	99.03	0.91	0	0	0	0.06
2003	166	23	2588	318.452	-445.8	D	8.28	8.279	0.001	4.833	99.86	0.03	0	0	0	0.11
2003	167	23	1	318.65	-445.782	D	8.005	8.005	0	4.208	0	0	0	0	0	0
2003	168	23	1	318.65	-445.782	D	7.645	7.645	0	3.413	0	0	0	0	0	0
2003	169	23	1	318.65	-445.782	D	8.946	8.946	0	6.427	0	0	0	0	0	0
2003	170	23	2709	330.21	-424.978	D	8.535	8.518	0.017	5.392	99.41	0.08	0	0	0	0.51
2003	171	23	2709	330.21	-424.978	D	8.583	8.408	0.176	5.133	99.27	0.61	0	0	0	0.13
2003	172	23	1	318.65	-445.782	D	6.969	6.969	0	1.995	0	0	0	0	0	0
2003	173	23	1	318.65	-445.782	D	6.92	6.92	0	1.897	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.108	7.108	0	2.279	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.784	7.784	0	3.718	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	8.399	8.399	0	5.113	0	0	0	0	0	0
2003	177	23	2704	329.056	-425.092	D	9.016	8.724	0.292	5.887	96.15	3.59	0	0	0	0.26
2003	178	23	2611	319.699	-440.64	D	6.916	6.834	0.082	1.723	98.15	1.03	0	0	0	0.82

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	179	23	2628	320.933	-436.998	D	6.66	6.645	0.014	1.35	99.26	0.15	0	0	0	0.58
2003	180	23	1415	329.185	-425.086	D	6.719	6.719	0	1.494	99.47	0.03	0	0	0	0.44
2003	181	23	1	318.65	-445.782	D	7.039	7.039	0	2.138	0	0	0	0	0	0
2003	182	23	1	318.65	-445.782	D	8.857	8.857	0	6.21	0	0	0	0	0	0
2003	183	23	1551	330.189	-425.292	D	7.463	7.463	0	3.021	87.48	0.01	0	0	0	0.23
2003	184	23	2275	336.168	-425.529	D	7.374	7.374	0	2.832	91.65	0.03	0	0	0	0.13
2003	185	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	8.318	8.318	0	4.923	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.086	7.086	0	2.234	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.739	7.739	0	3.619	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	8.593	8.593	0	5.571	0	0	0	0	0	0
2003	192	23	2641	322.503	-435.089	D	7.253	7.223	0.03	2.517	97.6	1.34	0	0	0	1.06
2003	193	23	2255	335.942	-426.039	D	7.866	7.862	0.004	3.889	99.5	0.04	0	0	0	0.46
2003	194	23	2789	340.496	-426.449	D	7.246	7.246	0	2.564	99.43	0.18	0	0	0	0.25
2003	195	23	2781	339.842	-425.379	D	8.455	8.448	0.008	5.227	99.21	0.69	0	0	0	0.07
2003	196	23	2789	340.496	-426.449	D	8.24	8.239	0	4.742	99.75	0.03	0	0	0	0.08
2003	197	23	2781	339.842	-425.379	D	7.033	7.027	0.005	2.114	99.64	0.11	0	0	0	0.26
2003	198	23	2789	340.496	-426.449	D	7.16	7.155	0.005	2.375	99.83	0.05	0	0	0	0.17
2003	199	23	2468	334.002	-434.887	D	7.142	7.141	0.001	2.348	99.88	0.01	0	0	0	0.12
2003	200	23	1	318.65	-445.782	D	7.564	7.564	0	3.238	0	0	0	0	0	0
2003	201	23	1	318.65	-445.782	D	8.338	8.338	0	4.97	0	0	0	0	0	0
2003	202	23	1	318.65	-445.782	D	8.079	8.079	0	4.375	0	0	0	0	0	0
2003	203	23	2661	325.283	-432.004	D	8.272	7.707	**0.565**	3.547	97.57	2.31	0	0	0	0.13
2003	204	23	2589	318.383	-445.593	D	7.055	7.015	0.04	2.088	99.21	0.24	0	0	0	0.55
2003	205	23	1	318.65	-445.782	D	6.955	6.955	0	1.968	0	0	0	0	0	0
2003	206	23	1	318.65	-445.782	D	7.058	7.058	0	2.176	0	0	0	0	0	0
2003	207	23	1	318.65	-445.782	D	6.798	6.798	0	1.652	0	0	0	0	0	0
2003	208	23	1	318.65	-445.782	D	7.085	7.085	0	2.232	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.085	7.085	0	2.233	0	0	0	0	0	0
2003	210	23	2781	339.842	-425.379	D	8.45	8.415	0.034	5.151	99.78	0.16	0	0	0	0.05
2003	211	23	2781	339.842	-425.379	D	9.474	9.347	0.126	7.44	99.55	0.41	0	0	0	0.05
2003	212	23	2781	339.842	-425.379	D	7.663	7.605	0.058	3.327	99.76	0.16	0	0	0	0.08
2003	213	23	2789	340.496	-426.449	D	6.91	6.901	0.009	1.858	99.8	0.06	0	0	0	0.14
2003	214	23	2250	335.996	-427.285	D	7.674	7.672	0.002	3.471	99.93	0.03	0	0	0	0.09
2003	215	23	2758	335.862	-424.454	D	7.838	7.834	0.004	3.828	99.39	0.26	0	0	0	0.33
2003	216	23	2789	340.496	-426.449	D	7.809	7.718	0.091	3.573	99.25	0.63	0	0	0	0.12
2003	217	23	2788	340.294	-426.448	D	8.348	8.348	0	4.992	100.07	0.14	0	0	0	0.14

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	218	23	2589	318.383	-445.593	D	8.537	8.453	0.084	5.24	99.68	0.07	0	0	0	0.25
2003	219	23	2597	318.971	-443.851	D	8.606	8.443	0.164	5.214	99.8	0.13	0	0	0	0.07
2003	220	23	1	318.65	-445.782	D	7.094	7.094	0	2.25	0	0	0	0	0	0
2003	221	23	1	318.65	-445.782	D	6.977	6.977	0	2.01	0	0	0	0	0	0
2003	222	23	1	318.65	-445.782	D	7.162	7.162	0	2.39	0	0	0	0	0	0
2003	223	23	1	318.65	-445.782	D	7.272	7.272	0	2.62	0	0	0	0	0	0
2003	224	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	0	0	0	0	0	0
2003	225	23	1	318.65	-445.782	D	8.321	8.321	0	4.931	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	8.753	8.753	0	5.955	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.337	7.337	0	2.755	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.347	7.347	0	2.776	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	6.982	6.982	0	2.021	0	0	0	0	0	0
2003	230	23	2789	340.496	-426.449	D	6.904	6.901	0.003	1.859	99.5	0.02	0	0	0	0.5
2003	231	23	2789	340.496	-426.449	D	6.861	6.826	0.035	1.706	99.6	0.11	0	0	0	0.3
2003	232	23	2789	340.496	-426.449	D	6.909	6.86	0.05	1.775	99.66	0.13	0	0	0	0.21
2003	233	23	2789	340.496	-426.449	D	6.958	6.921	0.037	1.898	99.57	0.25	0	0	0	0.18
2003	234	23	2789	340.496	-426.449	D	7.162	7.113	0.049	2.289	99.72	0.09	0	0	0	0.19
2003	235	23	2789	340.496	-426.449	D	7.104	7.028	0.076	2.114	99.65	0.11	0	0	0	0.24
2003	236	23	2588	318.452	-445.8	D	8.611	8.515	0.096	5.385	99.5	0.4	0	0	0	0.09
2003	237	23	2653	324.014	-433.36	D	7.926	7.884	0.041	3.939	99.75	0.14	0	0	0	0.11
2003	238	23	2784	339.87	-426.019	D	7.386	7.375	0.011	2.835	99.83	0.04	0	0	0	0.12
2003	239	23	2781	339.842	-425.379	D	7.031	7.03	0.002	2.119	99.85	0.05	0	0	0	0.13
2003	240	23	1	318.65	-445.782	D	7.105	7.105	0	2.273	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	8.394	8.394	0	5.101	0	0	0	0	0	0
2003	242	23	2757	335.63	-424.484	D	9.245	9.245	0	7.177	97.86	0.23	0	0	0	0.04
2003	243	23	1415	329.185	-425.086	D	9.352	9.352	0	7.451	99.14	0.48	0	0	0	0.04
2003	244	23	1	318.65	-445.782	D	9.456	9.456	0	7.721	0	0	0	0	0	0
2003	245	23	1	318.65	-445.782	D	9.776	9.776	0	8.566	0	0	0	0	0	0
2003	246	23	1	318.65	-445.782	D	9.235	9.235	0	7.152	0	0	0	0	0	0
2003	247	23	2600	318.952	-443.12	D	7.88	7.678	0.202	3.485	98.59	1.29	0	0	0	0.12
2003	248	23	1	318.65	-445.782	D	6.736	6.736	0	1.529	0	0	0	0	0	0
2003	249	23	1	318.65	-445.782	D	6.844	6.844	0	1.743	0	0	0	0	0	0
2003	250	23	1	318.65	-445.782	D	6.929	6.929	0	1.915	0	0	0	0	0	0
2003	251	23	1	318.65	-445.782	D	7.063	7.063	0	2.187	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.368	7.368	0	2.821	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	8.253	8.253	0	4.773	0	0	0	0	0	0
2003	255	23	1	318.65	-445.782	D	9.962	9.962	0	9.071	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	9.428	9.428	0	7.649	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	257	23	2588	318.452	-445.8	D	9.218	8.74	0.479	5.924	86.98	12.8	0	0	0	0.21
2003	258	23	2789	340.496	-426.449	D	6.745	6.719	0.026	1.494	98.48	0.67	0	0	0	0.86
2003	259	23	2790	340.421	-426.562	D	6.656	6.645	0.011	1.349	98.91	0.41	0	0	0	0.66
2003	260	23	2781	339.842	-425.379	D	6.756	6.755	0.001	1.565	99.31	0.31	0	0	0	0.45
2003	261	23	1	318.65	-445.782	D	6.732	6.732	0	1.52	0	0	0	0	0	0
2003	262	23	2704	329.056	-425.092	D	7.969	7.909	0.06	3.994	85.72	13.64	0	0	0	0.64
2003	263	23	2628	320.933	-436.998	D	6.607	6.582	0.024	1.226	98.14	0.82	0	0	0	1.04
2003	264	23	1	318.65	-445.782	D	7.014	7.014	0	2.088	0	0	0	0	0	0
2003	265	23	1	318.65	-445.782	D	9.072	9.072	0	6.741	0	0	0	0	0	0
2003	266	23	2789	340.496	-426.449	D	6.908	6.897	0.012	1.849	94.71	3.09	0	0	0	2.2
2003	267	23	2789	340.496	-426.449	D	6.836	6.834	0.002	1.724	99.18	0.26	0	0	0	0.57
2003	268	23	2653	324.014	-433.36	D	6.868	6.847	0.021	1.749	97.28	2.03	0	0	0	0.69
2003	269	23	2468	334.002	-434.887	D	7.089	7.047	0.041	2.154	99.32	0.43	0	0	0	0.25
2003	270	23	2789	340.496	-426.449	D	7.493	7.479	0.015	3.055	88.67	10.77	0	0	0	0.54
2003	271	23	2704	329.056	-425.092	D	6.679	6.674	0.005	1.406	91.33	4.87	0	0	0	3.77
2003	272	23	2600	318.952	-443.12	D	6.535	6.531	0.004	1.125	83.61	13.36	0	0	0	3.03
2003	273	23	2781	339.842	-425.379	D	6.568	6.564	0.004	1.19	94.2	5.26	0	0	0	0.54
2003	274	23	2781	339.842	-425.379	D	8.54	8.436	0.105	5.198	95.71	4.23	0	0	0	0.06
2003	275	23	2597	318.971	-443.851	D	6.628	6.572	0.057	1.205	94.08	4.95	0	0	0	0.97
2003	276	23	2684	326.713	-427.014	D	7.128	7.117	0.012	2.297	98.41	0.95	0	0	0	0.61
2003	277	23	2758	335.862	-424.454	D	6.874	6.855	0.019	1.766	97.06	1.31	0	0	0	1.63
2003	278	23	2588	318.452	-445.8	D	7.315	7.273	0.041	2.622	97.4	2.07	0	0	0	0.53
2003	279	23	2597	318.971	-443.851	D	9.378	9.312	0.066	7.348	98.02	1.88	0	0	0	0.09
2003	280	23	2601	319.02	-442.895	D	7.857	7.852	0.004	3.868	99.6	0.26	0	0	0	0.13
2003	281	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	99.82	0.16	0	0	0	0.1
2003	282	23	1	318.65	-445.782	D	8.905	8.905	0	6.328	0	0	0	0	0	0
2003	283	23	1	318.65	-445.782	D	9.734	9.734	0	8.453	0	0	0	0	0	0
2003	284	23	1	318.65	-445.782	D	9.551	9.551	0	7.97	0	0	0	0	0	0
2003	285	23	2789	340.496	-426.449	D	7.915	7.891	0.024	3.954	87.42	11.99	0	0	0	0.59
2003	286	23	1	318.65	-445.782	D	6.944	6.944	0	1.944	0	0	0	0	0	0
2003	287	23	2789	340.496	-426.449	D	8.877	8.869	0.009	6.237	69.65	29.36	0	0	0	0.99
2003	288	23	2789	340.496	-426.449	D	6.722	6.713	0.009	1.483	92.58	5.09	0	0	0	2.33
2003	289	23	2781	339.842	-425.379	D	6.603	6.602	0.001	1.265	98.53	0.62	0	0	0	0.87
2003	290	23	2789	340.496	-426.449	D	8.136	8.079	0.057	4.375	95.96	4	0	0	0	0.04
2003	291	23	1	318.65	-445.782	D	6.622	6.622	0	1.303	0	0	0	0	0	0
2003	292	23	1	318.65	-445.782	D	6.595	6.595	0	1.251	0	0	0	0	0	0
2003	293	23	1	318.65	-445.782	D	6.677	6.677	0	1.412	0	0	0	0	0	0
2003	294	23	2781	339.842	-425.379	D	6.725	6.719	0.006	1.495	97.75	0.26	0	0	0	1.99
2003	295	23	2757	335.63	-424.484	D	6.867	6.71	0.156	1.478	97.71	0.85	0	0	0	1.44

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	296	23	2588	318.452	-445.8	D	6.615	6.61	0.005	1.28	98.91	0.12	0	0	0	0.97
2003	297	23	2789	340.496	-426.449	D	6.715	6.691	0.023	1.44	98.34	0.88	0	0	0	0.78
2003	298	23	2468	334.002	-434.887	D	8.26	7.989	0.271	4.173	95.51	4.23	0	0	0	0.27
2003	299	23	2781	339.842	-425.379	D	7.617	7.551	0.066	3.21	86.25	12.52	0	0	0	1.23
2003	300	23	2789	340.496	-426.449	D	6.549	6.541	0.008	1.146	92.84	6.06	0	0	0	1.11
2003	301	23	1	318.65	-445.782	D	6.598	6.598	0	1.258	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	6.533	6.533	0	1.13	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.414	7.414	0	2.919	0	0	0	0	0	0
2003	304	23	2709	330.21	-424.978	D	9.049	9.049	0	6.684	98.15	1.83	0	0	0	0.17
2003	305	23	2704	329.056	-425.092	D	9.873	9.466	0.407	7.748	94.76	5.09	0	0	0	0.15
2003	306	23	1	318.65	-445.782	D	8.79	8.79	0	6.045	0	0	0	0	0	0
2003	307	23	1	318.65	-445.782	D	7.877	7.877	0	3.922	0	0	0	0	0	0
2003	308	23	1	318.65	-445.782	D	7.389	7.389	0	2.864	0	0	0	0	0	0
2003	309	23	2765	336.728	-425.072	D	8.247	8.075	0.171	4.367	90.26	9.4	0	0	0	0.34
2003	310	23	2571	322.646	-445.476	D	9.458	9.017	0.441	6.605	94.2	5.74	0	0	0	0.06
2003	311	23	1	318.65	-445.782	D	7.749	7.749	0	3.641	0	0	0	0	0	0
2003	312	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	6.51	6.51	0	1.085	0	0	0	0	0	0
2003	314	23	1	318.65	-445.782	D	6.616	6.616	0	1.292	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	8.07	8.07	0	4.354	0	0	0	0	0	0
2003	316	23	1	318.65	-445.782	D	9.37	9.37	0	7.497	0	0	0	0	0	0
2003	317	23	2789	340.496	-426.449	D	6.509	6.495	0.014	1.057	82.69	13.43	0	0	0	3.88
2003	318	23	2789	340.496	-426.449	D	7.004	6.957	0.047	1.97	86.31	12.42	0	0	0	1.26
2003	319	23	1	318.65	-445.782	D	8.304	8.304	0	4.891	0	0	0	0	0	0
2003	320	23	1	318.65	-445.782	D	9.626	9.626	0	8.168	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	10.088	10.088	0	9.417	0	0	0	0	0	0
2003	322	23	2597	318.971	-443.851	D	10.324	9.909	0.415	8.925	96.22	3.68	0	0	0	0.1
2003	323	23	2597	318.971	-443.851	D	7.75	7.433	0.317	2.959	92.88	6.85	0	0	0	0.27
2003	324	23	1	318.65	-445.782	D	6.656	6.656	0	1.371	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	9.817	9.817	0	8.677	0	0	0	0	0	0
2003	327	23	1	318.65	-445.782	D	9.125	9.125	0	6.874	0	0	0	0	0	0
2003	328	23	1	318.65	-445.782	D	7.264	7.264	0	2.603	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	6.515	6.515	0	1.095	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.434	7.434	0	2.961	0	0	0	0	0	0
2003	331	23	2589	318.383	-445.593	D	9.379	9.185	0.194	7.026	87.89	11.93	0	0	0	0.18
2003	332	23	2684	326.713	-427.014	D	6.857	6.832	0.025	1.72	82.36	15.99	0	0	0	1.65
2003	333	23	1	318.65	-445.782	D	6.494	6.494	0	1.054	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	6.588	6.588	0	1.237	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	335	23	2695	328.074	-426.025	D	6.674	6.66	0.014	1.379	82.65	15.21	0	0	0	2.13
2003	336	23	1	318.65	-445.782	D	6.513	6.513	0	1.092	0	0	0	0	0	0
2003	337	23	1	318.65	-445.782	D	7.872	7.872	0	3.912	0	0	0	0	0	0
2003	338	23	2708	329.979	-425	D	9.356	9.209	0.147	7.085	90.39	9.32	0	0	0	0.28
2003	339	23	2789	340.496	-426.449	D	8.514	8.486	0.028	5.316	90.34	9.53	0	0	0	0.13
2003	340	23	2789	340.496	-426.449	D	7.918	7.817	0.101	3.79	77.86	21.22	0	0	0	0.92
2003	341	23	2589	318.383	-445.593	D	6.652	6.652	0.001	1.362	87.8	11.12	0	0	0	1.05
2003	342	23	1	318.65	-445.782	D	8.111	8.111	0	4.449	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	10.155	10.155	0	9.603	0	0	0	0	0	0
2003	344	23	2758	335.862	-424.454	D	8.906	8.9	0.006	6.315	88.81	11	0	0	0	0.2
2003	345	23	2781	339.842	-425.379	D	7.555	7.534	0.02	3.175	75.16	22.54	0	0	0	2.29
2003	346	23	2781	339.842	-425.379	D	6.895	6.844	0.051	1.742	84.02	15.18	0	0	0	0.79
2003	347	23	1046	326.812	-427.688	D	9.592	9.591	0	8.076	87.52	9.96	0	0	0	0.56
2003	348	23	1	318.65	-445.782	D	9.425	9.425	0	7.641	0	0	0	0	0	0
2003	349	23	1	318.65	-445.782	D	9.203	9.203	0	7.071	0	0	0	0	0	0
2003	350	23	1	318.65	-445.782	D	8.775	8.775	0	6.01	0	0	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.444	7.444	0	2.982	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	6.918	6.918	0	1.892	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.467	7.467	0	3.031	0	0	0	0	0	0
2003	354	23	2789	340.496	-426.449	D	6.62	6.619	0.001	1.298	87.84	10.48	0	0	0	1.48
2003	355	23	2789	340.496	-426.449	D	6.61	6.609	0	1.278	89.73	9.6	0	0	0	1.01
2003	356	23	1	318.65	-445.782	D	9.46	9.46	0	7.73	0	0	0	0	0	0
2003	357	23	2704	329.056	-425.092	D	9.569	9.464	0.105	7.742	83.06	16.66	0	0	0	0.27
2003	358	23	2789	340.496	-426.449	D	8.782	8.544	0.237	5.455	83.79	15.97	0	0	0	0.24
2003	359	23	2597	318.971	-443.851	D	6.595	6.575	0.02	1.212	87.31	11.72	0	0	0	0.97
2003	360	23	2781	339.842	-425.379	D	6.845	6.845	0	1.745	89.76	9.9	0	0	0	0.32
2003	361	23	1	318.65	-445.782	D	6.753	6.753	0	1.562	0	0	0	0	0	0
2003	362	23	1	318.65	-445.782	D	8.719	8.719	0	5.874	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.299	7.299	0	2.675	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	6.566	6.566	0	1.194	0	0	0	0	0	0
									0.589							
MARSHALL											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	6.999	6.999	0	2.056	0	0	0	0	0	0
2003	2	23	2705	329.287	-425.069	D	9.344	9.327	0.017	7.386	67.74	31.57	0	0	0	0.69
2003	3	23	1	318.65	-445.782	D	7.872	7.872	0	3.912	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	4	23	1	318.65	-445.782	D	6.784	6.784	0	1.624	0	0	0	0	0	0
2003	5	23	1	318.65	-445.782	D	7.26	7.26	0	2.595	0	0	0	0	0	0
2003	6	23	2789	340.496	-426.449	D	8.287	8.238	0.049	4.738	59.61	39.08	0	0	0	1.31
2003	7	23	2781	339.842	-425.379	D	7.535	7.443	0.091	2.98	75.76	23.69	0	0	0	0.55
2003	8	23	1	318.65	-445.782	D	6.71	6.71	0	1.477	0	0	0	0	0	0
2003	9	23	2704	329.056	-425.092	D	6.972	6.967	0.005	1.991	85.52	11.86	0	0	0	2.63
2003	10	23	2571	322.646	-445.476	D	6.587	6.587	0	1.234	83.71	15.2	0	0	0	1.2
2003	11	23	1	318.65	-445.782	D	6.549	6.549	0	1.161	0	0	0	0	0	0
2003	12	23	2789	340.496	-426.449	D	6.503	6.499	0.004	1.064	68.24	29.85	0	0	0	1.89
2003	13	23	2789	340.496	-426.449	D	6.7	6.699	0.001	1.456	72.33	26.25	0	0	0	1.37
2003	14	23	2789	340.496	-426.449	D	9.151	9.15	0.001	6.938	81.75	17.75	0	0	0	0.39
2003	15	23	2789	340.496	-426.449	D	6.654	6.623	0.032	1.305	66.76	31.21	0	0	0	2.02
2003	16	23	2597	318.971	-443.851	D	8.335	8.256	0.078	4.78	77.73	22.02	0	0	0	0.25
2003	17	23	1	318.65	-445.782	D	7.905	7.905	0	3.985	0	0	0	0	0	0
2003	18	23	1	318.65	-445.782	D	6.57	6.57	0	1.203	0	0	0	0	0	0
2003	19	23	1	318.65	-445.782	D	6.651	6.651	0	1.361	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	6.624	6.624	0	1.308	0	0	0	0	0	0
2003	21	23	2708	329.979	-425	D	7.553	7.527	0.025	3.159	74.31	25.53	0	0	0	0.17
2003	22	23	1	318.65	-445.782	D	7.405	7.405	0	2.899	99.33	22.52	0	0	0	0.31
2003	23	23	2781	339.842	-425.379	D	7.013	6.964	0.05	1.984	82.42	17.26	0	0	0	0.32
2003	24	23	2789	340.496	-426.449	D	6.65	6.635	0.015	1.33	75.01	24.06	0	0	0	0.92
2003	25	23	2789	340.496	-426.449	D	6.502	6.5	0.001	1.067	77.45	21.66	0	0	0	0.86
2003	26	23	2789	340.496	-426.449	D	7.199	7.197	0.002	2.463	70.4	28.16	0	0	0	1.45
2003	27	23	2789	340.496	-426.449	D	6.845	6.794	0.051	1.644	72.83	26.47	0	0	0	0.7
2003	28	23	2417	339.654	-425.626	D	7.966	7.966	0	4.122	73.78	20.38	0	0	0	0.28
2003	29	23	2694	327.861	-425.964	D	10.081	9.793	0.289	8.612	81.75	18.15	0	0	0	0.1
2003	30	23	13	319.06	-443.766	D	9.151	9.151	0	6.94	88.09	13.52	0	0	0	0.05
2003	31	23	1	318.65	-445.782	D	7.121	7.121	0	2.306	0	0	0	0	0	0
2003	32	23	1	318.65	-445.782	D	6.936	6.936	0	1.929	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	6.87	6.87	0	1.795	0	0	0	0	0	0
2003	34	23	2706	329.518	-425.046	D	9.487	9.484	0.003	7.793	83.14	16.73	0	0	0	0.09
2003	35	23	1	318.65	-445.782	D	7.1	7.1	0	2.263	0	0	0	0	0	0
2003	36	23	2789	340.496	-426.449	D	6.564	6.563	0.001	1.189	75.4	22.37	0	0	0	2.22
2003	37	23	2758	335.862	-424.454	D	9.25	9.191	0.059	7.041	82.78	17.07	0	0	0	0.14
2003	38	23	2684	326.713	-427.014	D	8.135	8.001	0.135	4.199	79.51	20.29	0	0	0	0.19
2003	39	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2003	40	23	1	318.65	-445.782	D	7.657	7.657	0	3.439	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	9.339	9.339	0	7.418	0	0	0	0	0	0
2003	42	23	2781	339.842	-425.379	D	6.778	6.778	0	1.611	72.92	23.8	0	0	0	2.76

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	43	23	2789	340.496	-426.449	D	6.522	6.521	0.001	1.107	67.69	28.5	0	0	0	3.94
2003	44	23	2789	340.496	-426.449	D	6.612	6.61	0.001	1.281	78.79	19.44	0	0	0	1.75
2003	45	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2003	46	23	1	318.65	-445.782	D	10.176	10.176	0	9.662	0	0	0	0	0	0
2003	47	23	2597	318.971	-443.851	D	8.628	8.625	0.003	5.648	85.02	14.76	0	0	0	0.28
2003	48	23	2626	320.826	-437.417	D	8.197	8.196	0	4.643	87.52	11.11	0	0	0	0.9
2003	49	23	2762	336.074	-425.006	D	7.025	6.987	0.038	2.033	87.5	12.11	0	0	0	0.39
2003	50	23	2704	329.056	-425.092	D	9.252	9.213	0.039	7.097	89.62	10.29	0	0	0	0.09
2003	51	23	2704	329.056	-425.092	D	9.595	9.524	0.071	7.899	84.4	15.51	0	0	0	0.09
2003	52	23	2684	326.713	-427.014	D	9.725	9.716	0.009	8.405	93.25	6.66	0	0	0	0.07
2003	53	23	2626	320.826	-437.417	D	9.547	9.454	0.092	7.717	82.02	17.64	0	0	0	0.33
2003	54	23	2600	318.952	-443.12	D	8.931	8.853	0.078	6.2	77.85	21.88	0	0	0	0.27
2003	55	23	2600	318.952	-443.12	D	8.51	8.438	0.072	5.204	83.51	16.41	0	0	0	0.09
2003	56	23	2588	318.452	-445.8	D	7.567	7.488	0.08	3.075	80.52	19.02	0	0	0	0.47
2003	57	23	2628	320.933	-436.998	D	8.766	8.658	0.109	5.725	87.23	12.65	0	0	0	0.12
2003	58	23	2684	326.713	-427.014	D	8.812	8.768	0.045	5.991	90.13	9.77	0	0	0	0.09
2003	59	23	2600	318.952	-443.12	D	9.018	8.962	0.056	6.467	91.93	8	0	0	0	0.07
2003	60	23	2704	329.056	-425.092	D	9.766	9.651	0.114	8.233	92.65	7.3	0	0	0	0.06
2003	61	23	2781	339.842	-425.379	D	9.425	9.119	0.306	6.86	92.7	7.25	0	0	0	0.05
2003	62	23	2789	340.496	-426.449	D	7.377	7.373	0.003	2.832	94.37	5.19	0	0	0	0.41
2003	63	23	2789	340.496	-426.449	D	6.992	6.99	0.002	2.037	92.22	7.26	0	0	0	0.45
2003	64	23	2758	335.862	-424.454	D	9.526	9.059	0.467	6.709	79.33	20.45	0	0	0	0.22
2003	65	23	2789	340.496	-426.449	D	7.987	7.573	0.414	3.258	85.05	14.69	0	0	0	0.26
2003	66	23	2789	340.496	-426.449	D	6.964	6.945	0.019	1.946	90.76	8.81	0	0	0	0.43
2003	67	23	2412	339.417	-425.886	D	7.068	7.068	0	2.196	93.84	1.88	0	0	0	0.38
2003	68	23	2448	335.908	-431.021	D	7.118	7.093	0.025	2.247	73	26.56	0	0	0	0.44
2003	69	23	2155	334.883	-424.586	D	6.548	6.548	0	1.16	56.01	38.97	0	0	0	2.67
2003	70	23	2684	326.713	-427.014	D	6.553	6.552	0	1.168	89.04	10.32	0	0	0	0.71
2003	71	23	1242	327.988	-426.138	D	7.133	7.133	0	2.331	90.72	6.75	0	0	0	0.53
2003	72	23	2781	339.842	-425.379	D	8.763	8.571	0.192	5.518	94.65	4.93	0	0	0	0.42
2003	73	23	2588	318.452	-445.8	D	8.724	8.6	0.125	5.587	94.78	5.01	0	0	0	0.21
2003	74	23	2684	326.713	-427.014	D	8.151	8.138	0.013	4.509	94.54	5.32	0	0	0	0.13
2003	75	23	1414	329.196	-425.335	D	7.29	7.289	0	2.656	98.52	0.56	0	0	0	0.34
2003	76	23	1	318.65	-445.782	D	8.644	8.644	0	5.692	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	8.653	8.653	0	5.713	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	8.871	8.871	0	6.244	0	0	0	0	0	0
2003	79	23	2684	326.713	-427.014	D	9.747	9.196	**0.551**	7.054	89	10.91	0	0	0	0.09
2003	80	23	2789	340.496	-426.449	D	9.104	8.841	0.263	6.169	88.93	10.98	0	0	0	0.09
2003	81	23	1	318.65	-445.782	D	6.545	6.545	0	1.154	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	82	23	1	318.65	-445.782	D	6.586	6.586	0	1.234	0	0	0	0	0	0
2003	83	23	1	318.65	-445.782	D	6.82	6.82	0	1.696	0	0	0	0	0	0
2003	84	23	2758	335.862	-424.454	D	7.747	7.681	0.066	3.492	91.45	8.23	0	0	0	0.32
2003	85	23	2789	340.496	-426.449	D	8.848	8.836	0.012	6.157	91.48	8.43	0	0	0	0.09
2003	86	23	2274	336.179	-425.778	D	6.607	6.607	0	1.274	81.83	1.45	0	0	0	0.3
2003	87	23	1	318.65	-445.782	D	8.676	8.676	0	5.769	0	0	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.301	7.301	0	2.679	0	0	0	0	0	0
2003	89	23	1	318.65	-445.782	D	6.525	6.525	0	1.115	0	0	0	0	0	0
2003	90	23	1	318.65	-445.782	D	6.478	6.478	0	1.023	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	6.547	6.547	0	1.157	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	6.893	6.893	0	1.842	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.231	7.231	0	2.533	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	8.075	8.075	0	4.366	0	0	0	0	0	0
2003	95	23	2789	340.496	-426.449	D	6.784	6.784	0	1.624	96.47	1.97	0	0	0	1.32
2003	96	23	2781	339.842	-425.379	D	8.061	8.057	0.004	4.325	92.84	6.4	0	0	0	0.74
2003	97	23	1	318.65	-445.782	D	9.082	9.082	0	6.766	0	0	0	0	0	0
2003	98	23	2789	340.496	-426.449	D	7.442	7.431	0.011	2.955	90.29	9.64	0	0	0	0.07
2003	99	23	2758	335.862	-424.454	D	7.119	7.055	0.064	2.17	60.62	38.15	0	0	0	1.23
2003	100	23	2589	318.383	-445.593	D	6.59	6.581	0.009	1.223	92.03	6.71	0	0	0	1.26
2003	101	23	2588	318.452	-445.8	D	6.503	6.48	0.023	1.028	97.79	1.39	0	0	0	0.82
2003	102	23	2574	321.906	-445.534	D	6.517	6.496	0.021	1.058	98.69	0.61	0	0	0	0.69
2003	103	23	2789	340.496	-426.449	D	6.53	6.525	0.004	1.115	99.18	0.23	0	0	0	0.58
2003	104	23	2789	340.496	-426.449	D	6.651	6.65	0.001	1.359	99.34	0.3	0	0	0	0.45
2003	105	23	2274	336.179	-425.778	D	6.627	6.627	0	1.313	89.1	0.04	0	0	0	0.4
2003	106	23	1	318.65	-445.782	D	6.669	6.669	0	1.396	0	0	0	0	0	0
2003	107	23	2758	335.862	-424.454	D	7.656	7.621	0.034	3.362	88.23	11.65	0	0	0	0.12
2003	108	23	2788	340.294	-426.448	D	7.823	7.822	0	3.802	96.58	0.09	0	0	0	0.47
2003	109	23	2407	339.18	-426.146	D	7.559	7.559	0	3.227	96.91	0.22	0	0	0	0.29
2003	110	23	1	318.65	-445.782	D	9.045	9.045	0	6.674	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.014	7.014	0	2.087	0	0	0	0	0	0
2003	112	23	2789	340.496	-426.449	D	6.544	6.541	0.003	1.147	90.13	7.09	0	0	0	2.77
2003	113	23	2475	332.385	-435.333	D	6.598	6.591	0.007	1.242	95.93	3.16	0	0	0	0.89
2003	114	23	1	318.65	-445.782	D	8.02	8.02	0	4.243	0	0	0	0	0	0
2003	115	23	2611	319.699	-440.64	D	8.585	8.341	0.244	4.977	85.72	14.08	0	0	0	0.2
2003	116	23	2781	339.842	-425.379	D	8.43	8.336	0.094	4.966	84.67	15.17	0	0	0	0.17
2003	117	23	2599	318.958	-443.364	D	7.062	7.057	0.004	2.175	97.19	2.51	0	0	0	0.25
2003	118	23	1241	327.999	-426.387	D	7.437	7.437	0	2.968	92.04	0.09	0	0	0	0.37
2003	119	23	1044	326.834	-428.186	D	7.415	7.415	0	2.92	90.87	0.37	0	0	0	0.19
2003	120	23	1	318.65	-445.782	D	7.985	7.985	0	4.163	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	121	23	1242	327.988	-426.138	D	7.753	7.753	0	3.649	100.16	1.06	0	0	0	0.23
2003	122	23	2758	335.862	-424.454	D	8.914	8.84	0.074	6.167	97.03	2.38	0	0	0	0.59
2003	123	23	2628	320.933	-436.998	D	8.945	8.511	0.435	5.375	95.16	4.68	0	0	0	0.16
2003	124	23	2255	335.942	-426.039	D	7.352	7.318	0.033	2.716	99.44	0.42	0	0	0	0.13
2003	125	23	1	318.65	-445.782	D	8.789	8.789	0	6.042	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	8.385	8.385	0	5.081	0	0	0	0	0	0
2003	127	23	2704	329.056	-425.092	D	8.634	8.618	0.017	5.629	96.12	3.56	0	0	0	0.32
2003	128	23	2758	335.862	-424.454	D	8.014	8.011	0.004	4.221	99.16	0.49	0	0	0	0.38
2003	129	23	1	318.65	-445.782	D	7.642	7.642	0	3.407	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	8.486	8.486	0	5.317	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.409	7.409	0	2.907	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	6.899	6.899	0	1.854	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	9.399	9.399	0	7.572	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	8.763	8.763	0	5.98	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	9.31	9.31	0	7.344	0	0	0	0	0	0
2003	137	23	2781	339.842	-425.379	D	9.383	9.371	0.012	7.5	99.43	0.39	0	0	0	0.16
2003	138	23	2628	320.933	-436.998	D	9.288	9.093	0.194	6.795	97.23	2.72	0	0	0	0.05
2003	139	23	2600	318.952	-443.12	D	8.837	8.783	0.054	6.027	98.6	1.34	0	0	0	0.06
2003	140	23	2684	326.713	-427.014	D	8.564	8.269	0.295	4.81	83.72	16.08	0	0	0	0.2
2003	141	23	2571	322.646	-445.476	D	6.718	6.718	0	1.492	98.15	1.69	0	0	0	0.16
2003	142	23	2627	320.879	-437.207	D	7.186	7.186	0	2.44	97.87	1.25	0	0	0	0.66
2003	143	23	2694	327.861	-425.964	D	6.696	6.691	0.005	1.439	98.86	0.54	0	0	0	0.59
2003	144	23	2707	329.748	-425.023	D	7.873	7.84	0.033	3.841	98.53	1.26	0	0	0	0.21
2003	145	23	2694	327.861	-425.964	D	9.501	9.205	0.296	7.075	96.46	3.44	0	0	0	0.1
2003	146	23	2597	318.971	-443.851	D	8.134	8.096	0.038	4.414	99.51	0.36	0	0	0	0.13
2003	147	23	2704	329.056	-425.092	D	6.65	6.649	0.001	1.357	98.21	0.14	0	0	0	1.51
2003	148	23	2762	336.074	-425.006	D	6.641	6.607	0.033	1.275	98.71	0.65	0	0	0	0.64
2003	149	23	2788	340.294	-426.448	D	7.286	7.286	0	2.649	99.2	0.06	0	0	0	0.43
2003	150	23	2789	340.496	-426.449	D	6.617	6.617	0	1.293	97.9	1.09	0	0	0	0.94
2003	151	23	2789	340.496	-426.449	D	7.24	7.231	0.009	2.534	98.63	0.21	0	0	0	1.17
2003	152	23	2589	318.383	-445.593	D	7.117	7.102	0.015	2.267	98.81	0.73	0	0	0	0.47
2003	153	23	2684	326.713	-427.014	D	8.69	8.688	0.002	5.799	99.37	0.48	0	0	0	0.06
2003	154	23	2781	339.842	-425.379	D	9.323	9.118	0.205	6.857	89.64	10.27	0	0	0	0.09
2003	155	23	2781	339.842	-425.379	D	7.833	7.715	0.119	3.565	94.15	5.5	0	0	0	0.35
2003	156	23	2704	329.056	-425.092	D	6.876	6.811	0.065	1.678	98.97	0.55	0	0	0	0.48
2003	157	23	2704	329.056	-425.092	D	8.843	8.823	0.02	6.125	97.94	1.96	0	0	0	0.1
2003	158	23	2789	340.496	-426.449	D	7.564	7.56	0.003	3.23	97.88	1.94	0	0	0	0.16
2003	159	23	2789	340.496	-426.449	D	7.15	7.15	0.001	2.365	99.55	0.13	0	0	0	0.17

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	160	23	1	318.65	-445.782	D	6.621	6.621	0	1.301	0	0	0	0	0	0
2003	161	23	1	318.65	-445.782	D	7.499	7.499	0	3.098	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	8.817	8.817	0	6.112	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	8.874	8.874	0	6.251	0	0	0	0	0	0
2003	164	23	2704	329.056	-425.092	D	9.219	9.212	0.007	7.095	99.58	0.19	0	0	0	0.21
2003	165	23	2627	320.879	-437.207	D	8.327	8.262	0.065	4.794	97.44	2.48	0	0	0	0.08
2003	166	23	2588	318.452	-445.8	D	8.282	8.279	0.004	4.833	98.48	1.39	0	0	0	0.08
2003	167	23	2789	340.496	-426.449	D	8.122	8.117	0.005	4.462	98.95	0.95	0	0	0	0.08
2003	168	23	375	322.611	-445.359	D	7.648	7.645	0.003	3.413	98.35	1.57	0	0	0	0.09
2003	169	23	2588	318.452	-445.8	D	8.947	8.946	0.002	6.427	99.48	0.49	0	0	0	0.04
2003	170	23	2707	329.748	-425.023	D	8.531	8.516	0.015	5.387	99.32	0.21	0	0	0	0.46
2003	171	23	2709	330.21	-424.978	D	9.23	8.408	**0.823**	5.133	93.68	6.23	0	0	0	0.09
2003	172	23	2589	318.383	-445.593	D	6.98	6.969	0.01	1.995	99.55	0.19	0	0	0	0.26
2003	173	23	1	318.65	-445.782	D	6.92	6.92	0	1.897	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.108	7.108	0	2.279	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.784	7.784	0	3.718	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	8.399	8.399	0	5.113	0	0	0	0	0	0
2003	177	23	1	318.65	-445.782	D	8.699	8.699	0	5.825	0	0	0	0	0	0
2003	178	23	2468	334.002	-434.887	D	6.859	6.843	0.016	1.741	96.64	2.32	0	0	0	1.05
2003	179	23	2588	318.452	-445.8	D	6.656	6.647	0.009	1.353	98.95	0.34	0	0	0	0.71
2003	180	23	2694	327.861	-425.964	D	6.721	6.719	0.003	1.494	99.28	0.21	0	0	0	0.46
2003	181	23	1552	330.178	-425.042	D	7.095	7.095	0.001	2.252	98.61	0.82	0	0	0	0.28
2003	182	23	2182	335.131	-424.575	D	8.821	8.821	0	6.12	97.03	0.65	0	0	0	0.11
2003	183	23	2276	336.157	-425.28	D	7.56	7.56	0	3.23	98.71	0.37	0	0	0	0.17
2003	184	23	2780	339.614	-425.419	D	7.374	7.374	0	2.832	97.93	0.07	0	0	0	0.17
2003	185	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	8.318	8.318	0	4.923	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.086	7.086	0	2.234	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.739	7.739	0	3.619	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	8.593	8.593	0	5.571	0	0	0	0	0	0
2003	192	23	1	318.65	-445.782	D	7.285	7.285	0	2.647	0	0	0	0	0	0
2003	193	23	2789	340.496	-426.449	D	7.846	7.846	0	3.853	100.15	0.11	0	0	0	0.53
2003	194	23	2784	339.87	-426.019	D	7.263	7.246	0.018	2.564	98.96	0.66	0	0	0	0.38
2003	195	23	2781	339.842	-425.379	D	8.507	8.448	0.059	5.227	98.82	1.07	0	0	0	0.11
2003	196	23	2155	334.883	-424.586	D	8.174	8.174	0	4.592	92.28	0.03	0	0	0	0.18
2003	197	23	1	318.65	-445.782	D	6.957	6.957	0	1.972	0	0	0	0	0	0
2003	198	23	2789	340.496	-426.449	D	7.161	7.155	0.006	2.375	99.54	0.14	0	0	0	0.34

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	199	23	2468	334.002	-434.887	D	7.142	7.141	0.001	2.348	99.85	0.03	0	0	0	0.27
2003	200	23	1	318.65	-445.782	D	7.564	7.564	0	3.238	0	0	0	0	0	0
2003	201	23	2781	339.842	-425.379	D	8.559	8.558	0.001	5.488	98.76	1.01	0	0	0	0.05
2003	202	23	2209	335.38	-424.564	D	8.102	8.102	0	4.428	97.51	0.61	0	0	0	0.05
2003	203	23	2789	340.496	-426.449	D	7.701	7.677	0.025	3.482	89.39	10.17	0	0	0	0.44
2003	204	23	2789	340.496	-426.449	D	7.067	7.04	0.027	2.139	96.56	2.61	0	0	0	0.83
2003	205	23	2623	320.666	-438.044	D	6.978	6.962	0.016	1.982	99.08	0.3	0	0	0	0.62
2003	206	23	2694	327.861	-425.964	D	7.11	7.106	0.004	2.275	99.56	0.12	0	0	0	0.35
2003	207	23	1	318.65	-445.782	D	6.798	6.798	0	1.652	0	0	0	0	0	0
2003	208	23	1	318.65	-445.782	D	7.085	7.085	0	2.232	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.085	7.085	0	2.233	0	0	0	0	0	0
2003	210	23	2709	330.21	-424.978	D	8.506	8.382	0.124	5.073	97.7	2.2	0	0	0	0.09
2003	211	23	2781	339.842	-425.379	D	9.621	9.347	0.273	7.44	98.05	1.88	0	0	0	0.07
2003	212	23	2789	340.496	-426.449	D	7.71	7.607	0.103	3.331	99.1	0.76	0	0	0	0.14
2003	213	23	2781	339.842	-425.379	D	6.93	6.901	0.029	1.857	99.46	0.31	0	0	0	0.23
2003	214	23	2210	335.901	-430.787	D	7.676	7.672	0.004	3.471	99.79	0.07	0	0	0	0.1
2003	215	23	1	318.65	-445.782	D	7.59	7.59	0	3.294	0	0	0	0	0	0
2003	216	23	2781	339.842	-425.379	D	7.664	7.664	0	3.454	97.62	0.67	0	0	0	0.39
2003	217	23	2789	340.496	-426.449	D	8.35	8.348	0.003	4.992	99.17	0.62	0	0	0	0.19
2003	218	23	2693	327.829	-426.17	D	8.675	8.602	0.073	5.592	97.96	1.81	0	0	0	0.22
2003	219	23	2589	318.383	-445.593	D	8.544	8.421	0.123	5.163	99.16	0.66	0	0	0	0.17
2003	220	23	2589	318.383	-445.593	D	7.095	7.094	0.002	2.25	98.69	0.36	0	0	0	1
2003	221	23	2589	318.383	-445.593	D	6.979	6.977	0.002	2.01	98.69	0.3	0	0	0	0.98
2003	222	23	2589	318.383	-445.593	D	7.169	7.162	0.006	2.39	99.27	0.09	0	0	0	0.67
2003	223	23	2588	318.452	-445.8	D	7.297	7.272	0.025	2.62	99.36	0.35	0	0	0	0.28
2003	224	23	1	318.65	-445.782	D	7.207	7.207	0	2.483	98.6	0.66	0	0	0	0.25
2003	225	23	1	318.65	-445.782	D	8.321	8.321	0	4.931	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	8.753	8.753	0	5.955	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.337	7.337	0	2.755	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.347	7.347	0	2.776	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	6.982	6.982	0	2.021	0	0	0	0	0	0
2003	230	23	2789	340.496	-426.449	D	6.903	6.901	0.002	1.859	99.27	0.04	0	0	0	0.72
2003	231	23	2789	340.496	-426.449	D	6.838	6.826	0.013	1.706	99.45	0.15	0	0	0	0.4
2003	232	23	2789	340.496	-426.449	D	6.871	6.86	0.012	1.775	99.41	0.3	0	0	0	0.28
2003	233	23	2789	340.496	-426.449	D	6.928	6.921	0.007	1.898	99.31	0.44	0	0	0	0.25
2003	234	23	2789	340.496	-426.449	D	7.121	7.113	0.008	2.289	99.61	0.2	0	0	0	0.19
2003	235	23	2708	329.979	-425	D	7.109	7.028	0.081	2.115	99.31	0.19	0	0	0	0.5
2003	236	23	2589	318.383	-445.593	D	8.686	8.515	0.171	5.385	98.4	1.44	0	0	0	0.15
2003	237	23	2684	326.713	-427.014	D	7.92	7.846	0.074	3.854	99.58	0.25	0	0	0	0.17

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	238	23	2708	329.979	-425	D	7.358	7.352	0.006	2.787	99.8	0.04	0	0	0	0.19
2003	239	23	2781	339.842	-425.379	D	7.03	7.03	0	2.119	99.46	0.08	0	0	0	0.17
2003	240	23	1	318.65	-445.782	D	7.105	7.105	0	2.273	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	8.394	8.394	0	5.101	0	0	0	0	0	0
2003	242	23	2779	339.386	-425.461	D	9.233	9.233	0	7.147	99.91	0.44	0	0	0	0.06
2003	243	23	2756	335.398	-424.515	D	9.353	9.353	0	7.454	97.87	1.65	0	0	0	0.05
2003	244	23	1	318.65	-445.782	D	9.456	9.456	0	7.721	0	0	0	0	0	0
2003	245	23	2589	318.383	-445.593	D	9.791	9.776	0.015	8.566	99.2	0.69	0	0	0	0.11
2003	246	23	2588	318.452	-445.8	D	9.258	9.235	0.023	7.152	98.23	1.71	0	0	0	0.06
2003	247	23	2447	336.137	-430.956	D	8.325	7.699	**0.626**	3.531	91.69	8.12	0	0	0	0.2
2003	248	23	2588	318.452	-445.8	D	6.736	6.736	0	1.529	81.99	0.12	0	0	0	1.28
2003	249	23	1	318.65	-445.782	D	6.844	6.844	0	1.743	0	0	0	0	0	0
2003	250	23	1	318.65	-445.782	D	6.929	6.929	0	1.915	0	0	0	0	0	0
2003	251	23	1	318.65	-445.782	D	7.063	7.063	0	2.187	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.368	7.368	0	2.821	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	8.253	8.253	0	4.773	0	0	0	0	0	0
2003	255	23	1	318.65	-445.782	D	9.962	9.962	0	9.071	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	9.428	9.428	0	7.649	0	0	0	0	0	0
2003	257	23	2762	336.074	-425.006	D	9.172	8.651	**0.521**	5.708	89.99	9.91	0	0	0	0.1
2003	258	23	1	318.65	-445.782	D	6.717	6.717	0	1.49	0	0	0	0	0	0
2003	259	23	2789	340.496	-426.449	D	6.648	6.645	0.003	1.349	98.48	0.6	0	0	0	0.88
2003	260	23	2781	339.842	-425.379	D	6.758	6.755	0.003	1.565	98.73	0.73	0	0	0	0.56
2003	261	23	2235	335.628	-424.554	D	6.77	6.77	0	1.596	99.29	0.33	0	0	0	0.34
2003	262	23	1	318.65	-445.782	D	7.776	7.776	0	3.698	0	0	0	0	0	0
2003	263	23	2781	339.842	-425.379	D	6.631	6.588	0.043	1.236	96.25	2.87	0	0	0	0.87
2003	264	23	2684	326.713	-427.014	D	7.045	7.043	0.002	2.146	98.99	0.33	0	0	0	0.65
2003	265	23	1	318.65	-445.782	D	9.072	9.072	0	6.741	0	0	0	0	0	0
2003	266	23	1	318.65	-445.782	D	6.857	6.857	0	1.769	0	0	0	0	0	0
2003	267	23	2788	340.294	-426.448	D	6.834	6.834	0	1.724	108.39	1.03	0	0	0	0.83
2003	268	23	2469	333.771	-434.951	D	6.865	6.85	0.015	1.755	91.08	7.53	0	0	0	1.39
2003	269	23	2468	334.002	-434.887	D	7.063	7.047	0.016	2.154	98.49	1.18	0	0	0	0.33
2003	270	23	2684	326.713	-427.014	D	7.478	7.461	0.017	3.018	78.28	20.6	0	0	0	1.1
2003	271	23	2789	340.496	-426.449	D	6.681	6.681	0	1.419	72.68	23.35	0	0	0	4.29
2003	272	23	2588	318.452	-445.8	D	6.532	6.53	0.002	1.124	67.27	28.18	0	0	0	4.6
2003	273	23	2789	340.496	-426.449	D	6.565	6.562	0.002	1.187	95.54	2.92	0	0	0	1.53
2003	274	23	2709	330.21	-424.978	D	8.627	8.478	0.149	5.298	83.56	16.21	0	0	0	0.23
2003	275	23	2571	322.646	-445.476	D	6.577	6.568	0.009	1.198	91.61	6.92	0	0	0	1.46
2003	276	23	2704	329.056	-425.092	D	7.13	7.118	0.013	2.299	95.66	3.75	0	0	0	0.58

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	277	23	2781	339.842	-425.379	D	6.855	6.854	0	1.764	97.66	0.52	0	0	0	1.77
2003	278	23	2789	340.496	-426.449	D	7.082	7.032	0.049	2.124	96.84	2.54	0	0	0	0.62
2003	279	23	2789	340.496	-426.449	D	9.51	9.344	0.166	7.431	95.45	4.42	0	0	0	0.13
2003	280	23	2600	318.952	-443.12	D	7.899	7.852	0.047	3.868	98.77	1.04	0	0	0	0.18
2003	281	23	2694	327.861	-425.964	D	7.617	7.609	0.008	3.336	98.92	0.9	0	0	0	0.17
2003	282	23	1552	330.178	-425.042	D	8.915	8.914	0	6.35	99.02	0.42	0	0	0	0.21
2003	283	23	1	318.65	-445.782	D	9.734	9.734	0	8.453	0	0	0	0	0	0
2003	284	23	1	318.65	-445.782	D	9.551	9.551	0	7.97	0	0	0	0	0	0
2003	285	23	2782	339.852	-425.592	D	7.88	7.856	0.024	3.876	82.7	16.13	0	0	0	1.16
2003	286	23	12	319.07	-444.015	D	6.96	6.944	0.017	1.944	97.84	1.54	0	0	0	0.62
2003	287	23	2781	339.842	-425.379	D	8.932	8.869	0.064	6.238	88.9	11.05	0	0	0	0.06
2003	288	23	2788	340.294	-426.448	D	6.713	6.713	0	1.483	92.88	1.33	0	0	0	2.08
2003	289	23	2788	340.294	-426.448	D	6.603	6.603	0	1.267	87.54	1.16	0	0	0	1.18
2003	290	23	2789	340.496	-426.449	D	8.117	8.079	0.038	4.375	93.11	6.83	0	0	0	0.06
2003	291	23	2684	326.713	-427.014	D	6.618	6.617	0.001	1.293	98.01	0.79	0	0	0	1.24
2003	292	23	2417	339.654	-425.626	D	6.614	6.609	0.005	1.278	98.46	0.72	0	0	0	0.77
2003	293	23	2789	340.496	-426.449	D	6.705	6.704	0.001	1.464	99.29	0.19	0	0	0	0.49
2003	294	23	2344	337.486	-427.22	D	6.722	6.722	0	1.5	94.77	0.2	0	0	0	0.38
2003	295	23	2789	340.496	-426.449	D	6.724	6.709	0.015	1.474	97.44	0.74	0	0	0	1.82
2003	296	23	2588	318.452	-445.8	D	6.637	6.61	0.027	1.28	97.64	0.95	0	0	0	1.41
2003	297	23	2789	340.496	-426.449	D	6.698	6.691	0.007	1.44	98.11	0.9	0	0	0	0.98
2003	298	23	2790	340.421	-426.562	D	8.064	7.986	0.078	4.167	92.38	7.22	0	0	0	0.4
2003	299	23	2618	320.301	-439.116	D	7.514	7.509	0.005	3.119	81.69	17.98	0	0	0	0.36
2003	300	23	1	318.65	-445.782	D	6.536	6.536	0	1.135	0	0	0	0	0	0
2003	301	23	1	318.65	-445.782	D	6.598	6.598	0	1.258	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	6.533	6.533	0	1.13	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.414	7.414	0	2.919	0	0	0	0	0	0
2003	304	23	1	318.65	-445.782	D	9.409	9.409	0	7.599	0	0	0	0	0	0
2003	305	23	2758	335.862	-424.454	D	9.655	9.433	0.222	7.661	85.98	13.76	0	0	0	0.26
2003	306	23	2758	335.862	-424.454	D	8.854	8.854	0	6.202	92.9	1.53	0	0	0	0.22
2003	307	23	1	318.65	-445.782	D	7.877	7.877	0	3.922	0	0	0	0	0	0
2003	308	23	2704	329.056	-425.092	D	7.43	7.408	0.022	2.905	95.6	4.08	0	0	0	0.32
2003	309	23	2762	336.074	-425.006	D	8.752	8.075	**0.677**	4.367	94.65	5.22	0	0	0	0.13
2003	310	23	2571	322.646	-445.476	D	9.713	9.017	**0.696**	6.605	92.7	7.25	0	0	0	0.06
2003	311	23	2589	318.383	-445.593	D	7.756	7.749	0.006	3.641	88.53	11.24	0	0	0	0.25
2003	312	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	6.51	6.51	0	1.085	0	0	0	0	0	0
2003	314	23	1	318.65	-445.782	D	6.616	6.616	0	1.292	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	8.07	8.07	0	4.354	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	316	23	1	318.65	-445.782	D	9.37	9.37	0	7.497	0	0	0	0	0	0
2003	317	23	2789	340.496	-426.449	D	6.497	6.495	0.002	1.057	56.4	37.34	0	0	0	6.21
2003	318	23	2789	340.496	-426.449	D	6.957	6.957	0	1.97	86.74	12.21	0	0	0	0.82
2003	319	23	2405	338.909	-425.659	D	8.517	8.517	0	5.391	50.71	9.55	0	0	0	0.18
2003	320	23	1	318.65	-445.782	D	9.626	9.626	0	8.168	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	10.088	10.088	0	9.417	0	0	0	0	0	0
2003	322	23	1	318.65	-445.782	D	9.908	9.908	0	8.922	0	0	0	0	0	0
2003	323	23	2789	340.496	-426.449	D	7.521	7.493	0.028	3.086	90.11	9.79	0	0	0	0.1
2003	324	23	1	318.65	-445.782	D	6.656	6.656	0	1.371	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	9.817	9.817	0	8.677	0	0	0	0	0	0
2003	327	23	2704	329.056	-425.092	D	9.027	9.009	0.018	6.585	85.77	14.15	0	0	0	0.07
2003	328	23	1	318.65	-445.782	D	7.264	7.264	0	2.603	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	6.515	6.515	0	1.095	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.434	7.434	0	2.961	0	0	0	0	0	0
2003	331	23	2789	340.496	-426.449	D	9.242	9.167	0.074	6.981	85.49	14.24	0	0	0	0.28
2003	332	23	2789	340.496	-426.449	D	6.843	6.839	0.003	1.734	90.23	9.63	0	0	0	0.15
2003	333	23	1	318.65	-445.782	D	6.494	6.494	0	1.054	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2003	335	23	2789	340.496	-426.449	D	6.674	6.663	0.012	1.384	58.33	37.72	0	0	0	3.94
2003	336	23	1	318.65	-445.782	D	6.513	6.513	0	1.092	0	0	0	0	0	0
2003	337	23	1	318.65	-445.782	D	7.872	7.872	0	3.912	0	0	0	0	0	0
2003	338	23	2704	329.056	-425.092	D	9.331	9.209	0.122	7.085	87.71	12.04	0	0	0	0.25
2003	339	23	2597	318.971	-443.851	D	8.544	8.531	0.014	5.422	91.95	7.96	0	0	0	0.08
2003	340	23	2789	340.496	-426.449	D	7.818	7.817	0.001	3.79	81.03	17.78	0	0	0	1.38
2003	341	23	2781	339.842	-425.379	D	6.66	6.656	0.004	1.37	77.88	21.31	0	0	0	0.78
2003	342	23	1	318.65	-445.782	D	8.111	8.111	0	4.449	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	10.155	10.155	0	9.603	0	0	0	0	0	0
2003	344	23	2588	318.452	-445.8	D	9.158	8.853	0.306	6.198	84.73	15.23	0	0	0	0.04
2003	345	23	1	318.65	-445.782	D	7.408	7.408	0	2.905	0	0	0	0	0	0
2003	346	23	2781	339.842	-425.379	D	6.855	6.844	0.011	1.742	78.17	21.14	0	0	0	0.68
2003	347	23	2628	320.933	-436.998	D	9.62	9.615	0.005	8.138	83.72	16.06	0	0	0	0.17
2003	348	23	2600	318.952	-443.12	D	9.458	9.432	0.026	7.658	87.09	12.84	0	0	0	0.06
2003	349	23	2781	339.842	-425.379	D	9.066	9.064	0.003	6.72	89.24	10.65	0	0	0	0.08
2003	350	23	1	318.65	-445.782	D	8.775	8.775	0	6.01	0	0	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.444	7.444	0	2.982	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	6.918	6.918	0	1.892	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.467	7.467	0	3.031	0	0	0	0	0	0
2003	354	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	355	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2003	356	23	1	318.65	-445.782	D	9.46	9.46	0	7.73	0	0	0	0	0	0
2003	357	23	2600	318.952	-443.12	D	9.547	9.464	0.083	7.742	79.95	19.95	0	0	0	0.1
2003	358	23	1	318.65	-445.782	D	8.21	8.21	0	4.675	0	0	0	0	0	0
2003	359	23	2789	340.496	-426.449	D	6.584	6.584	0	1.23	83.34	14.75	0	0	0	1.5
2003	360	23	2789	340.496	-426.449	D	6.84	6.838	0.002	1.731	81.54	17.9	0	0	0	0.63
2003	361	23	2405	338.909	-425.659	D	6.757	6.757	0	1.569	58.63	8.3	0	0	0	0.33
2003	362	23	1	318.65	-445.782	D	8.719	8.719	0	5.874	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.299	7.299	0	2.675	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	6.566	6.566	0	1.194	0	0	0	0	0	0
									0.823							
COLUMBIA											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	6.999	6.999	0	2.056	0	0	0	0	0	0
2003	2	23	2709	330.21	-424.978	D	9.37	9.354	0.016	7.456	36.23	63.75	0	0	0	0.02
2003	3	23	1	318.65	-445.782	D	7.872	7.872	0	3.912	0	0	0	0	0	0
2003	4	23	1	318.65	-445.782	D	6.784	6.784	0	1.624	0	0	0	0	0	0
2003	5	23	1	318.65	-445.782	D	7.26	7.26	0	2.595	0	0	0	0	0	0
2003	6	23	1	318.65	-445.782	D	8.242	8.242	0	4.748	0	0	0	0	0	0
2003	7	23	1	318.65	-445.782	D	7.239	7.239	0	2.55	0	0	0	0	0	0
2003	8	23	1	318.65	-445.782	D	6.71	6.71	0	1.477	0	0	0	0	0	0
2003	9	23	2789	340.496	-426.449	D	6.971	6.968	0.003	1.994	88.91	10.94	0	0	0	0.14
2003	10	23	1	318.65	-445.782	D	6.587	6.587	0	1.234	0	0	0	0	0	0
2003	11	23	1	318.65	-445.782	D	6.549	6.549	0	1.161	0	0	0	0	0	0
2003	12	23	2789	340.496	-426.449	D	6.499	6.499	0	1.064	59.53	39.73	0	0	0	0.06
2003	13	23	2788	340.294	-426.448	D	6.7	6.699	0	1.456	63.19	33.81	0	0	0	0.04
2003	14	23	1	318.65	-445.782	D	9.224	9.224	0	7.124	0	0	0	0	0	0
2003	15	23	2789	340.496	-426.449	D	6.625	6.623	0.002	1.305	58.97	40.95	0	0	0	0.05
2003	16	23	2600	318.952	-443.12	D	8.289	8.256	0.033	4.78	65.66	34.33	0	0	0	0.01
2003	17	23	1	318.65	-445.782	D	7.905	7.905	0	3.985	0	0	0	0	0	0
2003	18	23	1	318.65	-445.782	D	6.57	6.57	0	1.203	0	0	0	0	0	0
2003	19	23	1	318.65	-445.782	D	6.651	6.651	0	1.361	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	6.624	6.624	0	1.308	0	0	0	0	0	0
2003	21	23	2789	340.496	-426.449	D	7.555	7.533	0.023	3.171	63.63	36.37	0	0	0	0.01
2003	22	23	2762	336.074	-425.006	D	7.509	7.501	0.008	3.103	48.14	51.76	0	0	0	0.07
2003	23	23	2789	340.496	-426.449	D	6.963	6.962	0.001	1.981	55.8	44.2	0	0	0	0.02

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	24	23	2788	340.294	-426.448	D	6.636	6.635	0	1.33	65.39	33.23	0	0	0	0.03
2003	25	23	2788	340.294	-426.448	D	6.5	6.5	0	1.067	68.17	30.99	0	0	0	0.02
2003	26	23	1	318.65	-445.782	D	7.121	7.121	0	2.305	0	0	0	0	0	0
2003	27	23	2789	340.496	-426.449	D	6.795	6.794	0.001	1.644	62.09	37.93	0	0	0	0.02
2003	28	23	1	318.65	-445.782	D	8.235	8.235	0	4.732	0	0	0	0	0	0
2003	29	23	2781	339.842	-425.379	D	9.839	9.766	0.073	8.54	36.57	63.42	0	0	0	0.01
2003	30	23	1	318.65	-445.782	D	9.114	9.114	0	6.846	0	0	0	0	0	0
2003	31	23	1	318.65	-445.782	D	7.121	7.121	0	2.306	0	0	0	0	0	0
2003	32	23	1	318.65	-445.782	D	6.936	6.936	0	1.929	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	6.87	6.87	0	1.795	0	0	0	0	0	0
2003	34	23	1	318.65	-445.782	D	9.527	9.527	0	7.906	0	0	0	0	0	0
2003	35	23	1	318.65	-445.782	D	7.1	7.1	0	2.263	0	0	0	0	0	0
2003	36	23	2788	340.294	-426.448	D	6.563	6.563	0	1.189	59.6	38.5	0	0	0	0.07
2003	37	23	2781	339.842	-425.379	D	9.199	9.182	0.017	7.018	70.39	29.59	0	0	0	0
2003	38	23	2684	326.713	-427.014	D	8.386	8.001	0.385	4.199	79.19	20.81	0	0	0	0
2003	39	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2003	40	23	1	318.65	-445.782	D	7.657	7.657	0	3.439	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	9.339	9.339	0	7.418	0	0	0	0	0	0
2003	42	23	1	318.65	-445.782	D	6.733	6.733	0	1.522	0	0	0	0	0	0
2003	43	23	1	318.65	-445.782	D	6.521	6.521	0	1.107	0	0	0	0	0	0
2003	44	23	2788	340.294	-426.448	D	6.61	6.61	0	1.281	67.27	31.3	0	0	0	0.05
2003	45	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2003	46	23	1	318.65	-445.782	D	10.176	10.176	0	9.662	0	0	0	0	0	0
2003	47	23	2781	339.842	-425.379	D	8.744	8.654	0.09	5.716	76.69	23.3	0	0	0	0.01
2003	48	23	2597	318.971	-443.851	D	8.271	8.188	0.083	4.623	74.44	25.55	0	0	0	0.01
2003	49	23	2781	339.842	-425.379	D	7.01	6.987	0.022	2.033	74.59	25.4	0	0	0	0.01
2003	50	23	2784	339.87	-426.019	D	9.203	9.195	0.008	7.051	84.25	15.73	0	0	0	0
2003	51	23	2704	329.056	-425.092	D	9.624	9.524	0.1	7.899	75.11	24.89	0	0	0	0
2003	52	23	1552	330.178	-425.042	D	9.649	9.648	0.001	8.224	89.14	10.95	0	0	0	0
2003	53	23	2628	320.933	-436.998	D	9.524	9.454	0.069	7.717	72.42	27.57	0	0	0	0.01
2003	54	23	2781	339.842	-425.379	D	8.846	8.774	0.072	6.006	65.66	34.34	0	0	0	0
2003	55	23	2628	320.933	-436.998	D	8.556	8.448	0.108	5.228	72.23	27.77	0	0	0	0
2003	56	23	2596	318.977	-444.095	D	7.529	7.488	0.041	3.075	59.47	40.51	0	0	0	0.02
2003	57	23	2597	318.971	-443.851	D	8.749	8.653	0.095	5.715	74.7	25.29	0	0	0	0
2003	58	23	2684	326.713	-427.014	D	8.801	8.768	0.033	5.991	81.06	18.93	0	0	0	0
2003	59	23	2694	327.861	-425.964	D	8.987	8.967	0.02	6.48	84.48	15.5	0	0	0	0
2003	60	23	2781	339.842	-425.379	D	9.658	9.651	0.007	8.233	87.65	12.33	0	0	0	0
2003	61	23	2781	339.842	-425.379	D	9.122	9.119	0.003	6.86	87.51	12.44	0	0	0	0
2003	62	23	1	318.65	-445.782	D	7.196	7.196	0	2.461	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	63	23	1	318.65	-445.782	D	7.002	7.002	0	2.063	0	0	0	0	0	0
2003	64	23	2758	335.862	-424.454	D	9.123	9.059	0.064	6.709	78.37	21.63	0	0	0	0
2003	65	23	2789	340.496	-426.449	D	7.577	7.573	0.003	3.258	83.13	16.84	0	0	0	0.01
2003	66	23	2789	340.496	-426.449	D	6.951	6.945	0.007	1.946	78.34	21.65	0	0	0	0.02
2003	67	23	2361	337.679	-425.962	D	7.068	7.068	0	2.196	85.01	6.25	0	0	0	0.02
2003	68	23	2789	340.496	-426.449	D	7.078	7.06	0.018	2.18	48.07	51.86	0	0	0	0.06
2003	69	23	2781	339.842	-425.379	D	6.604	6.548	0.056	1.159	61.91	38.05	0	0	0	0.04
2003	70	23	2758	335.862	-424.454	D	6.57	6.549	0.021	1.162	81.68	18.3	0	0	0	0.03
2003	71	23	2789	340.496	-426.449	D	7.114	7.113	0.001	2.289	93.13	6.81	0	0	0	0.01
2003	72	23	2781	339.842	-425.379	D	8.574	8.571	0.003	5.518	94.28	5.65	0	0	0	0.01
2003	73	23	2597	318.971	-443.851	D	8.727	8.677	0.05	5.772	88.83	11.16	0	0	0	0.01
2003	74	23	2684	326.713	-427.014	D	8.14	8.138	0.002	4.509	92.36	7.57	0	0	0	0.01
2003	75	23	2236	336.149	-430.776	D	7.277	7.277	0	2.629	71.48	0.38	0	0	0	0.01
2003	76	23	1	318.65	-445.782	D	8.644	8.644	0	5.692	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	8.653	8.653	0	5.713	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	8.871	8.871	0	6.244	0	0	0	0	0	0
2003	79	23	2704	329.056	-425.092	D	9.297	9.236	0.061	7.155	74.93	25.06	0	0	0	0
2003	80	23	2789	340.496	-426.449	D	8.986	8.841	0.146	6.169	77.35	22.65	0	0	0	0
2003	81	23	1	318.65	-445.782	D	6.545	6.545	0	1.154	0	0	0	0	0	0
2003	82	23	1	318.65	-445.782	D	6.586	6.586	0	1.234	0	0	0	0	0	0
2003	83	23	1	318.65	-445.782	D	6.82	6.82	0	1.696	0	0	0	0	0	0
2003	84	23	37	319.567	-443.993	D	7.698	7.687	0.011	3.506	90.22	9.78	0	0	0	0.01
2003	85	23	2684	326.713	-427.014	D	8.832	8.823	0.009	6.126	50.36	49.59	0	0	0	0.01
2003	86	23	199	320.795	-437.944	D	6.616	6.616	0	1.292	88.63	3.59	0	0	0	0.05
2003	87	23	1	318.65	-445.782	D	8.676	8.676	0	5.769	0	0	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.301	7.301	0	2.679	0	0	0	0	0	0
2003	89	23	1	318.65	-445.782	D	6.525	6.525	0	1.115	0	0	0	0	0	0
2003	90	23	1	318.65	-445.782	D	6.478	6.478	0	1.023	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	6.547	6.547	0	1.157	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	6.893	6.893	0	1.842	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.231	7.231	0	2.533	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	8.075	8.075	0	4.366	0	0	0	0	0	0
2003	95	23	1	318.65	-445.782	D	6.747	6.747	0	1.55	0	0	0	0	0	0
2003	96	23	2781	339.842	-425.379	D	8.06	8.057	0.003	4.325	78.31	21.69	0	0	0	0.02
2003	97	23	1	318.65	-445.782	D	9.082	9.082	0	6.766	0	0	0	0	0	0
2003	98	23	2789	340.496	-426.449	D	7.432	7.431	0	2.955	79.76	19.96	0	0	0	0.01
2003	99	23	2789	340.496	-426.449	D	7.034	7.033	0.001	2.125	89.21	10.72	0	0	0	0.05
2003	100	23	2789	340.496	-426.449	D	6.615	6.591	0.023	1.244	76.59	23.36	0	0	0	0.04
2003	101	23	2781	339.842	-425.379	D	6.486	6.478	0.008	1.024	93.42	6.52	0	0	0	0.05

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	102	23	2789	340.496	-426.449	D	6.503	6.495	0.008	1.057	97.82	2.12	0	0	0	0.03
2003	103	23	2789	340.496	-426.449	D	6.526	6.525	0	1.115	99.48	0.46	0	0	0	0.02
2003	104	23	2414	339.687	-426.374	D	6.65	6.65	0	1.359	96.71	1.09	0	0	0	0.02
2003	105	23	1	318.65	-445.782	D	6.637	6.637	0	1.334	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	6.669	6.669	0	1.396	0	0	0	0	0	0
2003	107	23	2758	335.862	-424.454	D	7.625	7.621	0.003	3.362	80.31	19.7	0	0	0	0
2003	108	23	1	318.65	-445.782	D	7.49	7.49	0	3.08	0	0	0	0	0	0
2003	109	23	1	318.65	-445.782	D	7.406	7.406	0	2.902	0	0	0	0	0	0
2003	110	23	1	318.65	-445.782	D	9.045	9.045	0	6.674	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.014	7.014	0	2.087	0	0	0	0	0	0
2003	112	23	2781	339.842	-425.379	D	6.542	6.541	0.001	1.146	95.17	4.75	0	0	0	0.1
2003	113	23	2758	335.862	-424.454	D	6.592	6.591	0.001	1.243	95.17	4.85	0	0	0	0.04
2003	114	23	1	318.65	-445.782	D	8.02	8.02	0	4.243	0	0	0	0	0	0
2003	115	23	2781	339.842	-425.379	D	8.455	8.448	0.008	5.226	89.05	10.92	0	0	0	0.02
2003	116	23	2789	340.496	-426.449	D	8.403	8.355	0.048	5.009	67.82	32.17	0	0	0	0.01
2003	117	23	2606	319.359	-441.767	D	7.059	7.057	0.001	2.175	95.56	4.35	0	0	0	0.01
2003	118	23	863	325.509	-431.992	D	7.437	7.437	0	2.968	68.14	0.15	0	0	0	0.01
2003	119	23	1	318.65	-445.782	D	7.327	7.327	0	2.733	86.3	0.35	0	0	0	0.01
2003	120	23	1	318.65	-445.782	D	7.985	7.985	0	4.163	0	0	0	0	0	0
2003	121	23	1	318.65	-445.782	D	7.624	7.624	0	3.367	0	0	0	0	0	0
2003	122	23	2781	339.842	-425.379	D	8.84	8.837	0.003	6.159	99.25	0.67	0	0	0	0.04
2003	123	23	2758	335.862	-424.454	D	8.806	8.503	0.304	5.356	87.82	12.18	0	0	0	0
2003	124	23	2704	329.056	-425.092	D	7.319	7.315	0.004	2.71	99.26	0.74	0	0	0	0.01
2003	125	23	1	318.65	-445.782	D	8.789	8.789	0	6.042	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	8.385	8.385	0	5.081	0	0	0	0	0	0
2003	127	23	2781	339.842	-425.379	D	8.584	8.583	0	5.548	89.76	10.39	0	0	0	0.01
2003	128	23	1	318.65	-445.782	D	8.057	8.057	0	4.326	0	0	0	0	0	0
2003	129	23	1	318.65	-445.782	D	7.642	7.642	0	3.407	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	8.486	8.486	0	5.317	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.409	7.409	0	2.907	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	6.899	6.899	0	1.854	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	9.399	9.399	0	7.572	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	8.763	8.763	0	5.98	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	9.31	9.31	0	7.344	0	0	0	0	0	0
2003	137	23	2781	339.842	-425.379	D	9.372	9.371	0.001	7.5	99.43	0.59	0	0	0	0.01
2003	138	23	2704	329.056	-425.092	D	9.123	9.093	0.03	6.795	95.24	4.76	0	0	0	0
2003	139	23	1	318.65	-445.782	D	8.739	8.739	0	5.921	0	0	0	0	0	0
2003	140	23	2789	340.496	-426.449	D	8.465	8.269	0.195	4.811	79.15	20.84	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	141	23	2789	340.496	-426.449	D	6.732	6.723	0.009	1.503	95.25	4.7	0	0	0	0.03
2003	142	23	2781	339.842	-425.379	D	7.122	7.111	0.011	2.285	99.02	0.94	0	0	0	0.04
2003	143	23	2468	334.002	-434.887	D	6.724	6.691	0.033	1.439	98.77	1.2	0	0	0	0.03
2003	144	23	2781	339.842	-425.379	D	7.833	7.786	0.047	3.721	98.55	1.44	0	0	0	0.01
2003	145	23	2758	335.862	-424.454	D	9.269	9.201	0.068	7.066	95.07	4.93	0	0	0	0.01
2003	146	23	2597	318.971	-443.851	D	8.156	8.096	0.06	4.414	97.54	2.46	0	0	0	0
2003	147	23	2628	320.933	-436.998	D	6.649	6.646	0.003	1.351	97.41	2.51	0	0	0	0.07
2003	148	23	2588	318.452	-445.8	D	6.599	6.596	0.003	1.253	98.96	1.04	0	0	0	0.03
2003	149	23	1456	329.977	-431.796	D	7.249	7.249	0	2.572	27.11	0.02	0	0	0	0.01
2003	150	23	1	318.65	-445.782	D	6.614	6.614	0	1.289	0	0	0	0	0	0
2003	151	23	1	318.65	-445.782	D	7.098	7.098	0	2.258	0	0	0	0	0	0
2003	152	23	454	323.042	-443.841	D	7.187	7.171	0.017	2.409	95.68	4.3	0	0	0	0.01
2003	153	23	2684	326.713	-427.014	D	8.689	8.688	0.001	5.799	99.62	0.37	0	0	0	0.01
2003	154	23	2781	339.842	-425.379	D	9.19	9.118	0.072	6.857	83.44	16.56	0	0	0	0
2003	155	23	2468	334.002	-434.887	D	7.51	7.51	0	3.122	87.88	0.16	0	0	0	0.03
2003	156	23	2468	334.002	-434.887	D	6.82	6.809	0.011	1.674	99.4	0.57	0	0	0	0.02
2003	157	23	2255	335.942	-426.039	D	8.819	8.784	0.035	6.03	97.77	2.22	0	0	0	0
2003	158	23	1	318.65	-445.782	D	7.479	7.479	0	3.057	0	0	0	0	0	0
2003	159	23	1	318.65	-445.782	D	7.001	7.001	0	2.06	0	0	0	0	0	0
2003	160	23	1	318.65	-445.782	D	6.621	6.621	0	1.301	0	0	0	0	0	0
2003	161	23	1	318.65	-445.782	D	7.499	7.499	0	3.098	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	8.817	8.817	0	6.112	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	8.874	8.874	0	6.251	0	0	0	0	0	0
2003	164	23	2271	336.212	-426.526	D	9.229	9.229	0	7.137	93.47	0.12	0	0	0	0.01
2003	165	23	2758	335.862	-424.454	D	8.398	8.299	0.1	4.879	92.01	7.98	0	0	0	0.01
2003	166	23	2571	322.646	-445.476	D	8.437	8.279	0.158	4.833	95.02	4.98	0	0	0	0
2003	167	23	2789	340.496	-426.449	D	8.145	8.117	0.028	4.462	98.23	1.76	0	0	0	0
2003	168	23	2564	323.159	-444.002	D	7.65	7.645	0.006	3.413	98.03	1.95	0	0	0	0
2003	169	23	2571	322.646	-445.476	D	8.954	8.946	0.008	6.427	97.59	2.38	0	0	0	0
2003	170	23	2684	326.713	-427.014	D	8.551	8.521	0.031	5.4	99.05	0.94	0	0	0	0.01
2003	171	23	2789	340.496	-426.449	D	8.697	8.404	0.293	5.124	88.91	11.08	0	0	0	0
2003	172	23	2588	318.452	-445.8	D	6.973	6.969	0.004	1.995	99.71	0.27	0	0	0	0.01
2003	173	23	1	318.65	-445.782	D	6.92	6.92	0	1.897	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.108	7.108	0	2.279	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.784	7.784	0	3.718	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	8.399	8.399	0	5.113	0	0	0	0	0	0
2003	177	23	1	318.65	-445.782	D	8.699	8.699	0	5.825	0	0	0	0	0	0
2003	178	23	2571	322.646	-445.476	D	6.832	6.832	0	1.719	98.5	0.46	0	0	0	0.06
2003	179	23	2789	340.496	-426.449	D	6.648	6.647	0.001	1.352	99.3	0.59	0	0	0	0.03

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	180	23	2757	335.63	-424.484	D	6.717	6.716	0.001	1.489	99.67	0.31	0	0	0	0.02
2003	181	23	2780	339.614	-425.419	D	7.102	7.102	0	2.267	99.01	0.42	0	0	0	0.01
2003	182	23	1414	329.196	-425.335	D	8.86	8.86	0	6.216	98.39	0.99	0	0	0	0
2003	183	23	2784	339.87	-426.019	D	7.524	7.524	0	3.153	96.12	0.11	0	0	0	0.01
2003	184	23	2780	339.614	-425.419	D	7.374	7.374	0	2.832	88.71	0.15	0	0	0	0.01
2003	185	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	8.318	8.318	0	4.923	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.086	7.086	0	2.234	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.739	7.739	0	3.619	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	8.593	8.593	0	5.571	0	0	0	0	0	0
2003	192	23	1	318.65	-445.782	D	7.285	7.285	0	2.647	0	0	0	0	0	0
2003	193	23	1	318.65	-445.782	D	7.83	7.83	0	3.819	0	0	0	0	0	0
2003	194	23	2784	339.87	-426.019	D	7.246	7.246	0	2.564	98.75	0.08	0	0	0	0.01
2003	195	23	2781	339.842	-425.379	D	8.457	8.448	0.009	5.227	98.57	1.41	0	0	0	0
2003	196	23	2781	339.842	-425.379	D	8.22	8.22	0	4.698	98.86	0.07	0	0	0	0.01
2003	197	23	1	318.65	-445.782	D	6.957	6.957	0	1.972	0	0	0	0	0	0
2003	198	23	2789	340.496	-426.449	D	7.155	7.155	0	2.375	99.89	0.29	0	0	0	0.01
2003	199	23	2788	340.294	-426.448	D	7.116	7.116	0	2.295	99.61	0.1	0	0	0	0.01
2003	200	23	1	318.65	-445.782	D	7.564	7.564	0	3.238	0	0	0	0	0	0
2003	201	23	2417	339.654	-425.626	D	8.558	8.558	0	5.488	99.66	0.51	0	0	0	0
2003	202	23	1	318.65	-445.782	D	8.079	8.079	0	4.375	0	0	0	0	0	0
2003	203	23	1	318.65	-445.782	D	7.552	7.552	0	3.213	0	0	0	0	0	0
2003	204	23	2709	330.21	-424.978	D	7.047	7.035	0.012	2.129	92.54	7.42	0	0	0	0.05
2003	205	23	2653	324.014	-433.36	D	7.031	6.968	0.063	1.993	98.91	1.07	0	0	0	0.02
2003	206	23	2708	329.979	-425	D	7.115	7.106	0.009	2.275	99.44	0.56	0	0	0	0.01
2003	207	23	1	318.65	-445.782	D	6.798	6.798	0	1.652	0	0	0	0	0	0
2003	208	23	1	318.65	-445.782	D	7.085	7.085	0	2.232	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.085	7.085	0	2.233	0	0	0	0	0	0
2003	210	23	2781	339.842	-425.379	D	8.441	8.415	0.025	5.151	96.55	3.43	0	0	0	0
2003	211	23	2781	339.842	-425.379	D	9.424	9.347	0.077	7.44	96.76	3.24	0	0	0	0
2003	212	23	2789	340.496	-426.449	D	7.645	7.607	0.039	3.331	97.89	2.1	0	0	0	0
2003	213	23	2789	340.496	-426.449	D	6.904	6.901	0.003	1.858	99.04	0.89	0	0	0	0.01
2003	214	23	2210	335.901	-430.787	D	7.673	7.672	0.001	3.471	99.64	0.27	0	0	0	0
2003	215	23	1	318.65	-445.782	D	7.59	7.59	0	3.294	0	0	0	0	0	0
2003	216	23	1	318.65	-445.782	D	7.802	7.802	0	3.758	0	0	0	0	0	0
2003	217	23	1	318.65	-445.782	D	8.259	8.259	0	4.787	0	0	0	0	0	0
2003	218	23	2693	327.829	-426.17	D	8.622	8.602	0.02	5.592	99.19	0.8	0	0	0	0.01

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	219	23	2623	320.666	-438.044	D	8.692	8.443	0.25	5.214	92.32	7.68	0	0	0	0.01
2003	220	23	2758	335.862	-424.454	D	7.154	7.066	0.088	2.193	98.79	1.19	0	0	0	0.02
2003	221	23	2600	318.952	-443.12	D	7.016	6.98	0.036	2.018	99.46	0.51	0	0	0	0.02
2003	222	23	2588	318.452	-445.8	D	7.211	7.162	0.049	2.39	99.54	0.44	0	0	0	0.02
2003	223	23	2588	318.452	-445.8	D	7.36	7.272	0.088	2.62	99.31	0.67	0	0	0	0.01
2003	224	23	2588	318.452	-445.8	D	7.208	7.207	0.001	2.483	99.43	0.64	0	0	0	0.01
2003	225	23	1	318.65	-445.782	D	8.321	8.321	0	4.931	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	8.753	8.753	0	5.955	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.337	7.337	0	2.755	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.347	7.347	0	2.776	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	6.982	6.982	0	2.021	0	0	0	0	0	0
2003	230	23	2789	340.496	-426.449	D	6.902	6.901	0.001	1.859	99.89	0.05	0	0	0	0.02
2003	231	23	2789	340.496	-426.449	D	6.832	6.826	0.007	1.706	99.69	0.3	0	0	0	0.01
2003	232	23	2789	340.496	-426.449	D	6.865	6.86	0.005	1.775	99.43	0.55	0	0	0	0.01
2003	233	23	2789	340.496	-426.449	D	6.923	6.921	0.002	1.898	99.3	0.7	0	0	0	0.01
2003	234	23	2789	340.496	-426.449	D	7.115	7.113	0.002	2.289	99.62	0.36	0	0	0	0.01
2003	235	23	2704	329.056	-425.092	D	7.049	7.028	0.021	2.115	99.73	0.25	0	0	0	0.02
2003	236	23	2588	318.452	-445.8	D	8.639	8.515	0.124	5.385	96.31	3.68	0	0	0	0
2003	237	23	1548	330.222	-426.04	D	7.912	7.872	0.04	3.912	99.39	0.6	0	0	0	0.01
2003	238	23	2708	329.979	-425	D	7.355	7.352	0.003	2.787	99.93	0.05	0	0	0	0.01
2003	239	23	2409	339.158	-425.648	D	7.03	7.03	0	2.119	97.04	0.06	0	0	0	0.01
2003	240	23	1	318.65	-445.782	D	7.105	7.105	0	2.273	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	8.394	8.394	0	5.101	0	0	0	0	0	0
2003	242	23	2275	336.168	-425.529	D	9.233	9.233	0	7.147	102.07	0.91	0	0	0	0
2003	243	23	2755	335.167	-424.545	D	9.353	9.353	0	7.454	94.8	3.22	0	0	0	0
2003	244	23	1	318.65	-445.782	D	9.456	9.456	0	7.721	0	0	0	0	0	0
2003	245	23	2653	324.014	-433.36	D	9.806	9.788	0.018	8.598	99.39	0.6	0	0	0	0
2003	246	23	2589	318.383	-445.593	D	9.465	9.235	0.231	7.152	94.13	5.86	0	0	0	0
2003	247	23	2790	340.421	-426.562	D	7.771	7.699	0.072	3.531	97.13	2.85	0	0	0	0.01
2003	248	23	2684	326.713	-427.014	D	6.78	6.745	0.036	1.545	95.61	4.34	0	0	0	0.04
2003	249	23	2588	318.452	-445.8	D	6.844	6.844	0	1.743	99.38	0.24	0	0	0	0.04
2003	250	23	1	318.65	-445.782	D	6.929	6.929	0	1.915	0	0	0	0	0	0
2003	251	23	1	318.65	-445.782	D	7.063	7.063	0	2.187	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.368	7.368	0	2.821	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	8.253	8.253	0	4.773	0	0	0	0	0	0
2003	255	23	1	318.65	-445.782	D	9.962	9.962	0	9.071	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	9.428	9.428	0	7.649	0	0	0	0	0	0
2003	257	23	2781	339.842	-425.379	D	8.77	8.651	0.12	5.708	84.64	15.35	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	258	23	1	318.65	-445.782	D	6.717	6.717	0	1.49	0	0	0	0	0	0
2003	259	23	2789	340.496	-426.449	D	6.646	6.645	0.001	1.349	99.09	0.59	0	0	0	0.04
2003	260	23	2781	339.842	-425.379	D	6.76	6.755	0.006	1.565	98.63	1.35	0	0	0	0.02
2003	261	23	2758	335.862	-424.454	D	6.771	6.77	0	1.596	99.53	0.55	0	0	0	0.01
2003	262	23	1	318.65	-445.782	D	7.776	7.776	0	3.698	0	0	0	0	0	0
2003	263	23	2789	340.496	-426.449	D	6.599	6.588	0.011	1.236	97.93	2.03	0	0	0	0.04
2003	264	23	2704	329.056	-425.092	D	7.05	7.045	0.005	2.15	99.19	0.79	0	0	0	0.02
2003	265	23	1	318.65	-445.782	D	9.072	9.072	0	6.741	0	0	0	0	0	0
2003	266	23	1	318.65	-445.782	D	6.857	6.857	0	1.769	0	0	0	0	0	0
2003	267	23	1	318.65	-445.782	D	6.83	6.83	0	1.715	0	0	0	0	0	0
2003	268	23	2693	327.829	-426.17	D	6.852	6.846	0.006	1.748	75.58	24.28	0	0	0	0.13
2003	269	23	2789	340.496	-426.449	D	7.041	7.039	0.002	2.138	96	3.86	0	0	0	0.01
2003	270	23	1	318.65	-445.782	D	7.334	7.334	0	2.749	0	0	0	0	0	0
2003	271	23	1	318.65	-445.782	D	6.654	6.654	0	1.366	0	0	0	0	0	0
2003	272	23	2789	340.496	-426.449	D	6.535	6.533	0.002	1.13	71.48	28.31	0	0	0	0.15
2003	273	23	2468	334.002	-434.887	D	6.562	6.558	0.004	1.178	96.19	3.8	0	0	0	0.06
2003	274	23	2784	339.87	-426.019	D	8.448	8.405	0.044	5.126	77.82	22.17	0	0	0	0
2003	275	23	779	324.808	-433.022	D	6.574	6.572	0.002	1.205	79.67	20.23	0	0	0	0.09
2003	276	23	2628	320.933	-436.998	D	7.12	7.119	0.001	2.301	94.71	5.02	0	0	0	0.04
2003	277	23	1	318.65	-445.782	D	6.805	6.805	0	1.666	0	0	0	0	0	0
2003	278	23	2789	340.496	-426.449	D	7.033	7.032	0.001	2.124	96.79	3.2	0	0	0	0.02
2003	279	23	2789	340.496	-426.449	D	9.383	9.344	0.039	7.431	93.65	6.35	0	0	0	0
2003	280	23	2623	320.666	-438.044	D	7.878	7.852	0.026	3.868	97.73	2.26	0	0	0	0.01
2003	281	23	1413	329.207	-425.585	D	7.609	7.609	0	3.336	99.42	0.26	0	0	0	0.01
2003	282	23	1	318.65	-445.782	D	8.905	8.905	0	6.328	0	0	0	0	0	0
2003	283	23	1	318.65	-445.782	D	9.734	9.734	0	8.453	0	0	0	0	0	0
2003	284	23	1	318.65	-445.782	D	9.551	9.551	0	7.97	0	0	0	0	0	0
2003	285	23	2789	340.496	-426.449	D	7.894	7.891	0.003	3.954	97.43	2.5	0	0	0	0.06
2003	286	23	2789	340.496	-426.449	D	6.904	6.894	0.01	1.843	97.3	2.68	0	0	0	0.03
2003	287	23	2781	339.842	-425.379	D	8.871	8.869	0.003	6.238	90.75	9.23	0	0	0	0
2003	288	23	1	318.65	-445.782	D	6.692	6.692	0	1.442	0	0	0	0	0	0
2003	289	23	1	318.65	-445.782	D	6.601	6.601	0	1.262	0	0	0	0	0	0
2003	290	23	2694	327.861	-425.964	D	8.16	8.15	0.01	4.537	86.13	13.86	0	0	0	0
2003	291	23	2684	326.713	-427.014	D	6.624	6.617	0.007	1.293	95.18	4.76	0	0	0	0.04
2003	292	23	2781	339.842	-425.379	D	6.61	6.609	0.001	1.278	99.07	0.85	0	0	0	0.03
2003	293	23	1	318.65	-445.782	D	6.677	6.677	0	1.412	0	0	0	0	0	0
2003	294	23	1	318.65	-445.782	D	6.703	6.703	0	1.464	0	0	0	0	0	0
2003	295	23	2684	326.713	-427.014	D	6.728	6.723	0.005	1.502	99.36	0.55	0	0	0	0.08
2003	296	23	2588	318.452	-445.8	D	6.624	6.61	0.014	1.28	98.55	1.39	0	0	0	0.05

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	297	23	2789	340.496	-426.449	D	6.692	6.691	0.001	1.44	97.01	2.82	0	0	0	0.04
2003	298	23	2041	333.901	-424.879	D	8.184	7.99	0.195	4.174	76.17	23.82	0	0	0	0.01
2003	299	23	2468	334.002	-434.887	D	7.558	7.522	0.036	3.149	73.16	26.84	0	0	0	0
2003	300	23	1	318.65	-445.782	D	6.536	6.536	0	1.135	0	0	0	0	0	0
2003	301	23	1	318.65	-445.782	D	6.598	6.598	0	1.258	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	6.533	6.533	0	1.13	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.414	7.414	0	2.919	0	0	0	0	0	0
2003	304	23	1	318.65	-445.782	D	9.409	9.409	0	7.599	0	0	0	0	0	0
2003	305	23	2781	339.842	-425.379	D	9.424	9.4	0.024	7.576	74.21	25.78	0	0	0	0.01
2003	306	23	1	318.65	-445.782	D	8.79	8.79	0	6.045	0	0	0	0	0	0
2003	307	23	1	318.65	-445.782	D	7.877	7.877	0	3.922	0	0	0	0	0	0
2003	308	23	1	318.65	-445.782	D	7.389	7.389	0	2.864	0	0	0	0	0	0
2003	309	23	2781	339.842	-425.379	D	8.08	8.075	0.005	4.367	89.26	10.69	0	0	0	0.04
2003	310	23	2789	340.496	-426.449	D	9.021	8.919	0.103	6.36	72.23	27.76	0	0	0	0.01
2003	311	23	2563	323.259	-443.79	D	7.982	7.883	0.1	3.935	75.6	24.39	0	0	0	0.01
2003	312	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	6.51	6.51	0	1.085	0	0	0	0	0	0
2003	314	23	1	318.65	-445.782	D	6.616	6.616	0	1.292	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	8.07	8.07	0	4.354	0	0	0	0	0	0
2003	316	23	1	318.65	-445.782	D	9.37	9.37	0	7.497	0	0	0	0	0	0
2003	317	23	1	318.65	-445.782	D	6.486	6.486	0	1.04	0	0	0	0	0	0
2003	318	23	1	318.65	-445.782	D	6.751	6.751	0	1.557	0	0	0	0	0	0
2003	319	23	1	318.65	-445.782	D	8.304	8.304	0	4.891	0	0	0	0	0	0
2003	320	23	1	318.65	-445.782	D	9.626	9.626	0	8.168	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	10.088	10.088	0	9.417	0	0	0	0	0	0
2003	322	23	1	318.65	-445.782	D	9.908	9.908	0	8.922	0	0	0	0	0	0
2003	323	23	1	318.65	-445.782	D	7.343	7.343	0	2.768	0	0	0	0	0	0
2003	324	23	1	318.65	-445.782	D	6.656	6.656	0	1.371	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	9.817	9.817	0	8.677	0	0	0	0	0	0
2003	327	23	1	318.65	-445.782	D	9.125	9.125	0	6.874	0	0	0	0	0	0
2003	328	23	1	318.65	-445.782	D	7.264	7.264	0	2.603	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	6.515	6.515	0	1.095	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.434	7.434	0	2.961	0	0	0	0	0	0
2003	331	23	2789	340.496	-426.449	D	9.169	9.167	0.002	6.981	80.96	19	0	0	0	0.01
2003	332	23	2789	340.496	-426.449	D	6.84	6.839	0.001	1.734	82.45	17.6	0	0	0	0
2003	333	23	1	318.65	-445.782	D	6.494	6.494	0	1.054	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2003	335	23	2684	326.713	-427.014	D	6.674	6.66	0.013	1.379	44.09	55.77	0	0	0	0.13

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	336	23	1	318.65	-445.782	D	6.513	6.513	0	1.092	0	0	0	0	0	0
2003	337	23	1	318.65	-445.782	D	7.872	7.872	0	3.912	0	0	0	0	0	0
2003	338	23	2784	339.87	-426.019	D	9.192	9.16	0.032	6.962	81.35	18.64	0	0	0	0.01
2003	339	23	2468	334.002	-434.887	D	8.538	8.536	0.002	5.436	85.79	14.2	0	0	0	0
2003	340	23	1	318.65	-445.782	D	7.637	7.637	0	3.396	0	0	0	0	0	0
2003	341	23	2789	340.496	-426.449	D	6.655	6.653	0.002	1.365	67.5	32.36	0	0	0	0.03
2003	342	23	1	318.65	-445.782	D	8.111	8.111	0	4.449	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	10.155	10.155	0	9.603	0	0	0	0	0	0
2003	344	23	2758	335.862	-424.454	D	8.936	8.9	0.035	6.315	81.69	18.31	0	0	0	0
2003	345	23	1	318.65	-445.782	D	7.408	7.408	0	2.905	0	0	0	0	0	0
2003	346	23	2781	339.842	-425.379	D	6.848	6.844	0.004	1.742	72.66	27.3	0	0	0	0.02
2003	347	23	2589	318.383	-445.593	D	9.617	9.614	0.003	8.134	72.57	27.41	0	0	0	0.01
2003	348	23	1	318.65	-445.782	D	9.425	9.425	0	7.641	0	0	0	0	0	0
2003	349	23	1	318.65	-445.782	D	9.203	9.203	0	7.071	0	0	0	0	0	0
2003	350	23	1	318.65	-445.782	D	8.775	8.775	0	6.01	0	0	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.444	7.444	0	2.982	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	6.918	6.918	0	1.892	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.467	7.467	0	3.031	0	0	0	0	0	0
2003	354	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	355	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0
2003	356	23	1	318.65	-445.782	D	9.46	9.46	0	7.73	0	0	0	0	0	0
2003	357	23	2789	340.496	-426.449	D	9.467	9.464	0.003	7.742	32.34	67.59	0	0	0	0.02
2003	358	23	1	318.65	-445.782	D	8.21	8.21	0	4.675	0	0	0	0	0	0
2003	359	23	1	318.65	-445.782	D	6.569	6.569	0	1.2	0	0	0	0	0	0
2003	360	23	2788	340.294	-426.448	D	6.838	6.838	0	1.731	79.2	21.86	0	0	0	0.02
2003	361	23	2385	338.165	-425.691	D	6.757	6.757	0	1.569	4.59	0.87	0	0	0	0
2003	362	23	1	318.65	-445.782	D	8.719	8.719	0	5.874	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.299	7.299	0	2.675	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	6.566	6.566	0	1.194	0	0	0	0	0	0
									0.385							
HOLCIM									**DELTA**		**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	6.999	6.999	0	2.056	0	0	0	0	0	0
2003	2	23	2709	330.21	-424.978	D	9.571	9.354	0.217	7.456	18.5	81.37	0	0	0	0.13
2003	3	23	1	318.65	-445.782	D	7.872	7.872	0	3.912	0	0	0	0	0	0
2003	4	23	1	318.65	-445.782	D	6.784	6.784	0	1.624	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	5	23	1	318.65	-445.782	D	7.26	7.26	0	2.595	0	0	0	0	0	0
2003	6	23	1	318.65	-445.782	D	8.242	8.242	0	4.748	0	0	0	0	0	0
2003	7	23	1	318.65	-445.782	D	7.239	7.239	0	2.55	0	0	0	0	0	0
2003	8	23	1	318.65	-445.782	D	6.71	6.71	0	1.477	0	0	0	0	0	0
2003	9	23	1	318.65	-445.782	D	6.922	6.922	0	1.9	0	0	0	0	0	0
2003	10	23	1	318.65	-445.782	D	6.587	6.587	0	1.234	0	0	0	0	0	0
2003	11	23	1	318.65	-445.782	D	6.549	6.549	0	1.161	0	0	0	0	0	0
2003	12	23	1	318.65	-445.782	D	6.5	6.5	0	1.066	0	0	0	0	0	0
2003	13	23	1	318.65	-445.782	D	6.708	6.708	0	1.473	0	0	0	0	0	0
2003	14	23	1	318.65	-445.782	D	9.224	9.224	0	7.124	0	0	0	0	0	0
2003	15	23	1	318.65	-445.782	D	6.625	6.625	0	1.309	0	0	0	0	0	0
2003	16	23	2767	337.165	-425.117	D	8.639	8.274	0.364	4.822	50.08	49.79	0	0	0	0.13
2003	17	23	2468	334.002	-434.887	D	8.105	8.101	0.005	4.425	57.77	42.19	0	0	0	0.06
2003	18	23	1	318.65	-445.782	D	6.57	6.57	0	1.203	0	0	0	0	0	0
2003	19	23	1	318.65	-445.782	D	6.651	6.651	0	1.361	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	6.624	6.624	0	1.308	0	0	0	0	0	0
2003	21	23	2784	339.87	-426.019	D	7.664	7.533	0.131	3.171	47.63	52.28	0	0	0	0.08
2003	22	23	2706	329.518	-425.046	D	7.802	7.571	0.23	3.254	24.85	74.63	0	0	0	0.52
2003	23	23	1	318.65	-445.782	D	6.876	6.876	0	1.806	0	0	0	0	0	0
2003	24	23	1	318.65	-445.782	D	6.593	6.593	0	1.246	0	0	0	0	0	0
2003	25	23	1	318.65	-445.782	D	6.497	6.497	0	1.06	0	0	0	0	0	0
2003	26	23	1	318.65	-445.782	D	7.121	7.121	0	2.305	0	0	0	0	0	0
2003	27	23	1	318.65	-445.782	D	6.778	6.778	0	1.612	0	0	0	0	0	0
2003	28	23	1	318.65	-445.782	D	8.235	8.235	0	4.732	0	0	0	0	0	0
2003	29	23	2789	340.496	-426.449	D	9.799	9.793	0.006	8.612	59.68	40.19	0	0	0	0.12
2003	30	23	2704	329.056	-425.092	D	9.818	9.151	0.667	6.94	64.68	35.27	0	0	0	0.05
2003	31	23	1415	329.185	-425.086	D	7.067	7.067	0	2.196	80.31	19.45	0	0	0	0.3
2003	32	23	1	318.65	-445.782	D	6.936	6.936	0	1.929	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	6.87	6.87	0	1.795	0	0	0	0	0	0
2003	34	23	1	318.65	-445.782	D	9.527	9.527	0	7.906	0	0	0	0	0	0
2003	35	23	1	318.65	-445.782	D	7.1	7.1	0	2.263	0	0	0	0	0	0
2003	36	23	1	318.65	-445.782	D	6.56	6.56	0	1.182	0	0	0	0	0	0
2003	37	23	2781	339.842	-425.379	D	9.214	9.182	0.032	7.018	56.51	43.44	0	0	0	0.04
2003	38	23	2789	340.496	-426.449	D	8.107	8.011	0.097	4.221	59.31	40.66	0	0	0	0.03
2003	39	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2003	40	23	1	318.65	-445.782	D	7.657	7.657	0	3.439	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	9.339	9.339	0	7.418	0	0	0	0	0	0
2003	42	23	1	318.65	-445.782	D	6.733	6.733	0	1.522	0	0	0	0	0	0
2003	43	23	1	318.65	-445.782	D	6.521	6.521	0	1.107	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	44	23	1	318.65	-445.782	D	6.659	6.659	0	1.376	0	0	0	0	0	0
2003	45	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2003	46	23	1	318.65	-445.782	D	10.176	10.176	0	9.662	0	0	0	0	0	0
2003	47	23	2781	339.842	-425.379	D	8.891	8.654	0.237	5.716	35.27	64.51	0	0	0	0.22
2003	48	23	2789	340.496	-426.449	D	8.999	8.273	**0.725**	4.82	61.02	38.89	0	0	0	0.08
2003	49	23	1	318.65	-445.782	D	6.86	6.86	0	1.776	0	0	0	0	0	0
2003	50	23	2379	338.23	-427.187	D	9.195	9.195	0	7.051	68.38	25.37	0	0	0	0.05
2003	51	23	2704	329.056	-425.092	D	10.656	9.524	**1.132**	7.899	66.09	33.87	0	0	0	0.04
2003	52	23	2789	340.496	-426.449	D	9.764	9.679	0.085	8.307	75.6	24.37	0	0	0	0.02
2003	53	23	2789	340.496	-426.449	D	9.637	9.493	0.144	7.818	66.3	33.62	0	0	0	0.08
2003	54	23	1	318.65	-445.782	D	8.727	8.727	0	5.892	0	0	0	0	0	0
2003	55	23	2781	339.842	-425.379	D	8.612	8.461	0.151	5.257	58.44	41.51	0	0	0	0.05
2003	56	23	2789	340.496	-426.449	D	7.461	7.411	0.05	2.913	37.07	62.62	0	0	0	0.32
2003	57	23	2789	340.496	-426.449	D	9.07	8.558	**0.512**	5.487	46.7	53.23	0	0	0	0.07
2003	58	23	2693	327.829	-426.17	D	8.984	8.768	0.216	5.991	57.8	42.15	0	0	0	0.05
2003	59	23	2694	327.861	-425.964	D	9.069	8.967	0.102	6.48	65.6	34.35	0	0	0	0.04
2003	60	23	2706	329.518	-425.046	D	9.673	9.651	0.022	8.233	70.48	29.49	0	0	0	0.03
2003	61	23	2781	339.842	-425.379	D	9.152	9.119	0.032	6.86	72.6	27.37	0	0	0	0.03
2003	62	23	2789	340.496	-426.449	D	7.374	7.373	0	2.832	77.18	21.49	0	0	0	0.14
2003	63	23	1	318.65	-445.782	D	7.002	7.002	0	2.063	0	0	0	0	0	0
2003	64	23	1	318.65	-445.782	D	9.117	9.117	0	6.855	0	0	0	0	0	0
2003	65	23	2789	340.496	-426.449	D	7.573	7.573	0	3.258	69.74	29.91	0	0	0	0.62
2003	66	23	2789	340.496	-426.449	D	6.951	6.945	0.006	1.946	65.93	33.8	0	0	0	0.25
2003	67	23	2781	339.842	-425.379	D	7.068	7.068	0	2.196	91.03	8.94	0	0	0	0.28
2003	68	23	1	318.65	-445.782	D	7.068	7.068	0	2.198	0	0	0	0	0	0
2003	69	23	2789	340.496	-426.449	D	6.561	6.547	0.014	1.158	50.61	48.48	0	0	0	0.9
2003	70	23	2789	340.496	-426.449	D	6.602	6.546	0.057	1.155	61.6	37.83	0	0	0	0.57
2003	71	23	2789	340.496	-426.449	D	7.117	7.113	0.004	2.289	85.53	14.04	0	0	0	0.44
2003	72	23	1	318.65	-445.782	D	8.466	8.466	0	5.269	0	0	0	0	0	0
2003	73	23	2694	327.861	-425.964	D	9.202	8.674	**0.528**	5.764	68.51	31.43	0	0	0	0.06
2003	74	23	2684	326.713	-427.014	D	8.199	8.138	0.061	4.509	84.47	15.45	0	0	0	0.08
2003	75	23	2707	329.748	-425.023	D	7.29	7.289	0	2.656	97.12	1.26	0	0	0	0.22
2003	76	23	1	318.65	-445.782	D	8.644	8.644	0	5.692	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	8.653	8.653	0	5.713	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	8.871	8.871	0	6.244	0	0	0	0	0	0
2003	79	23	2758	335.862	-424.454	D	9.22	9.213	0.007	7.097	59.58	40.36	0	0	0	0.05
2003	80	23	2781	339.842	-425.379	D	8.959	8.832	0.127	6.147	62.1	37.86	0	0	0	0.04
2003	81	23	1	318.65	-445.782	D	6.545	6.545	0	1.154	0	0	0	0	0	0
2003	82	23	1	318.65	-445.782	D	6.586	6.586	0	1.234	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	83	23	1	318.65	-445.782	D	6.82	6.82	0	1.696	0	0	0	0	0	0
2003	84	23	1	318.65	-445.782	D	7.607	7.607	0	3.331	0	0	0	0	0	0
2003	85	23	2468	334.002	-434.887	D	9.065	8.823	0.242	6.126	44.86	54.95	0	0	0	0.19
2003	86	23	2628	320.933	-436.998	D	6.629	6.616	0.012	1.292	86.41	12.79	0	0	0	0.8
2003	87	23	1	318.65	-445.782	D	8.676	8.676	0	5.769	0	0	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.301	7.301	0	2.679	0	0	0	0	0	0
2003	89	23	1	318.65	-445.782	D	6.525	6.525	0	1.115	0	0	0	0	0	0
2003	90	23	1	318.65	-445.782	D	6.478	6.478	0	1.023	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	6.547	6.547	0	1.157	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	6.893	6.893	0	1.842	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.231	7.231	0	2.533	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	8.075	8.075	0	4.366	0	0	0	0	0	0
2003	95	23	1	318.65	-445.782	D	6.747	6.747	0	1.55	0	0	0	0	0	0
2003	96	23	2781	339.842	-425.379	D	8.08	8.057	0.024	4.325	65.9	34.06	0	0	0	0.05
2003	97	23	1	318.65	-445.782	D	9.082	9.082	0	6.766	0	0	0	0	0	0
2003	98	23	2789	340.496	-426.449	D	7.434	7.431	0.002	2.955	66.3	33.47	0	0	0	0.16
2003	99	23	1	318.65	-445.782	D	6.95	6.95	0	1.956	0	0	0	0	0	0
2003	100	23	2789	340.496	-426.449	D	6.594	6.591	0.002	1.244	41.12	57.69	0	0	0	1.15
2003	101	23	2789	340.496	-426.449	D	6.49	6.479	0.011	1.025	89.65	9.47	0	0	0	0.89
2003	102	23	2789	340.496	-426.449	D	6.499	6.495	0.003	1.057	97.34	2.11	0	0	0	0.55
2003	103	23	1	318.65	-445.782	D	6.523	6.523	0	1.11	0	0	0	0	0	0
2003	104	23	1	318.65	-445.782	D	6.676	6.676	0	1.411	0	0	0	0	0	0
2003	105	23	1	318.65	-445.782	D	6.637	6.637	0	1.334	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	6.669	6.669	0	1.396	0	0	0	0	0	0
2003	107	23	1	318.65	-445.782	D	7.437	7.437	0	2.967	0	0	0	0	0	0
2003	108	23	1	318.65	-445.782	D	7.49	7.49	0	3.08	0	0	0	0	0	0
2003	109	23	1	318.65	-445.782	D	7.406	7.406	0	2.902	0	0	0	0	0	0
2003	110	23	1	318.65	-445.782	D	9.045	9.045	0	6.674	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.014	7.014	0	2.087	0	0	0	0	0	0
2003	112	23	1	318.65	-445.782	D	6.538	6.538	0	1.139	0	0	0	0	0	0
2003	113	23	2789	340.496	-426.449	D	6.605	6.588	0.017	1.237	96.6	2.82	0	0	0	0.57
2003	114	23	2704	329.056	-425.092	D	8.026	8.025	0.001	4.255	89.75	10.02	0	0	0	0.25
2003	115	23	2758	335.862	-424.454	D	8.483	8.425	0.059	5.173	88.34	11.47	0	0	0	0.19
2003	116	23	2789	340.496	-426.449	D	8.711	8.355	0.356	5.009	64.86	34.97	0	0	0	0.17
2003	117	23	2600	318.952	-443.12	D	7.086	7.057	0.028	2.175	89.69	10.09	0	0	0	0.21
2003	118	23	2275	336.168	-425.529	D	7.47	7.47	0	3.038	95.63	0.65	0	0	0	0.23
2003	119	23	2780	339.614	-425.419	D	7.485	7.484	0.001	3.068	93.61	6.28	0	0	0	0.09
2003	120	23	1517	329.93	-425.053	D	8.151	8.151	0	4.54	97.23	1.58	0	0	0	0.08
2003	121	23	1	318.65	-445.782	D	7.624	7.624	0	3.367	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	122	23	1	318.65	-445.782	D	8.826	8.826	0	6.133	0	0	0	0	0	0
2003	123	23	2789	340.496	-426.449	D	8.707	8.507	0.2	5.366	87.19	12.67	0	0	0	0.13
2003	124	23	2255	335.942	-426.039	D	7.5	7.318	0.182	2.716	98.19	1.69	0	0	0	0.12
2003	125	23	1	318.65	-445.782	D	8.789	8.789	0	6.042	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	8.385	8.385	0	5.081	0	0	0	0	0	0
2003	127	23	2781	339.842	-425.379	D	8.588	8.583	0.004	5.548	77.89	22.01	0	0	0	0.11
2003	128	23	1	318.65	-445.782	D	8.057	8.057	0	4.326	0	0	0	0	0	0
2003	129	23	1	318.65	-445.782	D	7.642	7.642	0	3.407	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	8.486	8.486	0	5.317	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.409	7.409	0	2.907	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	6.899	6.899	0	1.854	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	9.399	9.399	0	7.572	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	8.763	8.763	0	5.98	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	9.31	9.31	0	7.344	0	0	0	0	0	0
2003	137	23	2779	339.386	-425.461	D	9.372	9.371	0.001	7.5	97.8	1.84	0	0	0	0.11
2003	138	23	2684	326.713	-427.014	D	9.191	9.093	0.098	6.795	71.17	28.77	0	0	0	0.06
2003	139	23	2628	320.933	-436.998	D	8.783	8.783	0	6.027	99.37	0.56	0	0	0	0.16
2003	140	23	2708	329.979	-425	D	8.352	8.292	0.06	4.863	89.33	10.63	0	0	0	0.04
2003	141	23	2552	324.659	-442.591	D	6.811	6.723	0.088	1.502	87.27	12.08	0	0	0	0.65
2003	142	23	2596	318.977	-444.095	D	7.507	7.283	0.224	2.641	89.56	10.2	0	0	0	0.24
2003	143	23	2781	339.842	-425.379	D	6.911	6.676	0.235	1.409	95.17	4.35	0	0	0	0.48
2003	144	23	2789	340.496	-426.449	D	8.102	7.793	0.309	3.737	96.9	2.96	0	0	0	0.14
2003	145	23	2781	339.842	-425.379	D	9.635	9.204	0.431	7.074	88.86	11.07	0	0	0	0.08
2003	146	23	2447	336.137	-430.956	D	9.112	8.253	**0.859**	4.773	90.44	9.51	0	0	0	0.05
2003	147	23	2789	340.496	-426.449	D	6.822	6.656	0.167	1.369	90.46	9.11	0	0	0	0.43
2003	148	23	1	318.65	-445.782	D	6.596	6.596	0	1.253	0	0	0	0	0	0
2003	149	23	1	318.65	-445.782	D	7.175	7.175	0	2.418	0	0	0	0	0	0
2003	150	23	1	318.65	-445.782	D	6.614	6.614	0	1.289	0	0	0	0	0	0
2003	151	23	1	318.65	-445.782	D	7.098	7.098	0	2.258	0	0	0	0	0	0
2003	152	23	2789	340.496	-426.449	D	7.229	7.169	0.061	2.404	85.95	13.79	0	0	0	0.27
2003	153	23	2704	329.056	-425.092	D	8.713	8.693	0.02	5.81	97.45	2.41	0	0	0	0.14
2003	154	23	2781	339.842	-425.379	D	9.312	9.118	0.194	6.857	93.84	5.88	0	0	0	0.27
2003	155	23	2789	340.496	-426.449	D	7.687	7.66	0.027	3.446	96.56	3.17	0	0	0	0.26
2003	156	23	1	318.65	-445.782	D	6.821	6.821	0	1.697	0	0	0	0	0	0
2003	157	23	2789	340.496	-426.449	D	8.693	8.688	0.005	5.798	97.15	2.77	0	0	0	0.06
2003	158	23	2789	340.496	-426.449	D	7.561	7.56	0	3.23	87.55	12.01	0	0	0	0.1
2003	159	23	1	318.65	-445.782	D	7.001	7.001	0	2.06	0	0	0	0	0	0
2003	160	23	1	318.65	-445.782	D	6.621	6.621	0	1.301	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	161	23	1	318.65	-445.782	D	7.499	7.499	0	3.098	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	8.817	8.817	0	6.112	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	8.874	8.874	0	6.251	0	0	0	0	0	0
2003	164	23	2757	335.63	-424.484	D	9.213	9.212	0	7.095	98.91	0.5	0	0	0	0.23
2003	165	23	2709	330.21	-424.978	D	9.278	8.299	**0.98**	4.879	87.96	11.99	0	0	0	0.05
2003	166	23	2781	339.842	-425.379	D	9.405	8.119	**1.286**	4.467	83.16	16.76	0	0	0	0.08
2003	167	23	2597	318.971	-443.851	D	8.138	8.097	0.041	4.417	97.46	2.39	0	0	0	0.15
2003	168	23	12	319.07	-444.015	D	7.657	7.645	0.012	3.413	93.98	5.9	0	0	0	0.11
2003	169	23	2695	328.074	-426.025	D	8.941	8.936	0.005	6.402	97.65	2.28	0	0	0	0.05
2003	170	23	2781	339.842	-425.379	D	8.86	8.536	0.324	5.436	96.72	3.16	0	0	0	0.11
2003	171	23	2758	335.862	-424.454	D	9.632	8.408	**1.224**	5.133	89.74	10.2	0	0	0	0.05
2003	172	23	2588	318.452	-445.8	D	6.973	6.969	0.004	1.995	99.24	0.56	0	0	0	0.2
2003	173	23	1	318.65	-445.782	D	6.92	6.92	0	1.897	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.108	7.108	0	2.279	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.784	7.784	0	3.718	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	8.399	8.399	0	5.113	0	0	0	0	0	0
2003	177	23	1	318.65	-445.782	D	8.699	8.699	0	5.825	0	0	0	0	0	0
2003	178	23	1	318.65	-445.782	D	6.832	6.832	0	1.719	0	0	0	0	0	0
2003	179	23	2789	340.496	-426.449	D	6.658	6.647	0.011	1.352	98.37	1.12	0	0	0	0.49
2003	180	23	2781	339.842	-425.379	D	6.731	6.717	0.015	1.49	98.66	1.01	0	0	0	0.31
2003	181	23	2781	339.842	-425.379	D	7.104	7.102	0.002	2.267	98.03	1.75	0	0	0	0.18
2003	182	23	2708	329.979	-425	D	8.863	8.86	0.003	6.216	97.07	2.76	0	0	0	0.05
2003	183	23	2781	339.842	-425.379	D	7.561	7.56	0.001	3.23	97.5	2.4	0	0	0	0.08
2003	184	23	2411	339.428	-426.135	D	7.376	7.375	0	2.836	97.52	0.18	0	0	0	0.11
2003	185	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	8.318	8.318	0	4.923	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.086	7.086	0	2.234	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.739	7.739	0	3.619	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	8.593	8.593	0	5.571	0	0	0	0	0	0
2003	192	23	1	318.65	-445.782	D	7.285	7.285	0	2.647	0	0	0	0	0	0
2003	193	23	1	318.65	-445.782	D	7.83	7.83	0	3.819	0	0	0	0	0	0
2003	194	23	1	318.65	-445.782	D	7.262	7.262	0	2.597	0	0	0	0	0	0
2003	195	23	2781	339.842	-425.379	D	8.452	8.448	0.005	5.227	96.15	3.77	0	0	0	0.05
2003	196	23	1	318.65	-445.782	D	7.902	7.902	0	3.979	0	0	0	0	0	0
2003	197	23	1	318.65	-445.782	D	6.957	6.957	0	1.972	0	0	0	0	0	0
2003	198	23	1	318.65	-445.782	D	7.183	7.183	0	2.433	0	0	0	0	0	0
2003	199	23	2789	340.496	-426.449	D	7.121	7.116	0.005	2.295	99.63	0.12	0	0	0	0.24

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	200	23	2789	340.496	-426.449	D	7.721	7.719	0.002	3.574	99.69	0.19	0	0	0	0.16
2003	201	23	1	318.65	-445.782	D	8.338	8.338	0	4.97	0	0	0	0	0	0
2003	202	23	1	318.65	-445.782	D	8.079	8.079	0	4.375	0	0	0	0	0	0
2003	203	23	1	318.65	-445.782	D	7.552	7.552	0	3.213	0	0	0	0	0	0
2003	204	23	2789	340.496	-426.449	D	7.041	7.04	0.001	2.139	98.02	0.87	0	0	0	1.01
2003	205	23	2789	340.496	-426.449	D	7.183	6.943	0.24	1.942	96.35	3.33	0	0	0	0.32
2003	206	23	2758	335.862	-424.454	D	7.237	7.088	0.148	2.239	97.65	2.16	0	0	0	0.19
2003	207	23	2755	335.167	-424.545	D	6.837	6.836	0	1.728	99.31	0.12	0	0	0	0.28
2003	208	23	1	318.65	-445.782	D	7.085	7.085	0	2.232	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.085	7.085	0	2.233	0	0	0	0	0	0
2003	210	23	2781	339.842	-425.379	D	8.465	8.415	0.05	5.151	99.43	0.51	0	0	0	0.06
2003	211	23	2781	339.842	-425.379	D	9.667	9.347	0.319	7.44	94.15	5.8	0	0	0	0.04
2003	212	23	2789	340.496	-426.449	D	7.849	7.607	0.242	3.331	96.31	3.61	0	0	0	0.08
2003	213	23	2468	334.002	-434.887	D	6.918	6.894	0.024	1.843	99.43	0.45	0	0	0	0.13
2003	214	23	2250	335.996	-427.285	D	7.678	7.672	0.007	3.471	99.54	0.38	0	0	0	0.07
2003	215	23	1	318.65	-445.782	D	7.59	7.59	0	3.294	0	0	0	0	0	0
2003	216	23	1	318.65	-445.782	D	7.802	7.802	0	3.758	0	0	0	0	0	0
2003	217	23	1	318.65	-445.782	D	8.259	8.259	0	4.787	0	0	0	0	0	0
2003	218	23	2784	339.87	-426.019	D	8.643	8.603	0.04	5.595	99.3	0.51	0	0	0	0.18
2003	219	23	2563	323.259	-443.79	D	10.211	8.443	**1.768**	5.214	90	9.92	0	0	0	0.07
2003	220	23	2588	318.452	-445.8	D	7.238	7.094	0.144	2.25	98.4	1.37	0	0	0	0.23
2003	221	23	2255	335.942	-426.039	D	7.347	6.982	0.365	2.022	97.63	2.06	0	0	0	0.3
2003	222	23	2789	340.496	-426.449	D	7.305	7.144	0.161	2.352	98.3	1.38	0	0	0	0.32
2003	223	23	2571	322.646	-445.476	D	7.821	7.272	**0.548**	2.62	98.36	1.46	0	0	0	0.18
2003	224	23	2684	326.713	-427.014	D	7.304	7.109	0.195	2.28	95.3	4.5	0	0	0	0.19
2003	225	23	1	318.65	-445.782	D	8.321	8.321	0	4.931	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	8.753	8.753	0	5.955	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.337	7.337	0	2.755	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.347	7.347	0	2.776	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	6.982	6.982	0	2.021	0	0	0	0	0	0
2003	230	23	2789	340.496	-426.449	D	6.903	6.901	0.001	1.859	99.39	0.26	0	0	0	0.32
2003	231	23	2789	340.496	-426.449	D	6.899	6.826	0.073	1.706	98.82	0.91	0	0	0	0.27
2003	232	23	2789	340.496	-426.449	D	6.969	6.86	0.109	1.775	98.38	1.45	0	0	0	0.17
2003	233	23	2789	340.496	-426.449	D	6.977	6.921	0.056	1.898	98.51	1.34	0	0	0	0.15
2003	234	23	2789	340.496	-426.449	D	7.148	7.113	0.036	2.289	99.24	0.64	0	0	0	0.12
2003	235	23	2789	340.496	-426.449	D	7.094	7.028	0.066	2.114	99.3	0.29	0	0	0	0.41
2003	236	23	2695	328.074	-426.025	D	9.09	8.535	**0.554**	5.433	93.44	6.48	0	0	0	0.08
2003	237	23	1548	330.222	-426.04	D	7.958	7.872	0.085	3.912	98.56	1.34	0	0	0	0.1
2003	238	23	2784	339.87	-426.019	D	7.384	7.375	0.009	2.835	99.73	0.15	0	0	0	0.11

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	239	23	2417	339.654	-425.626	D	7.03	7.03	0	2.119	99.17	0.2	0	0	0	0.13
2003	240	23	1	318.65	-445.782	D	7.105	7.105	0	2.273	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	8.394	8.394	0	5.101	0	0	0	0	0	0
2003	242	23	1	318.65	-445.782	D	8.773	8.773	0	6.004	0	0	0	0	0	0
2003	243	23	1	318.65	-445.782	D	9.309	9.309	0	7.34	0	0	0	0	0	0
2003	244	23	1	318.65	-445.782	D	9.456	9.456	0	7.721	0	0	0	0	0	0
2003	245	23	2704	329.056	-425.092	D	9.825	9.746	0.079	8.487	97.42	2.53	0	0	0	0.05
2003	246	23	2589	318.383	-445.593	D	10.409	9.235	**1.175**	7.152	80.34	19.59	0	0	0	0.07
2003	247	23	2563	323.259	-443.79	D	7.854	7.678	0.176	3.485	97.48	2.29	0	0	0	0.22
2003	248	23	2790	340.421	-426.562	D	6.773	6.749	0.024	1.553	93.56	5.29	0	0	0	1.14
2003	249	23	2684	326.713	-427.014	D	6.897	6.875	0.022	1.805	95.98	3.44	0	0	0	0.58
2003	250	23	2684	326.713	-427.014	D	6.966	6.965	0	1.988	99.19	0.31	0	0	0	0.59
2003	251	23	1	318.65	-445.782	D	7.063	7.063	0	2.187	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.368	7.368	0	2.821	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	8.253	8.253	0	4.773	0	0	0	0	0	0
2003	255	23	1	318.65	-445.782	D	9.962	9.962	0	9.071	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	9.428	9.428	0	7.649	0	0	0	0	0	0
2003	257	23	1	318.65	-445.782	D	8.74	8.74	0	5.924	0	0	0	0	0	0
2003	258	23	1	318.65	-445.782	D	6.717	6.717	0	1.49	0	0	0	0	0	0
2003	259	23	1	318.65	-445.782	D	6.641	6.641	0	1.341	0	0	0	0	0	0
2003	260	23	2789	340.496	-426.449	D	6.756	6.75	0.006	1.556	97.74	1.82	0	0	0	0.4
2003	261	23	2781	339.842	-425.379	D	6.776	6.772	0.004	1.6	97.73	2	0	0	0	0.23
2003	262	23	2040	333.912	-425.128	D	7.893	7.893	0	3.957	89.6	0.34	0	0	0	0.2
2003	263	23	1	318.65	-445.782	D	6.579	6.579	0	1.219	0	0	0	0	0	0
2003	264	23	2789	340.496	-426.449	D	7.091	7.049	0.042	2.158	97.34	2.34	0	0	0	0.32
2003	265	23	2784	339.87	-426.019	D	9.108	9.106	0.001	6.827	96.02	3.7	0	0	0	0.05
2003	266	23	1	318.65	-445.782	D	6.857	6.857	0	1.769	0	0	0	0	0	0
2003	267	23	1	318.65	-445.782	D	6.83	6.83	0	1.715	0	0	0	0	0	0
2003	268	23	2789	340.496	-426.449	D	6.843	6.838	0.005	1.732	97.48	1.09	0	0	0	1.45
2003	269	23	2789	340.496	-426.449	D	7.075	7.039	0.036	2.138	94.67	4.81	0	0	0	0.52
2003	270	23	1	318.65	-445.782	D	7.334	7.334	0	2.749	0	0	0	0	0	0
2003	271	23	1	318.65	-445.782	D	6.654	6.654	0	1.366	0	0	0	0	0	0
2003	272	23	1	318.65	-445.782	D	6.53	6.53	0	1.124	0	0	0	0	0	0
2003	273	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2003	274	23	1	318.65	-445.782	D	8.096	8.096	0	4.415	0	0	0	0	0	0
2003	275	23	2434	337.437	-428.764	D	6.629	6.574	0.056	1.209	37.98	60.89	0	0	0	1.13
2003	276	23	2589	318.383	-445.593	D	7.102	7.095	0.008	2.251	88.81	10.39	0	0	0	0.79
2003	277	23	1	318.65	-445.782	D	6.805	6.805	0	1.666	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	278	23	1	318.65	-445.782	D	7.273	7.273	0	2.622	0	0	0	0	0	0
2003	279	23	2789	340.496	-426.449	D	9.351	9.344	0.007	7.431	98.18	1.65	0	0	0	0.14
2003	280	23	2255	335.942	-426.039	D	7.959	7.849	0.109	3.861	96.44	3.45	0	0	0	0.11
2003	281	23	2694	327.861	-425.964	D	7.645	7.609	0.035	3.336	97.07	2.82	0	0	0	0.11
2003	282	23	2277	336.146	-425.03	D	8.918	8.917	0.001	6.357	98.98	0.94	0	0	0	0.12
2003	283	23	1	318.65	-445.782	D	9.734	9.734	0	8.453	0	0	0	0	0	0
2003	284	23	1	318.65	-445.782	D	9.551	9.551	0	7.97	0	0	0	0	0	0
2003	285	23	1	318.65	-445.782	D	7.633	7.633	0	3.387	0	0	0	0	0	0
2003	286	23	2789	340.496	-426.449	D	6.895	6.894	0.002	1.843	94	5.7	0	0	0	0.34
2003	287	23	2781	339.842	-425.379	D	8.87	8.869	0.001	6.238	80.42	19.52	0	0	0	0.02
2003	288	23	1	318.65	-445.782	D	6.692	6.692	0	1.442	0	0	0	0	0	0
2003	289	23	1	318.65	-445.782	D	6.601	6.601	0	1.262	0	0	0	0	0	0
2003	290	23	2694	327.861	-425.964	D	8.459	8.15	0.309	4.537	50.01	49.89	0	0	0	0.1
2003	291	23	2789	340.496	-426.449	D	6.705	6.617	0.089	1.294	85.27	14.13	0	0	0	0.61
2003	292	23	2468	334.002	-434.887	D	6.61	6.604	0.006	1.268	98.05	1.47	0	0	0	0.5
2003	293	23	1	318.65	-445.782	D	6.677	6.677	0	1.412	0	0	0	0	0	0
2003	294	23	1	318.65	-445.782	D	6.703	6.703	0	1.464	0	0	0	0	0	0
2003	295	23	2611	319.699	-440.64	D	6.731	6.73	0.002	1.516	97.76	1.01	0	0	0	1.23
2003	296	23	2588	318.452	-445.8	D	6.647	6.61	0.037	1.28	95.35	3.79	0	0	0	0.86
2003	297	23	2429	338.563	-428.651	D	6.691	6.691	0	1.44	97.33	0.24	0	0	0	0.6
2003	298	23	1	318.65	-445.782	D	7.839	7.839	0	3.838	0	0	0	0	0	0
2003	299	23	1	318.65	-445.782	D	7.397	7.397	0	2.882	0	0	0	0	0	0
2003	300	23	1	318.65	-445.782	D	6.536	6.536	0	1.135	0	0	0	0	0	0
2003	301	23	1	318.65	-445.782	D	6.598	6.598	0	1.258	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	6.533	6.533	0	1.13	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.414	7.414	0	2.919	0	0	0	0	0	0
2003	304	23	1	318.65	-445.782	D	9.409	9.409	0	7.599	0	0	0	0	0	0
2003	305	23	1	318.65	-445.782	D	9.384	9.384	0	7.535	0	0	0	0	0	0
2003	306	23	1	318.65	-445.782	D	8.79	8.79	0	6.045	0	0	0	0	0	0
2003	307	23	1	318.65	-445.782	D	7.877	7.877	0	3.922	0	0	0	0	0	0
2003	308	23	1	318.65	-445.782	D	7.389	7.389	0	2.864	0	0	0	0	0	0
2003	309	23	1	318.65	-445.782	D	7.708	7.708	0	3.55	0	0	0	0	0	0
2003	310	23	2781	339.842	-425.379	D	10.73	8.891	**1.839**	6.292	39.22	60.68	0	0	0	0.1
2003	311	23	2704	329.056	-425.092	D	8.275	7.865	0.41	3.895	38.46	61.3	0	0	0	0.24
2003	312	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	6.51	6.51	0	1.085	0	0	0	0	0	0
2003	314	23	1	318.65	-445.782	D	6.616	6.616	0	1.292	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	8.07	8.07	0	4.354	0	0	0	0	0	0
2003	316	23	1	318.65	-445.782	D	9.37	9.37	0	7.497	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	317	23	1	318.65	-445.782	D	6.486	6.486	0	1.04	0	0	0	0	0	0
2003	318	23	1	318.65	-445.782	D	6.751	6.751	0	1.557	0	0	0	0	0	0
2003	319	23	1	318.65	-445.782	D	8.304	8.304	0	4.891	0	0	0	0	0	0
2003	320	23	1	318.65	-445.782	D	9.626	9.626	0	8.168	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	10.088	10.088	0	9.417	0	0	0	0	0	0
2003	322	23	1	318.65	-445.782	D	9.908	9.908	0	8.922	0	0	0	0	0	0
2003	323	23	1	318.65	-445.782	D	7.343	7.343	0	2.768	0	0	0	0	0	0
2003	324	23	1	318.65	-445.782	D	6.656	6.656	0	1.371	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	9.817	9.817	0	8.677	0	0	0	0	0	0
2003	327	23	2708	329.979	-425	D	9.027	9.009	0.018	6.585	65.32	34.64	0	0	0	0.03
2003	328	23	1	318.65	-445.782	D	7.264	7.264	0	2.603	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	6.515	6.515	0	1.095	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.434	7.434	0	2.961	0	0	0	0	0	0
2003	331	23	1	318.65	-445.782	D	9.185	9.185	0	7.026	0	0	0	0	0	0
2003	332	23	1	318.65	-445.782	D	6.842	6.842	0	1.739	0	0	0	0	0	0
2003	333	23	1	318.65	-445.782	D	6.494	6.494	0	1.054	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2003	335	23	1	318.65	-445.782	D	6.66	6.66	0	1.378	0	0	0	0	0	0
2003	336	23	2789	340.496	-426.449	D	6.556	6.512	0.044	1.089	48.42	50.77	0	0	0	0.8
2003	337	23	2781	339.842	-425.379	D	8.185	8.178	0.007	4.6	41.82	57.66	0	0	0	0.54
2003	338	23	2781	339.842	-425.379	D	9.159	9.154	0.005	6.948	59.02	40.86	0	0	0	0.12
2003	339	23	2789	340.496	-426.449	D	8.528	8.486	0.042	5.316	61.28	38.67	0	0	0	0.05
2003	340	23	1	318.65	-445.782	D	7.637	7.637	0	3.396	0	0	0	0	0	0
2003	341	23	2789	340.496	-426.449	D	6.658	6.653	0.004	1.365	51.67	48.03	0	0	0	0.28
2003	342	23	1	318.65	-445.782	D	8.111	8.111	0	4.449	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	10.155	10.155	0	9.603	0	0	0	0	0	0
2003	344	23	2758	335.862	-424.454	D	9.326	8.9	0.426	6.315	60.19	39.76	0	0	0	0.05
2003	345	23	1	318.65	-445.782	D	7.408	7.408	0	2.905	0	0	0	0	0	0
2003	346	23	2789	340.496	-426.449	D	6.835	6.832	0.003	1.719	69.31	30.29	0	0	0	0.4
2003	347	23	2652	323.833	-433.511	D	9.949	9.615	0.334	8.138	63.96	35.99	0	0	0	0.05
2003	348	23	2789	340.496	-426.449	D	9.529	9.43	0.099	7.653	71.86	28.11	0	0	0	0.03
2003	349	23	1	318.65	-445.782	D	9.203	9.203	0	7.071	0	0	0	0	0	0
2003	350	23	1	318.65	-445.782	D	8.775	8.775	0	6.01	0	0	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.444	7.444	0	2.982	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	6.918	6.918	0	1.892	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.467	7.467	0	3.031	0	0	0	0	0	0
2003	354	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	355	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	356	23	1	318.65	-445.782	D	9.46	9.46	0	7.73	0	0	0	0	0	0
2003	357	23	1	318.65	-445.782	D	9.378	9.378	0	7.518	0	0	0	0	0	0
2003	358	23	1	318.65	-445.782	D	8.21	8.21	0	4.675	0	0	0	0	0	0
2003	359	23	1	318.65	-445.782	D	6.569	6.569	0	1.2	0	0	0	0	0	0
2003	360	23	1	318.65	-445.782	D	6.789	6.789	0	1.633	0	0	0	0	0	0
2003	361	23	1	318.65	-445.782	D	6.753	6.753	0	1.562	0	0	0	0	0	0
2003	362	23	1	318.65	-445.782	D	8.719	8.719	0	5.874	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.299	7.299	0	2.675	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	6.566	6.566	0	1.194	0	0	0	0	0	0
									1.839							

Appendix M
Upper Buffalo
2001 M6

EGU											% of Modeled Extinction by Species					
YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	1	23	2789	340.496	-426.449	D	7.597	7.593	0.005	3.3	0	0	0	0	0	100.04
2001	2	23	2628	320.933	-436.998	D	7.602	7.593	0.009	3.3	0	0	0	0	0	100
2001	3	23	1415	329.185	-425.086	D	7.598	7.593	0.005	3.3	0	0	0	0	0	99.99
2001	4	23	2612	319.785	-440.422	D	7.594	7.593	0.001	3.3	0	0	0	0	0	99.97
2001	5	23	2589	318.383	-445.593	D	7.593	7.593	0.001	3.3	0	0	0	0	0	99.86
2001	6	23	14	319.049	-443.516	D	7.593	7.593	0.001	3.3	0	0	0	0	0	100.02
2001	7	23	2758	335.862	-424.454	D	7.62	7.593	0.028	3.3	0	0	0	0	0	100.01
2001	8	23	2789	340.496	-426.449	D	7.596	7.593	0.004	3.3	0	0	0	0	0	100.01
2001	9	23	2758	335.862	-424.454	D	7.639	7.593	0.046	3.3	0	0	0	0	0	100
2001	10	23	1552	330.178	-425.042	D	7.593	7.593	0.001	3.3	0	0	0	0	0	99.85
2001	11	23	2417	339.654	-425.626	D	7.593	7.593	0	3.3	0	0	0	0	0	99.55
2001	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	13	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	0	0	0	0	0	100.67
2001	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	16	23	2711	330.671	-424.932	D	7.618	7.593	0.025	3.3	0	0	0	0	0	100.01
2001	17	23	2571	322.646	-445.476	D	7.596	7.593	0.004	3.3	0	0	0	0	0	100.05
2001	18	23	2789	340.496	-426.449	D	7.631	7.593	0.039	3.3	0	0	0	0	0	100
2001	19	23	2758	335.862	-424.454	D	7.614	7.593	0.021	3.3	0	0	0	0	0	100
2001	20	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	0	0	0	0	0	100.19
2001	21	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	0	0	0	0	0	100.6
2001	22	23	2758	335.862	-424.454	D	7.593	7.593	0	3.3	0	0	0	0	0	99.82
2001	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	24	23	2781	339.842	-425.379	D	7.619	7.593	0.026	3.3	0	0	0	0	0	100
2001	25	23	2684	326.713	-427.014	D	7.624	7.593	0.031	3.3	0	0	0	0	0	100
2001	26	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	0	0	0	0	0	100
2001	27	23	2758	335.862	-424.454	D	7.601	7.593	0.008	3.3	0	0	0	0	0	100
2001	28	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	0	0	0	0	0	100.89
2001	29	23	2588	318.452	-445.8	D	7.595	7.593	0.002	3.3	0	0	0	0	0	100.07
2001	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	22.2
2001	31	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	0	0	0	0	0	101.03
2001	32	23	2781	339.842	-425.379	D	7.459	7.459	0	3.013	0	0	0	0	0	99.67
2001	33	23	2589	318.383	-445.593	D	7.453	7.453	0	3	0	0	0	0	0	100.09
2001	34	23	2571	322.646	-445.476	D	7.453	7.453	0	3	0	0	0	0	0	99.98
2001	35	23	2758	335.862	-424.454	D	7.454	7.453	0.001	3	0	0	0	0	0	100.2
2001	36	23	2758	335.862	-424.454	D	7.456	7.453	0.003	3	0	0	0	0	0	100.08
2001	37	23	2758	335.862	-424.454	D	7.453	7.453	0	3	0	0	0	0	0	100.23
2001	38	23	2704	329.056	-425.092	D	7.453	7.453	0.001	3	0	0	0	0	0	100.07

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	40	23	1242	327.988	-426.138	D	7.453	7.453	0.001	3	0	0	0	0	0	100.25
2001	41	23	2789	340.496	-426.449	D	7.46	7.453	0.007	3	0	0	0	0	0	100.02
2001	42	23	2789	340.496	-426.449	D	7.456	7.453	0.004	3	0	0	0	0	0	100.09
2001	43	23	2128	334.646	-424.846	D	7.453	7.453	0	3	0	0	0	0	0	99.79
2001	44	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	45	23	2704	329.056	-425.092	D	7.453	7.453	0	3	0	0	0	0	0	100.3
2001	46	23	2789	340.496	-426.449	D	7.486	7.453	0.033	3	0	0	0	0	0	100.01
2001	47	23	2758	335.862	-424.454	D	7.538	7.453	0.086	3	0	0	0	0	0	100
2001	48	23	2789	340.496	-426.449	D	7.511	7.453	0.058	3	0	0	0	0	0	100
2001	49	23	2789	340.496	-426.449	D	7.466	7.453	0.013	3	0	0	0	0	0	100.02
2001	50	23	2781	339.842	-425.379	D	7.453	7.453	0.001	3	0	0	0	0	0	100.08
2001	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	52	23	2704	329.056	-425.092	D	7.481	7.453	0.028	3	0	0	0	0	0	100.01
2001	53	23	2704	329.056	-425.092	D	7.464	7.453	0.012	3	0	0	0	0	0	100.01
2001	54	23	2781	339.842	-425.379	D	7.467	7.453	0.014	3	0	0	0	0	0	100.03
2001	55	23	2417	339.654	-425.626	D	7.453	7.453	0	3	0	0	0	0	0	99.97
2001	56	23	2781	339.842	-425.379	D	7.453	7.453	0	3	0	0	0	0	0	101.37
2001	57	23	2704	329.056	-425.092	D	7.461	7.453	0.008	3	0	0	0	0	0	100.04
2001	58	23	2781	339.842	-425.379	D	7.458	7.453	0.005	3	0	0	0	0	0	100.05
2001	59	23	2694	327.861	-425.964	D	7.464	7.453	0.011	3	0	0	0	0	0	100.03
2001	60	23	2781	339.842	-425.379	D	7.322	7.317	0.006	2.713	0	0	0	0	0	100.04
2001	61	23	2781	339.842	-425.379	D	7.313	7.311	0.002	2.7	0	0	0	0	0	100.09
2001	62	23	2758	335.862	-424.454	D	7.438	7.311	0.127	2.7	0	0	0	0	0	100
2001	63	23	2684	326.713	-427.014	D	7.358	7.311	0.048	2.7	0	0	0	0	0	100
2001	64	23	2789	340.496	-426.449	D	7.315	7.311	0.004	2.7	0	0	0	0	0	100.05
2001	65	23	2708	329.979	-425	D	7.346	7.311	0.035	2.7	0	0	0	0	0	100
2001	66	23	2758	335.862	-424.454	D	7.322	7.311	0.011	2.7	0	0	0	0	0	100.02
2001	67	23	2435	337.211	-428.786	D	7.33	7.311	0.019	2.7	0	0	0	0	0	100
2001	68	23	2684	326.713	-427.014	D	7.344	7.311	0.034	2.7	0	0	0	0	0	100.01
2001	69	23	2468	334.002	-434.887	D	7.318	7.311	0.007	2.7	0	0	0	0	0	100.01
2001	70	23	2781	339.842	-425.379	D	7.311	7.311	0	2.7	0	0	0	0	0	100.07
2001	71	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	73	23	2758	335.862	-424.454	D	7.311	7.311	0	2.7	0	0	0	0	0	101.56
2001	74	23	2	318.639	-445.533	D	7.311	7.311	0	2.7	0	0	0	0	0	99.23
2001	75	23	2758	335.862	-424.454	D	7.322	7.311	0.011	2.7	0	0	0	0	0	100.01
2001	76	23	2694	327.861	-425.964	D	7.322	7.311	0.011	2.7	0	0	0	0	0	100.02
2001	77	23	2789	340.496	-426.449	D	7.315	7.311	0.004	2.7	0	0	0	0	0	100.08

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	78	23	2628	320.933	-436.998	D	7.321	7.311	0.01	2.7	0	0	0	0	0	100.01
2001	79	23	2600	318.952	-443.12	D	7.337	7.311	0.027	2.7	0	0	0	0	0	100.01
2001	80	23	2628	320.933	-436.998	D	7.316	7.311	0.006	2.7	0	0	0	0	0	100.04
2001	81	23	2684	326.713	-427.014	D	7.311	7.311	0.001	2.7	0	0	0	0	0	100.2
2001	82	23	2789	340.496	-426.449	D	7.315	7.311	0.004	2.7	0	0	0	0	0	100.04
2001	83	23	2628	320.933	-436.998	D	7.327	7.311	0.017	2.7	0	0	0	0	0	100.02
2001	84	23	2708	329.979	-425	D	7.391	7.311	0.08	2.7	0	0	0	0	0	100
2001	85	23	2758	335.862	-424.454	D	7.393	7.311	0.082	2.7	0	0	0	0	0	100
2001	86	23	2781	339.842	-425.379	D	7.322	7.311	0.012	2.7	0	0	0	0	0	100.01
2001	87	23	2781	339.842	-425.379	D	7.311	7.311	0.001	2.7	0	0	0	0	0	100.33
2001	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	89	23	2611	319.699	-440.64	D	7.321	7.311	0.01	2.7	0	0	0	0	0	100.02
2001	90	23	2571	322.646	-445.476	D	7.324	7.311	0.014	2.7	0	0	0	0	0	100.01
2001	91	23	2588	318.452	-445.8	D	7.357	7.356	0.001	2.796	0	0	0	0	0	100.13
2001	92	23	1624	330.707	-425.769	D	7.358	7.358	0	2.8	0	0	0	0	0	89.48
2001	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	94	23	2781	339.842	-425.379	D	7.359	7.358	0.001	2.8	0	0	0	0	0	100.13
2001	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	103	23	2758	335.862	-424.454	D	7.361	7.358	0.003	2.8	0	0	0	0	0	100.07
2001	104	23	2409	339.158	-425.648	D	7.358	7.358	0	2.8	0	0	0	0	0	78.57
2001	105	23	2417	339.654	-425.626	D	7.358	7.358	0	2.8	0	0	0	0	0	100.44
2001	106	23	2758	335.862	-424.454	D	7.374	7.358	0.015	2.8	0	0	0	0	0	100
2001	107	23	2789	340.496	-426.449	D	7.368	7.358	0.01	2.8	0	0	0	0	0	100.02
2001	108	23	2704	329.056	-425.092	D	7.406	7.358	0.048	2.8	0	0	0	0	0	100
2001	109	23	2789	340.496	-426.449	D	7.358	7.358	0	2.8	0	0	0	0	0	99.9
2001	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	114	23	2711	330.671	-424.932	D	7.372	7.358	0.014	2.8	0	0	0	0	0	100.01
2001	115	23	2789	340.496	-426.449	D	7.363	7.358	0.005	2.8	0	0	0	0	0	100
2001	116	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	0	0	0	0	0	97.32

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	117	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	119	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	0	0	0	0	0	102.23
2001	120	23	2073	334.16	-425.117	D	7.358	7.358	0	2.8	0	0	0	0	0	87
2001	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	127	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	99.7
2001	128	23	2684	326.713	-427.014	D	7.649	7.639	0.01	3.4	0	0	0	0	0	100.01
2001	129	23	1415	329.185	-425.086	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100
2001	130	23	2787	340.091	-426.447	D	7.639	7.639	0	3.4	0	0	0	0	0	100.6
2001	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	132	23	2758	335.862	-424.454	D	7.655	7.639	0.016	3.4	0	0	0	0	0	100
2001	133	23	2628	320.933	-436.998	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.03
2001	134	23	2404	338.92	-425.908	D	7.639	7.639	0	3.4	0	0	0	0	0	100.16
2001	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	138	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	0	0	0	0	0	100.64
2001	139	23	2789	340.496	-426.449	D	7.647	7.639	0.008	3.4	0	0	0	0	0	100.03
2001	140	23	2789	340.496	-426.449	D	7.647	7.639	0.008	3.4	0	0	0	0	0	100.02
2001	141	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.11
2001	142	23	2758	335.862	-424.454	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.01
2001	143	23	2758	335.862	-424.454	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.15
2001	144	23	2704	329.056	-425.092	D	7.64	7.639	0.001	3.4	0	0	0	0	0	99.96
2001	145	23	2758	335.862	-424.454	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.09
2001	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	148	23	2704	329.056	-425.092	D	7.651	7.639	0.012	3.4	0	0	0	0	0	100.01
2001	149	23	2588	318.452	-445.8	D	7.642	7.639	0.003	3.4	0	0	0	0	0	100.04
2001	150	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.48
2001	151	23	1449	329.434	-425.075	D	7.639	7.639	0.001	3.4	0	0	0	0	0	99.91
2001	152	23	2628	320.933	-436.998	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100
2001	153	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.57
2001	154	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	99.84
2001	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	158	23	2704	329.056	-425.092	D	7.639	7.639	0.001	3.4	0	0	0	0	0	99.98
2001	159	23	2468	334.002	-434.887	D	7.644	7.639	0.005	3.4	0	0	0	0	0	100.03
2001	160	23	2694	327.861	-425.964	D	7.657	7.639	0.018	3.4	0	0	0	0	0	100.01
2001	161	23	2758	335.862	-424.454	D	7.646	7.639	0.007	3.4	0	0	0	0	0	100.03
2001	162	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.02
2001	163	23	2778	339.158	-425.502	D	7.639	7.639	0	3.4	0	0	0	0	0	100.07
2001	164	23	2041	333.901	-424.879	D	7.639	7.639	0	3.4	0	0	0	0	0	101.53
2001	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	166	23	2758	335.862	-424.454	D	7.639	7.639	0.001	3.4	0	0	0	0	0	99.94
2001	167	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	0	0	0	0	0	100.3
2001	168	23	305	322.115	-445.381	D	7.639	7.639	0	3.4	0	0	0	0	0	99.8
2001	169	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	0	0	0	0	0	100.02
2001	170	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	172	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.11
2001	173	23	2758	335.862	-424.454	D	7.667	7.639	0.029	3.4	0	0	0	0	0	100.01
2001	174	23	2709	330.21	-424.978	D	7.664	7.639	0.025	3.4	0	0	0	0	0	100.01
2001	175	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100
2001	176	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	0	0	0	0	0	100.03
2001	177	23	2236	336.149	-430.776	D	7.644	7.639	0.005	3.4	0	0	0	0	0	99.98
2001	178	23	1415	329.185	-425.086	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.04
2001	179	23	2758	335.862	-424.454	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.13
2001	180	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	0	0	0	0	0	100.52
2001	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	182	23	2704	329.056	-425.092	D	7.639	7.639	0.001	3.4	0	0	0	0	0	100.35
2001	183	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	0	0	0	0	0	100.06
2001	184	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.05
2001	185	23	2397	338.413	-425.68	D	7.639	7.639	0	3.4	0	0	0	0	0	97.48
2001	186	23	2409	339.158	-425.648	D	7.639	7.639	0	3.4	0	0	0	0	0	98.17
2001	187	23	2781	339.842	-425.379	D	7.648	7.639	0.009	3.4	0	0	0	0	0	100.01
2001	188	23	2789	340.496	-426.449	D	7.639	7.639	0.001	3.4	0	0	0	0	0	100.16
2001	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	191	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.5
2001	192	23	2758	335.862	-424.454	D	7.67	7.639	0.032	3.4	0	0	0	0	0	100
2001	193	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	0	0	0	0	0	100.04
2001	194	23	2789	340.496	-426.449	D	7.641	7.639	0.003	3.4	0	0	0	0	0	99.98

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	195	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	100.19
2001	196	23	2758	335.862	-424.454	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.01
2001	197	23	167	320.579	-438.703	D	7.639	7.639	0	3.4	0	0	0	0	0	70.55
2001	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	201	23	2384	338.176	-425.941	D	7.639	7.639	0	3.4	0	0	0	0	0	85.11
2001	202	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	0	0	0	0	0	100.19
2001	203	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100
2001	204	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100
2001	205	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.04
2001	206	23	2401	338.661	-425.669	D	7.639	7.639	0	3.4	0	0	0	0	0	100.11
2001	207	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	101.16
2001	208	23	2781	339.842	-425.379	D	7.64	7.639	0.002	3.4	0	0	0	0	0	100.08
2001	209	23	2781	339.842	-425.379	D	7.639	7.639	0.001	3.4	0	0	0	0	0	99.94
2001	210	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	0	0	0	0	0	100.94
2001	211	23	2781	339.842	-425.379	D	7.639	7.639	0.001	3.4	0	0	0	0	0	100.02
2001	212	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.05
2001	213	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.05
2001	214	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	0	0	0	0	0	100.96
2001	215	23	2039	333.923	-425.378	D	7.639	7.639	0	3.4	0	0	0	0	0	102.09
2001	216	23	2781	339.842	-425.379	D	7.656	7.639	0.018	3.4	0	0	0	0	0	100
2001	217	23	2704	329.056	-425.092	D	7.644	7.639	0.005	3.4	0	0	0	0	0	100
2001	218	23	2573	322.153	-445.515	D	7.642	7.639	0.003	3.4	0	0	0	0	0	99.99
2001	219	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.03
2001	220	23	1415	329.185	-425.086	D	7.642	7.639	0.003	3.4	0	0	0	0	0	99.98
2001	221	23	2781	339.842	-425.379	D	7.64	7.639	0.002	3.4	0	0	0	0	0	100.06
2001	222	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.01
2001	223	23	2704	329.056	-425.092	D	7.669	7.639	0.03	3.4	0	0	0	0	0	100.01
2001	224	23	2758	335.862	-424.454	D	7.679	7.639	0.04	3.4	0	0	0	0	0	100
2001	225	23	2789	340.496	-426.449	D	7.654	7.639	0.015	3.4	0	0	0	0	0	100.01
2001	226	23	2758	335.862	-424.454	D	7.646	7.639	0.007	3.4	0	0	0	0	0	100
2001	227	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	0	0	0	0	0	100.01
2001	228	23	2235	335.628	-424.554	D	7.639	7.639	0	3.4	0	0	0	0	0	99.07
2001	229	23	2466	334.129	-434.416	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.07
2001	230	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.17
2001	231	23	2758	335.862	-424.454	D	7.68	7.639	0.041	3.4	0	0	0	0	0	100
2001	232	23	2781	339.842	-425.379	D	7.649	7.639	0.01	3.4	0	0	0	0	0	100.01
2001	233	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	0	0	0	0	0	100.18

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	235	23	1590	331.079	-434.246	D	7.639	7.639	0	3.4	0	0	0	0	0	38.61
2001	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	238	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100
2001	239	23	2758	335.862	-424.454	D	7.67	7.639	0.031	3.4	0	0	0	0	0	100.01
2001	240	23	2704	329.056	-425.092	D	7.656	7.639	0.017	3.4	0	0	0	0	0	100
2001	241	23	2758	335.862	-424.454	D	7.648	7.639	0.009	3.4	0	0	0	0	0	100.03
2001	242	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.05
2001	243	23	2758	335.862	-424.454	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.06
2001	244	23	2704	329.056	-425.092	D	7.739	7.727	0.013	3.592	0	0	0	0	0	100
2001	245	23	2704	329.056	-425.092	D	7.738	7.731	0.008	3.6	0	0	0	0	0	100
2001	246	23	2588	318.452	-445.8	D	7.732	7.731	0.002	3.6	0	0	0	0	0	99.96
2001	247	23	2781	339.842	-425.379	D	7.734	7.731	0.003	3.6	0	0	0	0	0	100
2001	248	23	2628	320.933	-436.998	D	7.746	7.731	0.015	3.6	0	0	0	0	0	100
2001	249	23	2684	326.713	-427.014	D	7.731	7.731	0.001	3.6	0	0	0	0	0	100.15
2001	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	252	23	2694	327.861	-425.964	D	7.732	7.731	0.001	3.6	0	0	0	0	0	99.92
2001	253	23	2758	335.862	-424.454	D	7.765	7.731	0.034	3.6	0	0	0	0	0	100
2001	254	23	2626	320.826	-437.417	D	7.734	7.731	0.003	3.6	0	0	0	0	0	99.97
2001	255	23	2571	322.646	-445.476	D	7.734	7.731	0.003	3.6	0	0	0	0	0	99.96
2001	256	23	2588	318.452	-445.8	D	7.732	7.731	0.001	3.6	0	0	0	0	0	100.02
2001	257	23	2758	335.862	-424.454	D	7.759	7.731	0.028	3.6	0	0	0	0	0	100
2001	258	23	2571	322.646	-445.476	D	7.733	7.731	0.002	3.6	0	0	0	0	0	100.04
2001	259	23	2588	318.452	-445.8	D	7.731	7.731	0.001	3.6	0	0	0	0	0	100.07
2001	260	23	2789	340.496	-426.449	D	7.731	7.731	0	3.6	0	0	0	0	0	99.68
2001	261	23	2194	335.544	-428.304	D	7.731	7.731	0	3.6	0	0	0	0	0	91.1
2001	262	23	2612	319.785	-440.422	D	7.733	7.731	0.002	3.6	0	0	0	0	0	99.93
2001	263	23	375	322.611	-445.359	D	7.732	7.731	0.001	3.6	0	0	0	0	0	99.83
2001	264	23	2781	339.842	-425.379	D	7.731	7.731	0	3.6	0	0	0	0	0	100.09
2001	265	23	2789	340.496	-426.449	D	7.738	7.731	0.007	3.6	0	0	0	0	0	100.01
2001	266	23	2781	339.842	-425.379	D	7.735	7.731	0.005	3.6	0	0	0	0	0	99.99
2001	267	23	2628	320.933	-436.998	D	7.767	7.731	0.036	3.6	0	0	0	0	0	100
2001	268	23	2789	340.496	-426.449	D	7.735	7.731	0.005	3.6	0	0	0	0	0	100
2001	269	23	2589	318.383	-445.593	D	7.74	7.731	0.01	3.6	0	0	0	0	0	100
2001	270	23	2600	318.952	-443.12	D	7.738	7.731	0.008	3.6	0	0	0	0	0	100
2001	271	23	2789	340.496	-426.449	D	7.752	7.731	0.022	3.6	0	0	0	0	0	100.01
2001	272	23	2589	318.383	-445.593	D	7.739	7.731	0.008	3.6	0	0	0	0	0	100.01

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	273	23	2684	326.713	-427.014	D	7.732	7.731	0.001	3.6	0	0	0	0	0	100
2001	274	23	2704	329.056	-425.092	D	7.628	7.598	0.03	3.313	0	0	0	0	0	100
2001	275	23	2789	340.496	-426.449	D	7.602	7.593	0.01	3.3	0	0	0	0	0	100
2001	276	23	2788	340.294	-426.448	D	7.593	7.593	0	3.3	0	0	0	0	0	99.73
2001	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	278	23	2789	340.496	-426.449	D	7.629	7.593	0.036	3.3	0	0	0	0	0	100
2001	279	23	2758	335.862	-424.454	D	7.612	7.593	0.02	3.3	0	0	0	0	0	100
2001	280	23	2789	340.496	-426.449	D	7.602	7.593	0.01	3.3	0	0	0	0	0	100
2001	281	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	0	0	0	0	0	99.98
2001	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	284	23	2704	329.056	-425.092	D	7.594	7.593	0.001	3.3	0	0	0	0	0	100.04
2001	285	23	2758	335.862	-424.454	D	7.599	7.593	0.007	3.3	0	0	0	0	0	100.03
2001	286	23	1242	327.988	-426.138	D	7.593	7.593	0	3.3	0	0	0	0	0	100.3
2001	287	23	2758	335.862	-424.454	D	7.593	7.593	0	3.3	0	0	0	0	0	100.11
2001	288	23	2684	326.713	-427.014	D	7.593	7.593	0.001	3.3	0	0	0	0	0	99.88
2001	289	23	2711	330.671	-424.932	D	7.597	7.593	0.005	3.3	0	0	0	0	0	99.99
2001	290	23	2758	335.862	-424.454	D	7.608	7.593	0.015	3.3	0	0	0	0	0	100.01
2001	291	23	1415	329.185	-425.086	D	7.593	7.593	0	3.3	0	0	0	0	0	100.29
2001	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	293	23	1009	326.641	-429.444	D	7.593	7.593	0	3.3	0	0	0	0	0	26.57
2001	294	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	297	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	0	0	0	0	0	100
2001	298	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	0	0	0	0	0	99.15
2001	299	23	2758	335.862	-424.454	D	7.594	7.593	0.001	3.3	0	0	0	0	0	100.06
2001	300	23	2758	335.862	-424.454	D	7.659	7.593	0.067	3.3	0	0	0	0	0	100
2001	301	23	2585	319.192	-445.743	D	7.603	7.593	0.011	3.3	0	0	0	0	0	100.01
2001	302	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	0	0	0	0	0	100.03
2001	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	307	23	2789	340.496	-426.449	D	7.554	7.546	0.008	3.2	0	0	0	0	0	100.03
2001	308	23	2588	318.452	-445.8	D	7.552	7.546	0.006	3.2	0	0	0	0	0	100.04
2001	309	23	2704	329.056	-425.092	D	7.608	7.546	0.061	3.2	0	0	0	0	0	100.01
2001	310	23	2694	327.861	-425.964	D	7.558	7.546	0.012	3.2	0	0	0	0	0	100.01
2001	311	23	2781	339.842	-425.379	D	7.551	7.546	0.005	3.2	0	0	0	0	0	100.04

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	312	23	2781	339.842	-425.379	D	7.553	7.546	0.007	3.2	0	0	0	0	0	100.02
2001	313	23	2704	329.056	-425.092	D	7.602	7.546	0.056	3.2	0	0	0	0	0	100
2001	314	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	0	0	0	0	0	100.15
2001	315	23	2758	335.862	-424.454	D	7.56	7.546	0.013	3.2	0	0	0	0	0	100
2001	316	23	2588	318.452	-445.8	D	7.552	7.546	0.005	3.2	0	0	0	0	0	100.04
2001	317	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	321	23	2758	335.862	-424.454	D	7.548	7.546	0.002	3.2	0	0	0	0	0	100.03
2001	322	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	0	0	0	0	0	100.3
2001	323	23	2789	340.496	-426.449	D	7.554	7.546	0.008	3.2	0	0	0	0	0	100.02
2001	324	23	2758	335.862	-424.454	D	7.564	7.546	0.018	3.2	0	0	0	0	0	100.01
2001	325	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	0	0	0	0	0	100.11
2001	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	332	23	2684	326.713	-427.014	D	7.566	7.546	0.02	3.2	0	0	0	0	0	100.01
2001	333	23	2573	322.153	-445.515	D	7.562	7.546	0.016	3.2	0	0	0	0	0	100.01
2001	334	23	2781	339.842	-425.379	D	7.563	7.546	0.017	3.2	0	0	0	0	0	100.01
2001	335	23	2781	339.842	-425.379	D	7.591	7.591	0	3.296	0	0	0	0	0	95.83
2001	336	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	0	0	0	0	0	100.3
2001	337	23	2035	333.967	-426.375	D	7.593	7.593	0	3.3	0	0	0	0	0	31.48
2001	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	340	23	2758	335.862	-424.454	D	7.595	7.593	0.002	3.3	0	0	0	0	0	100.02
2001	341	23	2758	335.862	-424.454	D	7.595	7.593	0.002	3.3	0	0	0	0	0	100.03
2001	342	23	2758	335.862	-424.454	D	7.629	7.593	0.037	3.3	0	0	0	0	0	100
2001	343	23	2758	335.862	-424.454	D	7.62	7.593	0.027	3.3	0	0	0	0	0	100.01
2001	344	23	2704	329.056	-425.092	D	7.597	7.593	0.004	3.3	0	0	0	0	0	100.05
2001	345	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	0	0	0	0	0	100.1
2001	346	23	28	319.264	-442.757	D	7.593	7.593	0	3.3	0	0	0	0	0	10.65
2001	347	23	2704	329.056	-425.092	D	7.602	7.593	0.009	3.3	0	0	0	0	0	100
2001	348	23	2758	335.862	-424.454	D	7.612	7.593	0.019	3.3	0	0	0	0	0	100.01
2001	349	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	0	0	0	0	0	100.01
2001	350	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	0	0	0	0	0	101.34

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	351	23	2628	320.933	-436.998	D	7.613	7.593	0.02	3.3	0	0	0	0	0	100
2001	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	41.11
2001	353	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	0	0	0	0	0	100.08
2001	354	23	2588	318.452	-445.8	D	7.593	7.593	0	3.3	0	0	0	0	0	100.07
2001	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	358	23	15	319.038	-443.267	D	7.593	7.593	0.001	3.3	0	0	0	0	0	99.97
2001	359	23	2435	337.211	-428.786	D	7.595	7.593	0.002	3.3	0	0	0	0	0	100.09
2001	360	23	2758	335.862	-424.454	D	7.594	7.593	0.001	3.3	0	0	0	0	0	100.19
2001	361	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	0	0	0	0	0	100
2001	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	363	23	2711	330.671	-424.932	D	7.619	7.593	0.026	3.3	0	0	0	0	0	100
2001	364	23	2308	337.055	-428.737	D	7.607	7.593	0.014	3.3	0	0	0	0	0	100
2001	365	23	2588	318.452	-445.8	D	7.593	7.593	0	3.3	0	0	0	0	0	99.58
									0.127							
EXIDE											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	2	23	2789	340.496	-426.449	D	7.595	7.593	0.003	3.3	90.72	7.39	0	0	0	1.92
2001	3	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	93.13	5.66	0	0	0	1.36
2001	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	7	23	2758	335.862	-424.454	D	7.595	7.593	0.003	3.3	85.17	11	0	0	0	3.85
2001	8	23	2781	339.842	-425.379	D	7.595	7.593	0.003	3.3	93.1	5.12	0	0	0	1.82
2001	9	23	2571	322.646	-445.476	D	7.599	7.593	0.006	3.3	95.24	3.47	0	0	0	1.31
2001	10	23	2589	318.383	-445.593	D	7.599	7.593	0.006	3.3	96.09	3.03	0	0	0	0.9
2001	11	23	1415	329.185	-425.086	D	7.593	7.593	0.001	3.3	96.76	2.53	0	0	0	0.82
2001	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	16	23	2413	339.406	-425.637	D	7.593	7.593	0	3.3	84.39	9.18	0	0	0	3.82
2001	17	23	2694	327.861	-425.964	D	7.594	7.593	0.001	3.3	86.12	10.88	0	0	0	2.97
2001	18	23	2684	326.713	-427.014	D	7.593	7.593	0.001	3.3	91.51	5.63	0	0	0	2.69
2001	19	23	2684	326.713	-427.014	D	7.595	7.593	0.003	3.3	82.91	12.49	0	0	0	4.61
2001	20	23	2587	318.699	-445.781	D	7.597	7.593	0.004	3.3	85.8	10.62	0	0	0	3.61

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	21	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	90.32	8.11	0	0	0	1.82
2001	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	24	23	2780	339.614	-425.419	D	7.593	7.593	0.001	3.3	91.9	5.63	0	0	0	2.43
2001	25	23	2588	318.452	-445.8	D	7.593	7.593	0	3.3	90.74	7.07	0	0	0	2.94
2001	26	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	27	23	16	319.027	-443.017	D	7.593	7.593	0.001	3.3	76.87	17.91	0	0	0	5.16
2001	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	89.28	9.14	0	0	0	1.56
2001	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2001	33	23	2781	339.842	-425.379	D	7.453	7.453	0	3	86.65	12.19	0	0	0	4.35
2001	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	37	23	1045	326.823	-427.937	D	7.453	7.453	0	3	87.92	3.57	0	0	0	4.9
2001	38	23	1413	329.207	-425.585	D	7.453	7.453	0	3	89.69	5.94	0	0	0	3.24
2001	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	40	23	2704	329.056	-425.092	D	7.46	7.453	0.007	3	93.07	5.28	0	0	0	1.67
2001	41	23	2600	318.952	-443.12	D	7.454	7.453	0.001	3	81.95	13.42	0	0	0	4.88
2001	42	23	1	318.65	-445.782	D	7.453	7.453	0	3	102.49	8.24	0	0	0	2.57
2001	43	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	44	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	46	23	2588	318.452	-445.8	D	7.46	7.453	0.008	3	94.23	4.27	0	0	0	1.53
2001	47	23	2589	318.383	-445.593	D	7.458	7.453	0.005	3	90.06	7.67	0	0	0	2.32
2001	48	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	49	23	1	318.65	-445.782	D	7.453	7.453	0	3	107.52	4.96	0	0	0	1.97
2001	50	23	1	318.65	-445.782	D	7.453	7.453	0	3	90.45	4.02	0	0	0	1.17
2001	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	52	23	1413	329.207	-425.585	D	7.453	7.453	0	3	96.48	3.2	0	0	0	1.07
2001	53	23	235	321.618	-445.402	D	7.453	7.453	0	3	98.38	3.29	0	0	0	0.92
2001	54	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	55	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	57	23	2410	339.439	-426.385	D	7.453	7.453	0	3	99.62	1.25	0	0	0	1.7
2001	58	23	2789	340.496	-426.449	D	7.453	7.453	0	3	96.8	2.73	0	0	0	1.04
2001	59	23	2588	318.452	-445.8	D	7.453	7.453	0	3	97.64	2.81	0	0	0	0.53

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	60	23	67	319.674	-440.741	D	7.317	7.317	0	2.713	98.73	2.18	0	0	0	0.49
2001	61	23	2413	339.406	-425.637	D	7.311	7.311	0	2.7	96.46	1.41	0	0	0	0.4
2001	62	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	63	23	2589	318.383	-445.593	D	7.314	7.311	0.003	2.7	95.92	2.63	0	0	0	1.52
2001	64	23	2589	318.383	-445.593	D	7.312	7.311	0.002	2.7	89.3	6.87	0	0	0	3.87
2001	65	23	2781	339.842	-425.379	D	7.312	7.311	0.001	2.7	90.11	6.73	0	0	0	3.2
2001	66	23	2588	318.452	-445.8	D	7.312	7.311	0.001	2.7	96.05	1.73	0	0	0	2.33
2001	67	23	2417	339.654	-425.626	D	7.314	7.311	0.003	2.7	94.89	3	0	0	0	2.12
2001	68	23	2781	339.842	-425.379	D	7.313	7.311	0.002	2.7	87.2	8.24	0	0	0	4.57
2001	69	23	234	321.01	-437.185	D	7.311	7.311	0	2.7	96.77	2.79	0	0	0	2.55
2001	70	23	1045	326.823	-427.937	D	7.311	7.311	0	2.7	112.68	1.61	0	0	0	2.02
2001	71	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	74	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	133.22	4.16	0	0	0	0.41
2001	75	23	2588	318.452	-445.8	D	7.311	7.311	0	2.7	72.66	19.33	0	0	0	7.77
2001	76	23	2588	318.452	-445.8	D	7.311	7.311	0	2.7	83.4	11.72	0	0	0	5.01
2001	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	79	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	80	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	81	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	82	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	84	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	85	23	2589	318.383	-445.593	D	7.311	7.311	0	2.7	85.35	9.12	0	0	0	5.49
2001	86	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	87	23	47	319.458	-441.5	D	7.311	7.311	0	2.7	97.13	2.17	0	0	0	0.9
2001	88	23	2684	326.713	-427.014	D	7.311	7.311	0	2.7	98.24	1.19	0	0	0	0.71
2001	89	23	167	320.579	-438.703	D	7.311	7.311	0	2.7	98.96	0.65	0	0	0	0.61
2001	90	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	99.36	0.64	0	0	0	0.56
2001	91	23	2781	339.842	-425.379	D	7.356	7.356	0	2.796	91.5	4.82	0	0	0	3.32
2001	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	99	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	105	23	1414	329.196	-425.335	D	7.358	7.358	0	2.8	98.14	0.35	0	0	0	2.22
2001	106	23	2789	340.496	-426.449	D	7.36	7.358	0.002	2.8	95.93	1.7	0	0	0	2.36
2001	107	23	2209	335.38	-424.564	D	7.359	7.358	0	2.8	89.26	6.38	0	0	0	4.12
2001	108	23	2625	320.772	-437.626	D	7.359	7.358	0	2.8	97.59	0.88	0	0	0	1.67
2001	109	23	1449	329.434	-425.075	D	7.359	7.358	0	2.8	98.2	0.59	0	0	0	0.96
2001	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	114	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	96.61	0.74	0	0	0	3.59
2001	115	23	2405	338.909	-425.659	D	7.359	7.358	0.001	2.8	96.66	1.09	0	0	0	2.25
2001	116	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	127	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	97.74	0.18	0	0	0	2.11
2001	128	23	2588	318.452	-445.8	D	7.642	7.639	0.003	3.4	98.23	0.31	0	0	0	1.51
2001	129	23	2758	335.862	-424.454	D	7.64	7.639	0.001	3.4	98.84	0.13	0	0	0	0.99
2001	130	23	2787	340.091	-426.447	D	7.639	7.639	0	3.4	100.1	0.07	0	0	0	0.67
2001	131	23	1199	327.783	-427.146	D	7.639	7.639	0	3.4	11.97	0	0	0	0	0.07
2001	132	23	2589	318.383	-445.593	D	7.641	7.639	0.002	3.4	97.14	1.83	0	0	0	1.06
2001	133	23	16	319.027	-443.017	D	7.64	7.639	0.001	3.4	99.21	0.06	0	0	0	0.78
2001	134	23	2397	338.413	-425.68	D	7.639	7.639	0	3.4	99.58	0.04	0	0	0	0.59
2001	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	138	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	139	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	140	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	141	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	148	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	98.23	0.02	0	0	0	1.38
2001	149	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	98.91	0.13	0	0	0	1.11
2001	150	23	2780	339.614	-425.419	D	7.639	7.639	0	3.4	99.81	0.2	0	0	0	0.77
2001	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	152	23	2588	318.452	-445.8	D	7.64	7.639	0.002	3.4	96.66	1.23	0	0	0	2.19
2001	153	23	2782	339.852	-425.592	D	7.639	7.639	0.001	3.4	97.2	0.31	0	0	0	2.52
2001	154	23	2789	340.496	-426.449	D	7.639	7.639	0.001	3.4	98.59	0.3	0	0	0	1.18
2001	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	158	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.54	0.02	0	0	0	0.64
2001	159	23	2706	329.518	-425.046	D	7.648	7.639	0.009	3.4	99.32	0.07	0	0	0	0.6
2001	160	23	2704	329.056	-425.092	D	7.644	7.639	0.006	3.4	99.3	0.07	0	0	0	0.64
2001	161	23	2704	329.056	-425.092	D	7.642	7.639	0.003	3.4	99.43	0.02	0	0	0	0.56
2001	162	23	2337	337.15	-425.236	D	7.639	7.639	0	3.4	99.5	0.01	0	0	0	0.42
2001	163	23	2372	337.938	-426.201	D	7.639	7.639	0	3.4	101.55	0.01	0	0	0	0.39
2001	164	23	1004	326.695	-430.69	D	7.639	7.639	0	3.4	10.37	0	0	0	0	0.04
2001	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	168	23	2586	318.945	-445.762	D	7.639	7.639	0	3.4	98.83	0.01	0	0	0	1.01
2001	169	23	1046	326.812	-427.688	D	7.639	7.639	0	3.4	98.89	0.02	0	0	0	0.77
2001	170	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	172	23	2589	318.383	-445.593	D	7.639	7.639	0	3.4	98.72	0.1	0	0	0	1.31
2001	173	23	2588	318.452	-445.8	D	7.64	7.639	0.002	3.4	97.98	0.09	0	0	0	1.98
2001	174	23	2588	318.452	-445.8	D	7.645	7.639	0.006	3.4	98.29	0.1	0	0	0	1.63
2001	175	23	2571	322.646	-445.476	D	7.642	7.639	0.003	3.4	99	0.04	0	0	0	0.99
2001	176	23	1	318.65	-445.782	D	7.643	7.639	0.004	3.4	99.2	0.06	0	0	0	0.75

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	177	23	1415	329.185	-425.086	D	7.641	7.639	0.002	3.4	99.29	0.04	0	0	0	0.65
2001	178	23	1415	329.185	-425.086	D	7.64	7.639	0.001	3.4	99.53	0.03	0	0	0	0.58
2001	179	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	99.92	0.07	0	0	0	0.53
2001	180	23	1042	326.856	-428.685	D	7.639	7.639	0	3.4	101.01	0.02	0	0	0	0.5
2001	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	182	23	413	322.197	-435.884	D	7.639	7.639	0	3.4	6.92	0	0	0	0	0.06
2001	183	23	2704	329.056	-425.092	D	7.639	7.639	0	3.4	99.1	0.38	0	0	0	0.92
2001	184	23	1282	328.236	-426.127	D	7.639	7.639	0	3.4	93.41	0.01	0	0	0	0.78
2001	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	187	23	1518	330.55	-433.519	D	7.639	7.639	0	3.4	100.75	0	0	0	0	0.7
2001	188	23	2406	339.19	-426.396	D	7.639	7.639	0	3.4	92.37	0.01	0	0	0	0.56
2001	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	191	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.14	0.08	0	0	0	0.78
2001	192	23	2787	340.091	-426.447	D	7.64	7.639	0.001	3.4	99.27	0.03	0	0	0	0.68
2001	193	23	340	322.363	-445.37	D	7.639	7.639	0	3.4	99.45	0.02	0	0	0	0.57
2001	194	23	2362	338.048	-428.694	D	7.639	7.639	0	3.4	100.88	0.28	0	0	0	0.54
2001	195	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	196	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	204	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	205	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	206	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	207	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	208	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	210	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	211	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	212	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	213	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	214	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	215	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	216	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	217	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	218	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	219	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	222	23	1415	329.185	-425.086	D	7.64	7.639	0.001	3.4	98.77	0.03	0	0	0	1.13
2001	223	23	2781	339.842	-425.379	D	7.646	7.639	0.007	3.4	98.81	0.42	0	0	0	0.77
2001	224	23	2468	334.002	-434.887	D	7.64	7.639	0.001	3.4	99.36	0.08	0	0	0	0.58
2001	225	23	2468	334.002	-434.887	D	7.639	7.639	0.001	3.4	99.35	0.29	0	0	0	0.51
2001	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	83.46	0.02	0	0	0	0.48
2001	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	228	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	92.59	1.45	0	0	0	0.85
2001	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	28.33	0	0	0	0	0.28
2001	230	23	2406	339.19	-426.396	D	7.639	7.639	0	3.4	95.57	0.04	0	0	0	0.77
2001	231	23	2788	340.294	-426.448	D	7.639	7.639	0.001	3.4	94.66	0.59	0	0	0	4.75
2001	232	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	110.81	0.03	0	0	0	1.91
2001	233	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	27.81	0	0	0	0	0.27
2001	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	238	23	2704	329.056	-425.092	D	7.642	7.639	0.004	3.4	98.51	0.21	0	0	0	1.31
2001	239	23	2571	322.646	-445.476	D	7.642	7.639	0.003	3.4	98.91	0.09	0	0	0	1.05
2001	240	23	2588	318.452	-445.8	D	7.639	7.639	0.001	3.4	99.28	0.04	0	0	0	0.81
2001	241	23	2780	339.614	-425.419	D	7.64	7.639	0.001	3.4	99.2	0.04	0	0	0	0.71
2001	242	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.73	0.14	0	0	0	0.55
2001	243	23	2074	334.15	-424.868	D	7.639	7.639	0	3.4	101.95	0.1	0	0	0	0.48
2001	244	23	2709	330.21	-424.978	D	7.728	7.727	0.001	3.592	99.06	0.12	0	0	0	0.7
2001	245	23	1415	329.185	-425.086	D	7.733	7.731	0.003	3.6	99.27	0.17	0	0	0	0.57
2001	246	23	1415	329.185	-425.086	D	7.731	7.731	0.001	3.6	99.27	0.02	0	0	0	0.55
2001	247	23	2704	329.056	-425.092	D	7.732	7.731	0.001	3.6	99.35	0.02	0	0	0	0.58
2001	248	23	2704	329.056	-425.092	D	7.732	7.731	0.002	3.6	99.26	0.04	0	0	0	0.67
2001	249	23	1242	327.988	-426.138	D	7.731	7.731	0	3.6	98.95	0.02	0	0	0	0.45
2001	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	252	23	2781	339.842	-425.379	D	7.733	7.731	0.002	3.6	97.83	0.13	0	0	0	2.04
2001	253	23	2789	340.496	-426.449	D	7.734	7.731	0.003	3.6	98.25	0.24	0	0	0	1.53
2001	254	23	2589	318.383	-445.593	D	7.732	7.731	0.002	3.6	98.78	0.09	0	0	0	1.11

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	255	23	1044	326.834	-428.186	D	7.731	7.731	0	3.6	98.49	0.1	0	0	0	0.85
2001	256	23	2040	333.912	-425.128	D	7.731	7.731	0	3.6	98.89	0.06	0	0	0	0.77
2001	257	23	2588	318.452	-445.8	D	7.731	7.731	0	3.6	99	0.06	0	0	0	0.71
2001	258	23	14	319.049	-443.516	D	7.731	7.731	0	3.6	99.35	0.02	0	0	0	0.61
2001	259	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	90.51	0.1	0	0	0	0.57
2001	260	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	261	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	262	23	2588	318.452	-445.8	D	7.732	7.731	0.001	3.6	98.2	0.2	0	0	0	1.52
2001	263	23	2588	318.452	-445.8	D	7.731	7.731	0	3.6	98.62	0.05	0	0	0	1.18
2001	264	23	2758	335.862	-424.454	D	7.732	7.731	0.001	3.6	98.97	0.13	0	0	0	0.88
2001	265	23	2589	318.383	-445.593	D	7.732	7.731	0.002	3.6	98.2	0.39	0	0	0	1.34
2001	266	23	1415	329.185	-425.086	D	7.731	7.731	0.001	3.6	97.93	0.82	0	0	0	1.11
2001	267	23	1	318.65	-445.782	D	7.732	7.731	0.002	3.6	97.27	1.98	0	0	0	0.74
2001	268	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	269	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	270	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	271	23	1415	329.185	-425.086	D	7.731	7.731	0	3.6	100.66	0.33	0	0	0	0.87
2001	272	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	273	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0
2001	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	278	23	1449	329.434	-425.075	D	7.593	7.593	0	3.3	98.1	1.2	0	0	0	0.74
2001	279	23	2600	318.952	-443.12	D	7.593	7.593	0	3.3	96.07	1.72	0	0	0	2.44
2001	280	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	97.43	0.97	0	0	0	1.53
2001	281	23	2704	329.056	-425.092	D	7.593	7.593	0	3.3	97.64	0.31	0	0	0	1.07
2001	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	284	23	863	325.509	-431.992	D	7.593	7.593	0	3.3	21.46	0.1	0	0	0	0.34
2001	285	23	2704	329.056	-425.092	D	7.593	7.593	0.001	3.3	97.13	1.75	0	0	0	1.2
2001	286	23	2694	327.861	-425.964	D	7.594	7.593	0.001	3.3	98.16	0.64	0	0	0	1.23
2001	287	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	97.57	1.51	0	0	0	0.95
2001	288	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	289	23	2781	339.842	-425.379	D	7.595	7.593	0.002	3.3	95.52	3.02	0	0	0	1.42
2001	290	23	2236	336.149	-430.776	D	7.594	7.593	0.001	3.3	94.4	2.99	0	0	0	2.66
2001	291	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	98.04	1.12	0	0	0	0.94
2001	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	293	23	1048	326.791	-427.189	D	7.593	7.593	0	3.3	94.5	1.01	0	0	0	1.52

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	294	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	297	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	95.84	1.28	0	0	0	2.8
2001	298	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	300	23	2684	326.713	-427.014	D	7.593	7.593	0	3.3	87.09	8.72	0	0	0	4.07
2001	301	23	46	319.469	-441.749	D	7.593	7.593	0	3.3	97.89	1.1	0	0	0	0.97
2001	302	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	53.76	0.1	0	0	0	0.25
2001	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	307	23	2781	339.842	-425.379	D	7.547	7.546	0.001	3.2	97.33	1.61	0	0	0	1.16
2001	308	23	1415	329.185	-425.086	D	7.547	7.546	0.001	3.2	99.04	0.32	0	0	0	0.89
2001	309	23	2789	340.496	-426.449	D	7.553	7.546	0.006	3.2	97.13	1.4	0	0	0	1.51
2001	310	23	2789	340.496	-426.449	D	7.552	7.546	0.006	3.2	98.34	0.58	0	0	0	1.1
2001	311	23	2468	334.002	-434.887	D	7.549	7.546	0.003	3.2	98.76	0.27	0	0	0	0.97
2001	312	23	2781	339.842	-425.379	D	7.547	7.546	0.001	3.2	98.28	0.35	0	0	0	1.47
2001	313	23	201	321.37	-445.413	D	7.546	7.546	0	3.2	98.16	0.39	0	0	0	1.22
2001	314	23	2584	319.439	-445.724	D	7.547	7.546	0.001	3.2	96.67	1.58	0	0	0	1.78
2001	315	23	2789	340.496	-426.449	D	7.547	7.546	0	3.2	97.39	0.77	0	0	0	2.13
2001	316	23	2586	318.945	-445.762	D	7.547	7.546	0.001	3.2	96.28	1.48	0	0	0	2.22
2001	317	23	166	320.59	-438.952	D	7.546	7.546	0	3.2	98.95	0.66	0	0	0	1.31
2001	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	323	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	70.89	20.88	0	0	0	8.3
2001	324	23	2602	319.088	-442.669	D	7.547	7.546	0.001	3.2	84.64	10.51	0	0	0	5.04
2001	325	23	2468	334.002	-434.887	D	7.547	7.546	0.001	3.2	94.63	3.74	0	0	0	1.8
2001	326	23	2412	339.417	-425.886	D	7.546	7.546	0	3.2	97.13	1.44	0	0	0	0.87
2001	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	332	23	2571	322.646	-445.476	D	7.548	7.546	0.002	3.2	90.25	7.93	0	0	0	1.88

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	333	23	2571	322.646	-445.476	D	7.546	7.546	0	3.2	96.55	3.95	0	0	0	0.57
2001	334	23	2588	318.452	-445.8	D	7.547	7.546	0.001	3.2	86.13	10.66	0	0	0	3.33
2001	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	341	23	1415	329.185	-425.086	D	7.593	7.593	0	3.3	73.18	1.28	0	0	0	1
2001	342	23	2758	335.862	-424.454	D	7.595	7.593	0.002	3.3	90.32	6.57	0	0	0	3.22
2001	343	23	2652	323.833	-433.511	D	7.594	7.593	0.001	3.3	89	7.72	0	0	0	3.17
2001	344	23	2588	318.452	-445.8	D	7.593	7.593	0	3.3	94.52	4.22	0	0	0	1.73
2001	345	23	2605	319.291	-441.992	D	7.593	7.593	0	3.3	95.7	3.05	0	0	0	1.21
2001	346	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	347	23	2626	320.826	-437.417	D	7.593	7.593	0	3.3	94.99	3.75	0	0	0	1.46
2001	348	23	2588	318.452	-445.8	D	7.611	7.593	0.018	3.3	95.23	3.62	0	0	0	1.15
2001	349	23	2789	340.496	-426.449	D	7.598	7.593	0.005	3.3	97.15	2.05	0	0	0	0.81
2001	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	351	23	2781	339.842	-425.379	D	7.598	7.593	0.005	3.3	92.32	5.41	0	0	0	2.28
2001	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	353	23	2588	318.452	-445.8	D	7.594	7.593	0.001	3.3	86.9	9.48	0	0	0	3.72
2001	354	23	2476	332.154	-435.398	D	7.593	7.593	0.001	3.3	84.61	10.6	0	0	0	4.71
2001	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	359	23	2781	339.842	-425.379	D	7.594	7.593	0.001	3.3	78.78	16.02	0	0	0	5.3
2001	360	23	2780	339.614	-425.419	D	7.594	7.593	0.001	3.3	71.82	21.05	0	0	0	7.07
2001	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	363	23	2781	339.842	-425.379	D	7.594	7.593	0.002	3.3	78.93	16.26	0	0	0	4.82
2001	364	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	79.96	15.17	0	0	0	4.91
2001	365	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	80.63	15.44	0	0	0	3.9
									0.018							
TRIGEN KC											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	2418	339.946	-426.612	D	7.593	7.593	0	3.3	56.12	4.87	0	0	0	0.17

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	2	23	2781	339.842	-425.379	D	7.617	7.593	0.025	3.3	95.05	4.78	0	0	0	0.18
2001	3	23	2789	340.496	-426.449	D	7.6	7.593	0.007	3.3	96.43	3.46	0	0	0	0.12
2001	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	7	23	2694	327.861	-425.964	D	7.604	7.593	0.011	3.3	86.28	13.07	0	0	0	0.65
2001	8	23	2781	339.842	-425.379	D	7.599	7.593	0.006	3.3	95.13	4.64	0	0	0	0.24
2001	9	23	2781	339.842	-425.379	D	7.63	7.593	0.038	3.3	96.37	3.49	0	0	0	0.15
2001	10	23	2603	319.155	-442.443	D	7.627	7.593	0.034	3.3	97.27	2.65	0	0	0	0.08
2001	11	23	2758	335.862	-424.454	D	7.594	7.593	0.001	3.3	98.25	1.74	0	0	0	0.06
2001	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	16	23	2781	339.842	-425.379	D	7.599	7.593	0.007	3.3	90.41	9.13	0	0	0	0.46
2001	17	23	2588	318.452	-445.8	D	7.597	7.593	0.004	3.3	91.11	8.61	0	0	0	0.29
2001	18	23	2684	326.713	-427.014	D	7.596	7.593	0.003	3.3	96.45	3.38	0	0	0	0.22
2001	19	23	2589	318.383	-445.593	D	7.602	7.593	0.009	3.3	89.84	9.69	0	0	0	0.48
2001	20	23	2171	335.252	-427.318	D	7.61	7.593	0.018	3.3	87.07	12.32	0	0	0	0.61
2001	21	23	1893	333.346	-434.896	D	7.593	7.593	0	3.3	85.68	7.33	0	0	0	0.24
2001	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	24	23	2704	329.056	-425.092	D	7.599	7.593	0.006	3.3	96.44	3.36	0	0	0	0.21
2001	25	23	2588	318.452	-445.8	D	7.593	7.593	0.001	3.3	90.74	8.74	0	0	0	0.57
2001	26	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	119.68	6.87	0	0	0	0.25
2001	27	23	2682	326.697	-427.477	D	7.595	7.593	0.002	3.3	81.26	17.81	0	0	0	0.98
2001	28	23	2588	318.452	-445.8	D	7.593	7.593	0	3.3	91.85	8.05	0	0	0	0.16
2001	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2001	33	23	2789	340.496	-426.449	D	7.453	7.453	0	3	86.58	14.29	0	0	0	0.59
2001	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	37	23	1413	329.207	-425.585	D	7.453	7.453	0	3	90.91	1.81	0	0	0	0.48
2001	38	23	1415	329.185	-425.086	D	7.453	7.453	0	3	95.69	4.8	0	0	0	0.37
2001	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	40	23	1415	329.185	-425.086	D	7.457	7.453	0.004	3	97.13	2.84	0	0	0	0.07

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	41	23	2645	323.46	-434.959	D	7.458	7.453	0.005	3	82.33	16.83	0	0	0	0.88
2001	42	23	2588	318.452	-445.8	D	7.453	7.453	0	3	93.33	7.17	0	0	0	0.28
2001	43	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	44	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	46	23	2758	335.862	-424.454	D	7.588	7.453	0.136	3	97.6	2.29	0	0	0	0.11
2001	47	23	2781	339.842	-425.379	D	7.494	7.453	0.041	3	95.54	4.31	0	0	0	0.15
2001	48	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	49	23	2628	320.933	-436.998	D	7.453	7.453	0	3	95.35	5.08	0	0	0	0.23
2001	50	23	2684	326.713	-427.014	D	7.453	7.453	0	3	94.69	3.71	0	0	0	0.14
2001	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	52	23	2704	329.056	-425.092	D	7.454	7.453	0.002	3	97.9	2.16	0	0	0	0.1
2001	53	23	1517	329.93	-425.053	D	7.453	7.453	0.001	3	97.91	2.25	0	0	0	0.1
2001	54	23	1415	329.185	-425.086	D	7.453	7.453	0	3	96.03	4.17	0	0	0	0.22
2001	55	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	57	23	2789	340.496	-426.449	D	7.453	7.453	0	3	98	2.12	0	0	0	0.26
2001	58	23	2684	326.713	-427.014	D	7.455	7.453	0.002	3	97.77	2.17	0	0	0	0.13
2001	59	23	2589	318.383	-445.593	D	7.453	7.453	0.001	3	98.43	2.11	0	0	0	0.06
2001	60	23	2684	326.713	-427.014	D	7.317	7.317	0	2.713	98.73	1.51	0	0	0	0.06
2001	61	23	2780	339.614	-425.419	D	7.311	7.311	0	2.7	95.77	1.01	0	0	0	0.05
2001	62	23	2418	339.946	-426.612	D	7.311	7.311	0	2.7	99.17	2.26	0	0	0	0.19
2001	63	23	2589	318.383	-445.593	D	7.329	7.311	0.019	2.7	97.01	2.81	0	0	0	0.19
2001	64	23	2678	326.665	-428.404	D	7.324	7.311	0.013	2.7	91.16	8.22	0	0	0	0.63
2001	65	23	2789	340.496	-426.449	D	7.314	7.311	0.003	2.7	88.91	10.44	0	0	0	0.67
2001	66	23	2684	326.713	-427.014	D	7.316	7.311	0.005	2.7	98.56	1.23	0	0	0	0.26
2001	67	23	2781	339.842	-425.379	D	7.334	7.311	0.024	2.7	97.04	2.73	0	0	0	0.24
2001	68	23	2789	340.496	-426.449	D	7.312	7.311	0.002	2.7	89.98	9.26	0	0	0	0.74
2001	69	23	2628	320.933	-436.998	D	7.311	7.311	0	2.7	98.24	1.72	0	0	0	0.24
2001	70	23	2041	333.901	-424.879	D	7.311	7.311	0	2.7	96.05	1.56	0	0	0	0.16
2001	71	23	620	323.632	-434.572	D	7.311	7.311	0	2.7	77.53	0.69	0	0	0	0.07
2001	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	74	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	75	23	2588	318.452	-445.8	D	7.315	7.311	0.004	2.7	91.31	8.02	0	0	0	0.68
2001	76	23	2757	335.63	-424.484	D	7.312	7.311	0.002	2.7	84.85	13.94	0	0	0	1.16
2001	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	79	23	2628	320.933	-436.998	D	7.311	7.311	0	2.7	98.9	1.27	0	0	0	0.13

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	80	23	2589	318.383	-445.593	D	7.312	7.311	0.001	2.7	98.76	1.03	0	0	0	0.17
2001	81	23	1415	329.185	-425.086	D	7.315	7.311	0.004	2.7	99.01	0.87	0	0	0	0.13
2001	82	23	2781	339.842	-425.379	D	7.313	7.311	0.003	2.7	99.12	0.84	0	0	0	0.11
2001	83	23	2789	340.496	-426.449	D	7.314	7.311	0.003	2.7	99.36	0.66	0	0	0	0.07
2001	84	23	2628	320.933	-436.998	D	7.311	7.311	0	2.7	94.69	5.08	0	0	0	0.46
2001	85	23	2588	318.452	-445.8	D	7.318	7.311	0.008	2.7	93.77	5.92	0	0	0	0.3
2001	86	23	2588	318.452	-445.8	D	7.311	7.311	0	2.7	99.71	1.94	0	0	0	0.17
2001	87	23	2626	320.826	-437.417	D	7.312	7.311	0.001	2.7	97.6	2.28	0	0	0	0.1
2001	88	23	1415	329.185	-425.086	D	7.311	7.311	0	2.7	99.4	1.07	0	0	0	0.09
2001	89	23	1415	329.185	-425.086	D	7.311	7.311	0	2.7	99.49	0.69	0	0	0	0.07
2001	90	23	2128	334.646	-424.846	D	7.311	7.311	0	2.7	99.77	0.58	0	0	0	0.06
2001	91	23	2789	340.496	-426.449	D	7.356	7.356	0	2.796	94.61	3.95	0	0	0	0.61
2001	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	105	23	2781	339.842	-425.379	D	7.362	7.358	0.003	2.8	99.54	0.34	0	0	0	0.18
2001	106	23	2789	340.496	-426.449	D	7.36	7.358	0.002	2.8	94.77	4.59	0	0	0	0.62
2001	107	23	1415	329.185	-425.086	D	7.36	7.358	0.002	2.8	95.05	4.31	0	0	0	0.6
2001	108	23	2684	326.713	-427.014	D	7.363	7.358	0.004	2.8	99	0.9	0	0	0	0.16
2001	109	23	2781	339.842	-425.379	D	7.361	7.358	0.002	2.8	99.53	0.36	0	0	0	0.09
2001	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	114	23	2684	326.713	-427.014	D	7.361	7.358	0.003	2.8	99.21	0.54	0	0	0	0.33
2001	115	23	2589	318.383	-445.593	D	7.363	7.358	0.004	2.8	99.13	0.72	0	0	0	0.19
2001	116	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	127	23	2781	339.842	-425.379	D	7.644	7.639	0.006	3.4	99.71	0.1	0	0	0	0.2
2001	128	23	2588	318.452	-445.8	D	7.657	7.639	0.018	3.4	99.66	0.21	0	0	0	0.14
2001	129	23	2704	329.056	-425.092	D	7.645	7.639	0.006	3.4	99.84	0.09	0	0	0	0.08
2001	130	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.93	0.05	0	0	0	0.06
2001	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	132	23	2789	340.496	-426.449	D	7.645	7.639	0.006	3.4	98.19	1.72	0	0	0	0.11
2001	133	23	2589	318.383	-445.593	D	7.643	7.639	0.004	3.4	99.9	0.02	0	0	0	0.06
2001	134	23	1415	329.185	-425.086	D	7.641	7.639	0.003	3.4	99.91	0.03	0	0	0	0.05
2001	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	138	23	2684	326.713	-427.014	D	7.643	7.639	0.004	3.4	99.7	0.23	0	0	0	0.07
2001	139	23	2588	318.452	-445.8	D	7.669	7.639	0.03	3.4	99.8	0.14	0	0	0	0.06
2001	140	23	2589	318.383	-445.593	D	7.648	7.639	0.009	3.4	99.83	0.1	0	0	0	0.06
2001	141	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.56	0.6	0	0	0	0.04
2001	142	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	148	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.87	0.01	0	0	0	0.1
2001	149	23	2789	340.496	-426.449	D	7.655	7.639	0.016	3.4	99.86	0.08	0	0	0	0.08
2001	150	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.92	0.09	0	0	0	0.06
2001	151	23	1046	326.812	-427.688	D	7.639	7.639	0	3.4	101.06	0.18	0	0	0	0.04
2001	152	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	98.55	1.18	0	0	0	0.31
2001	153	23	2781	339.842	-425.379	D	7.643	7.639	0.004	3.4	99.61	0.17	0	0	0	0.24
2001	154	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.72	0.27	0	0	0	0.1
2001	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	158	23	2758	335.862	-424.454	D	7.646	7.639	0.007	3.4	99.93	0.03	0	0	0	0.06
2001	159	23	2684	326.713	-427.014	D	7.698	7.639	0.059	3.4	99.88	0.07	0	0	0	0.05
2001	160	23	2589	318.383	-445.593	D	7.665	7.639	0.027	3.4	99.95	0.02	0	0	0	0.05
2001	161	23	2704	329.056	-425.092	D	7.658	7.639	0.019	3.4	99.93	0.03	0	0	0	0.04
2001	162	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	99.97	0.01	0	0	0	0.04
2001	163	23	2413	339.406	-425.637	D	7.639	7.639	0	3.4	100.78	0.01	0	0	0	0.03
2001	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	168	23	2468	334.002	-434.887	D	7.642	7.639	0.003	3.4	99.94	0.01	0	0	0	0.08
2001	169	23	2789	340.496	-426.449	D	7.646	7.639	0.007	3.4	99.94	0.01	0	0	0	0.07
2001	170	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.97	0.01	0	0	0	0.05
2001	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	172	23	2781	339.842	-425.379	D	7.663	7.639	0.024	3.4	99.81	0.09	0	0	0	0.09
2001	173	23	2588	318.452	-445.8	D	7.65	7.639	0.011	3.4	99.77	0.1	0	0	0	0.15
2001	174	23	2468	334.002	-434.887	D	7.673	7.639	0.034	3.4	99.67	0.15	0	0	0	0.18
2001	175	23	2571	322.646	-445.476	D	7.64	7.639	0.002	3.4	99.87	0.03	0	0	0	0.1
2001	176	23	2588	318.452	-445.8	D	7.646	7.639	0.007	3.4	99.9	0.03	0	0	0	0.07
2001	177	23	2694	327.861	-425.964	D	7.64	7.639	0.001	3.4	100.01	0.03	0	0	0	0.06
2001	178	23	1241	327.999	-426.387	D	7.639	7.639	0	3.4	100.2	0.03	0	0	0	0.05
2001	179	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	97.53	0.01	0	0	0	0.04
2001	180	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	182	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	100.1	0	0	0	0	0.07
2001	183	23	2704	329.056	-425.092	D	7.643	7.639	0.004	3.4	99.85	0.13	0	0	0	0.06
2001	184	23	2756	335.398	-424.515	D	7.639	7.639	0	3.4	99.45	0.01	0	0	0	0.05
2001	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	186	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.82	0	0	0	0	0.08
2001	187	23	2781	339.842	-425.379	D	7.654	7.639	0.015	3.4	99.93	0.01	0	0	0	0.06
2001	188	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.99	0	0	0	0	0.05
2001	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	191	23	2781	339.842	-425.379	D	7.65	7.639	0.011	3.4	99.88	0.05	0	0	0	0.08
2001	192	23	2789	340.496	-426.449	D	7.66	7.639	0.021	3.4	99.9	0.02	0	0	0	0.08
2001	193	23	2571	322.646	-445.476	D	7.639	7.639	0	3.4	100.02	0.01	0	0	0	0.05
2001	194	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	195	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	196	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	204	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	205	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	206	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	207	23	2756	335.398	-424.515	D	7.639	7.639	0	3.4	99.88	0.01	0	0	0	0.05
2001	208	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.96	0.12	0	0	0	0.04
2001	209	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.74	0.1	0	0	0	0.04
2001	210	23	2322	336.902	-425.247	D	7.639	7.639	0	3.4	99.16	0.06	0	0	0	0.04
2001	211	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.92	0.02	0	0	0	0.05
2001	212	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.88	0.01	0	0	0	0.04
2001	213	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	100.75	0	0	0	0	0.03
2001	214	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	215	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	216	23	2789	340.496	-426.449	D	7.645	7.639	0.006	3.4	99.87	0.08	0	0	0	0.07
2001	217	23	1	318.65	-445.782	D	7.639	7.639	0.001	3.4	99.94	0.02	0	0	0	0.05
2001	218	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	53.07	0	0	0	0	0.03
2001	219	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	222	23	2704	329.056	-425.092	D	7.642	7.639	0.003	3.4	99.86	0.02	0	0	0	0.12
2001	223	23	2789	340.496	-426.449	D	7.658	7.639	0.019	3.4	99.51	0.42	0	0	0	0.08
2001	224	23	2588	318.452	-445.8	D	7.643	7.639	0.004	3.4	99.87	0.07	0	0	0	0.07
2001	225	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.75	0.23	0	0	0	0.04
2001	226	23	340	322.363	-445.37	D	7.639	7.639	0	3.4	72.53	0.01	0	0	0	0.03
2001	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	228	23	2397	338.413	-425.68	D	7.639	7.639	0	3.4	19.21	0.09	0	0	0	0.01
2001	229	23	2468	334.002	-434.887	D	7.639	7.639	0	3.4	100.28	0.01	0	0	0	0.09
2001	230	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.71	0.02	0	0	0	0.07
2001	231	23	2704	329.056	-425.092	D	7.64	7.639	0.001	3.4	98.53	0.78	0	0	0	0.67
2001	232	23	2684	326.713	-427.014	D	7.65	7.639	0.011	3.4	99.76	0.12	0	0	0	0.13
2001	233	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.81	0.01	0	0	0	0.07
2001	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	238	23	2781	339.842	-425.379	D	7.647	7.639	0.008	3.4	99.72	0.13	0	0	0	0.15
2001	239	23	2588	318.452	-445.8	D	7.65	7.639	0.011	3.4	99.81	0.11	0	0	0	0.1
2001	240	23	2588	318.452	-445.8	D	7.65	7.639	0.011	3.4	99.89	0.05	0	0	0	0.07
2001	241	23	2589	318.383	-445.593	D	7.65	7.639	0.011	3.4	99.9	0.05	0	0	0	0.06
2001	242	23	2781	339.842	-425.379	D	7.644	7.639	0.005	3.4	99.81	0.15	0	0	0	0.05
2001	243	23	2780	339.614	-425.419	D	7.639	7.639	0	3.4	99.98	0.11	0	0	0	0.04
2001	244	23	2704	329.056	-425.092	D	7.739	7.727	0.012	3.592	99.76	0.16	0	0	0	0.07
2001	245	23	2704	329.056	-425.092	D	7.742	7.731	0.011	3.6	99.86	0.09	0	0	0	0.05
2001	246	23	2704	329.056	-425.092	D	7.734	7.731	0.003	3.6	99.92	0.01	0	0	0	0.04
2001	247	23	2704	329.056	-425.092	D	7.736	7.731	0.005	3.6	99.93	0.01	0	0	0	0.05
2001	248	23	2704	329.056	-425.092	D	7.738	7.731	0.007	3.6	99.91	0.04	0	0	0	0.05
2001	249	23	1415	329.185	-425.086	D	7.731	7.731	0.001	3.6	99.94	0.01	0	0	0	0.04
2001	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	252	23	2789	340.496	-426.449	D	7.755	7.731	0.025	3.6	99.67	0.16	0	0	0	0.17
2001	253	23	2789	340.496	-426.449	D	7.747	7.731	0.017	3.6	99.36	0.42	0	0	0	0.22
2001	254	23	2589	318.383	-445.593	D	7.733	7.731	0.003	3.6	99.79	0.06	0	0	0	0.14
2001	255	23	2628	320.933	-436.998	D	7.731	7.731	0	3.6	99.83	0.06	0	0	0	0.07
2001	256	23	2757	335.63	-424.484	D	7.732	7.731	0.002	3.6	99.79	0.06	0	0	0	0.07
2001	257	23	2758	335.862	-424.454	D	7.735	7.731	0.004	3.6	99.81	0.1	0	0	0	0.06
2001	258	23	1048	326.791	-427.189	D	7.731	7.731	0.001	3.6	99.81	0.02	0	0	0	0.05
2001	259	23	1009	326.641	-429.444	D	7.731	7.731	0	3.6	98.86	0.13	0	0	0	0.05
2001	260	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	261	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	262	23	2781	339.842	-425.379	D	7.766	7.731	0.035	3.6	99.1	0.82	0	0	0	0.08
2001	263	23	2789	340.496	-426.449	D	7.731	7.731	0	3.6	99.39	0.01	0	0	0	0.07
2001	264	23	2758	335.862	-424.454	D	7.732	7.731	0.001	3.6	99.72	0.03	0	0	0	0.14
2001	265	23	2588	318.452	-445.8	D	7.736	7.731	0.005	3.6	99.66	0.24	0	0	0	0.1
2001	266	23	2704	329.056	-425.092	D	7.738	7.731	0.007	3.6	99.15	0.76	0	0	0	0.1
2001	267	23	2588	318.452	-445.8	D	7.74	7.731	0.009	3.6	98.78	1.16	0	0	0	0.07
2001	268	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	269	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	270	23	2758	335.862	-424.454	D	7.731	7.731	0	3.6	99.04	0.05	0	0	0	0.09
2001	271	23	2781	339.842	-425.379	D	7.753	7.731	0.023	3.6	99.77	0.13	0	0	0	0.1
2001	272	23	2589	318.383	-445.593	D	7.737	7.731	0.007	3.6	99.86	0.06	0	0	0	0.07
2001	273	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	274	23	2758	335.862	-424.454	D	7.598	7.598	0	3.313	108.05	0.08	0	0	0	0.11

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	278	23	2706	329.518	-425.046	D	7.595	7.593	0.002	3.3	98.92	0.97	0	0	0	0.06
2001	279	23	47	319.458	-441.5	D	7.596	7.593	0.003	3.3	98.55	1.14	0	0	0	0.28
2001	280	23	2572	322.4	-445.495	D	7.596	7.593	0.003	3.3	99.01	0.82	0	0	0	0.16
2001	281	23	2235	335.628	-424.554	D	7.593	7.593	0	3.3	99.41	0.38	0	0	0	0.11
2001	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	284	23	1047	326.802	-427.438	D	7.593	7.593	0	3.3	97.74	0.27	0	0	0	0.14
2001	285	23	2628	320.933	-436.998	D	7.602	7.593	0.009	3.3	98	1.89	0	0	0	0.12
2001	286	23	2704	329.056	-425.092	D	7.6	7.593	0.007	3.3	99.47	0.47	0	0	0	0.08
2001	287	23	2789	340.496	-426.449	D	7.605	7.593	0.012	3.3	98.9	1.03	0	0	0	0.06
2001	288	23	2624	320.719	-437.835	D	7.593	7.593	0	3.3	95.66	4.1	0	0	0	0.15
2001	289	23	2781	339.842	-425.379	D	7.598	7.593	0.005	3.3	96.39	3.47	0	0	0	0.16
2001	290	23	2441	336.336	-429.538	D	7.602	7.593	0.01	3.3	96.35	3.31	0	0	0	0.34
2001	291	23	2781	339.842	-425.379	D	7.594	7.593	0.002	3.3	99.44	0.47	0	0	0	0.12
2001	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	293	23	2209	335.38	-424.564	D	7.593	7.593	0	3.3	94.19	1.29	0	0	0	0.13
2001	294	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	297	23	2781	339.842	-425.379	D	7.596	7.593	0.004	3.3	98.81	0.98	0	0	0	0.24
2001	298	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	300	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	89	10.09	0	0	0	0.93
2001	301	23	30	319.242	-442.259	D	7.593	7.593	0	3.3	98.5	0.98	0	0	0	0.15
2001	302	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	307	23	2790	340.421	-426.562	D	7.55	7.546	0.003	3.2	98.61	1.31	0	0	0	0.1
2001	308	23	2589	318.383	-445.593	D	7.549	7.546	0.002	3.2	99.2	0.85	0	0	0	0.07
2001	309	23	2781	339.842	-425.379	D	7.622	7.546	0.076	3.2	98.47	1.42	0	0	0	0.12
2001	310	23	2588	318.452	-445.8	D	7.611	7.546	0.065	3.2	99.45	0.46	0	0	0	0.09
2001	311	23	2789	340.496	-426.449	D	7.573	7.546	0.027	3.2	99.65	0.28	0	0	0	0.07
2001	312	23	2781	339.842	-425.379	D	7.552	7.546	0.006	3.2	99.68	0.23	0	0	0	0.13
2001	313	23	2588	318.452	-445.8	D	7.546	7.546	0	3.2	99.56	0.23	0	0	0	0.11

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	314	23	2694	327.861	-425.964	D	7.551	7.546	0.005	3.2	97.5	2.29	0	0	0	0.23
2001	315	23	2781	339.842	-425.379	D	7.549	7.546	0.003	3.2	98.98	0.8	0	0	0	0.28
2001	316	23	2588	318.452	-445.8	D	7.552	7.546	0.006	3.2	99.04	0.8	0	0	0	0.19
2001	317	23	2589	318.383	-445.593	D	7.548	7.546	0.002	3.2	99.39	0.54	0	0	0	0.12
2001	318	23	14	319.049	-443.516	D	7.546	7.546	0	3.2	71.34	0.09	0	0	0	0.07
2001	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	323	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	80.87	18.3	0	0	0	0.9
2001	324	23	2589	318.383	-445.593	D	7.553	7.546	0.007	3.2	87.63	11.6	0	0	0	0.79
2001	325	23	2571	322.646	-445.476	D	7.552	7.546	0.006	3.2	96.37	3.41	0	0	0	0.23
2001	326	23	2781	339.842	-425.379	D	7.547	7.546	0	3.2	98.63	1.35	0	0	0	0.11
2001	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	332	23	2571	322.646	-445.476	D	7.55	7.546	0.004	3.2	90.03	9.66	0	0	0	0.36
2001	333	23	375	322.611	-445.359	D	7.546	7.546	0	3.2	97.78	2.57	0	0	0	0.05
2001	334	23	2588	318.452	-445.8	D	7.555	7.546	0.009	3.2	92.74	6.96	0	0	0	0.31
2001	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	341	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	96.19	4.27	0	0	0	0.22
2001	342	23	2781	339.842	-425.379	D	7.606	7.593	0.014	3.3	95.3	4.41	0	0	0	0.3
2001	343	23	1951	333.842	-434.874	D	7.596	7.593	0.004	3.3	93.31	6.21	0	0	0	0.46
2001	344	23	2589	318.383	-445.593	D	7.594	7.593	0.001	3.3	95.91	3.92	0	0	0	0.2
2001	345	23	2627	320.879	-437.207	D	7.594	7.593	0.002	3.3	97.02	2.84	0	0	0	0.14
2001	346	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	347	23	2704	329.056	-425.092	D	7.736	7.593	0.144	3.3	96.75	3.12	0	0	0	0.14
2001	348	23	2604	319.223	-442.217	D	7.739	7.593	0.146	3.3	97.02	2.89	0	0	0	0.09
2001	349	23	2789	340.496	-426.449	D	7.598	7.593	0.006	3.3	98.7	1.27	0	0	0	0.06
2001	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	351	23	1548	330.222	-426.04	D	7.614	7.593	0.021	3.3	94.14	5.63	0	0	0	0.23
2001	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	353	23	2757	335.63	-424.484	D	7.598	7.593	0.005	3.3	92.72	6.76	0	0	0	0.52
2001	354	23	2789	340.496	-426.449	D	7.596	7.593	0.003	3.3	91.79	7.59	0	0	0	0.62
2001	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	356	23	1480	329.715	-425.812	D	7.593	7.593	0	3.3	20.69	0.39	0	0	0	0.02
2001	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	359	23	2789	340.496	-426.449	D	7.599	7.593	0.006	3.3	82.73	16.37	0	0	0	0.9
2001	360	23	2781	339.842	-425.379	D	7.598	7.593	0.005	3.3	79.98	19.12	0	0	0	0.94
2001	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	363	23	2781	339.842	-425.379	D	7.601	7.593	0.009	3.3	85.93	13.34	0	0	0	0.73
2001	364	23	2781	339.842	-425.379	D	7.602	7.593	0.009	3.3	85.44	14.05	0	0	0	0.52
2001	365	23	2790	340.421	-426.562	D	7.595	7.593	0.002	3.3	87.41	12.18	0	0	0	0.38
									0.146							
UMC											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	2	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	91.06	8.88	0	0	0	0.02
2001	3	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	7	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	9	23	2789	340.496	-426.449	D	7.596	7.593	0.003	3.3	82.87	17.06	0	0	0	0.04
2001	10	23	2789	340.496	-426.449	D	7.609	7.593	0.017	3.3	84.21	15.78	0	0	0	0.03
2001	11	23	2704	329.056	-425.092	D	7.596	7.593	0.004	3.3	90.93	9.06	0	0	0	0.02
2001	12	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	76.22	6.28	0	0	0	0.01
2001	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	16	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	17	23	2704	329.056	-425.092	D	7.801	7.593	0.208	3.3	87.15	12.81	0	0	0	0.04
2001	18	23	2611	319.699	-440.64	D	7.793	7.593	0.2	3.3	87.79	12.19	0	0	0	0.03
2001	19	23	2789	340.496	-426.449	D	7.602	7.593	0.009	3.3	92.93	7.05	0	0	0	0.02
2001	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	21	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	24	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	25	23	2789	340.496	-426.449	D	7.613	7.593	0.02	3.3	73.04	26.9	0	0	0	0.07
2001	26	23	2684	326.713	-427.014	D	7.6	7.593	0.008	3.3	81.21	18.77	0	0	0	0.02
2001	27	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	28	23	2789	340.496	-426.449	D	7.601	7.593	0.008	3.3	85.69	14.29	0	0	0	0.02
2001	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2001	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	37	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	38	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	40	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	42	23	2781	339.842	-425.379	D	7.468	7.453	0.015	3	83.11	16.89	0	0	0	0.03
2001	43	23	1415	329.185	-425.086	D	7.453	7.453	0	3	88.67	11.27	0	0	0	0.01
2001	44	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	45	23	2704	329.056	-425.092	D	7.454	7.453	0.002	3	95.73	4.28	0	0	0	0.01
2001	46	23	2789	340.496	-426.449	D	7.75	7.453	0.297	3	95.08	4.91	0	0	0	0.01
2001	47	23	2571	322.646	-445.476	D	7.485	7.453	0.032	3	95.44	4.56	0	0	0	0.01
2001	48	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	49	23	2789	340.496	-426.449	D	7.453	7.453	0.001	3	92.71	7.34	0	0	0	0.03
2001	50	23	2789	340.496	-426.449	D	7.454	7.453	0.001	3	93.46	6.62	0	0	0	0.02
2001	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	52	23	2571	322.646	-445.476	D	7.459	7.453	0.007	3	93.01	7.02	0	0	0	0.02
2001	53	23	2628	320.933	-436.998	D	7.468	7.453	0.015	3	93.08	6.91	0	0	0	0.02
2001	54	23	2705	329.287	-425.069	D	7.465	7.453	0.012	3	91.27	8.72	0	0	0	0.02
2001	55	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	57	23	2789	340.496	-426.449	D	7.453	7.453	0	3	97.68	2.73	0	0	0	0.05
2001	58	23	2789	340.496	-426.449	D	7.471	7.453	0.018	3	93.04	6.94	0	0	0	0.02
2001	59	23	2589	318.383	-445.593	D	7.462	7.453	0.009	3	93.39	6.63	0	0	0	0.01
2001	60	23	2628	320.933	-436.998	D	7.321	7.317	0.004	2.713	94.91	5.09	0	0	0	0.01

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	61	23	2781	339.842	-425.379	D	7.322	7.311	0.012	2.7	94.63	5.37	0	0	0	0.01
2001	62	23	2571	322.646	-445.476	D	7.312	7.311	0.002	2.7	97.68	2.36	0	0	0	0.01
2001	63	23	2628	320.933	-436.998	D	7.513	7.311	0.202	2.7	88.81	11.16	0	0	0	0.03
2001	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	68	23	2789	340.496	-426.449	D	7.315	7.311	0.004	2.7	86.55	13.41	0	0	0	0.07
2001	69	23	2789	340.496	-426.449	D	7.319	7.311	0.009	2.7	93.8	6.19	0	0	0	0.04
2001	70	23	2758	335.862	-424.454	D	7.314	7.311	0.004	2.7	95.89	4.14	0	0	0	0.02
2001	71	23	2781	339.842	-425.379	D	7.311	7.311	0	2.7	97.82	1.66	0	0	0	0.01
2001	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	74	23	2588	318.452	-445.8	D	7.311	7.311	0	2.7	95.09	5.64	0	0	0	0.01
2001	75	23	2758	335.862	-424.454	D	7.351	7.311	0.04	2.7	94.31	5.69	0	0	0	0.01
2001	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	77	23	2704	329.056	-425.092	D	7.358	7.311	0.048	2.7	89.96	10	0	0	0	0.04
2001	78	23	2589	318.383	-445.593	D	7.316	7.311	0.006	2.7	94.73	5.28	0	0	0	0.03
2001	79	23	2589	318.383	-445.593	D	7.344	7.311	0.034	2.7	94.21	5.75	0	0	0	0.04
2001	80	23	2588	318.452	-445.8	D	7.418	7.311	0.107	2.7	92.84	7.12	0	0	0	0.04
2001	81	23	2789	340.496	-426.449	D	7.388	7.311	0.077	2.7	98	1.98	0	0	0	0.03
2001	82	23	2789	340.496	-426.449	D	7.362	7.311	0.051	2.7	98.03	1.96	0	0	0	0.02
2001	83	23	2684	326.713	-427.014	D	7.406	7.311	0.095	2.7	91.44	8.53	0	0	0	0.04
2001	84	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	85	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	86	23	2571	322.646	-445.476	D	7.312	7.311	0.001	2.7	97.87	2.3	0	0	0	0.02
2001	87	23	2789	340.496	-426.449	D	7.337	7.311	0.027	2.7	94.36	5.63	0	0	0	0.02
2001	88	23	1415	329.185	-425.086	D	7.311	7.311	0.001	2.7	96.07	4.14	0	0	0	0.01
2001	89	23	2684	326.713	-427.014	D	7.311	7.311	0.001	2.7	98.23	2.21	0	0	0	0.01
2001	90	23	1381	328.981	-426.094	D	7.311	7.311	0.001	2.7	97.88	2.27	0	0	0	0.01
2001	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2001	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	105	23	2789	340.496	-426.449	D	7.358	7.358	0	2.8	100.52	0.47	0	0	0	0.02
2001	106	23	2789	340.496	-426.449	D	7.358	7.358	0	2.8	96.83	3.95	0	0	0	0.08
2001	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	115	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	116	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	129	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.66	0.29	0	0	0	0.01
2001	130	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	99.9	0.11	0	0	0	0.01
2001	131	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	100.06	0.02	0	0	0	0.01
2001	132	23	2684	326.713	-427.014	D	7.685	7.639	0.046	3.4	99.31	0.66	0	0	0	0.04
2001	133	23	2601	319.02	-442.895	D	7.678	7.639	0.04	3.4	99.7	0.28	0	0	0	0.02
2001	134	23	2789	340.496	-426.449	D	7.645	7.639	0.006	3.4	99.89	0.12	0	0	0	0.01
2001	135	23	2398	338.694	-426.417	D	7.639	7.639	0	3.4	47.2	0.01	0	0	0	0
2001	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	138	23	1415	329.185	-425.086	D	7.642	7.639	0.003	3.4	96.52	3.44	0	0	0	0.01

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	139	23	2781	339.842	-425.379	D	7.667	7.639	0.028	3.4	98.53	1.46	0	0	0	0.01
2001	140	23	2781	339.842	-425.379	D	7.646	7.639	0.007	3.4	99.84	0.15	0	0	0	0.02
2001	141	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	149	23	2789	340.496	-426.449	D	7.678	7.639	0.039	3.4	99.72	0.27	0	0	0	0.01
2001	150	23	2781	339.842	-425.379	D	7.644	7.639	0.005	3.4	99.79	0.22	0	0	0	0.01
2001	151	23	2758	335.862	-424.454	D	7.66	7.639	0.021	3.4	99.5	0.49	0	0	0	0.01
2001	152	23	2789	340.496	-426.449	D	7.65	7.639	0.011	3.4	99.72	0.28	0	0	0	0.01
2001	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	158	23	2781	339.842	-425.379	D	7.682	7.639	0.043	3.4	99.95	0.03	0	0	0	0.01
2001	159	23	2628	320.933	-436.998	D	8.027	7.639	0.389	3.4	99.75	0.24	0	0	0	0.01
2001	160	23	2628	320.933	-436.998	D	7.803	7.639	0.165	3.4	99.87	0.12	0	0	0	0.01
2001	161	23	2704	329.056	-425.092	D	7.72	7.639	0.081	3.4	99.91	0.08	0	0	0	0.01
2001	162	23	2781	339.842	-425.379	D	7.645	7.639	0.006	3.4	99.98	0.03	0	0	0	0
2001	163	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	99.89	0.02	0	0	0	0
2001	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	168	23	2588	318.452	-445.8	D	7.646	7.639	0.007	3.4	99.98	0.02	0	0	0	0.01
2001	169	23	2781	339.842	-425.379	D	7.654	7.639	0.015	3.4	99.97	0.03	0	0	0	0.01
2001	170	23	2756	335.398	-424.515	D	7.639	7.639	0	3.4	99.77	0.01	0	0	0	0.01
2001	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	172	23	2781	339.842	-425.379	D	7.71	7.639	0.071	3.4	99.7	0.29	0	0	0	0.01
2001	173	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	99.8	0.18	0	0	0	0.01
2001	174	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	100.03	0.04	0	0	0	0.02
2001	175	23	2789	340.496	-426.449	D	7.646	7.639	0.008	3.4	99.9	0.08	0	0	0	0.02
2001	176	23	2789	340.496	-426.449	D	7.672	7.639	0.033	3.4	99.94	0.06	0	0	0	0.01
2001	177	23	2758	335.862	-424.454	D	7.673	7.639	0.034	3.4	99.93	0.07	0	0	0	0.01

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	178	23	2704	329.056	-425.092	D	7.653	7.639	0.015	3.4	99.95	0.06	0	0	0	0.01
2001	179	23	2758	335.862	-424.454	D	7.644	7.639	0.005	3.4	99.83	0.15	0	0	0	0.01
2001	180	23	1415	329.185	-425.086	D	7.639	7.639	0.001	3.4	100.38	0.04	0	0	0	0.01
2001	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	182	23	2704	329.056	-425.092	D	7.692	7.639	0.053	3.4	99.73	0.25	0	0	0	0.01
2001	183	23	2758	335.862	-424.454	D	7.797	7.639	0.158	3.4	99.31	0.68	0	0	0	0.01
2001	184	23	2781	339.842	-425.379	D	7.65	7.639	0.011	3.4	99.96	0.04	0	0	0	0.01
2001	185	23	2415	339.676	-426.124	D	7.639	7.639	0	3.4	99.75	0.01	0	0	0	0.01
2001	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	187	23	2781	339.842	-425.379	D	7.664	7.639	0.025	3.4	99.93	0.06	0	0	0	0.01
2001	188	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	99.97	0.02	0	0	0	0.01
2001	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	192	23	2789	340.496	-426.449	D	7.744	7.639	0.106	3.4	99.91	0.08	0	0	0	0.01
2001	193	23	2789	340.496	-426.449	D	7.888	7.639	0.25	3.4	99.85	0.14	0	0	0	0.01
2001	194	23	2789	340.496	-426.449	D	7.836	7.639	0.197	3.4	99.66	0.33	0	0	0	0.01
2001	195	23	2588	318.452	-445.8	D	7.704	7.639	0.065	3.4	99.97	0.03	0	0	0	0.01
2001	196	23	2588	318.452	-445.8	D	7.642	7.639	0.003	3.4	100	0.01	0	0	0	0.01
2001	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	201	23	2384	338.176	-425.941	D	7.639	7.639	0	3.4	101.45	0.02	0	0	0	0.01
2001	202	23	2789	340.496	-426.449	D	7.65	7.639	0.011	3.4	99.88	0.13	0	0	0	0.01
2001	203	23	2789	340.496	-426.449	D	7.681	7.639	0.042	3.4	99.95	0.04	0	0	0	0.01
2001	204	23	2789	340.496	-426.449	D	7.676	7.639	0.037	3.4	99.94	0.05	0	0	0	0.01
2001	205	23	2588	318.452	-445.8	D	7.662	7.639	0.023	3.4	99.96	0.04	0	0	0	0
2001	206	23	2757	335.63	-424.484	D	7.654	7.639	0.015	3.4	99.91	0.09	0	0	0	0
2001	207	23	2781	339.842	-425.379	D	7.648	7.639	0.009	3.4	99.97	0.05	0	0	0	0
2001	208	23	2789	340.496	-426.449	D	7.814	7.639	0.175	3.4	99.54	0.45	0	0	0	0.01
2001	209	23	2789	340.496	-426.449	D	7.736	7.639	0.097	3.4	99.51	0.48	0	0	0	0.01
2001	210	23	2781	339.842	-425.379	D	7.649	7.639	0.01	3.4	99.9	0.1	0	0	0	0.01
2001	211	23	2781	339.842	-425.379	D	7.664	7.639	0.026	3.4	99.95	0.05	0	0	0	0.01
2001	212	23	2781	339.842	-425.379	D	7.667	7.639	0.029	3.4	99.98	0.02	0	0	0	0.01
2001	213	23	2789	340.496	-426.449	D	7.657	7.639	0.018	3.4	99.95	0.05	0	0	0	0.01
2001	214	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	100	0.02	0	0	0	0.01
2001	215	23	2780	339.614	-425.419	D	7.639	7.639	0	3.4	99.75	0.03	0	0	0	0.01
2001	216	23	2781	339.842	-425.379	D	7.689	7.639	0.05	3.4	99.93	0.05	0	0	0	0.02

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	217	23	2610	319.631	-440.865	D	7.664	7.639	0.025	3.4	99.94	0.04	0	0	0	0.01
2001	218	23	2626	320.826	-437.417	D	7.639	7.639	0	3.4	99.77	0	0	0	0	0.01
2001	219	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	223	23	2781	339.842	-425.379	D	7.929	7.639	0.291	3.4	99.67	0.32	0	0	0	0.01
2001	224	23	2789	340.496	-426.449	D	8.157	7.639	**0.518**	3.4	99.82	0.16	0	0	0	0.01
2001	225	23	2628	320.933	-436.998	D	7.868	7.639	0.229	3.4	99.89	0.1	0	0	0	0.01
2001	226	23	2588	318.452	-445.8	D	7.924	7.639	0.286	3.4	99.59	0.39	0	0	0	0.02
2001	227	23	2589	318.383	-445.593	D	7.694	7.639	0.055	3.4	99.84	0.15	0	0	0	0.01
2001	228	23	2413	339.406	-425.637	D	7.639	7.639	0	3.4	97.15	0.02	0	0	0	0.01
2001	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	232	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.94	0.02	0	0	0	0.01
2001	233	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.81	0.02	0	0	0	0.01
2001	234	23	2386	338.533	-428.423	D	7.639	7.639	0	3.4	82.1	0.01	0	0	0	0.01
2001	235	23	2787	340.091	-426.447	D	7.639	7.639	0	3.4	100.04	0.06	0	0	0	0.01
2001	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	238	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	239	23	2781	339.842	-425.379	D	7.714	7.639	0.075	3.4	99.81	0.17	0	0	0	0.01
2001	240	23	2781	339.842	-425.379	D	7.925	7.639	0.286	3.4	99.89	0.1	0	0	0	0.01
2001	241	23	2750	334.007	-424.696	D	7.85	7.639	0.211	3.4	99.9	0.09	0	0	0	0.01
2001	242	23	2758	335.862	-424.454	D	7.733	7.639	0.094	3.4	99.8	0.19	0	0	0	0.01
2001	243	23	2781	339.842	-425.379	D	7.644	7.639	0.005	3.4	99.86	0.15	0	0	0	0.01
2001	244	23	2781	339.842	-425.379	D	7.797	7.727	0.07	3.592	99.73	0.25	0	0	0	0.01
2001	245	23	2704	329.056	-425.092	D	7.809	7.731	0.078	3.6	99.58	0.41	0	0	0	0.01
2001	246	23	2704	329.056	-425.092	D	7.738	7.731	0.007	3.6	99.95	0.05	0	0	0	0.01
2001	247	23	2704	329.056	-425.092	D	7.777	7.731	0.046	3.6	99.95	0.05	0	0	0	0.01
2001	248	23	2704	329.056	-425.092	D	7.792	7.731	0.062	3.6	99.91	0.09	0	0	0	0.01
2001	249	23	2758	335.862	-424.454	D	7.74	7.731	0.009	3.6	99.95	0.04	0	0	0	0.01
2001	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	254	23	2573	322.153	-445.515	D	7.753	7.731	0.023	3.6	99.47	0.51	0	0	0	0.02
2001	255	23	2589	318.383	-445.593	D	7.733	7.731	0.002	3.6	99.84	0.14	0	0	0	0.01

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	256	23	2622	320.612	-438.254	D	7.731	7.731	0.001	3.6	99.81	0.08	0	0	0	0.01
2001	257	23	2781	339.842	-425.379	D	7.783	7.731	0.053	3.6	99.65	0.34	0	0	0	0.01
2001	258	23	2588	318.452	-445.8	D	7.749	7.731	0.018	3.6	99.93	0.06	0	0	0	0.01
2001	259	23	67	319.674	-440.741	D	7.735	7.731	0.004	3.6	99.9	0.09	0	0	0	0.01
2001	260	23	1449	329.434	-425.075	D	7.733	7.731	0.002	3.6	99.88	0.1	0	0	0	0.01
2001	261	23	2781	339.842	-425.379	D	7.731	7.731	0	3.6	99.69	0.33	0	0	0	0.01
2001	262	23	2781	339.842	-425.379	D	7.735	7.731	0.004	3.6	97.66	2.32	0	0	0	0.01
2001	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	265	23	2789	340.496	-426.449	D	7.736	7.731	0.005	3.6	99.82	0.14	0	0	0	0.03
2001	266	23	2789	340.496	-426.449	D	7.744	7.731	0.014	3.6	99.64	0.34	0	0	0	0.02
2001	267	23	2789	340.496	-426.449	D	7.772	7.731	0.041	3.6	95.61	4.35	0	0	0	0.04
2001	268	23	2789	340.496	-426.449	D	7.774	7.731	0.043	3.6	93.34	6.62	0	0	0	0.04
2001	269	23	2781	339.842	-425.379	D	7.869	7.731	0.138	3.6	98.09	1.89	0	0	0	0.02
2001	270	23	2789	340.496	-426.449	D	7.912	7.731	0.181	3.6	99.5	0.49	0	0	0	0.01
2001	271	23	2468	334.002	-434.887	D	7.863	7.731	0.132	3.6	99.75	0.24	0	0	0	0.01
2001	272	23	2588	318.452	-445.8	D	7.75	7.731	0.02	3.6	99.86	0.13	0	0	0	0.01
2001	273	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	274	23	2758	335.862	-424.454	D	7.609	7.598	0.011	3.313	99.48	0.52	0	0	0	0.01
2001	275	23	2781	339.842	-425.379	D	7.598	7.593	0.005	3.3	99.7	0.32	0	0	0	0.01
2001	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	278	23	2781	339.842	-425.379	D	7.726	7.593	0.134	3.3	94.85	5.14	0	0	0	0.01
2001	279	23	2789	340.496	-426.449	D	7.596	7.593	0.003	3.3	93.61	6.39	0	0	0	0.02
2001	280	23	2468	334.002	-434.887	D	7.602	7.593	0.01	3.3	99.42	0.54	0	0	0	0.02
2001	281	23	2789	340.496	-426.449	D	7.658	7.593	0.066	3.3	97.99	2	0	0	0	0.01
2001	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	285	23	2758	335.862	-424.454	D	7.604	7.593	0.012	3.3	93.22	6.77	0	0	0	0.02
2001	286	23	2704	329.056	-425.092	D	7.62	7.593	0.027	3.3	99.34	0.65	0	0	0	0.01
2001	287	23	2789	340.496	-426.449	D	7.629	7.593	0.037	3.3	98.34	1.65	0	0	0	0.01
2001	288	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	289	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	290	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	291	23	2789	340.496	-426.449	D	7.598	7.593	0.005	3.3	97.51	2.49	0	0	0	0.01
2001	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	293	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	294	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	295	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	297	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	298	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	300	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	301	23	2789	340.496	-426.449	D	7.623	7.593	0.031	3.3	94.27	5.71	0	0	0	0.02
2001	302	23	2684	326.713	-427.014	D	7.595	7.593	0.003	3.3	97.88	2.07	0	0	0	0.01
2001	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	307	23	2781	339.842	-425.379	D	7.627	7.546	0.081	3.2	97.22	2.77	0	0	0	0.01
2001	308	23	2628	320.933	-436.998	D	7.586	7.546	0.039	3.2	98.81	1.19	0	0	0	0.01
2001	309	23	2789	340.496	-426.449	D	7.646	7.546	0.099	3.2	97.49	2.49	0	0	0	0.02
2001	310	23	2468	334.002	-434.887	D	7.726	7.546	0.18	3.2	98.46	1.52	0	0	0	0.01
2001	311	23	2789	340.496	-426.449	D	7.643	7.546	0.097	3.2	99.36	0.63	0	0	0	0.01
2001	312	23	2789	340.496	-426.449	D	7.556	7.546	0.009	3.2	99.7	0.32	0	0	0	0.01
2001	313	23	2429	338.563	-428.651	D	7.568	7.546	0.022	3.2	84.51	15.4	0	0	0	0.09
2001	314	23	2789	340.496	-426.449	D	7.547	7.546	0	3.2	97.74	2.08	0	0	0	0.03
2001	315	23	2781	339.842	-425.379	D	7.559	7.546	0.013	3.2	97.96	2	0	0	0	0.06
2001	316	23	2588	318.452	-445.8	D	7.583	7.546	0.037	3.2	97.34	2.63	0	0	0	0.03
2001	317	23	2589	318.383	-445.593	D	7.569	7.546	0.023	3.2	98.98	1.02	0	0	0	0.02
2001	318	23	2757	335.63	-424.484	D	7.547	7.546	0	3.2	99.72	0.26	0	0	0	0.01
2001	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	323	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	326	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	95.46	4.73	0	0	0	0.03
2001	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	332	23	2789	340.496	-426.449	D	7.65	7.546	0.104	3.2	86.26	13.7	0	0	0	0.03
2001	333	23	2589	318.383	-445.593	D	7.809	7.546	0.263	3.2	88.39	11.59	0	0	0	0.03

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	334	23	2789	340.496	-426.449	D	7.97	7.546	0.424	3.2	93.9	6.08	0	0	0	0.02
2001	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	342	23	2789	340.496	-426.449	D	7.682	7.593	0.089	3.3	89.18	10.79	0	0	0	0.03
2001	343	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	87.36	12.57	0	0	0	0.05
2001	344	23	2789	340.496	-426.449	D	7.609	7.593	0.016	3.3	83.9	16.06	0	0	0	0.04
2001	345	23	2789	340.496	-426.449	D	7.605	7.593	0.012	3.3	91.4	8.58	0	0	0	0.02
2001	346	23	1241	327.999	-426.387	D	7.593	7.593	0	3.3	93.06	4.99	0	0	0	0.01
2001	347	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	348	23	2789	340.496	-426.449	D	7.597	7.593	0.005	3.3	95.26	4.75	0	0	0	0.01
2001	349	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	99.2	0.8	0	0	0	0.01
2001	350	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	96.88	3.16	0	0	0	0.01
2001	351	23	2789	340.496	-426.449	D	7.651	7.593	0.058	3.3	88.53	11.44	0	0	0	0.03
2001	352	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	96.69	2.27	0	0	0	0
2001	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	356	23	2402	338.942	-426.406	D	7.593	7.593	0	3.3	73.82	3.72	0	0	0	0.01
2001	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	359	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	365	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.518							
NORANDA									**DELTA**	**% of Modeled Extinction by Species**						
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	2	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	3	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	7	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	9	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	10	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	99.89	0.01	0	0	0.08	0.6
2001	11	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	99.39	0.03	0	0	0.03	0.76
2001	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	13	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	98.76	0.06	0	0	0.04	1.16
2001	14	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	99.07	0.03	0	0	0.01	0.69
2001	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	16	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	17	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	55.95	0.01	0	0	23.39	36.74
2001	18	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	19	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	21	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	24	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	25	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	26	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	96.01	0.21	0	0	0.05	4.28
2001	27	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	28	23	2789	340.496	-426.449	D	7.598	7.593	0.005	3.3	93.3	0.26	0	0	0.26	6.19
2001	29	23	947	326.199	-430.712	D	7.593	7.593	0	3.3	6.77	0.44	0	0	0	3.39
2001	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2001	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	37	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	38	23	2781	339.842	-425.379	D	7.453	7.453	0	3	35.65	2.29	0	0	2.08	60.67
2001	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	40	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	42	23	2588	318.452	-445.8	D	7.475	7.453	0.023	3	96.14	0.14	0	0	0.15	3.57
2001	43	23	2704	329.056	-425.092	D	7.464	7.453	0.011	3	87.81	0.72	0	0	0.04	11.44
2001	44	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	46	23	2414	339.687	-426.374	D	7.453	7.453	0	3	98.24	0.04	0	0	0.16	9.3
2001	47	23	2789	340.496	-426.449	D	7.453	7.453	0	3	89.51	0.71	0	0	0.04	10.27
2001	48	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	49	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	50	23	2789	340.496	-426.449	D	7.455	7.453	0.002	3	95.97	0.13	0	0	0.09	3.87
2001	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	52	23	1	318.65	-445.782	D	7.453	7.453	0	3	63.31	0.01	0	0	5.69	35.26
2001	53	23	1805	332.557	-433.931	D	7.453	7.453	0	3	65.48	0.01	0	0	2.99	31.59
2001	54	23	2789	340.496	-426.449	D	7.456	7.453	0.003	3	93.89	0.15	0	0	0.74	5.25
2001	55	23	2781	339.842	-425.379	D	7.459	7.453	0.006	3	96.06	0.14	0	0	0.07	3.72
2001	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	57	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	58	23	2789	340.496	-426.449	D	7.529	7.453	0.076	3	95.82	0.1	0	0	0.16	3.92
2001	59	23	2588	318.452	-445.8	D	7.523	7.453	0.071	3	96.45	0.09	0	0	0.09	3.37
2001	60	23	2571	322.646	-445.476	D	7.333	7.317	0.017	2.713	96.43	0.07	0	0	0.2	3.32
2001	61	23	2789	340.496	-426.449	D	7.323	7.311	0.013	2.7	97.77	0.04	0	0	0.03	2.18
2001	62	23	2571	322.646	-445.476	D	7.312	7.311	0.001	2.7	98.47	0.02	0	0	0.01	1.65
2001	63	23	1893	333.346	-434.896	D	7.311	7.311	0	2.7	91.58	0.18	0	0	0.01	3.9
2001	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	68	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	69	23	2468	334.002	-434.887	D	7.311	7.311	0	2.7	95.34	0.02	0	0	0.56	4.29
2001	70	23	2789	340.496	-426.449	D	7.316	7.311	0.005	2.7	95.98	0.06	0	0	0.09	3.87
2001	71	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	74	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	93.25	0.32	0	0	0.09	6.52
2001	75	23	2588	318.452	-445.8	D	7.339	7.311	0.028	2.7	97.46	0.1	0	0	0.03	2.41
2001	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	79	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	80	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	81	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	82	23	2789	340.496	-426.449	D	7.35	7.311	0.04	2.7	97.28	0.01	0	0	0.21	2.5
2001	83	23	2789	340.496	-426.449	D	7.43	7.311	0.119	2.7	97.48	0.02	0	0	0.06	2.45
2001	84	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	85	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	86	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	87	23	1163	328.176	-436.121	D	7.323	7.311	0.012	2.7	95.5	0.12	0	0	0.37	4.02
2001	88	23	2758	335.862	-424.454	D	7.312	7.311	0.001	2.7	97.27	0.06	0	0	0.13	2.76
2001	89	23	2571	322.646	-445.476	D	7.392	7.311	0.081	2.7	98.77	0.04	0	0	0.09	1.11
2001	90	23	2571	322.646	-445.476	D	7.332	7.311	0.021	2.7	98.89	0.03	0	0	0.03	1.06
2001	91	23	2395	338.435	-426.179	D	7.356	7.356	0	2.796	73.76	0.12	0	0	0.01	1.57
2001	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	94	23	2781	339.842	-425.379	D	7.484	7.358	0.125	2.8	96.63	0.09	0	0	0.15	3.13
2001	95	23	2758	335.862	-424.454	D	7.359	7.358	0.001	2.8	92.17	0.22	0	0	0.05	7.59
2001	96	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	115	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	116	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	119	23	2789	340.496	-426.449	D	7.359	7.358	0.001	2.8	98.54	0	0	0	0.16	1.52

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	120	23	2789	340.496	-426.449	D	7.361	7.358	0.003	2.8	98.74	0	0	0	0.05	1.22
2001	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	130	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	76.06	0	0	0	0.02	0.16
2001	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	133	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	138	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	139	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	140	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	141	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	148	23	2468	334.002	-434.887	D	7.639	7.639	0	3.4	99.27	0	0	0	0.05	0.54
2001	149	23	2589	318.383	-445.593	D	7.742	7.639	0.103	3.4	97.7	0.01	0	0	0.2	2.09
2001	150	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	96.76	0.01	0	0	0.13	3.11
2001	151	23	2704	329.056	-425.092	D	7.647	7.639	0.008	3.4	97.81	0.02	0	0	0.05	2.13
2001	152	23	2781	339.842	-425.379	D	7.666	7.639	0.027	3.4	99	0	0	0	0.02	0.98
2001	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	154	23	2781	339.842	-425.379	D	7.674	7.639	0.035	3.4	98.25	0.01	0	0	0.08	1.66
2001	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	158	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	159	23	2571	322.646	-445.476	D	7.649	7.639	0.01	3.4	98.88	0.01	0	0	0.08	1.05
2001	160	23	2468	334.002	-434.887	D	7.645	7.639	0.006	3.4	98.75	0	0	0	0.21	1.05
2001	161	23	2468	334.002	-434.887	D	7.758	7.639	0.12	3.4	98.37	0	0	0	0.11	1.52
2001	162	23	2571	322.646	-445.476	D	7.769	7.639	0.13	3.4	98.49	0	0	0	0.11	1.39
2001	163	23	2694	327.861	-425.964	D	7.671	7.639	0.032	3.4	98.66	0	0	0	0.14	1.2
2001	164	23	2235	335.628	-424.554	D	7.639	7.639	0	3.4	95.83	0	0	0	0.01	0.45
2001	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	168	23	2588	318.452	-445.8	D	7.641	7.639	0.002	3.4	98.7	0	0	0	0.22	1.06
2001	169	23	2588	318.452	-445.8	D	7.708	7.639	0.07	3.4	98.87	0	0	0	0.06	1.07
2001	170	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	172	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	176	23	2789	340.496	-426.449	D	7.66	7.639	0.021	3.4	99.36	0	0	0	0.09	0.55
2001	177	23	2789	340.496	-426.449	D	7.794	7.639	0.155	3.4	98.72	0	0	0	0.09	1.19
2001	178	23	1415	329.185	-425.086	D	7.784	7.639	0.145	3.4	98.92	0	0	0	0.07	1
2001	179	23	2758	335.862	-424.454	D	7.717	7.639	0.078	3.4	98.95	0.01	0	0	0.05	1
2001	180	23	2758	335.862	-424.454	D	7.646	7.639	0.007	3.4	99.09	0	0	0	0.03	0.88
2001	181	23	1041	326.867	-428.934	D	7.639	7.639	0	3.4	100.79	0	0	0	0.01	0.37
2001	182	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	89.77	0.02	0	0	0.36	10.31
2001	183	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	95.52	0.02	0	0	0.12	4.39
2001	184	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	97.16	0	0	0	0.09	2.8
2001	185	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	97.96	0	0	0	0.2	2.13
2001	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	187	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	188	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.11	0	0	0	0.03	0.36
2001	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	192	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	193	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	72.22	0.02	0	0	0.5	27.23
2001	194	23	2781	339.842	-425.379	D	7.695	7.639	0.056	3.4	97.06	0.02	0	0	0.11	2.81
2001	195	23	2588	318.452	-445.8	D	7.64	7.639	0.001	3.4	98.14	0	0	0	0.08	1.92
2001	196	23	2588	318.452	-445.8	D	7.724	7.639	0.085	3.4	97.7	0	0	0	0.26	2.04
2001	197	23	2684	326.713	-427.014	D	7.641	7.639	0.002	3.4	90.25	0	0	0	0.16	9.63

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	198	23	2401	338.661	-425.669	D	7.639	7.639	0	3.4	79.32	0.04	0	0	0.08	11.67
2001	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	202	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	98.39	0	0	0	0.05	1.41
2001	203	23	2468	334.002	-434.887	D	7.644	7.639	0.005	3.4	99.21	0	0	0	0.06	0.79
2001	204	23	2571	322.646	-445.476	D	7.743	7.639	0.104	3.4	99.17	0	0	0	0.05	0.77
2001	205	23	2588	318.452	-445.8	D	7.764	7.639	0.125	3.4	99.26	0	0	0	0.03	0.71
2001	206	23	2758	335.862	-424.454	D	7.713	7.639	0.075	3.4	99.3	0	0	0	0.02	0.68
2001	207	23	2781	339.842	-425.379	D	7.671	7.639	0.032	3.4	99.33	0	0	0	0.01	0.65
2001	208	23	2789	340.496	-426.449	D	7.669	7.639	0.03	3.4	99.21	0	0	0	0.03	0.76
2001	209	23	2789	340.496	-426.449	D	7.675	7.639	0.036	3.4	99.16	0.01	0	0	0.02	0.81
2001	210	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.44	0	0	0	0.01	0.7
2001	211	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	212	23	2789	340.496	-426.449	D	7.648	7.639	0.009	3.4	99	0	0	0	0.14	0.86
2001	213	23	2789	340.496	-426.449	D	7.697	7.639	0.058	3.4	98.96	0	0	0	0.06	0.97
2001	214	23	2758	335.862	-424.454	D	7.652	7.639	0.013	3.4	99.42	0	0	0	0.03	0.57
2001	215	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.49	0	0	0	0.03	0.56
2001	216	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.19	0	0	0	0.03	0.92
2001	217	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	96.56	0	0	0	0.07	0.48
2001	218	23	2588	318.452	-445.8	D	7.675	7.639	0.036	3.4	94.24	0.01	0	0	1.22	4.54
2001	219	23	2758	335.862	-424.454	D	8.064	7.639	0.425	3.4	98.23	0	0	0	0.25	1.52
2001	220	23	2588	318.452	-445.8	D	7.988	7.639	0.349	3.4	98.83	0	0	0	0.11	1.06
2001	221	23	2789	340.496	-426.449	D	7.668	7.639	0.029	3.4	99.09	0	0	0	0.04	0.87
2001	222	23	2416	339.665	-425.875	D	7.639	7.639	0	3.4	99.22	0	0	0	0.02	0.46
2001	223	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	224	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	98.59	0	0	0	0.15	1.33
2001	225	23	2468	334.002	-434.887	D	7.645	7.639	0.006	3.4	98.96	0.02	0	0	0.06	0.99
2001	226	23	340	322.363	-445.37	D	7.639	7.639	0	3.4	85.23	0	0	0	0.06	1.38
2001	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	232	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	233	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	235	23	2386	338.533	-428.423	D	7.639	7.639	0	3.4	100.79	0	0	0	0.01	0.28
2001	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	237	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	238	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	239	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	242	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	243	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2001	245	23	2758	335.862	-424.454	D	7.992	7.731	0.262	3.6	98.15	0.02	0	0	0.12	1.71
2001	246	23	2588	318.452	-445.8	D	7.958	7.731	0.227	3.6	98.42	0	0	0	0.06	1.51
2001	247	23	2589	318.383	-445.593	D	7.741	7.731	0.01	3.6	99.13	0	0	0	0.05	0.81
2001	248	23	2571	322.646	-445.476	D	8.053	7.731	0.323	3.6	98.08	0.01	0	0	0.22	1.69
2001	249	23	2704	329.056	-425.092	D	7.78	7.731	0.049	3.6	98.05	0	0	0	0.08	1.86
2001	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	254	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	255	23	2588	318.452	-445.8	D	7.921	7.731	0.19	3.6	97.19	0.01	0	0	0.27	2.53
2001	256	23	2588	318.452	-445.8	D	7.768	7.731	0.037	3.6	97.64	0	0	0	0.23	2.13
2001	257	23	2588	318.452	-445.8	D	7.732	7.731	0.001	3.6	95.34	0	0	0	0.44	4.11
2001	258	23	2628	320.933	-436.998	D	7.732	7.731	0.001	3.6	98.7	0	0	0	0.04	1.22
2001	259	23	2588	318.452	-445.8	D	7.785	7.731	0.055	3.6	98.7	0	0	0	0.09	1.2
2001	260	23	2571	322.646	-445.476	D	7.847	7.731	0.116	3.6	98.74	0	0	0	0.04	1.22
2001	261	23	2789	340.496	-426.449	D	7.747	7.731	0.017	3.6	98.71	0	0	0	0.03	1.27
2001	262	23	1949	333.299	-428.153	D	7.731	7.731	0	3.6	91.23	0	0	0	0.18	6.35
2001	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	52.87	0	0	0	0.05	3.41
2001	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	265	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	266	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	267	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	268	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	269	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	270	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	271	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	272	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	273	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0
2001	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	278	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	279	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	280	23	2468	334.002	-434.887	D	7.594	7.593	0.001	3.3	99.25	0	0	0	0.21	0.55
2001	281	23	2789	340.496	-426.449	D	7.624	7.593	0.032	3.3	97.96	0.03	0	0	0.11	1.91
2001	282	23	489	322.661	-435.114	D	7.593	7.593	0	3.3	61.64	0.07	0	0	0.03	11.91
2001	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	285	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	286	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	287	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	288	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	289	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	290	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	291	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	97.71	0.01	0	0	0.13	2.23
2001	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	293	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	294	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	297	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	298	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	300	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	301	23	2468	334.002	-434.887	D	7.595	7.593	0.002	3.3	96.64	0.02	0	0	0.35	2.99
2001	302	23	2789	340.496	-426.449	D	7.611	7.593	0.018	3.3	97.19	0.05	0	0	0.08	2.68
2001	303	23	2322	336.902	-425.247	D	7.593	7.593	0	3.3	93.5	0.01	0	0	0.01	1.74
2001	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	307	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	308	23	2588	318.452	-445.8	D	7.582	7.546	0.036	3.2	93.87	0.02	0	0	0.67	5.45
2001	309	23	2588	318.452	-445.8	D	7.547	7.546	0.001	3.2	82.76	0	0	0	1.21	16.16
2001	310	23	2588	318.452	-445.8	D	7.549	7.546	0.003	3.2	97.62	0.01	0	0	0.19	2.29
2001	311	23	2789	340.496	-426.449	D	7.567	7.546	0.021	3.2	97.74	0.01	0	0	0.09	2.17
2001	312	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	93.95	0.03	0	0	0.13	5.94
2001	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	316	23	2704	329.056	-425.092	D	7.597	7.546	0.051	3.2	93.12	0.03	0	0	1.05	5.81
2001	317	23	2589	318.383	-445.593	D	7.563	7.546	0.017	3.2	93.75	0.08	0	0	0.06	6.13
2001	318	23	2209	335.38	-424.564	D	7.547	7.546	0	3.2	96.78	0.02	0	0	0.01	3.15
2001	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	321	23	2571	322.646	-445.476	D	7.583	7.546	0.037	3.2	96.99	0.02	0	0	0.26	2.74
2001	322	23	2789	340.496	-426.449	D	7.805	7.546	0.259	3.2	97.88	0.03	0	0	0.07	2.02
2001	323	23	2780	339.614	-425.419	D	7.546	7.546	0	3.2	96.48	0	0	0	0.02	0.39
2001	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	332	23	2571	322.646	-445.476	D	7.547	7.546	0	3.2	97.15	0.15	0	0	0.43	2.55
2001	333	23	2571	322.646	-445.476	D	7.549	7.546	0.003	3.2	96.92	0.29	0	0	0.04	2.79
2001	334	23	2468	334.002	-434.887	D	7.546	7.546	0	3.2	97.21	0.28	0	0	0.01	2.39
2001	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	337	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	95.75	0.01	0	0	0.27	4.18
2001	338	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	84.93	0.05	0	0	0.21	12.88
2001	339	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	342	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	98.72	0.09	0	0	0.03	1.18
2001	343	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	344	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	345	23	2789	340.496	-426.449	D	7.621	7.593	0.029	3.3	95.97	0.14	0	0	0.25	3.65
2001	346	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	85.42	0.55	0	0	0.11	13.92
2001	347	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	348	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	349	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	350	23	2781	339.842	-425.379	D	7.684	7.593	0.092	3.3	93.7	0.35	0	0	0.28	5.67
2001	351	23	2789	340.496	-426.449	D	7.659	7.593	0.066	3.3	99.05	0.05	0	0	0.02	0.89
2001	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	359	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	365	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.425							
INDEPENDENCE											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	2	23	2789	340.496	-426.449	D	7.744	7.593	0.151	3.3	89.22	10.45	0	0	0	0.33
2001	3	23	2789	340.496	-426.449	D	7.625	7.593	0.033	3.3	91.91	7.86	0	0	0	0.23
2001	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	7	23	2789	340.496	-426.449	D	7.732	7.593	0.139	3.3	77.07	22.07	0	0	0	0.86
2001	8	23	2589	318.383	-445.593	D	7.656	7.593	0.063	3.3	91.31	8.43	0	0	0	0.26
2001	9	23	2789	340.496	-426.449	D	7.798	7.593	0.205	3.3	91.13	8.54	0	0	0	0.33
2001	10	23	2468	334.002	-434.887	D	7.647	7.593	0.054	3.3	90.2	9.59	0	0	0	0.22
2001	11	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	93.3	5.57	0	0	0	0.12
2001	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	16	23	2781	339.842	-425.379	D	7.648	7.593	0.056	3.3	80.9	18.26	0	0	0	0.84
2001	17	23	2588	318.452	-445.8	D	7.644	7.593	0.051	3.3	80.86	18.58	0	0	0	0.56
2001	18	23	2704	329.056	-425.092	D	7.626	7.593	0.034	3.3	91.22	8.34	0	0	0	0.43
2001	19	23	2600	318.952	-443.12	D	7.823	7.593	0.23	3.3	70.61	28.04	0	0	0	1.35
2001	20	23	2789	340.496	-426.449	D	7.655	7.593	0.062	3.3	74.68	24.37	0	0	0	0.96
2001	21	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	24	23	2684	326.713	-427.014	D	7.676	7.593	0.083	3.3	91.98	7.6	0	0	0	0.42
2001	25	23	2589	318.383	-445.593	D	7.766	7.593	0.174	3.3	83.67	15.74	0	0	0	0.6
2001	26	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	83.78	12.8	0	0	0	0.37
2001	27	23	2781	339.842	-425.379	D	7.643	7.593	0.051	3.3	75.05	24.06	0	0	0	0.89
2001	28	23	2684	326.713	-427.014	D	7.624	7.593	0.031	3.3	80.58	18.9	0	0	0	0.52
2001	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2001	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	37	23	2707	329.748	-425.023	D	7.453	7.453	0	3	97.02	4.87	0	0	0	1.09
2001	38	23	2705	329.287	-425.069	D	7.453	7.453	0	3	88.74	10.51	0	0	0	0.78
2001	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	40	23	2758	335.862	-424.454	D	7.453	7.453	0	3	90.2	9.66	0	0	0	0.17
2001	41	23	2223	335.759	-427.545	D	7.494	7.453	0.041	3	66.71	32.01	0	0	0	1.28
2001	42	23	2588	318.452	-445.8	D	7.459	7.453	0.007	3	82.22	17.24	0	0	0	0.55
2001	43	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	44	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	46	23	2781	339.842	-425.379	D	8.196	7.453	**0.744**	3	93.34	6.31	0	0	0	0.35
2001	47	23	2781	339.842	-425.379	D	7.844	7.453	0.391	3	90.81	8.9	0	0	0	0.3
2001	48	23	2589	318.383	-445.593	D	7.453	7.453	0	3	83.39	16.16	0	0	0	0.77
2001	49	23	2704	329.056	-425.092	D	7.489	7.453	0.036	3	83.13	16.39	0	0	0	0.48
2001	50	23	2155	334.883	-424.586	D	7.453	7.453	0	3	90.42	9.04	0	0	0	0.26
2001	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	52	23	2704	329.056	-425.092	D	7.474	7.453	0.021	3	94.29	5.53	0	0	0	0.2
2001	53	23	2758	335.862	-424.454	D	7.457	7.453	0.004	3	94.41	5.5	0	0	0	0.16
2001	54	23	1	318.65	-445.782	D	7.453	7.453	0	3	99.95	2.52	0	0	0	0.12
2001	55	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	57	23	2789	340.496	-426.449	D	7.459	7.453	0.006	3	95.46	4.16	0	0	0	0.41
2001	58	23	2781	339.842	-425.379	D	7.469	7.453	0.017	3	94.65	5.15	0	0	0	0.22
2001	59	23	2694	327.861	-425.964	D	7.458	7.453	0.005	3	94.1	5.83	0	0	0	0.11
2001	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0
2001	61	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	62	23	2787	340.091	-426.447	D	7.311	7.311	0	2.7	94.6	5.72	0	0	0	0.39
2001	63	23	2684	326.713	-427.014	D	7.515	7.311	0.205	2.7	91.78	7.79	0	0	0	0.43
2001	64	23	2789	340.496	-426.449	D	7.5	7.311	0.189	2.7	73.13	25.22	0	0	0	1.65
2001	65	23	2789	340.496	-426.449	D	7.321	7.311	0.01	2.7	69.64	28.57	0	0	0	1.79
2001	66	23	2758	335.862	-424.454	D	7.344	7.311	0.033	2.7	96.22	3.25	0	0	0	0.54
2001	67	23	2781	339.842	-425.379	D	7.402	7.311	0.092	2.7	91.07	8.37	0	0	0	0.56
2001	68	23	2694	327.861	-425.964	D	7.335	7.311	0.024	2.7	75.63	22.99	0	0	0	1.38
2001	69	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	70	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	71	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	74	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	75	23	2781	339.842	-425.379	D	7.312	7.311	0.001	2.7	94.1	5.58	0	0	0	0.34
2001	76	23	2684	326.713	-427.014	D	7.362	7.311	0.051	2.7	72.08	26.34	0	0	0	1.58
2001	77	23	2589	318.383	-445.593	D	7.312	7.311	0.001	2.7	88.84	10.31	0	0	0	0.87
2001	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	79	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	80	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	81	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	82	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	84	23	2684	326.713	-427.014	D	7.331	7.311	0.02	2.7	86.35	12.73	0	0	0	0.92
2001	85	23	2467	334.065	-434.651	D	7.402	7.311	0.091	2.7	85.75	13.57	0	0	0	0.68
2001	86	23	2684	326.713	-427.014	D	7.313	7.311	0.003	2.7	88.06	11.42	0	0	0	0.55
2001	87	23	200	320.784	-437.694	D	7.311	7.311	0	2.7	75.14	2.05	0	0	0	0.36
2001	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	89	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	90	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2001	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	105	23	2781	339.842	-425.379	D	7.362	7.358	0.004	2.8	99.28	0.44	0	0	0	0.3
2001	106	23	2781	339.842	-425.379	D	7.378	7.358	0.02	2.8	82.38	15.97	0	0	0	1.65
2001	107	23	2589	318.383	-445.593	D	7.393	7.358	0.035	2.8	78.22	20.4	0	0	0	1.39
2001	108	23	2628	320.933	-436.998	D	7.429	7.358	0.071	2.8	95.67	3.99	0	0	0	0.34
2001	109	23	2781	339.842	-425.379	D	7.362	7.358	0.004	2.8	99.31	0.5	0	0	0	0.2
2001	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	114	23	2781	339.842	-425.379	D	7.378	7.358	0.02	2.8	98.44	0.95	0	0	0	0.62
2001	115	23	2588	318.452	-445.8	D	7.447	7.358	0.089	2.8	98.09	1.5	0	0	0	0.41
2001	116	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	127	23	2781	339.842	-425.379	D	7.643	7.639	0.004	3.4	99.42	0.16	0	0	0	0.43
2001	128	23	2790	340.421	-426.562	D	7.843	7.639	0.204	3.4	99.12	0.58	0	0	0	0.3
2001	129	23	2781	339.842	-425.379	D	7.711	7.639	0.072	3.4	99.59	0.22	0	0	0	0.19
2001	130	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.84	0.06	0	0	0	0.13
2001	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	132	23	2588	318.452	-445.8	D	7.692	7.639	0.053	3.4	94.67	5.1	0	0	0	0.23
2001	133	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	138	23	2684	326.713	-427.014	D	7.644	7.639	0.005	3.4	98.38	1.46	0	0	0	0.16
2001	139	23	2781	339.842	-425.379	D	7.683	7.639	0.044	3.4	99.15	0.74	0	0	0	0.11

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	140	23	2386	338.533	-428.423	D	7.639	7.639	0	3.4	97.5	0.03	0	0	0	0.11
2001	141	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	148	23	2781	339.842	-425.379	D	7.645	7.639	0.007	3.4	99.75	0.04	0	0	0	0.2
2001	149	23	2789	340.496	-426.449	D	7.81	7.639	0.171	3.4	99.63	0.21	0	0	0	0.16
2001	150	23	2781	339.842	-425.379	D	7.652	7.639	0.013	3.4	99.76	0.12	0	0	0	0.13
2001	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	152	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	153	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	98.29	1.04	0	0	0	0.7
2001	154	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	100.01	0.44	0	0	0	0.19
2001	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	158	23	2781	339.842	-425.379	D	7.687	7.639	0.048	3.4	99.8	0.08	0	0	0	0.12
2001	159	23	2684	326.713	-427.014	D	7.91	7.639	0.271	3.4	99.75	0.15	0	0	0	0.1
2001	160	23	2588	318.452	-445.8	D	7.64	7.639	0.001	3.4	99.86	0.01	0	0	0	0.11
2001	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	168	23	2468	334.002	-434.887	D	7.647	7.639	0.009	3.4	99.79	0.03	0	0	0	0.18
2001	169	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	99.84	0.02	0	0	0	0.14
2001	170	23	2384	338.176	-425.941	D	7.639	7.639	0	3.4	87.36	0.01	0	0	0	0.11
2001	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	172	23	2781	339.842	-425.379	D	7.719	7.639	0.08	3.4	99.61	0.17	0	0	0	0.22
2001	173	23	2588	318.452	-445.8	D	7.722	7.639	0.083	3.4	99.26	0.38	0	0	0	0.36
2001	174	23	2789	340.496	-426.449	D	7.901	7.639	0.262	3.4	99.11	0.52	0	0	0	0.37
2001	175	23	2789	340.496	-426.449	D	7.648	7.639	0.009	3.4	99.67	0.1	0	0	0	0.24
2001	176	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.85	0.05	0	0	0	0.15
2001	177	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	99.9	0.03	0	0	0	0.12
2001	178	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	179	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	180	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	182	23	2707	329.748	-425.023	D	7.644	7.639	0.005	3.4	99.83	0.01	0	0	0	0.15
2001	183	23	2704	329.056	-425.092	D	7.664	7.639	0.026	3.4	99.72	0.17	0	0	0	0.12
2001	184	23	1415	329.185	-425.086	D	7.639	7.639	0.001	3.4	99.81	0.03	0	0	0	0.1
2001	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	186	23	2781	339.842	-425.379	D	7.65	7.639	0.011	3.4	99.8	0.01	0	0	0	0.18
2001	187	23	2781	339.842	-425.379	D	7.832	7.639	0.193	3.4	99.81	0.06	0	0	0	0.13
2001	188	23	2789	340.496	-426.449	D	7.67	7.639	0.031	3.4	99.88	0.02	0	0	0	0.1
2001	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	191	23	2781	339.842	-425.379	D	7.747	7.639	0.108	3.4	99.72	0.1	0	0	0	0.18
2001	192	23	2789	340.496	-426.449	D	7.707	7.639	0.069	3.4	99.79	0.04	0	0	0	0.18
2001	193	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	194	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	195	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	196	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	202	23	2415	339.676	-426.124	D	7.639	7.639	0	3.4	98.89	0.01	0	0	0	0.13
2001	203	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.78	0.05	0	0	0	0.12
2001	204	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	205	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	206	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	207	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.91	0.05	0	0	0	0.12
2001	208	23	2789	340.496	-426.449	D	7.668	7.639	0.029	3.4	99.56	0.35	0	0	0	0.09
2001	209	23	2789	340.496	-426.449	D	7.657	7.639	0.019	3.4	99.46	0.46	0	0	0	0.08
2001	210	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.07	0.1	0	0	0	0.08
2001	211	23	2781	339.842	-425.379	D	7.645	7.639	0.007	3.4	99.86	0.03	0	0	0	0.11
2001	212	23	2781	339.842	-425.379	D	7.653	7.639	0.014	3.4	99.89	0.02	0	0	0	0.09
2001	213	23	2781	339.842	-425.379	D	7.639	7.639	0.001	3.4	99.99	0.01	0	0	0	0.08
2001	214	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	215	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	216	23	2789	340.496	-426.449	D	7.674	7.639	0.035	3.4	99.59	0.26	0	0	0	0.15
2001	217	23	2588	318.452	-445.8	D	7.644	7.639	0.005	3.4	99.85	0.03	0	0	0	0.12

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	218	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	219	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	222	23	2684	326.713	-427.014	D	7.799	7.639	0.16	3.4	99.61	0.07	0	0	0	0.32
2001	223	23	622	323.61	-434.073	D	8.014	7.639	0.376	3.4	98.63	1.18	0	0	0	0.19
2001	224	23	2789	340.496	-426.449	D	7.648	7.639	0.01	3.4	99.67	0.22	0	0	0	0.11
2001	225	23	2789	340.496	-426.449	D	7.648	7.639	0.009	3.4	99.27	0.66	0	0	0	0.08
2001	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	231	23	2704	329.056	-425.092	D	7.668	7.639	0.03	3.4	98.9	0.56	0	0	0	0.55
2001	232	23	2781	339.842	-425.379	D	7.962	7.639	0.323	3.4	99.47	0.24	0	0	0	0.28
2001	233	23	2781	339.842	-425.379	D	7.656	7.639	0.017	3.4	99.78	0.05	0	0	0	0.18
2001	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	238	23	2781	339.842	-425.379	D	7.665	7.639	0.026	3.4	99.49	0.24	0	0	0	0.28
2001	239	23	2588	318.452	-445.8	D	7.853	7.639	0.215	3.4	99.32	0.47	0	0	0	0.2
2001	240	23	2571	322.646	-445.476	D	7.68	7.639	0.041	3.4	99.77	0.09	0	0	0	0.14
2001	241	23	2781	339.842	-425.379	D	7.652	7.639	0.013	3.4	99.73	0.08	0	0	0	0.2
2001	242	23	2781	339.842	-425.379	D	7.641	7.639	0.003	3.4	99.73	0.15	0	0	0	0.13
2001	243	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	244	23	2758	335.862	-424.454	D	7.831	7.727	0.104	3.592	99.37	0.48	0	0	0	0.15
2001	245	23	2704	329.056	-425.092	D	7.839	7.731	0.109	3.6	99.6	0.29	0	0	0	0.1
2001	246	23	2704	329.056	-425.092	D	7.756	7.731	0.026	3.6	99.87	0.04	0	0	0	0.09
2001	247	23	1415	329.185	-425.086	D	7.748	7.731	0.017	3.6	99.82	0.06	0	0	0	0.13
2001	248	23	2704	329.056	-425.092	D	7.754	7.731	0.024	3.6	99.73	0.14	0	0	0	0.13
2001	249	23	2756	335.398	-424.515	D	7.731	7.731	0	3.6	99.6	0.05	0	0	0	0.11
2001	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	252	23	2781	339.842	-425.379	D	7.899	7.731	0.168	3.6	99.15	0.5	0	0	0	0.35
2001	253	23	2790	340.421	-426.562	D	7.827	7.731	0.096	3.6	98.72	0.85	0	0	0	0.43
2001	254	23	2589	318.383	-445.593	D	7.758	7.731	0.027	3.6	99.57	0.17	0	0	0	0.27
2001	255	23	2781	339.842	-425.379	D	7.737	7.731	0.006	3.6	99.66	0.15	0	0	0	0.19
2001	256	23	2781	339.842	-425.379	D	7.771	7.731	0.04	3.6	99.69	0.17	0	0	0	0.14

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	257	23	2758	335.862	-424.454	D	7.772	7.731	0.042	3.6	99.73	0.15	0	0	0	0.12
2001	258	23	1	318.65	-445.782	D	7.731	7.731	0.001	3.6	99.9	0.01	0	0	0	0.1
2001	259	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	260	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	261	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	262	23	2781	339.842	-425.379	D	7.743	7.731	0.012	3.6	97.74	2.18	0	0	0	0.09
2001	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	264	23	2707	329.748	-425.023	D	7.736	7.731	0.006	3.6	99.64	0.08	0	0	0	0.28
2001	265	23	2628	320.933	-436.998	D	7.971	7.731	0.24	3.6	99.02	0.76	0	0	0	0.22
2001	266	23	2704	329.056	-425.092	D	7.757	7.731	0.026	3.6	99.18	0.63	0	0	0	0.18
2001	267	23	1896	333.313	-434.148	D	7.841	7.731	0.11	3.6	95.43	4.41	0	0	0	0.16
2001	268	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	269	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	270	23	2758	335.862	-424.454	D	7.748	7.731	0.018	3.6	99.53	0.26	0	0	0	0.21
2001	271	23	2781	339.842	-425.379	D	8.042	7.731	0.311	3.6	99.48	0.34	0	0	0	0.19
2001	272	23	2588	318.452	-445.8	D	7.768	7.731	0.037	3.6	99.75	0.11	0	0	0	0.14
2001	273	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0
2001	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	278	23	1415	329.185	-425.086	D	7.619	7.593	0.026	3.3	97.01	2.87	0	0	0	0.12
2001	279	23	2628	320.933	-436.998	D	7.601	7.593	0.009	3.3	94.38	5.03	0	0	0	0.6
2001	280	23	2789	340.496	-426.449	D	7.622	7.593	0.03	3.3	97.49	2.16	0	0	0	0.35
2001	281	23	2781	339.842	-425.379	D	7.598	7.593	0.005	3.3	98.65	1.1	0	0	0	0.25
2001	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	284	23	2694	327.861	-425.964	D	7.594	7.593	0.002	3.3	97.99	1.74	0	0	0	0.31
2001	285	23	2704	329.056	-425.092	D	7.671	7.593	0.079	3.3	94.83	4.95	0	0	0	0.23
2001	286	23	1415	329.185	-425.086	D	7.593	7.593	0.001	3.3	99.36	0.42	0	0	0	0.15
2001	287	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	288	23	2628	320.933	-436.998	D	7.594	7.593	0.001	3.3	90.83	8.82	0	0	0	0.28
2001	289	23	2758	335.862	-424.454	D	7.65	7.593	0.058	3.3	91.49	8.23	0	0	0	0.28
2001	290	23	2789	340.496	-426.449	D	7.673	7.593	0.08	3.3	91.01	8.37	0	0	0	0.62
2001	291	23	2781	339.842	-425.379	D	7.602	7.593	0.009	3.3	99	0.85	0	0	0	0.16
2001	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	293	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	294	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	297	23	2661	325.283	-432.004	D	7.662	7.593	0.07	3.3	97.75	1.79	0	0	0	0.46
2001	298	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	300	23	2757	335.63	-424.484	D	7.615	7.593	0.023	3.3	75.88	22.7	0	0	0	1.42
2001	301	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	302	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	307	23	2781	339.842	-425.379	D	7.602	7.546	0.056	3.2	95.91	3.89	0	0	0	0.2
2001	308	23	2684	326.713	-427.014	D	7.562	7.546	0.016	3.2	98.44	1.4	0	0	0	0.15
2001	309	23	2781	339.842	-425.379	D	8.109	7.546	**0.563**	3.2	96.09	3.66	0	0	0	0.25
2001	310	23	2588	318.452	-445.8	D	8.025	7.546	0.479	3.2	98.69	1.14	0	0	0	0.18
2001	311	23	2781	339.842	-425.379	D	7.746	7.546	0.2	3.2	98.92	0.93	0	0	0	0.15
2001	312	23	2758	335.862	-424.454	D	7.579	7.546	0.033	3.2	98.73	0.84	0	0	0	0.43
2001	313	23	2586	318.945	-445.762	D	7.547	7.546	0.001	3.2	98.91	0.82	0	0	0	0.28
2001	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	315	23	2781	339.842	-425.379	D	7.581	7.546	0.035	3.2	97.27	2.12	0	0	0	0.61
2001	316	23	2684	326.713	-427.014	D	7.586	7.546	0.04	3.2	97.61	1.98	0	0	0	0.41
2001	317	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	323	23	304	321.496	-436.914	D	7.681	7.546	0.135	3.2	82.6	16.41	0	0	0	1
2001	324	23	2789	340.496	-426.449	D	7.67	7.546	0.124	3.2	77.73	20.96	0	0	0	1.31
2001	325	23	2789	340.496	-426.449	D	7.55	7.546	0.004	3.2	88.67	10.76	0	0	0	0.63
2001	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	332	23	2789	340.496	-426.449	D	7.59	7.546	0.044	3.2	69.53	29.48	0	0	0	0.99
2001	333	23	2790	340.421	-426.562	D	7.546	7.546	0	3.2	93.07	6.66	0	0	0	0.14
2001	334	23	2588	318.452	-445.8	D	7.625	7.546	0.079	3.2	88.24	11.33	0	0	0	0.43

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	341	23	2781	339.842	-425.379	D	7.594	7.593	0.001	3.3	91.7	8.03	0	0	0	0.41
2001	342	23	2781	339.842	-425.379	D	7.701	7.593	0.108	3.3	89.4	10.01	0	0	0	0.59
2001	343	23	2684	326.713	-427.014	D	7.664	7.593	0.072	3.3	71.72	26.87	0	0	0	1.41
2001	344	23	2684	326.713	-427.014	D	7.61	7.593	0.018	3.3	87.61	11.97	0	0	0	0.42
2001	345	23	2758	335.862	-424.454	D	7.597	7.593	0.004	3.3	91.27	8.43	0	0	0	0.3
2001	346	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	347	23	2781	339.842	-425.379	D	8.59	7.593	**0.997**	3.3	93.82	5.95	0	0	0	0.23
2001	348	23	2571	322.646	-445.476	D	8.728	7.593	**1.136**	3.3	92.99	6.82	0	0	0	0.19
2001	349	23	2789	340.496	-426.449	D	7.602	7.593	0.01	3.3	97.45	2.44	0	0	0	0.13
2001	350	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	96.85	3.13	0	0	0	0.09
2001	351	23	2758	335.862	-424.454	D	7.804	7.593	0.211	3.3	85.32	14.17	0	0	0	0.51
2001	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	353	23	2619	320.387	-438.899	D	7.668	7.593	0.076	3.3	70.67	27.78	0	0	0	1.55
2001	354	23	2789	340.496	-426.449	D	7.602	7.593	0.009	3.3	81.16	17.94	0	0	0	0.91
2001	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	359	23	2789	340.496	-426.449	D	7.598	7.593	0.005	3.3	65.38	33.15	0	0	0	1.47
2001	360	23	2781	339.842	-425.379	D	7.606	7.593	0.014	3.3	61.92	36.48	0	0	0	1.6
2001	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	363	23	2781	339.842	-425.379	D	7.665	7.593	0.073	3.3	71.38	27.38	0	0	0	1.24
2001	364	23	2789	340.496	-426.449	D	7.646	7.593	0.053	3.3	68.58	30.38	0	0	0	1.04
2001	365	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	73.53	25.82	0	0	0	0.66
									1.136							
MARSHALL											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	2	23	2789	340.496	-426.449	D	7.599	7.593	0.006	3.3	83.33	16.27	0	0	0	0.41
2001	3	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	85.22	14.53	0	0	0	0.29

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	7	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	87.17	12.45	0	0	0	0.34
2001	8	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	86.8	11.05	0	0	0	0.26
2001	9	23	2781	339.842	-425.379	D	7.605	7.593	0.012	3.3	76	23.48	0	0	0	0.51
2001	10	23	2781	339.842	-425.379	D	7.6	7.593	0.007	3.3	77.63	22.05	0	0	0	0.32
2001	11	23	2780	339.614	-425.419	D	7.593	7.593	0	3.3	78	12.84	0	0	0	0.17
2001	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	16	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	17	23	2704	329.056	-425.092	D	7.741	7.593	0.149	3.3	74.69	24.76	0	0	0	0.55
2001	18	23	2628	320.933	-436.998	D	7.663	7.593	0.07	3.3	79.09	20.36	0	0	0	0.55
2001	19	23	2790	340.421	-426.562	D	7.607	7.593	0.014	3.3	85.8	13.83	0	0	0	0.37
2001	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	21	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	24	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	72.37	27.5	0	0	0	0.9
2001	25	23	1773	332.298	-433.693	D	7.628	7.593	0.036	3.3	50.02	48.69	0	0	0	1.29
2001	26	23	2684	326.713	-427.014	D	7.593	7.593	0.001	3.3	70.53	28.91	0	0	0	0.49
2001	27	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	28	23	2789	340.496	-426.449	D	7.606	7.593	0.013	3.3	71.52	28.12	0	0	0	0.36
2001	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2001	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	37	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	38	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	40	23	2704	329.056	-425.092	D	7.473	7.453	0.02	3	87.55	12.31	0	0	0	0.14
2001	41	23	2789	340.496	-426.449	D	7.454	7.453	0.001	3	68.77	30.51	0	0	0	0.8
2001	42	23	2781	339.842	-425.379	D	7.464	7.453	0.011	3	67.15	32.32	0	0	0	0.55

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	43	23	1042	326.856	-428.685	D	7.453	7.453	0	3	71.9	17.88	0	0	0	0.3
2001	44	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	45	23	2704	329.056	-425.092	D	7.458	7.453	0.005	3	86.96	12.69	0	0	0	0.35
2001	46	23	2781	339.842	-425.379	D	7.958	7.453	**0.505**	3	89.83	9.95	0	0	0	0.22
2001	47	23	2789	340.496	-426.449	D	7.546	7.453	0.094	3	90.75	9.06	0	0	0	0.19
2001	48	23	2789	340.496	-426.449	D	7.459	7.453	0.006	3	52.99	46.08	0	0	0	0.97
2001	49	23	2789	340.496	-426.449	D	7.465	7.453	0.012	3	77.63	21.9	0	0	0	0.49
2001	50	23	2789	340.496	-426.449	D	7.463	7.453	0.01	3	84.25	15.52	0	0	0	0.24
2001	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	52	23	2704	329.056	-425.092	D	7.473	7.453	0.021	3	85.49	14.25	0	0	0	0.27
2001	53	23	2706	329.518	-425.046	D	7.46	7.453	0.008	3	86.42	13.29	0	0	0	0.33
2001	54	23	2758	335.862	-424.454	D	7.459	7.453	0.007	3	78.79	20.76	0	0	0	0.47
2001	55	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	57	23	2789	340.496	-426.449	D	7.453	7.453	0	3	94.46	5.21	0	0	0	0.76
2001	58	23	2789	340.496	-426.449	D	7.467	7.453	0.014	3	87	12.61	0	0	0	0.41
2001	59	23	2611	319.699	-440.64	D	7.459	7.453	0.006	3	87.54	12.3	0	0	0	0.2
2001	60	23	2684	326.713	-427.014	D	7.318	7.317	0.002	2.713	90.29	9.63	0	0	0	0.25
2001	61	23	2781	339.842	-425.379	D	7.316	7.311	0.006	2.7	89.27	10.55	0	0	0	0.23
2001	62	23	2468	334.002	-434.887	D	7.311	7.311	0.001	2.7	95.46	4.65	0	0	0	0.19
2001	63	23	2704	329.056	-425.092	D	7.427	7.311	0.116	2.7	74.31	24.8	0	0	0	0.89
2001	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	65	23	2781	339.842	-425.379	D	7.331	7.311	0.02	2.7	72.87	25.81	0	0	0	1.33
2001	66	23	2789	340.496	-426.449	D	7.325	7.311	0.015	2.7	80.79	18.38	0	0	0	0.83
2001	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	68	23	2781	339.842	-425.379	D	7.337	7.311	0.026	2.7	58.52	39.87	0	0	0	1.62
2001	69	23	2709	330.21	-424.978	D	7.335	7.311	0.024	2.7	81.51	17.69	0	0	0	0.8
2001	70	23	2209	335.38	-424.564	D	7.311	7.311	0	2.7	94.62	5.12	0	0	0	0.49
2001	71	23	2154	334.894	-424.836	D	7.311	7.311	0	2.7	83.93	4	0	0	0	0.24
2001	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	74	23	15	319.038	-443.267	D	7.311	7.311	0	2.7	89.74	10.8	0	0	0	0.12
2001	75	23	2758	335.862	-424.454	D	7.358	7.311	0.047	2.7	89.19	10.5	0	0	0	0.32
2001	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	77	23	2694	327.861	-425.964	D	7.367	7.311	0.056	2.7	79.47	19.94	0	0	0	0.6
2001	78	23	2589	318.383	-445.593	D	7.313	7.311	0.003	2.7	91.95	7.66	0	0	0	0.49
2001	79	23	2589	318.383	-445.593	D	7.316	7.311	0.005	2.7	89.13	10.31	0	0	0	0.59
2001	80	23	2684	326.713	-427.014	D	7.343	7.311	0.032	2.7	93.17	6.03	0	0	0	0.8
2001	81	23	2694	327.861	-425.964	D	7.326	7.311	0.015	2.7	96.11	3.34	0	0	0	0.57

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	82	23	2704	329.056	-425.092	D	7.312	7.311	0.002	2.7	94.59	5.22	0	0	0	0.3
2001	83	23	2684	326.713	-427.014	D	7.356	7.311	0.045	2.7	90.07	9.59	0	0	0	0.35
2001	84	23	2789	340.496	-426.449	D	7.358	7.311	0.047	2.7	62.21	36.7	0	0	0	1.09
2001	85	23	2789	340.496	-426.449	D	7.319	7.311	0.008	2.7	56.13	42.74	0	0	0	1.17
2001	86	23	2789	340.496	-426.449	D	7.321	7.311	0.01	2.7	85.89	13.61	0	0	0	0.52
2001	87	23	2781	339.842	-425.379	D	7.322	7.311	0.012	2.7	88.71	10.92	0	0	0	0.37
2001	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	89	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	90	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2001	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	105	23	2781	339.842	-425.379	D	7.363	7.358	0.005	2.8	98.03	1.56	0	0	0	0.45
2001	106	23	2781	339.842	-425.379	D	7.374	7.358	0.016	2.8	81.46	17.06	0	0	0	1.5
2001	107	23	2571	322.646	-445.476	D	7.361	7.358	0.003	2.8	96.6	2.75	0	0	0	0.65
2001	108	23	2789	340.496	-426.449	D	7.367	7.358	0.008	2.8	87.18	12.25	0	0	0	0.58
2001	109	23	2789	340.496	-426.449	D	7.358	7.358	0	2.8	99.2	0.96	0	0	0	0.22
2001	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	114	23	2788	340.294	-426.448	D	7.358	7.358	0	2.8	101.3	1.23	0	0	0	0.77
2001	115	23	2789	340.496	-426.449	D	7.36	7.358	0.002	2.8	97.41	2.02	0	0	0	0.58
2001	116	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	128	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	99.32	0.26	0	0	0	0.44
2001	129	23	2789	340.496	-426.449	D	7.662	7.639	0.023	3.4	99.19	0.54	0	0	0	0.27
2001	130	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	99.66	0.18	0	0	0	0.19
2001	131	23	1242	327.988	-426.138	D	7.639	7.639	0	3.4	16.11	0.01	0	0	0	0.03
2001	132	23	2571	322.646	-445.476	D	7.675	7.639	0.036	3.4	90.43	8.94	0	0	0	0.63
2001	133	23	2684	326.713	-427.014	D	7.657	7.639	0.018	3.4	99.37	0.38	0	0	0	0.26
2001	134	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	99.68	0.13	0	0	0	0.19
2001	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	138	23	2694	327.861	-425.964	D	7.649	7.639	0.01	3.4	95.72	4.02	0	0	0	0.26
2001	139	23	2684	326.713	-427.014	D	7.949	7.639	0.31	3.4	97.03	2.74	0	0	0	0.23
2001	140	23	2781	339.842	-425.379	D	7.662	7.639	0.024	3.4	99.22	0.39	0	0	0	0.39
2001	141	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	148	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.29	0.1	0	0	0	0.3
2001	149	23	2789	340.496	-426.449	D	7.702	7.639	0.063	3.4	99.3	0.48	0	0	0	0.22
2001	150	23	2789	340.496	-426.449	D	7.656	7.639	0.017	3.4	99.34	0.49	0	0	0	0.17
2001	151	23	2758	335.862	-424.454	D	7.646	7.639	0.007	3.4	98.81	1.02	0	0	0	0.18
2001	152	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.5	0.43	0	0	0	0.15
2001	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	158	23	2758	335.862	-424.454	D	7.682	7.639	0.043	3.4	99.77	0.05	0	0	0	0.18
2001	159	23	2628	320.933	-436.998	D	7.895	7.639	0.256	3.4	99.6	0.23	0	0	0	0.17

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	160	23	2684	326.713	-427.014	D	7.745	7.639	0.107	3.4	99.37	0.42	0	0	0	0.21
2001	161	23	2704	329.056	-425.092	D	7.709	7.639	0.07	3.4	99.66	0.18	0	0	0	0.16
2001	162	23	2781	339.842	-425.379	D	7.644	7.639	0.006	3.4	99.88	0.06	0	0	0	0.09
2001	163	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	100.01	0.03	0	0	0	0.08
2001	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	168	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	169	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.74	0.06	0	0	0	0.22
2001	170	23	2154	334.894	-424.836	D	7.639	7.639	0	3.4	83.67	0.02	0	0	0	0.15
2001	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	172	23	2704	329.056	-425.092	D	7.728	7.639	0.089	3.4	99.2	0.62	0	0	0	0.18
2001	173	23	2789	340.496	-426.449	D	7.678	7.639	0.039	3.4	96.68	2.54	0	0	0	0.79
2001	174	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.47	0.11	0	0	0	0.44
2001	175	23	2789	340.496	-426.449	D	7.641	7.639	0.003	3.4	99.51	0.18	0	0	0	0.31
2001	176	23	2789	340.496	-426.449	D	7.642	7.639	0.004	3.4	99.74	0.11	0	0	0	0.19
2001	177	23	2684	326.713	-427.014	D	7.642	7.639	0.003	3.4	99.7	0.15	0	0	0	0.16
2001	178	23	1415	329.185	-425.086	D	7.64	7.639	0.002	3.4	99.78	0.1	0	0	0	0.14
2001	179	23	2781	339.842	-425.379	D	7.639	7.639	0.001	3.4	99.56	0.41	0	0	0	0.13
2001	180	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	99.49	0.05	0	0	0	0.12
2001	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	182	23	2694	327.861	-425.964	D	7.649	7.639	0.01	3.4	99.58	0.19	0	0	0	0.24
2001	183	23	2704	329.056	-425.092	D	7.673	7.639	0.034	3.4	98.63	1.17	0	0	0	0.2
2001	184	23	2781	339.842	-425.379	D	7.643	7.639	0.004	3.4	99.83	0.07	0	0	0	0.13
2001	185	23	2416	339.665	-425.875	D	7.639	7.639	0	3.4	99.43	0.03	0	0	0	0.12
2001	186	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.21	0.05	0	0	0	0.33
2001	187	23	2781	339.842	-425.379	D	7.676	7.639	0.037	3.4	99.65	0.13	0	0	0	0.23
2001	188	23	2789	340.496	-426.449	D	7.65	7.639	0.012	3.4	99.8	0.04	0	0	0	0.16
2001	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	191	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.43	0.04	0	0	0	0.31
2001	192	23	2781	339.842	-425.379	D	7.907	7.639	0.268	3.4	99.55	0.19	0	0	0	0.26
2001	193	23	2628	320.933	-436.998	D	7.765	7.639	0.126	3.4	99.66	0.16	0	0	0	0.19
2001	194	23	2781	339.842	-425.379	D	7.692	7.639	0.053	3.4	99.51	0.37	0	0	0	0.13
2001	195	23	2589	318.383	-445.593	D	7.651	7.639	0.012	3.4	99.88	0.03	0	0	0	0.1
2001	196	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	99.88	0.02	0	0	0	0.11
2001	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	202	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.8	0.02	0	0	0	0.17
2001	203	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.62	0.32	0	0	0	0.15
2001	204	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	205	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	206	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	207	23	2758	335.862	-424.454	D	7.648	7.639	0.009	3.4	99.76	0.1	0	0	0	0.15
2001	208	23	2781	339.842	-425.379	D	7.664	7.639	0.025	3.4	99.18	0.7	0	0	0	0.13
2001	209	23	2781	339.842	-425.379	D	7.647	7.639	0.008	3.4	99.22	0.67	0	0	0	0.12
2001	210	23	2781	339.842	-425.379	D	7.648	7.639	0.009	3.4	99.65	0.24	0	0	0	0.12
2001	211	23	2789	340.496	-426.449	D	7.658	7.639	0.019	3.4	99.8	0.09	0	0	0	0.11
2001	212	23	2781	339.842	-425.379	D	7.659	7.639	0.02	3.4	99.85	0.04	0	0	0	0.12
2001	213	23	2781	339.842	-425.379	D	7.641	7.639	0.003	3.4	99.9	0.03	0	0	0	0.11
2001	214	23	2417	339.654	-425.626	D	7.639	7.639	0.001	3.4	99.91	0.04	0	0	0	0.1
2001	215	23	2405	338.909	-425.659	D	7.639	7.639	0	3.4	99.17	0.03	0	0	0	0.09
2001	216	23	2758	335.862	-424.454	D	7.901	7.639	0.262	3.4	99.64	0.11	0	0	0	0.26
2001	217	23	2588	318.452	-445.8	D	7.71	7.639	0.071	3.4	99.75	0.05	0	0	0	0.2
2001	218	23	2589	318.383	-445.593	D	7.64	7.639	0.001	3.4	99.75	0.01	0	0	0	0.18
2001	219	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	222	23	2781	339.842	-425.379	D	7.675	7.639	0.036	3.4	99.52	0.13	0	0	0	0.35
2001	223	23	2781	339.842	-425.379	D	7.934	7.639	0.295	3.4	97.32	2.46	0	0	0	0.23
2001	224	23	2589	318.383	-445.593	D	7.968	7.639	0.329	3.4	99.45	0.26	0	0	0	0.29
2001	225	23	2589	318.383	-445.593	D	7.728	7.639	0.089	3.4	99.52	0.24	0	0	0	0.24
2001	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	232	23	2781	339.842	-425.379	D	7.646	7.639	0.007	3.4	99.01	0.65	0	0	0	0.34
2001	233	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.71	0.07	0	0	0	0.25
2001	234	23	2418	339.946	-426.612	D	7.639	7.639	0	3.4	103.87	0.02	0	0	0	0.21
2001	235	23	2323	337.303	-428.727	D	7.639	7.639	0	3.4	99.73	0.05	0	0	0	0.17
2001	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	238	23	2781	339.842	-425.379	D	7.647	7.639	0.008	3.4	99.29	0.24	0	0	0	0.47
2001	239	23	2757	335.63	-424.484	D	7.848	7.639	0.209	3.4	99.2	0.51	0	0	0	0.28
2001	240	23	2628	320.933	-436.998	D	7.902	7.639	0.263	3.4	99.56	0.24	0	0	0	0.2
2001	241	23	2588	318.452	-445.8	D	7.772	7.639	0.133	3.4	99.58	0.25	0	0	0	0.17
2001	242	23	2781	339.842	-425.379	D	7.696	7.639	0.058	3.4	99.17	0.69	0	0	0	0.14
2001	243	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	99.58	0.31	0	0	0	0.13
2001	244	23	2708	329.979	-425	D	7.746	7.727	0.019	3.592	98.91	0.85	0	0	0	0.23
2001	245	23	2704	329.056	-425.092	D	7.752	7.731	0.022	3.6	99.15	0.7	0	0	0	0.16
2001	246	23	2704	329.056	-425.092	D	7.738	7.731	0.007	3.6	99.78	0.09	0	0	0	0.13
2001	247	23	2704	329.056	-425.092	D	7.752	7.731	0.021	3.6	99.77	0.1	0	0	0	0.13
2001	248	23	2704	329.056	-425.092	D	7.754	7.731	0.023	3.6	99.7	0.18	0	0	0	0.13
2001	249	23	2758	335.862	-424.454	D	7.735	7.731	0.005	3.6	99.73	0.11	0	0	0	0.13
2001	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	253	23	2789	340.496	-426.449	D	7.734	7.731	0.003	3.6	99.35	0.21	0	0	0	0.46
2001	254	23	2588	318.452	-445.8	D	7.746	7.731	0.015	3.6	98.95	0.72	0	0	0	0.34
2001	255	23	2781	339.842	-425.379	D	7.742	7.731	0.012	3.6	99.2	0.53	0	0	0	0.26
2001	256	23	2781	339.842	-425.379	D	7.771	7.731	0.041	3.6	99.51	0.29	0	0	0	0.2
2001	257	23	2758	335.862	-424.454	D	7.788	7.731	0.057	3.6	99.43	0.38	0	0	0	0.19
2001	258	23	2589	318.383	-445.593	D	7.745	7.731	0.014	3.6	99.69	0.14	0	0	0	0.16
2001	259	23	2694	327.861	-425.964	D	7.731	7.731	0	3.6	99.29	0.49	0	0	0	0.15
2001	260	23	726	324.322	-433.293	D	7.731	7.731	0	3.6	81.07	0.31	0	0	0	0.11
2001	261	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	262	23	2704	329.056	-425.092	D	7.87	7.731	0.139	3.6	93.48	6.33	0	0	0	0.19
2001	263	23	2789	340.496	-426.449	D	7.731	7.731	0	3.6	98.92	0.1	0	0	0	0.15
2001	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	265	23	2789	340.496	-426.449	D	7.793	7.731	0.062	3.6	97.81	1.62	0	0	0	0.57
2001	266	23	2789	340.496	-426.449	D	7.786	7.731	0.056	3.6	98.88	0.86	0	0	0	0.27
2001	267	23	2789	340.496	-426.449	D	7.778	7.731	0.048	3.6	62.56	36.44	0	0	0	0.99
2001	268	23	2600	318.952	-443.12	D	7.732	7.731	0.001	3.6	96.61	2.84	0	0	0	0.53
2001	269	23	2704	329.056	-425.092	D	7.761	7.731	0.031	3.6	94.2	5.41	0	0	0	0.39
2001	270	23	2781	339.842	-425.379	D	7.869	7.731	0.138	3.6	98.48	1.25	0	0	0	0.27
2001	271	23	2789	340.496	-426.449	D	7.979	7.731	0.249	3.6	99.05	0.7	0	0	0	0.26
2001	272	23	2588	318.452	-445.8	D	7.777	7.731	0.046	3.6	99.42	0.37	0	0	0	0.21
2001	273	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	274	23	2758	335.862	-424.454	D	7.599	7.598	0.001	3.313	99.09	0.61	0	0	0	0.26
2001	275	23	2417	339.654	-425.626	D	7.593	7.593	0	3.3	98.92	0.72	0	0	0	0.16
2001	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	278	23	2684	326.713	-427.014	D	7.685	7.593	0.092	3.3	87.94	11.81	0	0	0	0.25
2001	279	23	2694	327.861	-425.964	D	7.646	7.593	0.053	3.3	86.28	13.34	0	0	0	0.39
2001	280	23	2789	340.496	-426.449	D	7.601	7.593	0.008	3.3	97.43	2.1	0	0	0	0.47
2001	281	23	2781	339.842	-425.379	D	7.603	7.593	0.01	3.3	96.42	3.25	0	0	0	0.34
2001	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	284	23	2704	329.056	-425.092	D	7.593	7.593	0.001	3.3	90.53	8.98	0	0	0	0.43
2001	285	23	2758	335.862	-424.454	D	7.654	7.593	0.061	3.3	86.52	13.14	0	0	0	0.34
2001	286	23	2704	329.056	-425.092	D	7.602	7.593	0.009	3.3	97.35	2.41	0	0	0	0.23
2001	287	23	2789	340.496	-426.449	D	7.607	7.593	0.014	3.3	94.08	5.75	0	0	0	0.17
2001	288	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	289	23	2781	339.842	-425.379	D	7.643	7.593	0.05	3.3	85.93	13.86	0	0	0	0.2
2001	290	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	97.15	2.32	0	0	0	0.42
2001	291	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	96.1	3.71	0	0	0	0.2
2001	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	293	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	294	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	297	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	298	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	300	23	2782	339.852	-425.592	D	7.625	7.593	0.033	3.3	81.08	17.92	0	0	0	0.99
2001	301	23	2781	339.842	-425.379	D	7.654	7.593	0.061	3.3	85.93	13.52	0	0	0	0.55
2001	302	23	1041	326.867	-428.934	D	7.593	7.593	0	3.3	11.94	0.19	0	0	0	0.02
2001	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	307	23	2781	339.842	-425.379	D	7.569	7.546	0.023	3.2	86.01	13.67	0	0	0	0.33
2001	308	23	2758	335.862	-424.454	D	7.557	7.546	0.011	3.2	97.57	2.19	0	0	0	0.26
2001	309	23	2789	340.496	-426.449	D	7.789	7.546	0.243	3.2	95.7	4	0	0	0	0.31
2001	310	23	2429	338.563	-428.651	D	7.823	7.546	0.277	3.2	97.45	2.32	0	0	0	0.23
2001	311	23	2789	340.496	-426.449	D	7.624	7.546	0.078	3.2	98.62	1.18	0	0	0	0.2
2001	312	23	2781	339.842	-425.379	D	7.55	7.546	0.004	3.2	98.57	1.21	0	0	0	0.3
2001	313	23	2589	318.383	-445.593	D	7.606	7.546	0.06	3.2	81.22	18.03	0	0	0	0.76
2001	314	23	2789	340.496	-426.449	D	7.558	7.546	0.012	3.2	94.96	4.41	0	0	0	0.63
2001	315	23	2781	339.842	-425.379	D	7.564	7.546	0.018	3.2	94.49	4.61	0	0	0	0.91

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	316	23	2684	326.713	-427.014	D	7.57	7.546	0.023	3.2	94.64	4.77	0	0	0	0.6
2001	317	23	1242	327.988	-426.138	D	7.546	7.546	0	3.2	97.49	1.01	0	0	0	0.4
2001	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	323	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	325	23	2414	339.687	-426.374	D	7.546	7.546	0	3.2	89.11	4.71	0	0	0	0.66
2001	326	23	2386	338.533	-428.423	D	7.546	7.546	0	3.2	84.03	4.83	0	0	0	0.57
2001	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	332	23	2711	330.671	-424.932	D	7.639	7.546	0.092	3.2	67.08	32.21	0	0	0	0.71
2001	333	23	2589	318.383	-445.593	D	7.568	7.546	0.022	3.2	76.07	23.44	0	0	0	0.5
2001	334	23	2628	320.933	-436.998	D	7.824	7.546	0.277	3.2	81.94	17.63	0	0	0	0.43
2001	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	342	23	2781	339.842	-425.379	D	7.662	7.593	0.069	3.3	79.64	19.77	0	0	0	0.59
2001	343	23	2789	340.496	-426.449	D	7.597	7.593	0.005	3.3	68.34	30.51	0	0	0	1.15
2001	344	23	2789	340.496	-426.449	D	7.615	7.593	0.023	3.3	71.98	27.39	0	0	0	0.63
2001	345	23	2789	340.496	-426.449	D	7.599	7.593	0.006	3.3	81.39	18.23	0	0	0	0.41
2001	346	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	347	23	2781	339.842	-425.379	D	7.608	7.593	0.016	3.3	92.74	7.01	0	0	0	0.25
2001	348	23	2789	340.496	-426.449	D	7.705	7.593	0.112	3.3	90.55	9.27	0	0	0	0.18
2001	349	23	2789	340.496	-426.449	D	7.596	7.593	0.003	3.3	96.7	3.18	0	0	0	0.18
2001	350	23	2781	339.842	-425.379	D	7.599	7.593	0.007	3.3	93.81	6.07	0	0	0	0.13
2001	351	23	2789	340.496	-426.449	D	7.64	7.593	0.047	3.3	76.41	23.04	0	0	0	0.55
2001	352	23	2323	337.303	-428.727	D	7.593	7.593	0	3.3	92.76	3.73	0	0	0	0.05
2001	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	359	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	365	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.505							
COLUMBIA											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	2	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	72	28.12	0	0	0	0.01
2001	3	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	7	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	9	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	54.72	45.26	0	0	0	0.02
2001	10	23	2789	340.496	-426.449	D	7.596	7.593	0.004	3.3	53.32	46.71	0	0	0	0.01
2001	11	23	2401	338.661	-425.669	D	7.593	7.593	0	3.3	62.19	36.64	0	0	0	0.01
2001	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	16	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	17	23	2704	329.056	-425.092	D	7.704	7.593	0.111	3.3	62.81	37.17	0	0	0	0.02
2001	18	23	2628	320.933	-436.998	D	7.707	7.593	0.115	3.3	63.37	36.62	0	0	0	0.02
2001	19	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	76.45	23.52	0	0	0	0.01
2001	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	21	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	24	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	25	23	2789	340.496	-426.449	D	7.606	7.593	0.013	3.3	40.48	59.5	0	0	0	0.03
2001	26	23	2704	329.056	-425.092	D	7.595	7.593	0.003	3.3	51.44	48.57	0	0	0	0.01
2001	27	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	28	23	2789	340.496	-426.449	D	7.596	7.593	0.003	3.3	58.91	41.09	0	0	0	0.01
2001	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2001	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	37	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	38	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	40	23	2102	334.398	-424.857	D	7.453	7.453	0	3	73.75	28.09	0	0	0	0.01
2001	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	42	23	2781	339.842	-425.379	D	7.46	7.453	0.008	3	54.74	45.26	0	0	0	0.01
2001	43	23	1414	329.196	-425.335	D	7.453	7.453	0	3	65.42	34.01	0	0	0	0.01
2001	44	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	45	23	2704	329.056	-425.092	D	7.453	7.453	0.001	3	84.1	15.92	0	0	0	0.01
2001	46	23	2789	340.496	-426.449	D	7.563	7.453	0.11	3	82.65	17.35	0	0	0	0.01
2001	47	23	2789	340.496	-426.449	D	7.46	7.453	0.008	3	84.25	15.79	0	0	0	0.01
2001	48	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	49	23	2789	340.496	-426.449	D	7.453	7.453	0	3	76.2	24.02	0	0	0	0.02
2001	50	23	2789	340.496	-426.449	D	7.453	7.453	0	3	78.06	22.34	0	0	0	0.01
2001	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	52	23	340	322.363	-445.37	D	7.455	7.453	0.002	3	75.07	25.01	0	0	0	0.01
2001	53	23	2155	334.883	-424.586	D	7.454	7.453	0.002	3	71.99	28.1	0	0	0	0.01
2001	54	23	2781	339.842	-425.379	D	7.455	7.453	0.002	3	60.2	39.86	0	0	0	0.01
2001	55	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	57	23	2788	340.294	-426.448	D	7.453	7.453	0	3	90.14	10.27	0	0	0	0.03
2001	58	23	2789	340.496	-426.449	D	7.459	7.453	0.006	3	76.17	23.86	0	0	0	0.02
2001	59	23	2684	326.713	-427.014	D	7.455	7.453	0.003	3	75.43	24.62	0	0	0	0.01
2001	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0
2001	61	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	62	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	63	23	2628	320.933	-436.998	D	7.413	7.311	0.102	2.7	66.2	33.78	0	0	0	0.02
2001	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	68	23	2789	340.496	-426.449	D	7.313	7.311	0.002	2.7	62.18	37.91	0	0	0	0.04
2001	69	23	2789	340.496	-426.449	D	7.314	7.311	0.003	2.7	77.4	22.64	0	0	0	0.02
2001	70	23	2781	339.842	-425.379	D	7.311	7.311	0	2.7	87.76	12.09	0	0	0	0.02
2001	71	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	74	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	75	23	2758	335.862	-424.454	D	7.314	7.311	0.004	2.7	81.05	18.95	0	0	0	0.01
2001	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	77	23	2758	335.862	-424.454	D	7.334	7.311	0.023	2.7	68.26	31.72	0	0	0	0.02
2001	78	23	2589	318.383	-445.593	D	7.312	7.311	0.001	2.7	83.46	16.54	0	0	0	0.02
2001	79	23	2589	318.383	-445.593	D	7.32	7.311	0.01	2.7	78.37	21.62	0	0	0	0.03
2001	80	23	2583	319.686	-445.705	D	7.359	7.311	0.048	2.7	75.82	24.16	0	0	0	0.03
2001	81	23	2789	340.496	-426.449	D	7.328	7.311	0.017	2.7	91.86	8.13	0	0	0	0.02
2001	82	23	2789	340.496	-426.449	D	7.32	7.311	0.009	2.7	90.67	9.34	0	0	0	0.01
2001	83	23	2684	326.713	-427.014	D	7.344	7.311	0.033	2.7	64.76	35.21	0	0	0	0.03
2001	84	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	85	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	86	23	1951	333.842	-434.874	D	7.311	7.311	0	2.7	95.04	7.03	0	0	0	0.02
2001	87	23	2789	340.496	-426.449	D	7.315	7.311	0.004	2.7	80.55	19.47	0	0	0	0.01
2001	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	89	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	90	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2001	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	105	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	101.81	2.52	0	0	0	0.02
2001	106	23	2789	340.496	-426.449	D	7.358	7.358	0	2.8	88.32	14.76	0	0	0	0.06
2001	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	115	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	116	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2001	122	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	129	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	98.76	1.28	0	0	0	0.01
2001	130	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	99.39	0.31	0	0	0	0.01
2001	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	132	23	2694	327.861	-425.964	D	7.66	7.639	0.022	3.4	97.7	2.28	0	0	0	0.03
2001	133	23	2628	320.933	-436.998	D	7.663	7.639	0.024	3.4	98.71	1.28	0	0	0	0.02
2001	134	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.75	0.28	0	0	0	0.01
2001	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	138	23	2704	329.056	-425.092	D	7.64	7.639	0.001	3.4	87.29	12.74	0	0	0	0.01
2001	139	23	2781	339.842	-425.379	D	7.651	7.639	0.012	3.4	93.19	6.8	0	0	0	0.01
2001	140	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.42	0.63	0	0	0	0.01

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	141	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	149	23	2789	340.496	-426.449	D	7.653	7.639	0.014	3.4	98.86	1.13	0	0	0	0.01
2001	150	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.57	0.44	0	0	0	0.01
2001	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	152	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	158	23	2781	339.842	-425.379	D	7.652	7.639	0.013	3.4	99.86	0.13	0	0	0	0.01
2001	159	23	2684	326.713	-427.014	D	7.764	7.639	0.125	3.4	98.76	1.23	0	0	0	0.01
2001	160	23	2694	327.861	-425.964	D	7.684	7.639	0.045	3.4	99.22	0.78	0	0	0	0.01
2001	161	23	2758	335.862	-424.454	D	7.657	7.639	0.018	3.4	99.62	0.38	0	0	0	0.01
2001	162	23	2385	338.165	-425.691	D	7.639	7.639	0	3.4	97.14	0.06	0	0	0	0.01
2001	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	168	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	169	23	2789	340.496	-426.449	D	7.639	7.639	0.001	3.4	99.79	0.12	0	0	0	0.01
2001	170	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	172	23	2781	339.842	-425.379	D	7.655	7.639	0.016	3.4	99.02	0.97	0	0	0	0.01
2001	173	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.23	0.75	0	0	0	0.01
2001	174	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	98.77	0.17	0	0	0	0.02
2001	175	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.73	0.34	0	0	0	0.01
2001	176	23	2789	340.496	-426.449	D	7.65	7.639	0.011	3.4	99.74	0.26	0	0	0	0.01
2001	177	23	2781	339.842	-425.379	D	7.649	7.639	0.011	3.4	99.72	0.3	0	0	0	0.01
2001	178	23	2758	335.862	-424.454	D	7.643	7.639	0.004	3.4	99.75	0.25	0	0	0	0.01
2001	179	23	2781	339.842	-425.379	D	7.64	7.639	0.002	3.4	99.35	0.7	0	0	0	0.01

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	180	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	99.58	0.06	0	0	0	0.01
2001	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	182	23	2704	329.056	-425.092	D	7.658	7.639	0.019	3.4	99.15	0.84	0	0	0	0.01
2001	183	23	2758	335.862	-424.454	D	7.702	7.639	0.063	3.4	97.33	2.66	0	0	0	0.01
2001	184	23	2781	339.842	-425.379	D	7.643	7.639	0.004	3.4	99.83	0.17	0	0	0	0.01
2001	185	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	95.44	0.05	0	0	0	0
2001	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	187	23	2789	340.496	-426.449	D	7.647	7.639	0.008	3.4	99.74	0.26	0	0	0	0.01
2001	188	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.85	0.1	0	0	0	0.01
2001	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	192	23	2789	340.496	-426.449	D	7.679	7.639	0.04	3.4	99.68	0.31	0	0	0	0.01
2001	193	23	2789	340.496	-426.449	D	7.731	7.639	0.092	3.4	99.41	0.58	0	0	0	0.01
2001	194	23	2789	340.496	-426.449	D	7.706	7.639	0.067	3.4	98.54	1.46	0	0	0	0
2001	195	23	2588	318.452	-445.8	D	7.641	7.639	0.002	3.4	99.94	0.06	0	0	0	0
2001	196	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	201	23	2780	339.614	-425.419	D	7.639	7.639	0	3.4	70.67	0.05	0	0	0	0
2001	202	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	99.48	0.52	0	0	0	0
2001	203	23	2789	340.496	-426.449	D	7.653	7.639	0.014	3.4	99.8	0.21	0	0	0	0
2001	204	23	2789	340.496	-426.449	D	7.646	7.639	0.007	3.4	99.68	0.33	0	0	0	0
2001	205	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.96	0.12	0	0	0	0
2001	206	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	100.11	0.11	0	0	0	0
2001	207	23	2780	339.614	-425.419	D	7.639	7.639	0	3.4	99.37	0.24	0	0	0	0.01
2001	208	23	2781	339.842	-425.379	D	7.696	7.639	0.058	3.4	97.99	2.01	0	0	0	0
2001	209	23	2789	340.496	-426.449	D	7.668	7.639	0.03	3.4	97.84	2.17	0	0	0	0
2001	210	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.93	0.59	0	0	0	0
2001	211	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	99.87	0.19	0	0	0	0
2001	212	23	2781	339.842	-425.379	D	7.647	7.639	0.008	3.4	99.93	0.08	0	0	0	0
2001	213	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.87	0.11	0	0	0	0
2001	214	23	2040	333.912	-425.128	D	7.639	7.639	0	3.4	99.34	0.05	0	0	0	0
2001	215	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	216	23	2789	340.496	-426.449	D	7.656	7.639	0.017	3.4	99.77	0.22	0	0	0	0.01
2001	217	23	2589	318.383	-445.593	D	7.646	7.639	0.008	3.4	99.85	0.15	0	0	0	0.01
2001	218	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	219	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	223	23	2781	339.842	-425.379	D	7.749	7.639	0.11	3.4	98.72	1.27	0	0	0	0.01
2001	224	23	2789	340.496	-426.449	D	7.833	7.639	0.194	3.4	99.34	0.65	0	0	0	0.01
2001	225	23	2684	326.713	-427.014	D	7.726	7.639	0.087	3.4	99.62	0.37	0	0	0	0.01
2001	226	23	2583	319.686	-445.705	D	7.753	7.639	0.114	3.4	98.4	1.58	0	0	0	0.02
2001	227	23	2589	318.383	-445.593	D	7.651	7.639	0.012	3.4	99.25	0.75	0	0	0	0.01
2001	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	232	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.78	0.09	0	0	0	0.01
2001	233	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	100.17	0.1	0	0	0	0.01
2001	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	238	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	239	23	2781	339.842	-425.379	D	7.666	7.639	0.027	3.4	99.27	0.72	0	0	0	0.01
2001	240	23	2781	339.842	-425.379	D	7.747	7.639	0.108	3.4	99.57	0.43	0	0	0	0.01
2001	241	23	2749	333.775	-424.726	D	7.719	7.639	0.081	3.4	99.63	0.37	0	0	0	0.01
2001	242	23	2758	335.862	-424.454	D	7.673	7.639	0.034	3.4	99.24	0.75	0	0	0	0.01
2001	243	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.4	0.63	0	0	0	0
2001	244	23	2781	339.842	-425.379	D	7.753	7.727	0.026	3.592	99.01	0.98	0	0	0	0.01
2001	245	23	2704	329.056	-425.092	D	7.758	7.731	0.028	3.6	98.25	1.75	0	0	0	0.01
2001	246	23	2704	329.056	-425.092	D	7.732	7.731	0.002	3.6	99.79	0.19	0	0	0	0.01
2001	247	23	2754	334.935	-424.575	D	7.732	7.731	0.001	3.6	99.82	0.14	0	0	0	0.01
2001	248	23	2756	335.398	-424.515	D	7.731	7.731	0.001	3.6	99.19	0.8	0	0	0	0.01
2001	249	23	2781	339.842	-425.379	D	7.731	7.731	0	3.6	99.77	0.33	0	0	0	0.01
2001	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	254	23	2588	318.452	-445.8	D	7.741	7.731	0.01	3.6	98.12	1.87	0	0	0	0.01
2001	255	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	256	23	2780	339.614	-425.419	D	7.731	7.731	0	3.6	100.1	0.06	0	0	0	0.01
2001	257	23	2781	339.842	-425.379	D	7.754	7.731	0.023	3.6	98.67	1.33	0	0	0	0.01

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	258	23	2588	318.452	-445.8	D	7.733	7.731	0.002	3.6	99.88	0.09	0	0	0	0.01
2001	259	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	260	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	261	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	262	23	2781	339.842	-425.379	D	7.732	7.731	0.002	3.6	91.04	8.93	0	0	0	0
2001	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	265	23	2789	340.496	-426.449	D	7.733	7.731	0.002	3.6	99.46	0.54	0	0	0	0.02
2001	266	23	2789	340.496	-426.449	D	7.735	7.731	0.004	3.6	98.65	1.34	0	0	0	0.01
2001	267	23	2789	340.496	-426.449	D	7.746	7.731	0.015	3.6	85.63	14.34	0	0	0	0.03
2001	268	23	2789	340.496	-426.449	D	7.75	7.731	0.019	3.6	76.64	23.34	0	0	0	0.02
2001	269	23	2781	339.842	-425.379	D	7.788	7.731	0.057	3.6	92.49	7.49	0	0	0	0.01
2001	270	23	2789	340.496	-426.449	D	7.795	7.731	0.064	3.6	98	1.99	0	0	0	0.01
2001	271	23	2789	340.496	-426.449	D	7.77	7.731	0.039	3.6	98.91	1.07	0	0	0	0.01
2001	272	23	2588	318.452	-445.8	D	7.736	7.731	0.005	3.6	99.42	0.57	0	0	0	0.01
2001	273	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	274	23	2781	339.842	-425.379	D	7.599	7.598	0	3.313	96.29	3.77	0	0	0	0.01
2001	275	23	2417	339.654	-425.626	D	7.593	7.593	0	3.3	97.67	0.86	0	0	0	0.01
2001	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	278	23	2781	339.842	-425.379	D	7.65	7.593	0.057	3.3	82.4	17.59	0	0	0	0.01
2001	279	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	74.56	25.48	0	0	0	0.01
2001	280	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	97.85	2.11	0	0	0	0.01
2001	281	23	2789	340.496	-426.449	D	7.599	7.593	0.006	3.3	94.11	5.89	0	0	0	0.01
2001	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	285	23	2758	335.862	-424.454	D	7.597	7.593	0.004	3.3	77.23	22.79	0	0	0	0.01
2001	286	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	287	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	288	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	289	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	290	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	291	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	90.96	9.12	0	0	0	0.01
2001	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	293	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	294	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	297	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	298	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	300	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	301	23	2789	340.496	-426.449	D	7.604	7.593	0.011	3.3	78.69	21.31	0	0	0	0.01
2001	302	23	2757	335.63	-424.484	D	7.593	7.593	0	3.3	93.38	3.2	0	0	0	0
2001	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	307	23	2781	339.842	-425.379	D	7.577	7.546	0.031	3.2	88.98	11.02	0	0	0	0.01
2001	308	23	2684	326.713	-427.014	D	7.559	7.546	0.012	3.2	95.89	4.11	0	0	0	0.01
2001	309	23	2789	340.496	-426.449	D	7.584	7.546	0.038	3.2	90.4	9.59	0	0	0	0.01
2001	310	23	2789	340.496	-426.449	D	7.609	7.546	0.063	3.2	93.15	6.85	0	0	0	0.01
2001	311	23	2789	340.496	-426.449	D	7.565	7.546	0.019	3.2	96.95	3.06	0	0	0	0.01
2001	312	23	2781	339.842	-425.379	D	7.546	7.546	0	3.2	99.14	1.05	0	0	0	0.01
2001	313	23	2789	340.496	-426.449	D	7.558	7.546	0.012	3.2	57.14	42.82	0	0	0	0.05
2001	314	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	92.3	7.97	0	0	0	0.02
2001	315	23	2789	340.496	-426.449	D	7.551	7.546	0.004	3.2	92.65	7.34	0	0	0	0.04
2001	316	23	2640	322.263	-435.121	D	7.555	7.546	0.009	3.2	87.75	12.23	0	0	0	0.03
2001	317	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	323	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	332	23	2789	340.496	-426.449	D	7.6	7.546	0.054	3.2	61.22	38.77	0	0	0	0.02
2001	333	23	2589	318.383	-445.593	D	7.662	7.546	0.116	3.2	65.14	34.85	0	0	0	0.02
2001	334	23	2789	340.496	-426.449	D	7.733	7.546	0.187	3.2	79.03	20.96	0	0	0	0.01
2001	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	342	23	2789	340.496	-426.449	D	7.636	7.593	0.043	3.3	65.96	34.02	0	0	0	0.02
2001	343	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	61.43	38.15	0	0	0	0.03
2001	344	23	2789	340.496	-426.449	D	7.6	7.593	0.007	3.3	56.01	44	0	0	0	0.02
2001	345	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	71.34	28.69	0	0	0	0.01
2001	346	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	347	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	348	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	83.35	16.72	0	0	0	0
2001	349	23	2788	340.294	-426.448	D	7.593	7.593	0	3.3	96.68	3.3	0	0	0	0.01
2001	350	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	88.29	11.65	0	0	0	0
2001	351	23	2789	340.496	-426.449	D	7.618	7.593	0.026	3.3	64.96	35.04	0	0	0	0.01
2001	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	359	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	365	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.194							
HOLCIM									**DELTA**		**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2001	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	2	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	3	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	7	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	9	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	10	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	38.41	61.44	0	0	0	0.16
2001	11	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	16	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	17	23	2789	340.496	-426.449	D	7.641	7.593	0.048	3.3	59.02	40.78	0	0	0	0.2
2001	18	23	2789	340.496	-426.449	D	8.576	7.593	**0.984**	3.3	42.53	57.27	0	0	0	0.2
2001	19	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	54.16	45.67	0	0	0	0.19
2001	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	21	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	24	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	25	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	34.7	65.07	0	0	0	0.24
2001	26	23	2789	340.496	-426.449	D	7.616	7.593	0.023	3.3	34.34	65.52	0	0	0	0.14
2001	27	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2001	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	36	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	37	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	38	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	40	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	42	23	2781	339.842	-425.379	D	7.521	7.453	0.068	3	40.03	59.79	0	0	0	0.19
2001	43	23	1415	329.185	-425.086	D	7.454	7.453	0.001	3	50.73	49.15	0	0	0	0.14

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	44	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	46	23	2789	340.496	-426.449	D	7.46	7.453	0.007	3	67.53	32.38	0	0	0	0.11
2001	47	23	2790	340.421	-426.562	D	7.46	7.453	0.007	3	68.67	31.26	0	0	0	0.09
2001	48	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	49	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	50	23	2789	340.496	-426.449	D	7.453	7.453	0	3	63.57	35.22	0	0	0	0.22
2001	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	52	23	2704	329.056	-425.092	D	7.603	7.453	0.15	3	50.06	49.76	0	0	0	0.19
2001	53	23	2704	329.056	-425.092	D	7.464	7.453	0.012	3	54.06	45.84	0	0	0	0.11
2001	54	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	55	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	57	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2001	58	23	2789	340.496	-426.449	D	7.472	7.453	0.02	3	59.79	39.96	0	0	0	0.26
2001	59	23	2684	326.713	-427.014	D	7.521	7.453	0.068	3	58.64	41.24	0	0	0	0.13
2001	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0
2001	61	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	62	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	63	23	2789	340.496	-426.449	D	7.483	7.311	0.172	2.7	52.14	47.65	0	0	0	0.22
2001	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	68	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	69	23	2789	340.496	-426.449	D	7.314	7.311	0.003	2.7	66.44	33.32	0	0	0	0.31
2001	70	23	2789	340.496	-426.449	D	7.311	7.311	0.001	2.7	77.92	21.87	0	0	0	0.24
2001	71	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	74	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	75	23	2758	335.862	-424.454	D	7.514	7.311	0.203	2.7	71.89	27.98	0	0	0	0.13
2001	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	77	23	2789	340.496	-426.449	D	7.365	7.311	0.055	2.7	52.63	46.98	0	0	0	0.39
2001	78	23	2589	318.383	-445.593	D	7.366	7.311	0.056	2.7	59.6	40.12	0	0	0	0.28
2001	79	23	2694	327.861	-425.964	D	7.35	7.311	0.039	2.7	77.02	22.59	0	0	0	0.39
2001	80	23	2600	318.952	-443.12	D	7.717	7.311	0.406	2.7	68.21	31.47	0	0	0	0.32
2001	81	23	2704	329.056	-425.092	D	7.412	7.311	0.101	2.7	86.13	13.58	0	0	0	0.29
2001	82	23	2789	340.496	-426.449	D	7.435	7.311	0.124	2.7	82.7	17.04	0	0	0	0.26

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	83	23	2789	340.496	-426.449	D	7.501	7.311	0.191	2.7	85.87	13.97	0	0	0	0.15
2001	84	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	85	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	86	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	87	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	89	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	90	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2001	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2001	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	96	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	99	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	113	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	115	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	116	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	117	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2001	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	122	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	123	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	124	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	130	23	2403	338.931	-426.157	D	7.639	7.639	0	3.4	98.17	0.4	0	0	0	0.15
2001	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	133	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	137	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	138	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	139	23	2789	340.496	-426.449	D	7.639	7.639	0.001	3.4	99.5	0.42	0	0	0	0.11
2001	140	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	100.16	0.26	0	0	0	0.1
2001	141	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	142	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	149	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.47	0.3	0	0	0	0.18
2001	150	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	97.85	2.02	0	0	0	0.14
2001	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	152	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	157	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	158	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	159	23	2789	340.496	-426.449	D	8.189	7.639	**0.551**	3.4	97.05	2.79	0	0	0	0.17
2001	160	23	2571	322.646	-445.476	D	7.772	7.639	0.133	3.4	98.94	0.9	0	0	0	0.16

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	161	23	2781	339.842	-425.379	D	7.722	7.639	0.083	3.4	98.84	1.03	0	0	0	0.13
2001	162	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.62	0.29	0	0	0	0.1
2001	163	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	99.96	0.18	0	0	0	0.1
2001	164	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	99.76	0.26	0	0	0	0.08
2001	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	168	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	169	23	2789	340.496	-426.449	D	7.639	7.639	0.001	3.4	99.82	0.19	0	0	0	0.18
2001	170	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	95.68	0.15	0	0	0	0.13
2001	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	172	23	2758	335.862	-424.454	D	7.649	7.639	0.011	3.4	97.94	1.94	0	0	0	0.12
2001	173	23	2789	340.496	-426.449	D	7.642	7.639	0.004	3.4	97.8	2.12	0	0	0	0.1
2001	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	175	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	99.62	0.25	0	0	0	0.19
2001	176	23	2789	340.496	-426.449	D	7.704	7.639	0.065	3.4	99.33	0.52	0	0	0	0.15
2001	177	23	2781	339.842	-425.379	D	7.735	7.639	0.096	3.4	99.33	0.55	0	0	0	0.13
2001	178	23	2758	335.862	-424.454	D	7.686	7.639	0.048	3.4	99.37	0.53	0	0	0	0.11
2001	179	23	2758	335.862	-424.454	D	7.657	7.639	0.018	3.4	98.44	1.46	0	0	0	0.1
2001	180	23	2155	334.883	-424.586	D	7.64	7.639	0.001	3.4	99.7	0.18	0	0	0	0.1
2001	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	183	23	2781	339.842	-425.379	D	7.723	7.639	0.085	3.4	91.16	8.71	0	0	0	0.13
2001	184	23	2781	339.842	-425.379	D	7.679	7.639	0.04	3.4	99.24	0.66	0	0	0	0.1
2001	185	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	99.41	0.11	0	0	0	0.09
2001	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	187	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	99.67	0.14	0	0	0	0.16
2001	188	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.65	0.18	0	0	0	0.14
2001	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	192	23	2789	340.496	-426.449	D	7.648	7.639	0.009	3.4	99.61	0.1	0	0	0	0.29
2001	193	23	2789	340.496	-426.449	D	7.725	7.639	0.086	3.4	99.14	0.68	0	0	0	0.18
2001	194	23	2789	340.496	-426.449	D	7.699	7.639	0.061	3.4	96.91	2.98	0	0	0	0.11
2001	195	23	2589	318.383	-445.593	D	7.644	7.639	0.006	3.4	99.75	0.15	0	0	0	0.09
2001	196	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	202	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	95.56	4.45	0	0	0	0.07
2001	203	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.55	0.46	0	0	0	0.08
2001	204	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.12	0.93	0	0	0	0.07
2001	205	23	2404	338.92	-425.908	D	7.639	7.639	0	3.4	99.26	0.19	0	0	0	0.07
2001	206	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	207	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	208	23	2789	340.496	-426.449	D	7.735	7.639	0.096	3.4	96.01	3.89	0	0	0	0.1
2001	209	23	2789	340.496	-426.449	D	7.696	7.639	0.057	3.4	95.46	4.46	0	0	0	0.08
2001	210	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.25	0.88	0	0	0	0.08
2001	211	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	99.28	0.66	0	0	0	0.07
2001	212	23	2789	340.496	-426.449	D	7.67	7.639	0.031	3.4	99.77	0.14	0	0	0	0.09
2001	213	23	2781	339.842	-425.379	D	7.66	7.639	0.021	3.4	99.5	0.42	0	0	0	0.08
2001	214	23	2781	339.842	-425.379	D	7.639	7.639	0.001	3.4	99.78	0.16	0	0	0	0.07
2001	215	23	2385	338.165	-425.691	D	7.639	7.639	0	3.4	97.67	0.06	0	0	0	0.07
2001	216	23	2789	340.496	-426.449	D	7.685	7.639	0.047	3.4	99.55	0.25	0	0	0	0.2
2001	217	23	2628	320.933	-436.998	D	7.706	7.639	0.067	3.4	99.18	0.66	0	0	0	0.16
2001	218	23	1046	326.812	-427.688	D	7.639	7.639	0	3.4	96.77	0.05	0	0	0	0.14
2001	219	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	223	23	2789	340.496	-426.449	D	7.681	7.639	0.042	3.4	99.05	0.8	0	0	0	0.15
2001	224	23	2789	340.496	-426.449	D	7.984	7.639	0.345	3.4	93.72	6.09	0	0	0	0.18
2001	225	23	2781	339.842	-425.379	D	8.329	7.639	**0.69**	3.4	97.15	2.69	0	0	0	0.16
2001	226	23	2468	334.002	-434.887	D	7.715	7.639	0.076	3.4	99.46	0.34	0	0	0	0.2
2001	227	23	2468	334.002	-434.887	D	7.695	7.639	0.056	3.4	98.36	1.42	0	0	0	0.22
2001	228	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	98.42	0.23	0	0	0	0.14
2001	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	232	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	233	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	237	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	238	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	239	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	242	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	243	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	244	23	2758	335.862	-424.454	D	7.832	7.727	0.106	3.592	98.86	0.98	0	0	0	0.16
2001	245	23	2704	329.056	-425.092	D	7.951	7.731	0.221	3.6	96.12	3.77	0	0	0	0.11
2001	246	23	2704	329.056	-425.092	D	7.766	7.731	0.035	3.6	99.4	0.49	0	0	0	0.1
2001	247	23	2758	335.862	-424.454	D	7.765	7.731	0.034	3.6	99.67	0.24	0	0	0	0.09
2001	248	23	2781	339.842	-425.379	D	7.757	7.731	0.026	3.6	99.16	0.76	0	0	0	0.08
2001	249	23	2781	339.842	-425.379	D	7.735	7.731	0.004	3.6	99.3	0.61	0	0	0	0.09
2001	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	254	23	2588	318.452	-445.8	D	7.806	7.731	0.075	3.6	95.87	3.92	0	0	0	0.21
2001	255	23	2781	339.842	-425.379	D	8.025	7.731	0.294	3.6	97.53	2.32	0	0	0	0.15
2001	256	23	2789	340.496	-426.449	D	8.194	7.731	0.463	3.6	98.64	1.24	0	0	0	0.12
2001	257	23	2758	335.862	-424.454	D	8.224	7.731	0.494	3.6	95.17	4.68	0	0	0	0.14
2001	258	23	2588	318.452	-445.8	D	7.736	7.731	0.006	3.6	99.7	0.19	0	0	0	0.11
2001	259	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	260	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	261	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	265	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	266	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	267	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	268	23	2789	340.496	-426.449	D	7.805	7.731	0.074	3.6	59.11	40.39	0	0	0	0.5
2001	269	23	2571	322.646	-445.476	D	7.748	7.731	0.017	3.6	88.92	10.78	0	0	0	0.3
2001	270	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	271	23	2781	339.842	-425.379	D	7.886	7.731	0.155	3.6	96.7	3.01	0	0	0	0.29
2001	272	23	2589	318.383	-445.593	D	7.795	7.731	0.065	3.6	97.03	2.78	0	0	0	0.19
2001	273	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2001	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0
2001	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	278	23	2781	339.842	-425.379	D	8.044	7.593	0.452	3.3	62.16	37.71	0	0	0	0.13
2001	279	23	2571	322.646	-445.476	D	7.593	7.593	0.001	3.3	78.33	21.67	0	0	0	0.04
2001	280	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	95.42	4.55	0	0	0	0.28
2001	281	23	2789	340.496	-426.449	D	7.603	7.593	0.011	3.3	84.12	15.68	0	0	0	0.2
2001	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	285	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	286	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	287	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	288	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	289	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	290	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	291	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	293	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	294	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	295	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	297	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	298	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	299	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	300	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	301	23	2789	340.496	-426.449	D	7.599	7.593	0.006	3.3	80.74	19.02	0	0	0	0.24
2001	302	23	2781	339.842	-425.379	D	7.594	7.593	0.002	3.3	85.59	14.26	0	0	0	0.15
2001	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2001	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	307	23	2781	339.842	-425.379	D	7.685	7.546	0.139	3.2	83.82	16.02	0	0	0	0.16
2001	308	23	2684	326.713	-427.014	D	7.609	7.546	0.063	3.2	94.22	5.65	0	0	0	0.14
2001	309	23	2789	340.496	-426.449	D	7.624	7.546	0.078	3.2	91.74	8.08	0	0	0	0.18
2001	310	23	2789	340.496	-426.449	D	7.685	7.546	0.139	3.2	82.66	17.1	0	0	0	0.24
2001	311	23	2789	340.496	-426.449	D	7.597	7.546	0.051	3.2	89.95	9.87	0	0	0	0.19
2001	312	23	2781	339.842	-425.379	D	7.547	7.546	0.001	3.2	96.88	3.03	0	0	0	0.14
2001	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	315	23	2781	339.842	-425.379	D	7.551	7.546	0.005	3.2	87.36	11.96	0	0	0	0.69
2001	316	23	2588	318.452	-445.8	D	7.591	7.546	0.045	3.2	68.72	30.91	0	0	0	0.37

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	317	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	323	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	331	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	332	23	2789	340.496	-426.449	D	7.599	7.546	0.052	3.2	56.57	43.31	0	0	0	0.13
2001	333	23	2789	340.496	-426.449	D	8.795	7.546	**1.248**	3.2	47.26	52.52	0	0	0	0.22
2001	334	23	2789	340.496	-426.449	D	7.615	7.546	0.069	3.2	64.66	35.19	0	0	0	0.15
2001	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0
2001	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	339	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	342	23	2758	335.862	-424.454	D	7.804	7.593	0.212	3.3	45.75	54.05	0	0	0	0.2
2001	343	23	2362	338.048	-428.694	D	7.593	7.593	0	3.3	79.9	8.13	0	0	0	0.08
2001	344	23	2789	340.496	-426.449	D	7.601	7.593	0.009	3.3	38.25	61.55	0	0	0	0.21
2001	345	23	2789	340.496	-426.449	D	7.608	7.593	0.016	3.3	59.87	39.94	0	0	0	0.2
2001	346	23	2041	333.901	-424.879	D	7.593	7.593	0	3.3	66.48	29.71	0	0	0	0.15
2001	347	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	348	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	349	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	350	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	74.63	25.35	0	0	0	0.1
2001	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	358	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	359	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2001	365	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									1.248							

Appendix M
Upper Buffalo
2002 M6

EGU											% of Modeled Extinction by Species					
YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	1	23	2758	335.862	-424.454	D	7.618	7.593	0.025	3.3	0	0	0	0	0	100
2002	2	23	2758	335.862	-424.454	D	7.73	7.593	0.137	3.3	0	0	0	0	0	100
2002	3	23	2308	337.055	-428.737	D	7.615	7.593	0.022	3.3	0	0	0	0	0	100
2002	4	23	2040	333.912	-425.128	D	7.593	7.593	0	3.3	0	0	0	0	0	99.32
2002	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	6	23	2789	340.496	-426.449	D	7.601	7.593	0.008	3.3	0	0	0	0	0	100.02
2002	7	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	0	0	0	0	0	100.03
2002	8	23	2788	340.294	-426.448	D	7.593	7.593	0	3.3	0	0	0	0	0	99.85
2002	9	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	10	23	2640	322.263	-435.121	D	7.615	7.593	0.023	3.3	0	0	0	0	0	100
2002	11	23	2758	335.862	-424.454	D	7.641	7.593	0.049	3.3	0	0	0	0	0	100
2002	12	23	2235	335.628	-424.554	D	7.593	7.593	0.001	3.3	0	0	0	0	0	99.98
2002	13	23	618	323.654	-435.071	D	7.593	7.593	0.001	3.3	0	0	0	0	0	99.81
2002	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	15	23	2651	323.652	-433.662	D	7.597	7.593	0.005	3.3	0	0	0	0	0	100.03
2002	16	23	1046	326.812	-427.688	D	7.593	7.593	0	3.3	0	0	0	0	0	99.37
2002	17	23	2758	335.862	-424.454	D	7.627	7.593	0.034	3.3	0	0	0	0	0	100
2002	18	23	2628	320.933	-436.998	D	7.6	7.593	0.008	3.3	0	0	0	0	0	100.02
2002	19	23	2684	326.713	-427.014	D	7.603	7.593	0.01	3.3	0	0	0	0	0	100.01
2002	20	23	2789	340.496	-426.449	D	7.599	7.593	0.006	3.3	0	0	0	0	0	100.02
2002	21	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	40.29
2002	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	24	23	2789	340.496	-426.449	D	7.619	7.593	0.026	3.3	0	0	0	0	0	100
2002	25	23	2588	318.452	-445.8	D	7.593	7.593	0	3.3	0	0	0	0	0	100.2
2002	26	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	67.73
2002	27	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	29	23	1241	327.999	-426.387	D	7.593	7.593	0	3.3	0	0	0	0	0	95.21
2002	30	23	2758	335.862	-424.454	D	7.614	7.593	0.021	3.3	0	0	0	0	0	100
2002	31	23	2694	327.861	-425.964	D	7.621	7.593	0.029	3.3	0	0	0	0	0	100
2002	32	23	452	322.413	-435.125	D	7.459	7.459	0	3.013	0	0	0	0	0	100.13
2002	33	23	2758	335.862	-424.454	D	7.472	7.453	0.019	3	0	0	0	0	0	100.01
2002	34	23	2789	340.496	-426.449	D	7.454	7.453	0.001	3	0	0	0	0	0	100.26
2002	35	23	2705	329.287	-425.069	D	7.475	7.453	0.023	3	0	0	0	0	0	100.01
2002	36	23	2789	340.496	-426.449	D	7.457	7.453	0.004	3	0	0	0	0	0	100.08
2002	37	23	2684	326.713	-427.014	D	7.453	7.453	0	3	0	0	0	0	0	100.69
2002	38	23	2758	335.862	-424.454	D	7.468	7.453	0.016	3	0	0	0	0	0	100.02

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	39	23	2468	334.002	-434.887	D	7.453	7.453	0	3	0	0	0	0	0	100.57
2002	40	23	2307	336.654	-425.258	D	7.453	7.453	0	3	0	0	0	0	0	102.24
2002	41	23	2654	324.195	-433.21	D	7.454	7.453	0.001	3	0	0	0	0	0	99.98
2002	42	23	2435	337.211	-428.786	D	7.459	7.453	0.007	3	0	0	0	0	0	100.05
2002	43	23	2711	330.671	-424.932	D	7.463	7.453	0.01	3	0	0	0	0	0	100.03
2002	44	23	2628	320.933	-436.998	D	7.488	7.453	0.035	3	0	0	0	0	0	100.01
2002	45	23	2789	340.496	-426.449	D	7.456	7.453	0.003	3	0	0	0	0	0	100.07
2002	46	23	2758	335.862	-424.454	D	7.453	7.453	0	3	0	0	0	0	0	100.22
2002	47	23	2758	335.862	-424.454	D	7.453	7.453	0	3	0	0	0	0	0	100.08
2002	48	23	2711	330.671	-424.932	D	7.499	7.453	0.047	3	0	0	0	0	0	100.01
2002	49	23	2789	340.496	-426.449	D	7.453	7.453	0.001	3	0	0	0	0	0	100.21
2002	50	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	52	23	2589	318.383	-445.593	D	7.454	7.453	0.001	3	0	0	0	0	0	100.08
2002	53	23	2757	335.63	-424.484	D	7.503	7.453	0.05	3	0	0	0	0	0	100
2002	54	23	2789	340.496	-426.449	D	7.46	7.453	0.007	3	0	0	0	0	0	100.04
2002	55	23	2789	340.496	-426.449	D	7.453	7.453	0	3	0	0	0	0	0	100.63
2002	56	23	2789	340.496	-426.449	D	7.499	7.453	0.046	3	0	0	0	0	0	100
2002	57	23	2627	320.879	-437.207	D	7.454	7.453	0.001	3	0	0	0	0	0	100.07
2002	58	23	2781	339.842	-425.379	D	7.453	7.453	0	3	0	0	0	0	0	102.61
2002	59	23	2417	339.654	-425.626	D	7.453	7.453	0	3	0	0	0	0	0	99.75
2002	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0
2002	61	23	2684	326.713	-427.014	D	7.324	7.311	0.013	2.7	0	0	0	0	0	100.02
2002	62	23	2684	326.713	-427.014	D	7.313	7.311	0.003	2.7	0	0	0	0	0	100
2002	63	23	2781	339.842	-425.379	D	7.311	7.311	0	2.7	0	0	0	0	0	99.38
2002	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	68	23	2780	339.614	-425.419	D	7.311	7.311	0	2.7	0	0	0	0	0	93.77
2002	69	23	2710	330.44	-424.955	D	7.315	7.311	0.004	2.7	0	0	0	0	0	100.03
2002	70	23	2781	339.842	-425.379	D	7.312	7.311	0.001	2.7	0	0	0	0	0	99.97
2002	71	23	2711	330.671	-424.932	D	7.372	7.311	0.061	2.7	0	0	0	0	0	100
2002	72	23	2789	340.496	-426.449	D	7.322	7.311	0.011	2.7	0	0	0	0	0	100.02
2002	73	23	2789	340.496	-426.449	D	7.311	7.311	0	2.7	0	0	0	0	0	100.06
2002	74	23	2694	327.861	-425.964	D	7.344	7.311	0.034	2.7	0	0	0	0	0	100
2002	75	23	2758	335.862	-424.454	D	7.378	7.311	0.067	2.7	0	0	0	0	0	100
2002	76	23	2628	320.933	-436.998	D	7.315	7.311	0.004	2.7	0	0	0	0	0	100.05
2002	77	23	2209	335.38	-424.564	D	7.311	7.311	0	2.7	0	0	0	0	0	100.37

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	78	23	2789	340.496	-426.449	D	7.319	7.311	0.009	2.7	0	0	0	0	0	100.01
2002	79	23	2694	327.861	-425.964	D	7.387	7.311	0.077	2.7	0	0	0	0	0	100
2002	80	23	2758	335.862	-424.454	D	7.332	7.311	0.021	2.7	0	0	0	0	0	100.01
2002	81	23	2789	340.496	-426.449	D	7.38	7.311	0.07	2.7	0	0	0	0	0	100
2002	82	23	2789	340.496	-426.449	D	7.314	7.311	0.003	2.7	0	0	0	0	0	100.05
2002	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	84	23	2628	320.933	-436.998	D	7.322	7.311	0.011	2.7	0	0	0	0	0	100.03
2002	85	23	2789	340.496	-426.449	D	7.346	7.311	0.036	2.7	0	0	0	0	0	100.01
2002	86	23	2789	340.496	-426.449	D	7.318	7.311	0.007	2.7	0	0	0	0	0	100.03
2002	87	23	2704	329.056	-425.092	D	7.311	7.311	0.001	2.7	0	0	0	0	0	99.89
2002	88	23	2789	340.496	-426.449	D	7.315	7.311	0.004	2.7	0	0	0	0	0	100.03
2002	89	23	2694	327.861	-425.964	D	7.32	7.311	0.009	2.7	0	0	0	0	0	100.01
2002	90	23	1660	330.988	-426.506	D	7.316	7.311	0.006	2.7	0	0	0	0	0	100.02
2002	91	23	2758	335.862	-424.454	D	7.361	7.356	0.004	2.796	0	0	0	0	0	100.05
2002	92	23	2710	330.44	-424.955	D	7.37	7.358	0.012	2.8	0	0	0	0	0	100.01
2002	93	23	2710	330.44	-424.955	D	7.414	7.358	0.056	2.8	0	0	0	0	0	100
2002	94	23	2684	326.713	-427.014	D	7.365	7.358	0.007	2.8	0	0	0	0	0	100.02
2002	95	23	2781	339.842	-425.379	D	7.37	7.358	0.011	2.8	0	0	0	0	0	100.02
2002	96	23	17	319.384	-445.5	D	7.363	7.358	0.004	2.8	0	0	0	0	0	100.01
2002	97	23	2780	339.614	-425.419	D	7.359	7.358	0	2.8	0	0	0	0	0	99.86
2002	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	99	23	2758	335.862	-424.454	D	7.386	7.358	0.028	2.8	0	0	0	0	0	100
2002	100	23	2758	335.862	-424.454	D	7.362	7.358	0.004	2.8	0	0	0	0	0	100.04
2002	101	23	168	320.568	-438.453	D	7.358	7.358	0	2.8	0	0	0	0	0	97.65
2002	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	103	23	1517	329.93	-425.053	D	7.358	7.358	0	2.8	0	0	0	0	0	101.16
2002	104	23	1415	329.185	-425.086	D	7.359	7.358	0	2.8	0	0	0	0	0	99.89
2002	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	110	23	2235	335.628	-424.554	D	7.358	7.358	0	2.8	0	0	0	0	0	109.37
2002	111	23	1517	329.93	-425.053	D	7.358	7.358	0	2.8	0	0	0	0	0	113.25
2002	112	23	2758	335.862	-424.454	D	7.393	7.358	0.035	2.8	0	0	0	0	0	100.01
2002	113	23	2684	326.713	-427.014	D	7.359	7.358	0.001	2.8	0	0	0	0	0	99.96
2002	114	23	411	322.219	-436.382	D	7.358	7.358	0	2.8	0	0	0	0	0	99.59
2002	115	23	2758	335.862	-424.454	D	7.378	7.358	0.02	2.8	0	0	0	0	0	100
2002	116	23	2571	322.646	-445.476	D	7.361	7.358	0.002	2.8	0	0	0	0	0	100.07

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	117	23	2780	339.614	-425.419	D	7.358	7.358	0	2.8	0	0	0	0	0	99.81
2002	118	23	1415	329.185	-425.086	D	7.359	7.358	0.001	2.8	0	0	0	0	0	100.2
2002	119	23	2704	329.056	-425.092	D	7.368	7.358	0.01	2.8	0	0	0	0	0	100.03
2002	120	23	2683	326.705	-427.245	D	7.359	7.358	0.001	2.8	0	0	0	0	0	100.15
2002	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	74.2
2002	122	23	2684	326.713	-427.014	D	7.659	7.639	0.02	3.4	0	0	0	0	0	99.99
2002	123	23	2589	318.383	-445.593	D	7.656	7.639	0.018	3.4	0	0	0	0	0	100
2002	124	23	2684	326.713	-427.014	D	7.648	7.639	0.009	3.4	0	0	0	0	0	100
2002	125	23	1415	329.185	-425.086	D	7.643	7.639	0.004	3.4	0	0	0	0	0	100.04
2002	126	23	2128	334.646	-424.846	D	7.639	7.639	0	3.4	0	0	0	0	0	99.22
2002	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	129	23	2789	340.496	-426.449	D	7.653	7.639	0.015	3.4	0	0	0	0	0	100
2002	130	23	2758	335.862	-424.454	D	7.648	7.639	0.009	3.4	0	0	0	0	0	100.01
2002	131	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.04
2002	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	118.97
2002	133	23	2789	340.496	-426.449	D	7.65	7.639	0.011	3.4	0	0	0	0	0	100.01
2002	134	23	2725	331.984	-427.096	D	7.639	7.639	0	3.4	0	0	0	0	0	100.06
2002	135	23	2415	339.676	-426.124	D	7.639	7.639	0	3.4	0	0	0	0	0	99.09
2002	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	137	23	2684	326.713	-427.014	D	7.659	7.639	0.02	3.4	0	0	0	0	0	100
2002	138	23	2589	318.383	-445.593	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.04
2002	139	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.06
2002	140	23	2758	335.862	-424.454	D	7.664	7.639	0.025	3.4	0	0	0	0	0	100
2002	141	23	2704	329.056	-425.092	D	7.649	7.639	0.011	3.4	0	0	0	0	0	100.01
2002	142	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.07
2002	143	23	1921	333.04	-427.914	D	7.639	7.639	0	3.4	0	0	0	0	0	94.96
2002	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	145	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	0	0	0	0	0	100.05
2002	146	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.92
2002	147	23	2413	339.406	-425.637	D	7.639	7.639	0	3.4	0	0	0	0	0	99.33
2002	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	150	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	0	0	0	0	0	92.58
2002	151	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.68
2002	152	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	0	0	0	0	0	100.17
2002	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	156	23	2781	339.842	-425.379	D	7.645	7.639	0.006	3.4	0	0	0	0	0	99.99
2002	157	23	2628	320.933	-436.998	D	7.645	7.639	0.006	3.4	0	0	0	0	0	100
2002	158	23	2571	322.646	-445.476	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.07
2002	159	23	2571	322.646	-445.476	D	7.648	7.639	0.01	3.4	0	0	0	0	0	100
2002	160	23	2756	335.398	-424.515	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.02
2002	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	164	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	0	0	0	0	0	100.05
2002	165	23	2684	326.713	-427.014	D	7.675	7.639	0.036	3.4	0	0	0	0	0	100
2002	166	23	2710	330.44	-424.955	D	7.64	7.639	0.001	3.4	0	0	0	0	0	99.97
2002	167	23	2758	335.862	-424.454	D	7.647	7.639	0.008	3.4	0	0	0	0	0	100
2002	168	23	2704	329.056	-425.092	D	7.648	7.639	0.009	3.4	0	0	0	0	0	100.01
2002	169	23	2468	334.002	-434.887	D	7.642	7.639	0.003	3.4	0	0	0	0	0	99.98
2002	170	23	2781	339.842	-425.379	D	7.639	7.639	0.001	3.4	0	0	0	0	0	100.37
2002	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	47.2
2002	172	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	173	23	2409	339.158	-425.648	D	7.639	7.639	0	3.4	0	0	0	0	0	99.99
2002	174	23	1415	329.185	-425.086	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.06
2002	175	23	15	319.038	-443.267	D	7.639	7.639	0	3.4	0	0	0	0	0	11.71
2002	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	178	23	2758	335.862	-424.454	D	7.639	7.639	0	3.4	0	0	0	0	0	99.34
2002	179	23	2384	338.176	-425.941	D	7.639	7.639	0	3.4	0	0	0	0	0	98.59
2002	180	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	0	0	0	0	0	104.29
2002	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	183	23	2789	340.496	-426.449	D	7.639	7.639	0.001	3.4	0	0	0	0	0	100.13
2002	184	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.13
2002	185	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.01
2002	186	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	0	0	0	0	0	100.02
2002	187	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	0	0	0	0	0	100.01
2002	188	23	2571	322.646	-445.476	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.08
2002	189	23	2588	318.452	-445.8	D	7.639	7.639	0.001	3.4	0	0	0	0	0	100.18
2002	190	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.06
2002	191	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	0	0	0	0	0	100.29
2002	192	23	2711	330.671	-424.932	D	7.646	7.639	0.007	3.4	0	0	0	0	0	100.01
2002	193	23	2704	329.056	-425.092	D	7.655	7.639	0.016	3.4	0	0	0	0	0	100.01
2002	194	23	2694	327.861	-425.964	D	7.655	7.639	0.017	3.4	0	0	0	0	0	100

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	195	23	2758	335.862	-424.454	D	7.647	7.639	0.008	3.4	0	0	0	0	0	100.01
2002	196	23	2684	326.713	-427.014	D	7.649	7.639	0.01	3.4	0	0	0	0	0	100.02
2002	197	23	2704	329.056	-425.092	D	7.64	7.639	0.002	3.4	0	0	0	0	0	100.03
2002	198	23	2413	339.406	-425.637	D	7.639	7.639	0	3.4	0	0	0	0	0	100.72
2002	199	23	2032	334	-427.123	D	7.639	7.639	0	3.4	0	0	0	0	0	120.62
2002	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	204	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	0	0	0	0	0	99.99
2002	205	23	2628	320.933	-436.998	D	7.648	7.639	0.009	3.4	0	0	0	0	0	100.01
2002	206	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	0	0	0	0	0	100.01
2002	207	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.06
2002	208	23	2372	337.938	-426.201	D	7.639	7.639	0	3.4	0	0	0	0	0	93.51
2002	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	211	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	0	0	0	0	0	89.29
2002	212	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	102
2002	213	23	1550	330.2	-425.541	D	7.639	7.639	0	3.4	0	0	0	0	0	9.46
2002	214	23	2781	339.842	-425.379	D	7.643	7.639	0.004	3.4	0	0	0	0	0	100.03
2002	215	23	2704	329.056	-425.092	D	7.649	7.639	0.01	3.4	0	0	0	0	0	100
2002	216	23	2684	326.713	-427.014	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.03
2002	217	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.05
2002	218	23	2684	326.713	-427.014	D	7.643	7.639	0.004	3.4	0	0	0	0	0	100.03
2002	219	23	2588	318.452	-445.8	D	7.649	7.639	0.01	3.4	0	0	0	0	0	100
2002	220	23	2694	327.861	-425.964	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.02
2002	221	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	0	0	0	0	0	99.97
2002	222	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.28
2002	223	23	807	325.034	-432.512	D	7.639	7.639	0	3.4	0	0	0	0	0	99.27
2002	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	226	23	1415	329.185	-425.086	D	7.641	7.639	0.002	3.4	0	0	0	0	0	99.99
2002	227	23	2235	335.628	-424.554	D	7.639	7.639	0	3.4	0	0	0	0	0	94.8
2002	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	236	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	0	0	0	0	0	100.35
2002	237	23	2628	320.933	-436.998	D	7.653	7.639	0.014	3.4	0	0	0	0	0	100
2002	238	23	2589	318.383	-445.593	D	7.644	7.639	0.005	3.4	0	0	0	0	0	99.99
2002	239	23	2790	340.421	-426.562	D	7.652	7.639	0.013	3.4	0	0	0	0	0	100
2002	240	23	2758	335.862	-424.454	D	7.653	7.639	0.015	3.4	0	0	0	0	0	100.01
2002	241	23	2694	327.861	-425.964	D	7.655	7.639	0.016	3.4	0	0	0	0	0	100
2002	242	23	2704	329.056	-425.092	D	7.642	7.639	0.003	3.4	0	0	0	0	0	100.05
2002	243	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.06
2002	244	23	2758	335.862	-424.454	D	7.728	7.727	0.001	3.592	0	0	0	0	0	99.87
2002	245	23	1415	329.185	-425.086	D	7.731	7.731	0	3.6	0	0	0	0	0	95.79
2002	246	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	247	23	2781	339.842	-425.379	D	7.731	7.731	0	3.6	0	0	0	0	0	100.18
2002	248	23	2758	335.862	-424.454	D	7.734	7.731	0.003	3.6	0	0	0	0	0	100.02
2002	249	23	2789	340.496	-426.449	D	7.734	7.731	0.003	3.6	0	0	0	0	0	99.97
2002	250	23	2604	319.223	-442.217	D	7.731	7.731	0.001	3.6	0	0	0	0	0	99.89
2002	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	252	23	2235	335.628	-424.554	D	7.731	7.731	0	3.6	0	0	0	0	0	69.92
2002	253	23	2758	335.862	-424.454	D	7.734	7.731	0.004	3.6	0	0	0	0	0	99.99
2002	254	23	2758	335.862	-424.454	D	7.789	7.731	0.058	3.6	0	0	0	0	0	100
2002	255	23	2758	335.862	-424.454	D	7.75	7.731	0.02	3.6	0	0	0	0	0	100
2002	256	23	2640	322.263	-435.121	D	7.74	7.731	0.009	3.6	0	0	0	0	0	100
2002	257	23	2789	340.496	-426.449	D	7.732	7.731	0.002	3.6	0	0	0	0	0	99.99
2002	258	23	2758	335.862	-424.454	D	7.805	7.731	0.075	3.6	0	0	0	0	0	100
2002	259	23	2758	335.862	-424.454	D	7.828	7.731	0.097	3.6	0	0	0	0	0	100
2002	260	23	2758	335.862	-424.454	D	7.736	7.731	0.005	3.6	0	0	0	0	0	100.01
2002	261	23	2397	338.413	-425.68	D	7.731	7.731	0	3.6	0	0	0	0	0	97.84
2002	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	264	23	2789	340.496	-426.449	D	7.731	7.731	0	3.6	0	0	0	0	0	100.21
2002	265	23	2758	335.862	-424.454	D	7.756	7.731	0.025	3.6	0	0	0	0	0	100
2002	266	23	2589	318.383	-445.593	D	7.731	7.731	0	3.6	0	0	0	0	0	99.94
2002	267	23	2789	340.496	-426.449	D	7.743	7.731	0.013	3.6	0	0	0	0	0	100.01
2002	268	23	2684	326.713	-427.014	D	7.736	7.731	0.005	3.6	0	0	0	0	0	100
2002	269	23	2757	335.63	-424.484	D	7.732	7.731	0.001	3.6	0	0	0	0	0	100.03
2002	270	23	2758	335.862	-424.454	D	7.781	7.731	0.051	3.6	0	0	0	0	0	100
2002	271	23	2789	340.496	-426.449	D	7.739	7.731	0.008	3.6	0	0	0	0	0	100.01
2002	272	23	2789	340.496	-426.449	D	7.74	7.731	0.01	3.6	0	0	0	0	0	100

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	273	23	2684	326.713	-427.014	D	7.731	7.731	0.001	3.6	0	0	0	0	0	99.83
2002	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	278	23	2758	335.862	-424.454	D	7.618	7.593	0.025	3.3	0	0	0	0	0	100
2002	279	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	0	0	0	0	0	100.01
2002	280	23	2711	330.671	-424.932	D	7.612	7.593	0.019	3.3	0	0	0	0	0	100
2002	281	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	0	0	0	0	0	100.04
2002	282	23	2571	322.646	-445.476	D	7.595	7.593	0.002	3.3	0	0	0	0	0	99.99
2002	283	23	2571	322.646	-445.476	D	7.597	7.593	0.005	3.3	0	0	0	0	0	100
2002	284	23	2705	329.287	-425.069	D	7.597	7.593	0.005	3.3	0	0	0	0	0	100.01
2002	285	23	2781	339.842	-425.379	D	7.594	7.593	0.002	3.3	0	0	0	0	0	100.03
2002	286	23	2684	326.713	-427.014	D	7.621	7.593	0.028	3.3	0	0	0	0	0	100
2002	287	23	2758	335.862	-424.454	D	7.604	7.593	0.011	3.3	0	0	0	0	0	100.01
2002	288	23	2641	322.503	-435.089	D	7.604	7.593	0.011	3.3	0	0	0	0	0	100.01
2002	289	23	2758	335.862	-424.454	D	7.624	7.593	0.032	3.3	0	0	0	0	0	100
2002	290	23	2571	322.646	-445.476	D	7.598	7.593	0.006	3.3	0	0	0	0	0	100.02
2002	291	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	0	0	0	0	0	100.18
2002	292	23	2694	327.861	-425.964	D	7.599	7.593	0.007	3.3	0	0	0	0	0	100
2002	293	23	2571	322.646	-445.476	D	7.601	7.593	0.008	3.3	0	0	0	0	0	100.01
2002	294	23	2589	318.383	-445.593	D	7.605	7.593	0.012	3.3	0	0	0	0	0	100.01
2002	295	23	2704	329.056	-425.092	D	7.599	7.593	0.006	3.3	0	0	0	0	0	100.03
2002	296	23	2758	335.862	-424.454	D	7.623	7.593	0.031	3.3	0	0	0	0	0	100
2002	297	23	2628	320.933	-436.998	D	7.596	7.593	0.003	3.3	0	0	0	0	0	100
2002	298	23	2704	329.056	-425.092	D	7.601	7.593	0.008	3.3	0	0	0	0	0	100.02
2002	299	23	2789	340.496	-426.449	D	7.626	7.593	0.033	3.3	0	0	0	0	0	100
2002	300	23	2694	327.861	-425.964	D	7.623	7.593	0.031	3.3	0	0	0	0	0	100
2002	301	23	2704	329.056	-425.092	D	7.604	7.593	0.011	3.3	0	0	0	0	0	99.99
2002	302	23	2789	340.496	-426.449	D	7.618	7.593	0.026	3.3	0	0	0	0	0	100
2002	303	23	2589	318.383	-445.593	D	7.624	7.593	0.032	3.3	0	0	0	0	0	100
2002	304	23	2758	335.862	-424.454	D	7.648	7.593	0.055	3.3	0	0	0	0	0	100
2002	305	23	2684	326.713	-427.014	D	7.7	7.548	0.151	3.204	0	0	0	0	0	100
2002	306	23	2711	330.671	-424.932	D	7.686	7.546	0.14	3.2	0	0	0	0	0	100
2002	307	23	2758	335.862	-424.454	D	7.547	7.546	0.001	3.2	0	0	0	0	0	100.09
2002	308	23	2758	335.862	-424.454	D	7.566	7.546	0.02	3.2	0	0	0	0	0	100.02
2002	309	23	2588	318.452	-445.8	D	7.553	7.546	0.007	3.2	0	0	0	0	0	100.02
2002	310	23	2589	318.383	-445.593	D	7.549	7.546	0.002	3.2	0	0	0	0	0	100.04
2002	311	23	2788	340.294	-426.448	D	7.546	7.546	0	3.2	0	0	0	0	0	100.46

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	314	23	2588	318.452	-445.8	D	7.547	7.546	0.001	3.2	0	0	0	0	0	100.12
2002	315	23	2758	335.862	-424.454	D	7.548	7.546	0.002	3.2	0	0	0	0	0	100.04
2002	316	23	2694	327.861	-425.964	D	7.591	7.546	0.045	3.2	0	0	0	0	0	100
2002	317	23	375	322.611	-445.359	D	7.547	7.546	0	3.2	0	0	0	0	0	99.87
2002	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	319	23	2711	330.671	-424.932	D	7.582	7.546	0.036	3.2	0	0	0	0	0	100.01
2002	320	23	2694	327.861	-425.964	D	7.623	7.546	0.076	3.2	0	0	0	0	0	100
2002	321	23	1	318.65	-445.782	D	7.547	7.546	0.001	3.2	0	0	0	0	0	99.99
2002	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	323	23	2	318.639	-445.533	D	7.547	7.546	0	3.2	0	0	0	0	0	100.03
2002	324	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	0	0	0	0	0	101.1
2002	325	23	2628	320.933	-436.998	D	7.553	7.546	0.007	3.2	0	0	0	0	0	100.01
2002	326	23	2435	337.211	-428.786	D	7.587	7.546	0.041	3.2	0	0	0	0	0	100
2002	327	23	2468	334.002	-434.887	D	7.547	7.546	0.001	3.2	0	0	0	0	0	100.09
2002	328	23	1415	329.185	-425.086	D	7.546	7.546	0	3.2	0	0	0	0	0	101.15
2002	329	23	2628	320.933	-436.998	D	7.568	7.546	0.022	3.2	0	0	0	0	0	100.01
2002	330	23	2611	319.699	-440.64	D	7.564	7.546	0.017	3.2	0	0	0	0	0	100.01
2002	331	23	2711	330.671	-424.932	D	7.644	7.546	0.098	3.2	0	0	0	0	0	100
2002	332	23	2789	340.496	-426.449	D	7.548	7.546	0.002	3.2	0	0	0	0	0	100.03
2002	333	23	2323	337.303	-428.727	D	7.546	7.546	0	3.2	0	0	0	0	0	85.83
2002	334	23	2758	335.862	-424.454	D	7.547	7.546	0.001	3.2	0	0	0	0	0	100.03
2002	335	23	2758	335.862	-424.454	D	7.601	7.591	0.01	3.296	0	0	0	0	0	100.01
2002	336	23	1047	326.802	-427.438	D	7.593	7.593	0	3.3	0	0	0	0	0	97.07
2002	337	23	2758	335.862	-424.454	D	7.614	7.593	0.022	3.3	0	0	0	0	0	100
2002	338	23	1415	329.185	-425.086	D	7.593	7.593	0.001	3.3	0	0	0	0	0	99.85
2002	339	23	2704	329.056	-425.092	D	7.63	7.593	0.038	3.3	0	0	0	0	0	100
2002	340	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	0	0	0	0	0	100.02
2002	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	342	23	2781	339.842	-425.379	D	7.595	7.593	0.003	3.3	0	0	0	0	0	100.01
2002	343	23	2704	329.056	-425.092	D	7.605	7.593	0.012	3.3	0	0	0	0	0	100
2002	344	23	2587	318.699	-445.781	D	7.595	7.593	0.002	3.3	0	0	0	0	0	100.04
2002	345	23	1415	329.185	-425.086	D	7.594	7.593	0.001	3.3	0	0	0	0	0	99.99
2002	346	23	2417	339.654	-425.626	D	7.593	7.593	0	3.3	0	0	0	0	0	100.42
2002	347	23	2684	326.713	-427.014	D	7.617	7.593	0.024	3.3	0	0	0	0	0	100
2002	348	23	2588	318.452	-445.8	D	7.598	7.593	0.005	3.3	0	0	0	0	0	100.02
2002	349	23	2030	334.022	-427.622	D	7.593	7.593	0	3.3	0	0	0	0	0	11.21
2002	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	353	23	2758	335.862	-424.454	D	7.605	7.593	0.012	3.3	0	0	0	0	0	100
2002	354	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	0	0	0	0	0	99.29
2002	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	356	23	2684	326.713	-427.014	D	7.594	7.593	0.002	3.3	0	0	0	0	0	100.05
2002	357	23	2758	335.862	-424.454	D	7.6	7.593	0.007	3.3	0	0	0	0	0	100.03
2002	358	23	2704	329.056	-425.092	D	7.614	7.593	0.022	3.3	0	0	0	0	0	100.01
2002	359	23	2758	335.862	-424.454	D	7.596	7.593	0.003	3.3	0	0	0	0	0	100.02
2002	360	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	0	0	0	0	0	100.6
2002	361	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	0	0	0	0	0	100.17
2002	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	365	23	2684	326.713	-427.014	D	7.603	7.593	0.01	3.3	0	0	0	0	0	100
									0.151							
EXIDE											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	2694	327.861	-425.964	D	7.593	7.593	0	3.3	81.48	14.1	0	0	0	4.16
2002	2	23	2155	334.883	-424.586	D	7.601	7.593	0.008	3.3	87.74	9.28	0	0	0	2.98
2002	3	23	2789	340.496	-426.449	D	7.596	7.593	0.004	3.3	88.8	8.5	0	0	0	2.71
2002	4	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	91.73	6.66	0	0	0	1.69
2002	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	49.82	3.01	0	0	0	0.52
2002	6	23	2684	326.713	-427.014	D	7.599	7.593	0.006	3.3	92.58	5.57	0	0	0	1.88
2002	7	23	2588	318.452	-445.8	D	7.598	7.593	0.005	3.3	89.82	7.45	0	0	0	2.76
2002	8	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	86.2	11.34	0	0	0	2.49
2002	9	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	10	23	1415	329.185	-425.086	D	7.593	7.593	0.001	3.3	93.94	3.82	0	0	0	2.27
2002	11	23	1449	329.434	-425.075	D	7.596	7.593	0.004	3.3	80.63	13.34	0	0	0	6.06
2002	12	23	2468	334.002	-434.887	D	7.593	7.593	0	3.3	92.83	5.07	0	0	0	2.21
2002	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	16	23	1043	326.845	-428.436	D	7.593	7.593	0	3.3	6.47	0.3	0	0	0	0.12
2002	17	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	86.61	10	0	0	0	3.4
2002	18	23	2588	318.452	-445.8	D	7.593	7.593	0	3.3	93.69	5.38	0	0	0	1.2
2002	19	23	1414	329.196	-425.335	D	7.593	7.593	0	3.3	92.85	5.46	0	0	0	1.58
2002	20	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	95.33	3.71	0	0	0	0.93

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	21	23	2397	338.413	-425.68	D	7.593	7.593	0	3.3	94.67	2.62	0	0	0	0.68
2002	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	24	23	2781	339.842	-425.379	D	7.594	7.593	0.001	3.3	93.7	5.32	0	0	0	1.01
2002	25	23	2585	319.192	-445.743	D	7.593	7.593	0.001	3.3	85.87	10.78	0	0	0	3.44
2002	26	23	2429	338.563	-428.651	D	7.593	7.593	0	3.3	94.23	3.79	0	0	0	1.87
2002	27	23	2029	334.033	-427.871	D	7.593	7.593	0	3.3	85.27	2.16	0	0	0	1.34
2002	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	29	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	91.3	4.25	0	0	0	1.23
2002	30	23	2758	335.862	-424.454	D	7.605	7.593	0.013	3.3	94.73	4.3	0	0	0	0.98
2002	31	23	2684	326.713	-427.014	D	7.617	7.593	0.025	3.3	96.18	3.14	0	0	0	0.69
2002	32	23	2781	339.842	-425.379	D	7.46	7.459	0.001	3.013	96.48	3.07	0	0	0	0.44
2002	33	23	2418	339.946	-426.612	D	7.453	7.453	0	3	95.23	3.67	0	0	0	2.19
2002	34	23	2789	340.496	-426.449	D	7.453	7.453	0	3	101.38	3.81	0	0	0	1.4
2002	35	23	2704	329.056	-425.092	D	7.453	7.453	0.001	3	87.6	8.84	0	0	0	3.67
2002	36	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	37	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	38	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	40	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	41	23	2781	339.842	-425.379	D	7.454	7.453	0.001	3	93.96	4.3	0	0	0	1.87
2002	42	23	2789	340.496	-426.449	D	7.453	7.453	0.001	3	94.07	4.48	0	0	0	1.42
2002	43	23	2706	329.518	-425.046	D	7.453	7.453	0	3	92.84	4.5	0	0	0	2.85
2002	44	23	2628	320.933	-436.998	D	7.455	7.453	0.002	3	89.67	7.11	0	0	0	3.28
2002	45	23	2684	326.713	-427.014	D	7.453	7.453	0	3	88.45	9.14	0	0	0	3.05
2002	46	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	47	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	48	23	2779	339.386	-425.461	D	7.455	7.453	0.002	3	88.96	6.22	0	0	0	4.97
2002	49	23	1415	329.185	-425.086	D	7.453	7.453	0	3	95.6	2.75	0	0	0	1.98
2002	50	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	53	23	2781	339.842	-425.379	D	7.453	7.453	0	3	88.59	7.8	0	0	0	3.66
2002	54	23	2588	318.452	-445.8	D	7.453	7.453	0.001	3	92.71	5.18	0	0	0	2.56
2002	55	23	2418	339.946	-426.612	D	7.453	7.453	0	3	97.17	2.59	0	0	0	1.29
2002	56	23	2588	318.452	-445.8	D	7.453	7.453	0.001	3	90.91	7.62	0	0	0	1.64
2002	57	23	2588	318.452	-445.8	D	7.453	7.453	0.001	3	84.71	11.92	0	0	0	3.48
2002	58	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0
2002	61	23	2588	318.452	-445.8	D	7.316	7.311	0.006	2.7	91.79	6.29	0	0	0	1.96
2002	62	23	2781	339.842	-425.379	D	7.312	7.311	0.001	2.7	94.44	4.18	0	0	0	1.41
2002	63	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	70	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	71	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	72	23	2155	334.883	-424.586	D	7.311	7.311	0	2.7	94.66	3.73	0	0	0	2.77
2002	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	74	23	2704	329.056	-425.092	D	7.312	7.311	0.001	2.7	91.67	6.21	0	0	0	2.25
2002	75	23	1	318.65	-445.782	D	7.312	7.311	0.001	2.7	93.44	4.85	0	0	0	1.76
2002	76	23	2	318.639	-445.533	D	7.311	7.311	0	2.7	97.74	1.64	0	0	0	0.91
2002	77	23	2789	340.496	-426.449	D	7.311	7.311	0	2.7	98.16	1.64	0	0	0	0.75
2002	78	23	2041	333.901	-424.879	D	7.311	7.311	0	2.7	99.11	1.72	0	0	0	0.43
2002	79	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	100.07	1.63	0	0	0	0.38
2002	80	23	375	322.611	-445.359	D	7.312	7.311	0.001	2.7	90.33	6.44	0	0	0	3.33
2002	81	23	1047	326.802	-427.438	D	7.311	7.311	0	2.7	86.45	9.72	0	0	0	4.15
2002	82	23	2694	327.861	-425.964	D	7.312	7.311	0.001	2.7	91.79	6.74	0	0	0	1.59
2002	83	23	2789	340.496	-426.449	D	7.311	7.311	0	2.7	98.72	1.81	0	0	0	0.63
2002	84	23	1413	329.207	-425.585	D	7.311	7.311	0	2.7	98.01	2.48	0	0	0	0.34
2002	85	23	2335	337.172	-425.735	D	7.311	7.311	0	2.7	97.85	2.08	0	0	0	0.22
2002	86	23	1552	330.178	-425.042	D	7.311	7.311	0	2.7	89.23	5.38	0	0	0	1.94
2002	87	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	88	23	1047	326.802	-427.438	D	7.311	7.311	0	2.7	98.52	0.34	0	0	0	1.63
2002	89	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	98.2	0.59	0	0	0	1.06
2002	90	23	1415	329.185	-425.086	D	7.311	7.311	0	2.7	105.87	0.36	0	0	0	3.25
2002	91	23	1414	329.196	-425.335	D	7.357	7.356	0	2.796	96.33	1.66	0	0	0	2.11
2002	92	23	1048	326.791	-427.189	D	7.358	7.358	0	2.8	96.99	1.33	0	0	0	2.04
2002	93	23	305	322.115	-445.381	D	7.358	7.358	0	2.8	97.29	0.6	0	0	0	1.42
2002	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	96	23	2780	339.614	-425.419	D	7.358	7.358	0	2.8	99.58	0.65	0	0	0	1.21
2002	97	23	2402	338.942	-426.406	D	7.358	7.358	0	2.8	98.2	0.53	0	0	0	0.97
2002	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	99	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	102	23	1242	327.988	-426.138	D	7.358	7.358	0	2.8	104.27	0.42	0	0	0	2.01
2002	103	23	2704	329.056	-425.092	D	7.358	7.358	0	2.8	97.09	2.51	0	0	0	1.38
2002	104	23	1415	329.185	-425.086	D	7.358	7.358	0	2.8	98.22	1.11	0	0	0	0.87
2002	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	110	23	1242	327.988	-426.138	D	7.358	7.358	0	2.8	101.62	1.52	0	0	0	1.63
2002	111	23	2757	335.63	-424.484	D	7.359	7.358	0	2.8	98.38	1.3	0	0	0	0.79
2002	112	23	2036	333.956	-426.126	D	7.358	7.358	0	2.8	78.54	0.37	0	0	0	0.45
2002	113	23	2789	340.496	-426.449	D	7.361	7.358	0.003	2.8	98.84	0.33	0	0	0	0.87
2002	114	23	2758	335.862	-424.454	D	7.359	7.358	0	2.8	98.05	0.6	0	0	0	1.32
2002	115	23	2468	334.002	-434.887	D	7.359	7.358	0.001	2.8	97.37	1.14	0	0	0	1.48
2002	116	23	1979	333.536	-427.893	D	7.358	7.358	0	2.8	119.33	0.83	0	0	0	2.21
2002	117	23	2041	333.901	-424.879	D	7.358	7.358	0	2.8	96.49	0.75	0	0	0	1.59
2002	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	119	23	2781	339.842	-425.379	D	7.36	7.358	0.001	2.8	98.31	0.25	0	0	0	1.56
2002	120	23	2781	339.842	-425.379	D	7.359	7.358	0.001	2.8	99.1	0.14	0	0	0	0.9
2002	121	23	946	326.21	-430.962	D	7.627	7.627	0	3.375	89.25	0.29	0	0	0	0.43
2002	122	23	2683	326.705	-427.245	D	7.64	7.639	0.001	3.4	98.95	0.56	0	0	0	0.57
2002	123	23	1	318.65	-445.782	D	7.64	7.639	0.001	3.4	99.21	0.25	0	0	0	0.49
2002	124	23	200	320.784	-437.694	D	7.64	7.639	0.001	3.4	99.16	0.34	0	0	0	0.44
2002	125	23	2386	338.533	-428.423	D	7.64	7.639	0.001	3.4	99.37	0.22	0	0	0	0.41
2002	126	23	2405	338.909	-425.659	D	7.639	7.639	0	3.4	100.03	0.04	0	0	0	0.31
2002	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	129	23	1048	326.791	-427.189	D	7.639	7.639	0	3.4	90.23	6.91	0	0	0	2.72
2002	130	23	2704	329.056	-425.092	D	7.639	7.639	0.001	3.4	97.45	0.87	0	0	0	1.79
2002	131	23	2410	339.439	-426.385	D	7.639	7.639	0	3.4	98.7	0.49	0	0	0	0.38
2002	132	23	1242	327.988	-426.138	D	7.639	7.639	0	3.4	96.78	1.5	0	0	0	0.73
2002	133	23	1415	329.185	-425.086	D	7.646	7.639	0.007	3.4	97.14	2.26	0	0	0	0.62
2002	134	23	2588	318.452	-445.8	D	7.639	7.639	0	3.4	97.46	0.5	0	0	0	1.92
2002	135	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	98.6	0.25	0	0	0	0.98
2002	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	137	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	138	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	139	23	2704	329.056	-425.092	D	7.64	7.639	0.001	3.4	98.19	0.2	0	0	0	1.57
2002	140	23	2571	322.646	-445.476	D	7.644	7.639	0.005	3.4	98.54	0.28	0	0	0	1.19
2002	141	23	1	318.65	-445.782	D	7.639	7.639	0.001	3.4	99.32	0.11	0	0	0	0.83
2002	142	23	14	319.049	-443.516	D	7.639	7.639	0	3.4	99.46	0.1	0	0	0	0.55
2002	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	145	23	2694	327.861	-425.964	D	7.64	7.639	0.001	3.4	98.7	0.17	0	0	0	1.22
2002	146	23	2704	329.056	-425.092	D	7.646	7.639	0.007	3.4	98.47	0.65	0	0	0	0.9
2002	147	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	99.33	0.04	0	0	0	0.73
2002	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	156	23	1414	329.196	-425.335	D	7.639	7.639	0	3.4	96.16	0.08	0	0	0	0.84
2002	157	23	2694	327.861	-425.964	D	7.64	7.639	0.001	3.4	98.75	0.32	0	0	0	0.95
2002	158	23	2704	329.056	-425.092	D	7.64	7.639	0.001	3.4	99.05	0.05	0	0	0	0.95
2002	159	23	15	319.038	-443.267	D	7.639	7.639	0	3.4	101.78	0.03	0	0	0	0.47
2002	160	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	21.88	0	0	0	0	0.09
2002	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	164	23	2704	329.056	-425.092	D	7.639	7.639	0	3.4	95.29	0.01	0	0	0	0.71
2002	165	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	98.4	0.53	0	0	0	1.07
2002	166	23	2785	339.88	-426.232	D	7.64	7.639	0.001	3.4	95.35	0.7	0	0	0	4.01
2002	167	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	98.78	0.06	0	0	0	1.28
2002	168	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	98.74	0.11	0	0	0	1.19
2002	169	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	99.16	0.03	0	0	0	0.81
2002	170	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.7	0.03	0	0	0	0.64
2002	171	23	2041	333.901	-424.879	D	7.639	7.639	0	3.4	11.84	0	0	0	0	0.08
2002	172	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	179	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	98.6	0.07	0	0	0	0.89
2002	180	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	96.78	0.05	0	0	0	0.67
2002	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	187	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	188	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	192	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	98.96	0.28	0	0	0	0.81
2002	193	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	99.24	0.12	0	0	0	0.65
2002	194	23	2684	326.713	-427.014	D	7.641	7.639	0.002	3.4	99	0.41	0	0	0	0.61
2002	195	23	2588	318.452	-445.8	D	7.639	7.639	0.001	3.4	99.49	0.08	0	0	0	0.57
2002	196	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	99.28	0.33	0	0	0	0.59
2002	197	23	2588	318.452	-445.8	D	7.639	7.639	0	3.4	99.48	0.12	0	0	0	0.54
2002	198	23	1048	326.791	-427.189	D	7.639	7.639	0	3.4	99.27	0.02	0	0	0	0.57
2002	199	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	101.31	0.03	0	0	0	0.57
2002	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	204	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	116.13	0.01	0	0	0	1.24
2002	205	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	99.23	0.04	0	0	0	0.89
2002	206	23	2589	318.383	-445.593	D	7.64	7.639	0.001	3.4	99.16	0.14	0	0	0	0.69
2002	207	23	1242	327.988	-426.138	D	7.64	7.639	0.001	3.4	99.3	0.03	0	0	0	0.64
2002	208	23	2413	339.406	-425.637	D	7.639	7.639	0	3.4	99.59	0.03	0	0	0	0.54
2002	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	214	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	215	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	216	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	217	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	218	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	219	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	226	23	2758	335.862	-424.454	D	7.639	7.639	0	3.4	100.38	0.03	0	0	0	1.16
2002	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	236	23	2704	329.056	-425.092	D	7.642	7.639	0.003	3.4	99.06	0.04	0	0	0	0.96
2002	237	23	2789	340.496	-426.449	D	7.65	7.639	0.011	3.4	98.88	0.37	0	0	0	0.74
2002	238	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	99.37	0.06	0	0	0	0.65
2002	239	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	242	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	247	23	2781	339.842	-425.379	D	7.731	7.731	0	3.6	99.33	0.03	0	0	0	1.26
2002	248	23	2235	335.628	-424.554	D	7.731	7.731	0	3.6	98.74	0.03	0	0	0	0.9
2002	249	23	199	320.795	-437.944	D	7.731	7.731	0	3.6	98.3	0.01	0	0	0	0.71
2002	250	23	46	319.469	-441.749	D	7.731	7.731	0	3.6	70.9	0	0	0	0	0.48
2002	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	254	23	2789	340.496	-426.449	D	7.734	7.731	0.003	3.6	97.83	0.4	0	0	0	1.75

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	255	23	375	322.611	-445.359	D	7.731	7.731	0	3.6	98.51	0.05	0	0	0	1.17
2002	256	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	257	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	258	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	101.32	0.18	0	0	0	1.08
2002	259	23	2588	318.452	-445.8	D	7.732	7.731	0.001	3.6	98.87	0.13	0	0	0	0.95
2002	260	23	1	318.65	-445.782	D	7.739	7.731	0.008	3.6	99.08	0.19	0	0	0	0.72
2002	261	23	2789	340.496	-426.449	D	7.732	7.731	0.002	3.6	99.22	0.24	0	0	0	0.61
2002	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	265	23	2788	340.294	-426.448	D	7.731	7.731	0	3.6	97.95	0.14	0	0	0	1.25
2002	266	23	89	319.9	-440.231	D	7.731	7.731	0	3.6	95.84	0.08	0	0	0	1.63
2002	267	23	2684	326.713	-427.014	D	7.731	7.731	0	3.6	98.27	0.29	0	0	0	1.67
2002	268	23	2417	339.654	-425.626	D	7.731	7.731	0	3.6	98.01	0.24	0	0	0	1.14
2002	269	23	1242	327.988	-426.138	D	7.731	7.731	0	3.6	97.57	0.11	0	0	0	0.82
2002	270	23	2694	327.861	-425.964	D	7.731	7.731	0	3.6	98.41	0.05	0	0	0	1.37
2002	271	23	2694	327.861	-425.964	D	7.731	7.731	0	3.6	98.73	0.16	0	0	0	1.11
2002	272	23	1414	329.196	-425.335	D	7.731	7.731	0	3.6	96.11	0.03	0	0	0	0.57
2002	273	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	77.81	0	0	0	0	0.31
2002	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	278	23	16	319.027	-443.017	D	7.593	7.593	0.001	3.3	96	1.5	0	0	0	2.42
2002	279	23	2571	322.646	-445.476	D	7.593	7.593	0	3.3	98.87	0.22	0	0	0	1.02
2002	280	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	95	1.63	0	0	0	3.46
2002	281	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	283	23	2127	334.657	-425.096	D	7.593	7.593	0	3.3	103.84	0.67	0	0	0	0.66
2002	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	102.48	0.56	0	0	0	0.54
2002	285	23	1044	326.834	-428.186	D	7.593	7.593	0	3.3	84.83	3.39	0	0	0	1.5
2002	286	23	2589	318.383	-445.593	D	7.593	7.593	0	3.3	95.91	3.01	0	0	0	1.2
2002	287	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	288	23	2788	340.294	-426.448	D	7.593	7.593	0	3.3	94.09	1.06	0	0	0	4.63
2002	289	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	97.84	0.53	0	0	0	1.83
2002	290	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	77.36	0.03	0	0	0	1.02
2002	291	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	98.75	0.54	0	0	0	0.97
2002	292	23	2781	339.842	-425.379	D	7.594	7.593	0.001	3.3	95.9	2.63	0	0	0	1.46
2002	293	23	2588	318.452	-445.8	D	7.594	7.593	0.002	3.3	97.36	1.92	0	0	0	0.8

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	294	23	2589	318.383	-445.593	D	7.593	7.593	0	3.3	99.21	0.7	0	0	0	0.66
2002	295	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	99.63	0.42	0	0	0	0.55
2002	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	99.99	0.2	0	0	0	0.55
2002	297	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	298	23	2628	320.933	-436.998	D	7.597	7.593	0.004	3.3	95.81	2.87	0	0	0	1.34
2002	299	23	2789	340.496	-426.449	D	7.613	7.593	0.021	3.3	95.39	3.39	0	0	0	1.22
2002	300	23	2588	318.452	-445.8	D	7.604	7.593	0.011	3.3	97.41	1.69	0	0	0	0.92
2002	301	23	2628	320.933	-436.998	D	7.596	7.593	0.004	3.3	97.94	1.46	0	0	0	0.64
2002	302	23	2588	318.452	-445.8	D	7.595	7.593	0.003	3.3	98.29	1.18	0	0	0	0.59
2002	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	97.8	0.94	0	0	0	0.65
2002	304	23	2588	318.452	-445.8	D	7.594	7.593	0.001	3.3	94.66	4.25	0	0	0	1.11
2002	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2002	306	23	2704	329.056	-425.092	D	7.548	7.546	0.001	3.2	91.07	6.53	0	0	0	2.52
2002	307	23	2756	335.398	-424.515	D	7.546	7.546	0	3.2	95.31	3.92	0	0	0	1.08
2002	308	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	96.81	2.54	0	0	0	0.8
2002	309	23	2781	339.842	-425.379	D	7.547	7.546	0.001	3.2	97.12	2.4	0	0	0	0.66
2002	310	23	2789	340.496	-426.449	D	7.548	7.546	0.001	3.2	96.17	2.88	0	0	0	1.02
2002	311	23	2156	335.416	-431.058	D	7.546	7.546	0	3.2	92.28	0.82	0	0	0	0.77
2002	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	315	23	2781	339.842	-425.379	D	7.546	7.546	0	3.2	92.02	2.96	0	0	0	2.8
2002	316	23	2588	318.452	-445.8	D	7.548	7.546	0.002	3.2	89.56	6.93	0	0	0	3.64
2002	317	23	2414	339.687	-426.374	D	7.546	7.546	0	3.2	91.52	4.2	0	0	0	3.42
2002	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	319	23	9	319.103	-444.763	D	7.547	7.546	0.001	3.2	91.95	6.3	0	0	0	1.79
2002	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	104.25	6.13	0	0	0	3.92
2002	321	23	2781	339.842	-425.379	D	7.546	7.546	0	3.2	88.21	9.12	0	0	0	2.93
2002	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	323	23	2789	340.496	-426.449	D	7.55	7.546	0.004	3.2	89.8	6.5	0	0	0	3.73
2002	324	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	95.58	2.34	0	0	0	3.05
2002	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	326	23	2684	326.713	-427.014	D	7.546	7.546	0	3.2	89.67	6.17	0	0	0	4.12
2002	327	23	2758	335.862	-424.454	D	7.548	7.546	0.001	3.2	90.56	6.86	0	0	0	2.77
2002	328	23	1242	327.988	-426.138	D	7.546	7.546	0	3.2	97.71	2.84	0	0	0	1.98
2002	329	23	2571	322.646	-445.476	D	7.547	7.546	0	3.2	94.72	4.59	0	0	0	1.01
2002	330	23	1	318.65	-445.782	D	7.547	7.546	0	3.2	91.72	6.02	0	0	0	2.51
2002	331	23	2	318.639	-445.533	D	7.546	7.546	0	3.2	92.57	6.38	0	0	0	1.89
2002	332	23	1282	328.236	-426.127	D	7.546	7.546	0	3.2	95.34	3.63	0	0	0	1.39

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	333	23	2418	339.946	-426.612	D	7.546	7.546	0	3.2	99.88	2.43	0	0	0	1.29
2002	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	335	23	2307	336.654	-425.258	D	7.591	7.591	0	3.296	6.74	1.38	0	0	0	0.54
2002	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	337	23	2684	326.713	-427.014	D	7.593	7.593	0	3.3	87.32	10.14	0	0	0	2.79
2002	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	339	23	2628	320.933	-436.998	D	7.593	7.593	0	3.3	83.33	9.63	0	0	0	2.83
2002	340	23	1	318.65	-445.782	D	7.594	7.593	0.001	3.3	88.23	9.23	0	0	0	2.57
2002	341	23	1864	333.097	-434.906	D	7.593	7.593	0	3.3	95.74	5.24	0	0	0	1.74
2002	342	23	2758	335.862	-424.454	D	7.593	7.593	0	3.3	93.96	3.53	0	0	0	1.13
2002	343	23	1415	329.185	-425.086	D	7.594	7.593	0.001	3.3	95.6	3.61	0	0	0	0.91
2002	344	23	2684	326.713	-427.014	D	7.593	7.593	0	3.3	96.75	2.84	0	0	0	0.65
2002	345	23	1415	329.185	-425.086	D	7.593	7.593	0	3.3	97.22	2.39	0	0	0	0.56
2002	346	23	1351	328.744	-426.354	D	7.593	7.593	0	3.3	96.53	1.86	0	0	0	0.54
2002	347	23	2589	318.383	-445.593	D	7.593	7.593	0.001	3.3	96.88	2.36	0	0	0	0.95
2002	348	23	2588	318.452	-445.8	D	7.6	7.593	0.007	3.3	95.06	3.65	0	0	0	1.31
2002	349	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	97.27	1.97	0	0	0	0.96
2002	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	356	23	2235	335.628	-424.554	D	7.593	7.593	0.001	3.3	80.53	13.8	0	0	0	5.58
2002	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	89.25	8.84	0	0	0	2.14
2002	358	23	1	318.65	-445.782	D	7.593	7.593	0.001	3.3	89.51	8.94	0	0	0	1.47
2002	359	23	2588	318.452	-445.8	D	7.593	7.593	0.001	3.3	87.16	9.84	0	0	0	3.09
2002	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	365	23	2706	329.518	-425.046	D	7.593	7.593	0.001	3.3	93.38	5.3	0	0	0	1.35
									0.025							
TRIGEN KC											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	2628	320.933	-436.998	D	7.6	7.593	0.007	3.3	88.06	11.53	0	0	0	0.42

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	2	23	2749	333.775	-424.726	D	7.632	7.593	0.04	3.3	92.19	7.5	0	0	0	0.31
2002	3	23	2789	340.496	-426.449	D	7.606	7.593	0.014	3.3	93.94	5.81	0	0	0	0.25
2002	4	23	2789	340.496	-426.449	D	7.596	7.593	0.003	3.3	95.82	4.08	0	0	0	0.13
2002	5	23	2409	339.158	-425.648	D	7.593	7.593	0	3.3	81.94	2.85	0	0	0	0.06
2002	6	23	2781	339.842	-425.379	D	7.603	7.593	0.011	3.3	95.9	3.93	0	0	0	0.18
2002	7	23	2429	338.563	-428.651	D	7.61	7.593	0.017	3.3	92.5	7.09	0	0	0	0.41
2002	8	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	92.16	7.68	0	0	0	0.24
2002	9	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	10	23	2704	329.056	-425.092	D	7.6	7.593	0.007	3.3	97.53	2.31	0	0	0	0.16
2002	11	23	2686	327.19	-427.108	D	7.611	7.593	0.018	3.3	86.45	12.81	0	0	0	0.73
2002	12	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	95.06	4.73	0	0	0	0.25
2002	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	16	23	2397	338.413	-425.68	D	7.593	7.593	0	3.3	88.32	5.56	0	0	0	0.2
2002	17	23	2589	318.383	-445.593	D	7.602	7.593	0.009	3.3	89.96	9.59	0	0	0	0.47
2002	18	23	2694	327.861	-425.964	D	7.593	7.593	0.001	3.3	94.67	5.36	0	0	0	0.13
2002	19	23	2694	327.861	-425.964	D	7.599	7.593	0.007	3.3	96.48	3.4	0	0	0	0.14
2002	20	23	2758	335.862	-424.454	D	7.654	7.593	0.061	3.3	95.42	4.46	0	0	0	0.12
2002	21	23	2154	334.894	-424.836	D	7.593	7.593	0	3.3	96.22	2.56	0	0	0	0.05
2002	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	24	23	2600	318.952	-443.12	D	7.596	7.593	0.004	3.3	95.71	4.16	0	0	0	0.12
2002	25	23	2578	320.919	-445.61	D	7.598	7.593	0.006	3.3	93.61	6.11	0	0	0	0.27
2002	26	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	97.78	2.34	0	0	0	0.16
2002	27	23	2301	336.719	-426.754	D	7.593	7.593	0	3.3	91.7	1.28	0	0	0	0.11
2002	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	29	23	2704	329.056	-425.092	D	7.593	7.593	0.001	3.3	95.41	4.49	0	0	0	0.16
2002	30	23	2704	329.056	-425.092	D	7.643	7.593	0.05	3.3	95.8	4.09	0	0	0	0.11
2002	31	23	2589	318.383	-445.593	D	7.654	7.593	0.061	3.3	97.58	2.36	0	0	0	0.06
2002	32	23	2781	339.842	-425.379	D	7.461	7.459	0.003	3.013	97.68	2.27	0	0	0	0.03
2002	33	23	2789	340.496	-426.449	D	7.453	7.453	0	3	97.43	2.55	0	0	0	0.21
2002	34	23	2789	340.496	-426.449	D	7.453	7.453	0.001	3	97.96	2.27	0	0	0	0.13
2002	35	23	2704	329.056	-425.092	D	7.455	7.453	0.002	3	78.77	20.07	0	0	0	1.19
2002	36	23	1	318.65	-445.782	D	7.453	7.453	0	3	101.9	5.41	0	0	0	0.23
2002	37	23	234	321.01	-437.185	D	7.453	7.453	0	3	97.23	3.65	0	0	0	0.12
2002	38	23	2781	339.842	-425.379	D	7.455	7.453	0.003	3	97.32	2.7	0	0	0	0.15
2002	39	23	2789	340.496	-426.449	D	7.455	7.453	0.002	3	97.85	2.17	0	0	0	0.1
2002	40	23	2128	334.646	-424.846	D	7.453	7.453	0	3	99.04	1.22	0	0	0	0.04

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	41	23	2781	339.842	-425.379	D	7.453	7.453	0	3	97.98	2.59	0	0	0	0.25
2002	42	23	2789	340.496	-426.449	D	7.456	7.453	0.003	3	94.55	5.14	0	0	0	0.36
2002	43	23	2758	335.862	-424.454	D	7.456	7.453	0.003	3	95.67	4.06	0	0	0	0.32
2002	44	23	2589	318.383	-445.593	D	7.455	7.453	0.002	3	94.58	5.12	0	0	0	0.31
2002	45	23	2704	329.056	-425.092	D	7.456	7.453	0.004	3	93.25	6.55	0	0	0	0.26
2002	46	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	47	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	48	23	1979	333.536	-427.893	D	7.459	7.453	0.006	3	91.92	7.44	0	0	0	0.68
2002	49	23	2064	334.259	-427.361	D	7.455	7.453	0.002	3	96.77	3.03	0	0	0	0.21
2002	50	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	53	23	2589	318.383	-445.593	D	7.454	7.453	0.001	3	88.4	10.84	0	0	0	0.9
2002	54	23	2628	320.933	-436.998	D	7.457	7.453	0.004	3	95.39	4.43	0	0	0	0.24
2002	55	23	2789	340.496	-426.449	D	7.453	7.453	0.001	3	97.89	2.16	0	0	0	0.12
2002	56	23	2588	318.452	-445.8	D	7.459	7.453	0.006	3	93.58	6.18	0	0	0	0.27
2002	57	23	1415	329.185	-425.086	D	7.456	7.453	0.003	3	90.78	8.71	0	0	0	0.51
2002	58	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0
2002	61	23	2781	339.842	-425.379	D	7.325	7.311	0.015	2.7	95.67	4.13	0	0	0	0.23
2002	62	23	2789	340.496	-426.449	D	7.311	7.311	0.001	2.7	96.82	2.99	0	0	0	0.21
2002	63	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	70	23	2789	340.496	-426.449	D	7.312	7.311	0.002	2.7	94.78	5.04	0	0	0	0.21
2002	71	23	168	320.568	-438.453	D	7.311	7.311	0	2.7	99.61	0.47	0	0	0	0.29
2002	72	23	2789	340.496	-426.449	D	7.319	7.311	0.009	2.7	97.84	1.99	0	0	0	0.18
2002	73	23	2780	339.614	-425.419	D	7.311	7.311	0	2.7	99.39	0.39	0	0	0	0.09
2002	74	23	2600	318.952	-443.12	D	7.315	7.311	0.005	2.7	95.02	4.79	0	0	0	0.22
2002	75	23	2571	322.646	-445.476	D	7.312	7.311	0.001	2.7	97.19	2.73	0	0	0	0.16
2002	76	23	2789	340.496	-426.449	D	7.311	7.311	0	2.7	98.16	2.14	0	0	0	0.04
2002	77	23	2327	337.259	-427.729	D	7.311	7.311	0	2.7	110.97	0.74	0	0	0	0.1
2002	78	23	2406	339.19	-426.396	D	7.311	7.311	0	2.7	99.52	1.24	0	0	0	0.03
2002	79	23	16	319.027	-443.017	D	7.311	7.311	0	2.7	97.55	2.78	0	0	0	0.08

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	80	23	2586	318.945	-445.762	D	7.316	7.311	0.005	2.7	95.31	4.38	0	0	0	0.31
2002	81	23	2684	326.713	-427.014	D	7.312	7.311	0.002	2.7	91.46	8.27	0	0	0	0.46
2002	82	23	2704	329.056	-425.092	D	7.316	7.311	0.006	2.7	93.69	6.14	0	0	0	0.21
2002	83	23	2417	339.654	-425.626	D	7.311	7.311	0	2.7	98.2	1.46	0	0	0	0.09
2002	84	23	1415	329.185	-425.086	D	7.311	7.311	0	2.7	98.48	2.16	0	0	0	0.05
2002	85	23	2787	340.091	-426.447	D	7.312	7.311	0.001	2.7	98.21	1.8	0	0	0	0.03
2002	86	23	2684	326.713	-427.014	D	7.32	7.311	0.009	2.7	97.46	2.42	0	0	0	0.13
2002	87	23	2626	320.826	-437.417	D	7.311	7.311	0	2.7	99.28	0.39	0	0	0	0.11
2002	88	23	2684	326.713	-427.014	D	7.315	7.311	0.005	2.7	99.71	0.2	0	0	0	0.11
2002	89	23	2588	318.452	-445.8	D	7.314	7.311	0.004	2.7	99.62	0.3	0	0	0	0.08
2002	90	23	1415	329.185	-425.086	D	7.311	7.311	0	2.7	99.47	0.35	0	0	0	0.32
2002	91	23	2781	339.842	-425.379	D	7.363	7.356	0.006	2.796	98.55	1.25	0	0	0	0.22
2002	92	23	2789	340.496	-426.449	D	7.377	7.358	0.019	2.8	98.79	1.04	0	0	0	0.17
2002	93	23	2571	322.646	-445.476	D	7.36	7.358	0.002	2.8	99.19	0.72	0	0	0	0.1
2002	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	96	23	2780	339.614	-425.419	D	7.359	7.358	0.001	2.8	99.25	0.72	0	0	0	0.12
2002	97	23	2789	340.496	-426.449	D	7.359	7.358	0	2.8	99.23	0.54	0	0	0	0.08
2002	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	99	23	2589	318.383	-445.593	D	7.4	7.358	0.041	2.8	97.76	2.12	0	0	0	0.12
2002	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	103	23	2758	335.862	-424.454	D	7.359	7.358	0.001	2.8	97.77	2.13	0	0	0	0.12
2002	104	23	1415	329.185	-425.086	D	7.358	7.358	0	2.8	99.7	0.18	0	0	0	0.08
2002	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	110	23	2694	327.861	-425.964	D	7.359	7.358	0	2.8	99.34	1.07	0	0	0	0.12
2002	111	23	2758	335.862	-424.454	D	7.362	7.358	0.004	2.8	99.01	0.96	0	0	0	0.1
2002	112	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	104.54	0.34	0	0	0	0.22
2002	113	23	2468	334.002	-434.887	D	7.364	7.358	0.006	2.8	99.62	0.26	0	0	0	0.12
2002	114	23	2758	335.862	-424.454	D	7.358	7.358	0	2.8	100.14	0.67	0	0	0	0.24
2002	115	23	2684	326.713	-427.014	D	7.36	7.358	0.001	2.8	98.84	0.95	0	0	0	0.25
2002	116	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	117	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	119	23	2758	335.862	-424.454	D	7.369	7.358	0.011	2.8	99.36	0.46	0	0	0	0.18
2002	120	23	2781	339.842	-425.379	D	7.361	7.358	0.003	2.8	99.87	0.11	0	0	0	0.1
2002	121	23	1517	329.93	-425.053	D	7.627	7.627	0	3.375	95.95	0.21	0	0	0	0.05
2002	122	23	2468	334.002	-434.887	D	7.684	7.639	0.045	3.4	98.26	1.66	0	0	0	0.09
2002	123	23	2588	318.452	-445.8	D	7.664	7.639	0.025	3.4	99.66	0.3	0	0	0	0.05
2002	124	23	2588	318.452	-445.8	D	7.675	7.639	0.036	3.4	99.45	0.52	0	0	0	0.04
2002	125	23	2571	322.646	-445.476	D	7.658	7.639	0.019	3.4	99.76	0.21	0	0	0	0.03
2002	126	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	100.01	0.03	0	0	0	0.02
2002	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	129	23	2628	320.933	-436.998	D	7.64	7.639	0.001	3.4	94.84	4.94	0	0	0	0.3
2002	130	23	2684	326.713	-427.014	D	7.64	7.639	0.001	3.4	99.34	0.59	0	0	0	0.14
2002	131	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.57	0.4	0	0	0	0.04
2002	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	133	23	2706	329.518	-425.046	D	7.651	7.639	0.013	3.4	98.06	1.88	0	0	0	0.06
2002	134	23	1	318.65	-445.782	D	7.641	7.639	0.002	3.4	99.41	0.38	0	0	0	0.2
2002	135	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	99.71	0.22	0	0	0	0.1
2002	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	137	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	99.05	0.69	0	0	0	0.07
2002	138	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	139	23	2684	326.713	-427.014	D	7.647	7.639	0.009	3.4	99.66	0.19	0	0	0	0.15
2002	140	23	2789	340.496	-426.449	D	7.669	7.639	0.03	3.4	98.97	0.88	0	0	0	0.15
2002	141	23	2588	318.452	-445.8	D	7.65	7.639	0.011	3.4	99.73	0.18	0	0	0	0.1
2002	142	23	2627	320.879	-437.207	D	7.643	7.639	0.004	3.4	99.81	0.13	0	0	0	0.06
2002	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	145	23	2704	329.056	-425.092	D	7.66	7.639	0.021	3.4	99.72	0.2	0	0	0	0.09
2002	146	23	2789	340.496	-426.449	D	7.654	7.639	0.015	3.4	99.65	0.3	0	0	0	0.06
2002	147	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.91	0.19	0	0	0	0.04
2002	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	156	23	2704	329.056	-425.092	D	7.639	7.639	0	3.4	99.42	0.1	0	0	0	0.09
2002	157	23	2684	326.713	-427.014	D	7.645	7.639	0.006	3.4	99.35	0.58	0	0	0	0.07

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	158	23	2628	320.933	-436.998	D	7.64	7.639	0.001	3.4	100.05	0.03	0	0	0	0.08
2002	159	23	2623	320.666	-438.044	D	7.639	7.639	0	3.4	99.74	0.02	0	0	0	0.04
2002	160	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	102.58	0	0	0	0	0.04
2002	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	164	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.9	0.01	0	0	0	0.05
2002	165	23	2710	330.44	-424.955	D	7.663	7.639	0.024	3.4	99.49	0.43	0	0	0	0.08
2002	166	23	2776	338.702	-425.583	D	7.641	7.639	0.002	3.4	97.8	1.5	0	0	0	0.78
2002	167	23	2571	322.646	-445.476	D	7.64	7.639	0.001	3.4	99.85	0.05	0	0	0	0.11
2002	168	23	2781	339.842	-425.379	D	7.652	7.639	0.013	3.4	99.79	0.11	0	0	0	0.11
2002	169	23	2789	340.496	-426.449	D	7.652	7.639	0.013	3.4	99.91	0.03	0	0	0	0.07
2002	170	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	99.93	0.04	0	0	0	0.06
2002	171	23	946	326.21	-430.962	D	7.639	7.639	0	3.4	83.61	0.01	0	0	0	0.05
2002	172	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	179	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	100.03	0.02	0	0	0	0.08
2002	180	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.88	0.03	0	0	0	0.07
2002	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	187	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	188	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	192	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.75	0.21	0	0	0	0.08
2002	193	23	2789	340.496	-426.449	D	7.647	7.639	0.008	3.4	99.86	0.09	0	0	0	0.06
2002	194	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.66	0.34	0	0	0	0.04
2002	195	23	2576	321.413	-445.571	D	7.64	7.639	0.001	3.4	99.89	0.06	0	0	0	0.04
2002	196	23	201	321.37	-445.413	D	7.639	7.639	0	3.4	100.08	0.12	0	0	0	0.04

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	197	23	2350	337.8	-428.705	D	7.639	7.639	0	3.4	99.97	0.02	0	0	0	0.04
2002	198	23	2278	336.558	-428.759	D	7.639	7.639	0	3.4	98.91	0.03	0	0	0	0.04
2002	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	204	23	2758	335.862	-424.454	D	7.642	7.639	0.003	3.4	99.85	0.03	0	0	0	0.08
2002	205	23	2571	322.646	-445.476	D	7.65	7.639	0.011	3.4	99.87	0.07	0	0	0	0.06
2002	206	23	2588	318.452	-445.8	D	7.643	7.639	0.004	3.4	99.91	0.06	0	0	0	0.05
2002	207	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	99.93	0.02	0	0	0	0.05
2002	208	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	100.05	0.02	0	0	0	0.04
2002	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	214	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	215	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	216	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	217	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	218	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	96.54	0.07	0	0	0	0.08
2002	219	23	2684	326.713	-427.014	D	7.639	7.639	0	3.4	100.03	0.06	0	0	0	0.07
2002	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	236	23	2781	339.842	-425.379	D	7.686	7.639	0.047	3.4	99.84	0.07	0	0	0	0.1
2002	237	23	2468	334.002	-434.887	D	7.658	7.639	0.019	3.4	99.81	0.13	0	0	0	0.07
2002	238	23	114	320.625	-445.446	D	7.639	7.639	0	3.4	88.05	0.05	0	0	0	0.03
2002	239	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	242	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	247	23	2757	335.63	-424.484	D	7.731	7.731	0	3.6	99.8	0.01	0	0	0	0.13
2002	248	23	2783	339.861	-425.806	D	7.731	7.731	0.001	3.6	99.82	0.01	0	0	0	0.08
2002	249	23	2588	318.452	-445.8	D	7.731	7.731	0	3.6	99.83	0.01	0	0	0	0.06
2002	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	34.44	0	0	0	0	0.02
2002	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	254	23	2789	340.496	-426.449	D	7.737	7.731	0.007	3.6	99.16	0.63	0	0	0	0.2
2002	255	23	2571	322.646	-445.476	D	7.731	7.731	0	3.6	99.32	0.01	0	0	0	0.12
2002	256	23	2589	318.383	-445.593	D	7.731	7.731	0.001	3.6	99.88	0.02	0	0	0	0.08
2002	257	23	2694	327.861	-425.964	D	7.731	7.731	0	3.6	99.29	0.03	0	0	0	0.06
2002	258	23	2684	326.713	-427.014	D	7.742	7.731	0.012	3.6	99.79	0.12	0	0	0	0.09
2002	259	23	2586	318.945	-445.762	D	7.777	7.731	0.047	3.6	99.72	0.21	0	0	0	0.07
2002	260	23	2758	335.862	-424.454	D	7.77	7.731	0.039	3.6	99.8	0.14	0	0	0	0.06
2002	261	23	2781	339.842	-425.379	D	7.732	7.731	0.001	3.6	99.85	0.14	0	0	0	0.05
2002	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	265	23	2589	318.383	-445.593	D	7.738	7.731	0.007	3.6	99.63	0.26	0	0	0	0.12
2002	266	23	2684	326.713	-427.014	D	7.731	7.731	0	3.6	99.68	0.15	0	0	0	0.22
2002	267	23	2758	335.862	-424.454	D	7.732	7.731	0.001	3.6	99.48	0.27	0	0	0	0.15
2002	268	23	2781	339.842	-425.379	D	7.733	7.731	0.002	3.6	99.7	0.17	0	0	0	0.09
2002	269	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	270	23	2684	326.713	-427.014	D	7.737	7.731	0.006	3.6	99.83	0.03	0	0	0	0.14
2002	271	23	2704	329.056	-425.092	D	7.75	7.731	0.019	3.6	99.78	0.12	0	0	0	0.1
2002	272	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	273	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	278	23	2588	318.452	-445.8	D	7.594	7.593	0.002	3.3	97.23	2.49	0	0	0	0.36
2002	279	23	2571	322.646	-445.476	D	7.597	7.593	0.004	3.3	99.67	0.23	0	0	0	0.14
2002	280	23	2684	326.713	-427.014	D	7.599	7.593	0.007	3.3	97.77	1.77	0	0	0	0.48
2002	281	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	283	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	99.3	0.39	0	0	0	0.05
2002	284	23	1951	333.842	-434.874	D	7.593	7.593	0	3.3	99.75	0.32	0	0	0	0.04
2002	285	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	286	23	2628	320.933	-436.998	D	7.603	7.593	0.011	3.3	98.06	1.84	0	0	0	0.1
2002	287	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	288	23	2571	322.646	-445.476	D	7.595	7.593	0.002	3.3	98.88	0.79	0	0	0	0.38
2002	289	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	97.44	0.25	0	0	0	0.11
2002	290	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	99.53	0.19	0	0	0	0.13
2002	291	23	2571	322.646	-445.476	D	7.597	7.593	0.004	3.3	99.65	0.28	0	0	0	0.09
2002	292	23	2704	329.056	-425.092	D	7.597	7.593	0.004	3.3	95.36	4.47	0	0	0	0.16
2002	293	23	1	318.65	-445.782	D	7.604	7.593	0.012	3.3	97.96	1.96	0	0	0	0.07
2002	294	23	2588	318.452	-445.8	D	7.595	7.593	0.003	3.3	99.31	0.68	0	0	0	0.06
2002	295	23	2588	318.452	-445.8	D	7.595	7.593	0.002	3.3	99.57	0.44	0	0	0	0.04
2002	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	100.15	0.25	0	0	0	0.04
2002	297	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	298	23	2704	329.056	-425.092	D	7.606	7.593	0.013	3.3	96.85	3.01	0	0	0	0.15
2002	299	23	2789	340.496	-426.449	D	7.648	7.593	0.055	3.3	96.92	2.96	0	0	0	0.12
2002	300	23	2588	318.452	-445.8	D	7.624	7.593	0.031	3.3	97.48	2.42	0	0	0	0.11
2002	301	23	2628	320.933	-436.998	D	7.607	7.593	0.015	3.3	98.86	1.09	0	0	0	0.06
2002	302	23	2588	318.452	-445.8	D	7.606	7.593	0.013	3.3	99.07	0.87	0	0	0	0.05
2002	303	23	2588	318.452	-445.8	D	7.604	7.593	0.011	3.3	99.07	0.85	0	0	0	0.09
2002	304	23	2588	318.452	-445.8	D	7.627	7.593	0.034	3.3	97.01	2.9	0	0	0	0.09
2002	305	23	2588	318.452	-445.8	D	7.548	7.548	0	3.204	96.89	2.54	0	0	0	0.13
2002	306	23	2758	335.862	-424.454	D	7.554	7.546	0.007	3.2	95.79	4	0	0	0	0.23
2002	307	23	2758	335.862	-424.454	D	7.547	7.546	0	3.2	97.95	2.29	0	0	0	0.08
2002	308	23	2781	339.842	-425.379	D	7.551	7.546	0.005	3.2	97.81	2.11	0	0	0	0.1
2002	309	23	2781	339.842	-425.379	D	7.553	7.546	0.007	3.2	98.32	1.64	0	0	0	0.06
2002	310	23	2781	339.842	-425.379	D	7.566	7.546	0.02	3.2	97.42	2.5	0	0	0	0.09
2002	311	23	2787	340.091	-426.447	D	7.546	7.546	0	3.2	98.79	0.39	0	0	0	0.06
2002	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	314	23	2781	339.842	-425.379	D	7.546	7.546	0	3.2	99.3	0.48	0	0	0	0.35
2002	315	23	2781	339.842	-425.379	D	7.547	7.546	0.001	3.2	92.14	7.26	0	0	0	0.71
2002	316	23	2781	339.842	-425.379	D	7.553	7.546	0.006	3.2	94.26	5.39	0	0	0	0.36
2002	317	23	2789	340.496	-426.449	D	7.55	7.546	0.004	3.2	95.1	4.6	0	0	0	0.32
2002	318	23	2418	339.946	-426.612	D	7.546	7.546	0	3.2	95.35	1.09	0	0	0	0.18
2002	319	23	2788	340.294	-426.448	D	7.548	7.546	0.002	3.2	94.75	5.13	0	0	0	0.17
2002	320	23	2589	318.383	-445.593	D	7.546	7.546	0	3.2	95.06	5.08	0	0	0	0.33
2002	321	23	2789	340.496	-426.449	D	7.55	7.546	0.003	3.2	93.29	6.43	0	0	0	0.3
2002	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	323	23	2789	340.496	-426.449	D	7.548	7.546	0.002	3.2	94.29	5.52	0	0	0	0.25
2002	324	23	2468	334.002	-434.887	D	7.546	7.546	0	3.2	99.45	1.81	0	0	0	0.23
2002	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	326	23	2753	334.703	-424.605	D	7.55	7.546	0.004	3.2	95.05	4.51	0	0	0	0.44
2002	327	23	2571	322.646	-445.476	D	7.549	7.546	0.003	3.2	95.31	4.5	0	0	0	0.23
2002	328	23	2694	327.861	-425.964	D	7.546	7.546	0	3.2	99.83	1.69	0	0	0	0.15
2002	329	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	97.34	2.72	0	0	0	0.08
2002	330	23	2589	318.383	-445.593	D	7.548	7.546	0.002	3.2	96.04	3.81	0	0	0	0.22
2002	331	23	2589	318.383	-445.593	D	7.548	7.546	0.002	3.2	95.93	4.01	0	0	0	0.16
2002	332	23	2628	320.933	-436.998	D	7.562	7.546	0.015	3.2	95.59	4.27	0	0	0	0.15
2002	333	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	98.58	1.55	0	0	0	0.11
2002	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	335	23	2781	339.842	-425.379	D	7.591	7.591	0.001	3.296	81.37	17.82	0	0	0	1.07
2002	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	337	23	2589	318.383	-445.593	D	7.608	7.593	0.015	3.3	94.28	5.49	0	0	0	0.24
2002	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	87.66	5.57	0	0	0	0.1
2002	339	23	2628	320.933	-436.998	D	7.593	7.593	0	3.3	92.31	6.93	0	0	0	0.26
2002	340	23	2781	339.842	-425.379	D	7.599	7.593	0.006	3.3	93.77	6	0	0	0	0.22
2002	341	23	2467	334.065	-434.651	D	7.593	7.593	0	3.3	95.46	3.98	0	0	0	0.13
2002	342	23	2758	335.862	-424.454	D	7.593	7.593	0	3.3	97.73	2.21	0	0	0	0.09
2002	343	23	2694	327.861	-425.964	D	7.602	7.593	0.009	3.3	97.69	2.26	0	0	0	0.07
2002	344	23	2684	326.713	-427.014	D	7.596	7.593	0.003	3.3	98.27	1.75	0	0	0	0.05
2002	345	23	1415	329.185	-425.086	D	7.595	7.593	0.002	3.3	98.49	1.49	0	0	0	0.04
2002	346	23	2154	334.894	-424.836	D	7.593	7.593	0	3.3	98.47	1.26	0	0	0	0.04
2002	347	23	2589	318.383	-445.593	D	7.598	7.593	0.006	3.3	97.51	2.39	0	0	0	0.09
2002	348	23	2588	318.452	-445.8	D	7.626	7.593	0.034	3.3	96.4	3.46	0	0	0	0.15
2002	349	23	2183	335.664	-431.047	D	7.593	7.593	0	3.3	90.94	1.28	0	0	0	0.06
2002	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	353	23	2758	335.862	-424.454	D	7.6	7.593	0.008	3.3	94.43	5.3	0	0	0	0.28
2002	354	23	2468	334.002	-434.887	D	7.593	7.593	0	3.3	94.57	5.09	0	0	0	0.17
2002	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	356	23	2588	318.452	-445.8	D	7.596	7.593	0.004	3.3	90.91	8.81	0	0	0	0.3
2002	357	23	2571	322.646	-445.476	D	7.595	7.593	0.003	3.3	94.29	5.53	0	0	0	0.16
2002	358	23	2571	322.646	-445.476	D	7.599	7.593	0.007	3.3	94.17	5.72	0	0	0	0.12
2002	359	23	2589	318.383	-445.593	D	7.595	7.593	0.003	3.3	93.86	5.91	0	0	0	0.2
2002	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	361	23	2788	340.294	-426.448	D	7.593	7.593	0	3.3	98.37	3.39	0	0	0	0.09
2002	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	365	23	2704	329.056	-425.092	D	7.595	7.593	0.002	3.3	94.73	5.13	0	0	0	0.16
									0.061							
UMC											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	2	23	2789	340.496	-426.449	D	7.596	7.593	0.003	3.3	77.58	22.41	0	0	0	0.05
2002	3	23	2789	340.496	-426.449	D	7.601	7.593	0.009	3.3	80.08	19.88	0	0	0	0.03
2002	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	7	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	9	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	10	23	2789	340.496	-426.449	D	7.701	7.593	0.108	3.3	92.81	7.16	0	0	0	0.03
2002	11	23	2571	322.646	-445.476	D	7.597	7.593	0.004	3.3	93.77	6.2	0	0	0	0.02
2002	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	17	23	2789	340.496	-426.449	D	7.613	7.593	0.021	3.3	82.44	17.54	0	0	0	0.03
2002	18	23	2789	340.496	-426.449	D	7.653	7.593	0.06	3.3	85.11	14.86	0	0	0	0.03
2002	19	23	2684	326.713	-427.014	D	7.642	7.593	0.049	3.3	93.12	6.87	0	0	0	0.02
2002	20	23	2789	340.496	-426.449	D	7.684	7.593	0.092	3.3	94.17	5.82	0	0	0	0.01
2002	21	23	2781	339.842	-425.379	D	7.594	7.593	0.001	3.3	95.32	4.66	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	24	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	25	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	26	23	2468	334.002	-434.887	D	7.593	7.593	0.001	3.3	98.59	1.51	0	0	0	0.01
2002	27	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	97.89	2.13	0	0	0	0.01
2002	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	30	23	2758	335.862	-424.454	D	7.817	7.593	0.224	3.3	91.93	8.05	0	0	0	0.02
2002	31	23	2704	329.056	-425.092	D	8.29	7.593	**0.697**	3.3	93.77	6.22	0	0	0	0.01
2002	32	23	2789	340.496	-426.449	D	7.463	7.459	0.004	3.013	95.05	4.96	0	0	0	0
2002	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	35	23	2789	340.496	-426.449	D	7.453	7.453	0	3	88.25	11.95	0	0	0	0.05
2002	36	23	2704	329.056	-425.092	D	7.477	7.453	0.024	3	86.59	13.4	0	0	0	0.03
2002	37	23	47	319.458	-441.5	D	7.453	7.453	0.001	3	93.21	7.02	0	0	0	0.01
2002	38	23	2789	340.496	-426.449	D	7.456	7.453	0.003	3	93.69	6.37	0	0	0	0.02
2002	39	23	375	322.611	-445.359	D	7.453	7.453	0.001	3	97.05	3.24	0	0	0	0.01
2002	40	23	2781	339.842	-425.379	D	7.453	7.453	0	3	97.51	3	0	0	0	0.01
2002	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	42	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	43	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	44	23	2789	340.496	-426.449	D	7.465	7.453	0.012	3	74.99	24.92	0	0	0	0.1
2002	45	23	2571	322.646	-445.476	D	7.455	7.453	0.002	3	94.77	5.25	0	0	0	0.03
2002	46	23	2789	340.496	-426.449	D	7.457	7.453	0.005	3	93.58	6.42	0	0	0	0.02
2002	47	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	48	23	2789	340.496	-426.449	D	7.454	7.453	0.001	3	96.57	3.47	0	0	0	0.06
2002	49	23	2789	340.496	-426.449	D	7.469	7.453	0.017	3	92.18	7.81	0	0	0	0.03
2002	50	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	53	23	2789	340.496	-426.449	D	7.454	7.453	0.001	3	91.52	8.49	0	0	0	0.05
2002	54	23	2789	340.496	-426.449	D	7.459	7.453	0.006	3	91.93	8.07	0	0	0	0.03
2002	55	23	2789	340.496	-426.449	D	7.454	7.453	0.002	3	95.26	4.82	0	0	0	0.02
2002	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	57	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	58	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	61	23	2588	318.452	-445.8	D	7.344	7.311	0.033	2.7	90.7	9.28	0	0	0	0.02
2002	62	23	2571	322.646	-445.476	D	7.311	7.311	0	2.7	95.31	4.58	0	0	0	0
2002	63	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	70	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	71	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	74	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	75	23	2704	329.056	-425.092	D	7.335	7.311	0.024	2.7	71.77	28.11	0	0	0	0.12
2002	76	23	2694	327.861	-425.964	D	7.357	7.311	0.046	2.7	96.31	3.68	0	0	0	0.01
2002	77	23	2758	335.862	-424.454	D	7.317	7.311	0.007	2.7	96.2	3.81	0	0	0	0.02
2002	78	23	2781	339.842	-425.379	D	7.319	7.311	0.008	2.7	97.7	2.31	0	0	0	0.01
2002	79	23	2704	329.056	-425.092	D	7.52	7.311	0.209	2.7	93.88	6.1	0	0	0	0.02
2002	80	23	2789	340.496	-426.449	D	7.351	7.311	0.041	2.7	94.14	5.84	0	0	0	0.02
2002	81	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	82	23	2418	339.946	-426.612	D	7.311	7.311	0	2.7	96.45	3.85	0	0	0	0.02
2002	83	23	2788	340.294	-426.448	D	7.311	7.311	0	2.7	96.34	3.39	0	0	0	0.01
2002	84	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	107.85	2.9	0	0	0	0.01
2002	85	23	2684	326.713	-427.014	D	7.436	7.311	0.125	2.7	92.9	7.07	0	0	0	0.03
2002	86	23	2468	334.002	-434.887	D	7.315	7.311	0.004	2.7	99.08	0.93	0	0	0	0.02
2002	87	23	2789	340.496	-426.449	D	7.345	7.311	0.034	2.7	97.71	2.28	0	0	0	0.01
2002	88	23	2789	340.496	-426.449	D	7.397	7.311	0.087	2.7	99.13	0.85	0	0	0	0.02
2002	89	23	2571	322.646	-445.476	D	7.324	7.311	0.014	2.7	96.37	3.62	0	0	0	0.02
2002	90	23	2704	329.056	-425.092	D	7.312	7.311	0.002	2.7	99.33	0.67	0	0	0	0.04
2002	91	23	2758	335.862	-424.454	D	7.403	7.356	0.047	2.796	95.98	4	0	0	0	0.03
2002	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	94	23	2789	340.496	-426.449	D	7.368	7.358	0.01	2.8	94.26	5.73	0	0	0	0.03
2002	95	23	2781	339.842	-425.379	D	7.384	7.358	0.025	2.8	96.81	3.18	0	0	0	0.02
2002	96	23	2789	340.496	-426.449	D	7.445	7.358	0.087	2.8	98.6	1.39	0	0	0	0.01
2002	97	23	2781	339.842	-425.379	D	7.372	7.358	0.014	2.8	99.22	0.77	0	0	0	0.01
2002	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	99	23	2789	340.496	-426.449	D	7.368	7.358	0.009	2.8	99.41	0.57	0	0	0	0.02

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	100	23	2694	327.861	-425.964	D	7.415	7.358	0.057	2.8	99	0.99	0	0	0	0.02
2002	101	23	2589	318.383	-445.593	D	7.372	7.358	0.014	2.8	99.24	0.77	0	0	0	0.01
2002	102	23	2401	338.661	-425.669	D	7.358	7.358	0	2.8	99.67	0.09	0	0	0	0.01
2002	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	113	23	2788	340.294	-426.448	D	7.359	7.358	0	2.8	100.3	0.25	0	0	0	0.01
2002	114	23	2412	339.417	-425.886	D	7.358	7.358	0	2.8	99.01	0.28	0	0	0	0.01
2002	115	23	2781	339.842	-425.379	D	7.38	7.358	0.021	2.8	98.29	1.67	0	0	0	0.05
2002	116	23	2704	329.056	-425.092	D	7.386	7.358	0.028	2.8	97.74	2.24	0	0	0	0.03
2002	117	23	2781	339.842	-425.379	D	7.359	7.358	0.001	2.8	98.44	1.52	0	0	0	0.01
2002	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2002	122	23	2789	340.496	-426.449	D	7.84	7.639	0.201	3.4	97.4	2.59	0	0	0	0.01
2002	123	23	2588	318.452	-445.8	D	7.848	7.639	0.209	3.4	98.88	1.12	0	0	0	0.01
2002	124	23	2588	318.452	-445.8	D	7.831	7.639	0.192	3.4	98.93	1.07	0	0	0	0
2002	125	23	2588	318.452	-445.8	D	7.716	7.639	0.078	3.4	99.52	0.47	0	0	0	0
2002	126	23	2781	339.842	-425.379	D	7.644	7.639	0.005	3.4	99.93	0.06	0	0	0	0
2002	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	130	23	2789	340.496	-426.449	D	7.678	7.639	0.039	3.4	99.45	0.54	0	0	0	0.01
2002	131	23	2781	339.842	-425.379	D	7.656	7.639	0.017	3.4	99.44	0.55	0	0	0	0.01
2002	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	133	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	88.16	12.03	0	0	0	0.04
2002	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	137	23	2606	319.359	-441.767	D	7.708	7.639	0.069	3.4	97.43	2.57	0	0	0	0.01
2002	138	23	2789	340.496	-426.449	D	7.683	7.639	0.045	3.4	98.74	1.25	0	0	0	0.01

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	139	23	2789	340.496	-426.449	D	7.901	7.639	0.262	3.4	97.9	2.09	0	0	0	0.01
2002	140	23	2588	318.452	-445.8	D	7.65	7.639	0.011	3.4	99.72	0.28	0	0	0	0.01
2002	141	23	2781	339.842	-425.379	D	7.752	7.639	0.113	3.4	98.98	1.01	0	0	0	0.01
2002	142	23	2789	340.496	-426.449	D	7.686	7.639	0.047	3.4	99.47	0.52	0	0	0	0.01
2002	143	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.2	0.21	0	0	0	0.01
2002	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	156	23	1415	329.185	-425.086	D	7.639	7.639	0.001	3.4	99.21	0.64	0	0	0	0.02
2002	157	23	2628	320.933	-436.998	D	7.95	7.639	0.311	3.4	96.46	3.52	0	0	0	0.02
2002	158	23	2589	318.383	-445.593	D	7.719	7.639	0.08	3.4	99.85	0.14	0	0	0	0.01
2002	159	23	2781	339.842	-425.379	D	7.704	7.639	0.065	3.4	99.84	0.15	0	0	0	0.01
2002	160	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	100	0.03	0	0	0	0.01
2002	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	165	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	98.1	0.56	0	0	0	0.01
2002	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	168	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	99.59	0.42	0	0	0	0.01
2002	169	23	2789	340.496	-426.449	D	7.655	7.639	0.016	3.4	99.93	0.06	0	0	0	0.01
2002	170	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	99.94	0.04	0	0	0	0.01
2002	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	172	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	178	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	179	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	180	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	186	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.96	0.02	0	0	0	0.01
2002	187	23	2781	339.842	-425.379	D	7.655	7.639	0.016	3.4	99.97	0.02	0	0	0	0.01
2002	188	23	2704	329.056	-425.092	D	7.664	7.639	0.025	3.4	99.95	0.04	0	0	0	0.01
2002	189	23	2757	335.63	-424.484	D	7.646	7.639	0.007	3.4	99.99	0.02	0	0	0	0.01
2002	190	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	100.01	0.01	0	0	0	0.01
2002	191	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	99.43	0.05	0	0	0	0.01
2002	192	23	2781	339.842	-425.379	D	7.643	7.639	0.004	3.4	99.74	0.27	0	0	0	0.01
2002	193	23	2781	339.842	-425.379	D	7.653	7.639	0.014	3.4	99.67	0.33	0	0	0	0.01
2002	194	23	2684	326.713	-427.014	D	7.657	7.639	0.019	3.4	99.26	0.73	0	0	0	0.01
2002	195	23	2588	318.452	-445.8	D	7.642	7.639	0.003	3.4	99.87	0.14	0	0	0	0.01
2002	196	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	100.07	0.14	0	0	0	0.01
2002	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	204	23	2704	329.056	-425.092	D	7.644	7.639	0.005	3.4	99.94	0.04	0	0	0	0.02
2002	205	23	2758	335.862	-424.454	D	8.016	7.639	0.377	3.4	99.75	0.23	0	0	0	0.01
2002	206	23	2577	321.166	-445.591	D	7.759	7.639	0.12	3.4	99.93	0.06	0	0	0	0.01
2002	207	23	2789	340.496	-426.449	D	7.759	7.639	0.12	3.4	99.95	0.05	0	0	0	0.01
2002	208	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	99.96	0.02	0	0	0	0.01
2002	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	214	23	2418	339.946	-426.612	D	7.639	7.639	0	3.4	100.12	0.03	0	0	0	0.01
2002	215	23	375	322.611	-445.359	D	7.64	7.639	0.001	3.4	100.11	0.01	0	0	0	0.01
2002	216	23	2588	318.452	-445.8	D	7.64	7.639	0.001	3.4	100.25	0.01	0	0	0	0.01

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	217	23	1517	329.93	-425.053	D	7.639	7.639	0	3.4	100.06	0	0	0	0	0.01
2002	218	23	2789	340.496	-426.449	D	7.696	7.639	0.057	3.4	99.89	0.09	0	0	0	0.01
2002	219	23	2571	322.646	-445.476	D	7.992	7.639	0.353	3.4	99.55	0.44	0	0	0	0.01
2002	220	23	2588	318.452	-445.8	D	7.645	7.639	0.006	3.4	99.95	0.04	0	0	0	0.01
2002	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	237	23	2789	340.496	-426.449	D	7.701	7.639	0.062	3.4	99.73	0.25	0	0	0	0.02
2002	238	23	2588	318.452	-445.8	D	7.865	7.639	0.227	3.4	98.87	1.12	0	0	0	0.02
2002	239	23	2684	326.713	-427.014	D	7.675	7.639	0.036	3.4	99.6	0.38	0	0	0	0.01
2002	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	242	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	247	23	2781	339.842	-425.379	D	7.732	7.731	0.001	3.6	99.83	0.02	0	0	0	0.01
2002	248	23	2781	339.842	-425.379	D	7.772	7.731	0.041	3.6	99.9	0.09	0	0	0	0.01
2002	249	23	2628	320.933	-436.998	D	7.742	7.731	0.011	3.6	99.97	0.02	0	0	0	0.01
2002	250	23	1415	329.185	-425.086	D	7.731	7.731	0	3.6	99.77	0.01	0	0	0	0.01
2002	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	254	23	2781	339.842	-425.379	D	7.912	7.731	0.181	3.6	97.86	2.09	0	0	0	0.05
2002	255	23	2571	322.646	-445.476	D	7.897	7.731	0.166	3.6	98.42	1.56	0	0	0	0.02

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	256	23	2588	318.452	-445.8	D	7.763	7.731	0.032	3.6	99.93	0.06	0	0	0	0.01
2002	257	23	2704	329.056	-425.092	D	7.747	7.731	0.017	3.6	99.94	0.06	0	0	0	0.01
2002	258	23	2789	340.496	-426.449	D	7.734	7.731	0.003	3.6	99.94	0.07	0	0	0	0.01
2002	259	23	2789	340.496	-426.449	D	7.89	7.731	0.16	3.6	99.39	0.6	0	0	0	0.01
2002	260	23	2789	340.496	-426.449	D	7.855	7.731	0.125	3.6	99.64	0.35	0	0	0	0.01
2002	261	23	2781	339.842	-425.379	D	7.735	7.731	0.004	3.6	98.91	1.09	0	0	0	0.01
2002	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	265	23	2789	340.496	-426.449	D	7.795	7.731	0.064	3.6	97.58	2.37	0	0	0	0.05
2002	266	23	2789	340.496	-426.449	D	7.798	7.731	0.068	3.6	98.8	1.18	0	0	0	0.03
2002	267	23	2758	335.862	-424.454	D	7.81	7.731	0.079	3.6	99.28	0.69	0	0	0	0.02
2002	268	23	2758	335.862	-424.454	D	7.764	7.731	0.033	3.6	99.52	0.47	0	0	0	0.01
2002	269	23	1415	329.185	-425.086	D	7.731	7.731	0	3.6	99.9	0.04	0	0	0	0.01
2002	270	23	2588	318.452	-445.8	D	7.942	7.731	0.211	3.6	99.55	0.43	0	0	0	0.03
2002	271	23	2468	334.002	-434.887	D	7.84	7.731	0.109	3.6	99.8	0.18	0	0	0	0.01
2002	272	23	2628	320.933	-436.998	D	7.819	7.731	0.088	3.6	99.78	0.21	0	0	0	0.01
2002	273	23	2704	329.056	-425.092	D	7.735	7.731	0.004	3.6	99.97	0.02	0	0	0	0.01
2002	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	278	23	2789	340.496	-426.449	D	7.61	7.593	0.018	3.3	99.55	0.41	0	0	0	0.04
2002	279	23	2789	340.496	-426.449	D	7.616	7.593	0.024	3.3	99.28	0.7	0	0	0	0.02
2002	280	23	2789	340.496	-426.449	D	7.625	7.593	0.032	3.3	98.9	1.06	0	0	0	0.04
2002	281	23	2589	318.383	-445.593	D	7.636	7.593	0.044	3.3	98.91	1.06	0	0	0	0.03
2002	282	23	2704	329.056	-425.092	D	7.593	7.593	0	3.3	99.62	0.33	0	0	0	0.02
2002	283	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	99.17	0.84	0	0	0	0.01
2002	284	23	2468	334.002	-434.887	D	7.595	7.593	0.002	3.3	99.18	0.82	0	0	0	0
2002	285	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	286	23	2628	320.933	-436.998	D	7.644	7.593	0.052	3.3	96.26	3.71	0	0	0	0.03
2002	287	23	2600	318.952	-443.12	D	7.602	7.593	0.009	3.3	97.49	2.49	0	0	0	0.02
2002	288	23	2704	329.056	-425.092	D	7.632	7.593	0.04	3.3	97.28	2.71	0	0	0	0.01
2002	289	23	2790	340.421	-426.562	D	7.693	7.593	0.1	3.3	85.97	13.94	0	0	0	0.09
2002	290	23	2571	322.646	-445.476	D	7.608	7.593	0.016	3.3	96.12	3.86	0	0	0	0.03
2002	291	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	99.21	0.49	0	0	0	0.02
2002	292	23	2781	339.842	-425.379	D	7.632	7.593	0.039	3.3	93.92	6.06	0	0	0	0.02
2002	293	23	2694	327.861	-425.964	D	7.827	7.593	0.235	3.3	93.37	6.61	0	0	0	0.02
2002	294	23	2628	320.933	-436.998	D	7.664	7.593	0.071	3.3	98.24	1.75	0	0	0	0.01

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	295	23	2628	320.933	-436.998	D	7.646	7.593	0.053	3.3	98.58	1.41	0	0	0	0.01
2002	296	23	2758	335.862	-424.454	D	7.661	7.593	0.069	3.3	98.47	1.52	0	0	0	0.01
2002	297	23	2684	326.713	-427.014	D	7.68	7.593	0.087	3.3	98.95	1.04	0	0	0	0.01
2002	298	23	2684	326.713	-427.014	D	7.678	7.593	0.085	3.3	97.26	2.73	0	0	0	0.01
2002	299	23	2789	340.496	-426.449	D	7.845	7.593	0.252	3.3	97.24	2.76	0	0	0	0.01
2002	300	23	2781	339.842	-425.379	D	8.015	7.593	0.422	3.3	96.02	3.97	0	0	0	0.01
2002	301	23	2684	326.713	-427.014	D	7.807	7.593	0.214	3.3	97.43	2.57	0	0	0	0.01
2002	302	23	2758	335.862	-424.454	D	7.87	7.593	0.277	3.3	95.8	4.19	0	0	0	0.01
2002	303	23	2571	322.646	-445.476	D	8.412	7.593	**0.819**	3.3	95.7	4.28	0	0	0	0.02
2002	304	23	2552	324.659	-442.591	D	8.263	7.593	**0.67**	3.3	93.81	6.18	0	0	0	0.01
2002	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2002	306	23	2571	322.646	-445.476	D	7.548	7.546	0.002	3.2	92.85	7.19	0	0	0	0.02
2002	307	23	2789	340.496	-426.449	D	7.596	7.546	0.05	3.2	93.33	6.66	0	0	0	0.01
2002	308	23	2789	340.496	-426.449	D	7.548	7.546	0.002	3.2	96.35	3.76	0	0	0	0.01
2002	309	23	2789	340.496	-426.449	D	7.561	7.546	0.015	3.2	96.67	3.33	0	0	0	0.01
2002	310	23	2789	340.496	-426.449	D	7.551	7.546	0.004	3.2	93.16	6.84	0	0	0	0.01
2002	311	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	316	23	2789	340.496	-426.449	D	7.555	7.546	0.008	3.2	74.39	25.5	0	0	0	0.11
2002	317	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	320	23	2789	340.496	-426.449	D	7.59	7.546	0.044	3.2	75.52	24.39	0	0	0	0.09
2002	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	323	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	328	23	1415	329.185	-425.086	D	7.546	7.546	0	3.2	92.95	7.33	0	0	0	0.02
2002	329	23	2789	340.496	-426.449	D	7.656	7.546	0.11	3.2	86.14	13.82	0	0	0	0.04
2002	330	23	2781	339.842	-425.379	D	7.645	7.546	0.099	3.2	89.16	10.81	0	0	0	0.03
2002	331	23	2789	340.496	-426.449	D	7.629	7.546	0.082	3.2	84.57	15.39	0	0	0	0.04
2002	332	23	2588	318.452	-445.8	D	7.554	7.546	0.007	3.2	90.5	9.5	0	0	0	0.02
2002	333	23	340	322.363	-445.37	D	7.546	7.546	0	3.2	94.24	5.31	0	0	0	0.02

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0
2002	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	337	23	2571	322.646	-445.476	D	7.615	7.593	0.023	3.3	86.27	13.69	0	0	0	0.05
2002	338	23	2588	318.452	-445.8	D	7.595	7.593	0.002	3.3	88.24	11.8	0	0	0	0.01
2002	339	23	2789	340.496	-426.449	D	7.638	7.593	0.045	3.3	64.6	35.29	0	0	0	0.11
2002	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	342	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	343	23	2704	329.056	-425.092	D	7.727	7.593	0.134	3.3	92.07	7.92	0	0	0	0.01
2002	344	23	2684	326.713	-427.014	D	7.629	7.593	0.036	3.3	94.26	5.74	0	0	0	0.01
2002	345	23	2694	327.861	-425.964	D	7.623	7.593	0.03	3.3	95.73	4.27	0	0	0	0.01
2002	346	23	2758	335.862	-424.454	D	7.6	7.593	0.007	3.3	96.81	3.18	0	0	0	0.01
2002	347	23	2694	327.861	-425.964	D	7.798	7.593	0.205	3.3	91.97	8.01	0	0	0	0.02
2002	348	23	2468	334.002	-434.887	D	7.709	7.593	0.117	3.3	91.96	8.02	0	0	0	0.02
2002	349	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	358	23	2781	339.842	-425.379	D	7.672	7.593	0.079	3.3	88.75	11.23	0	0	0	0.02
2002	359	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	365	23	2628	320.933	-436.998	D	7.634	7.593	0.041	3.3	76.43	23.48	0	0	0	0.1
									0.819							
NORANDA									**DELTA**		**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	2	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	3	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	7	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	9	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	10	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	11	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	17	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	18	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	19	23	2781	339.842	-425.379	D	7.744	7.593	0.151	3.3	97.35	0.15	0	0	0.07	2.43
2002	20	23	2789	340.496	-426.449	D	7.618	7.593	0.025	3.3	98.91	0.07	0	0	0.03	0.99
2002	21	23	2781	339.842	-425.379	D	7.596	7.593	0.004	3.3	98.91	0.1	0	0	0	1.01
2002	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	24	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	25	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	26	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	27	23	2386	338.533	-428.423	D	7.593	7.593	0	3.3	95.44	0.05	0	0	0.04	2.22
2002	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2002	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	36	23	2588	318.452	-445.8	D	7.497	7.453	0.045	3	94.31	0.22	0	0	0.69	4.78
2002	37	23	2704	329.056	-425.092	D	7.474	7.453	0.021	3	93.76	0.36	0	0	0.14	5.75
2002	38	23	2789	340.496	-426.449	D	7.581	7.453	0.128	3	97.93	0.12	0	0	0.11	1.85
2002	39	23	2571	322.646	-445.476	D	7.465	7.453	0.013	3	97.96	0.06	0	0	0.16	1.85
2002	40	23	2789	340.496	-426.449	D	7.466	7.453	0.013	3	98.47	0.05	0	0	0.04	1.45
2002	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	42	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	43	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	44	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	46	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	47	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	48	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	49	23	2789	340.496	-426.449	D	7.457	7.453	0.004	3	95.71	0.12	0	0	0.08	4.14
2002	50	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	53	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	54	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	55	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	57	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	58	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0
2002	61	23	2781	339.842	-425.379	D	7.314	7.311	0.003	2.7	93.07	0.37	0	0	0.07	6.55
2002	62	23	2789	340.496	-426.449	D	7.311	7.311	0	2.7	96.09	0.22	0	0	0.01	3.71
2002	63	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	70	23	2789	340.496	-426.449	D	7.314	7.311	0.003	2.7	95.39	0.15	0	0	0.08	4.37
2002	71	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	74	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	75	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	77	23	2789	340.496	-426.449	D	7.313	7.311	0.003	2.7	97.92	0.13	0	0	0.06	1.96
2002	78	23	2781	339.842	-425.379	D	7.635	7.311	0.324	2.7	97.56	0.07	0	0	0.2	2.16
2002	79	23	2789	340.496	-426.449	D	7.426	7.311	0.115	2.7	98.99	0.02	0	0	0.07	0.92
2002	80	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	81	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	82	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	84	23	2704	329.056	-425.092	D	7.313	7.311	0.002	2.7	98.27	0.09	0	0	0.03	1.69
2002	85	23	2758	335.862	-424.454	D	7.374	7.311	0.064	2.7	98.73	0.06	0	0	0.01	1.21
2002	86	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	87	23	2789	340.496	-426.449	D	7.311	7.311	0.001	2.7	96.13	0.11	0	0	0.11	3.54
2002	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	89	23	2758	335.862	-424.454	D	7.329	7.311	0.018	2.7	98.24	0.02	0	0	0.14	1.6
2002	90	23	2704	329.056	-425.092	D	7.353	7.311	0.042	2.7	92.53	0.25	0	0	0.56	6.67
2002	91	23	2589	318.383	-445.593	D	7.368	7.356	0.011	2.796	98.23	0.01	0	0	0.05	1.72
2002	92	23	2789	340.496	-426.449	D	7.359	7.358	0	2.8	97.85	0.01	0	0	0.04	2.12
2002	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	96	23	2588	318.452	-445.8	D	7.402	7.358	0.043	2.8	97.6	0.02	0	0	0.2	2.19
2002	97	23	2789	340.496	-426.449	D	7.391	7.358	0.032	2.8	97.82	0.03	0	0	0.08	2.06
2002	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	99	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	100	23	2588	318.452	-445.8	D	7.427	7.358	0.069	2.8	96.83	0.01	0	0	0.49	2.67
2002	101	23	2684	326.713	-427.014	D	7.365	7.358	0.007	2.8	88.6	0.05	0	0	0.16	11.17
2002	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	113	23	2789	340.496	-426.449	D	7.359	7.358	0.001	2.8	96.88	0.03	0	0	0.12	3.07
2002	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	115	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	116	23	2588	318.452	-445.8	D	7.421	7.358	0.063	2.8	97.41	0.07	0	0	0.28	2.24
2002	117	23	2704	329.056	-425.092	D	7.369	7.358	0.011	2.8	96.68	0.1	0	0	0.22	3
2002	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	120	23	2789	340.496	-426.449	D	7.364	7.358	0.006	2.8	96.18	0.01	0	0	0.04	3.79
2002	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2002	122	23	2781	339.842	-425.379	D	7.715	7.639	0.076	3.4	99.29	0.02	0	0	0.02	0.68
2002	123	23	2571	322.646	-445.476	D	7.707	7.639	0.068	3.4	99.31	0.01	0	0	0.03	0.65
2002	124	23	2781	339.842	-425.379	D	7.997	7.639	0.358	3.4	98.03	0.04	0	0	0.09	1.84
2002	125	23	2781	339.842	-425.379	D	7.838	7.639	0.2	3.4	98.43	0.01	0	0	0.07	1.48
2002	126	23	2781	339.842	-425.379	D	7.645	7.639	0.006	3.4	98.87	0	0	0	0.02	1.12
2002	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	130	23	2571	322.646	-445.476	D	7.663	7.639	0.024	3.4	97.03	0.02	0	0	0.24	2.71
2002	131	23	2758	335.862	-424.454	D	7.69	7.639	0.052	3.4	97.83	0.02	0	0	0.07	2.08
2002	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	133	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	137	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	81.82	1.33	0	0	0.34	18.78
2002	138	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	139	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	140	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	141	23	2781	339.842	-425.379	D	7.666	7.639	0.027	3.4	93.9	0.02	0	0	0.2	5.88
2002	142	23	2781	339.842	-425.379	D	7.645	7.639	0.006	3.4	91.6	0.04	0	0	0.2	8.18
2002	143	23	2416	339.665	-425.875	D	7.639	7.639	0	3.4	96.28	0.01	0	0	0.07	3.13
2002	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	150	23	2781	339.842	-425.379	D	7.643	7.639	0.004	3.4	98.74	0	0	0	0.14	1.1
2002	151	23	2781	339.842	-425.379	D	7.683	7.639	0.044	3.4	98.93	0	0	0	0.09	0.98
2002	152	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	99.12	0	0	0	0.04	0.84
2002	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	157	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	158	23	2571	322.646	-445.476	D	7.639	7.639	0	3.4	99.75	0	0	0	0.09	0.34

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	159	23	2571	322.646	-445.476	D	7.778	7.639	0.14	3.4	99	0	0	0	0.08	0.92
2002	160	23	2781	339.842	-425.379	D	7.677	7.639	0.038	3.4	97.2	0	0	0	0.09	2.71
2002	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	168	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	169	23	235	321.618	-445.402	D	7.639	7.639	0	3.4	97.86	0	0	0	0.15	0.86
2002	170	23	2789	340.496	-426.449	D	7.645	7.639	0.006	3.4	98.91	0	0	0	0.09	1.02
2002	171	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	98.88	0	0	0	0.03	0.75
2002	172	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	173	23	2758	335.862	-424.454	D	7.644	7.639	0.005	3.4	96.64	0	0	0	0.74	2.63
2002	174	23	2684	326.713	-427.014	D	7.741	7.639	0.102	3.4	97.32	0.01	0	0	0.21	2.47
2002	175	23	2704	329.056	-425.092	D	7.639	7.639	0	3.4	86.69	0.01	0	0	0.34	12.48
2002	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	179	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	180	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	45.6	0	0	0	1.98	3.43
2002	183	23	2789	340.496	-426.449	D	7.809	7.639	0.17	3.4	98.64	0	0	0	0.17	1.19
2002	184	23	2781	339.842	-425.379	D	7.67	7.639	0.031	3.4	98.97	0	0	0	0.08	0.95
2002	185	23	2789	340.496	-426.449	D	7.757	7.639	0.118	3.4	98.8	0	0	0	0.18	1.01
2002	186	23	2789	340.496	-426.449	D	8.287	7.639	**0.648**	3.4	98.95	0	0	0	0.13	0.92
2002	187	23	2589	318.383	-445.593	D	7.874	7.639	0.235	3.4	98.61	0	0	0	0.09	1.29
2002	188	23	2588	318.452	-445.8	D	7.672	7.639	0.033	3.4	97.48	0	0	0	0.22	2.3
2002	189	23	2588	318.452	-445.8	D	7.676	7.639	0.037	3.4	98.71	0	0	0	0.17	1.13
2002	190	23	2588	318.452	-445.8	D	7.767	7.639	0.128	3.4	98.91	0	0	0	0.1	0.99
2002	191	23	2790	340.421	-426.562	D	7.734	7.639	0.095	3.4	99.18	0	0	0	0.04	0.78
2002	192	23	2468	334.002	-434.887	D	7.658	7.639	0.019	3.4	99.36	0	0	0	0.02	0.63
2002	193	23	2789	340.496	-426.449	D	7.68	7.639	0.041	3.4	98.79	0	0	0	0.19	1.02
2002	194	23	2468	334.002	-434.887	D	7.653	7.639	0.014	3.4	99.32	0.01	0	0	0.06	0.62
2002	195	23	2571	322.646	-445.476	D	7.736	7.639	0.097	3.4	99	0	0	0	0.15	0.85
2002	196	23	2571	322.646	-445.476	D	7.927	7.639	0.288	3.4	98.82	0.01	0	0	0.16	1.01
2002	197	23	2468	334.002	-434.887	D	8.027	7.639	0.388	3.4	99	0	0	0	0.09	0.9

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	198	23	2781	339.842	-425.379	D	7.745	7.639	0.106	3.4	99.34	0	0	0	0.04	0.61
2002	199	23	2781	339.842	-425.379	D	7.648	7.639	0.009	3.4	99.44	0	0	0	0.02	0.55
2002	200	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.52	0.01	0	0	0.01	0.58
2002	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	204	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	205	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	206	23	2571	322.646	-445.476	D	7.659	7.639	0.02	3.4	99.69	0	0	0	0.05	0.26
2002	207	23	2789	340.496	-426.449	D	7.706	7.639	0.067	3.4	99.5	0	0	0	0.04	0.46
2002	208	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	98.24	0	0	0	0.05	0.87
2002	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	214	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.01	0	0	0	0.18	0.94
2002	215	23	2468	334.002	-434.887	D	8.03	7.639	0.391	3.4	98.73	0	0	0	0.19	1.08
2002	216	23	2684	326.713	-427.014	D	7.809	7.639	0.17	3.4	99.05	0	0	0	0.08	0.86
2002	217	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	99.16	0	0	0	0.07	0.78
2002	218	23	2571	322.646	-445.476	D	7.752	7.639	0.113	3.4	98.92	0	0	0	0.09	0.99
2002	219	23	2571	322.646	-445.476	D	7.734	7.639	0.096	3.4	99.17	0	0	0	0.03	0.8
2002	220	23	2571	322.646	-445.476	D	7.64	7.639	0.001	3.4	99.15	0	0	0	0.04	0.86
2002	221	23	2571	322.646	-445.476	D	7.771	7.639	0.132	3.4	98.34	0	0	0	0.17	1.49
2002	222	23	2781	339.842	-425.379	D	7.708	7.639	0.069	3.4	98.24	0	0	0	0.09	1.67
2002	223	23	2757	335.63	-424.484	D	7.64	7.639	0.001	3.4	98.53	0	0	0	0.03	1.52
2002	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	237	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	238	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	239	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	242	23	2588	318.452	-445.8	D	7.643	7.639	0.004	3.4	93.17	0	0	0	1.7	5.09
2002	243	23	2681	326.689	-427.709	D	7.78	7.639	0.141	3.4	97.24	0.01	0	0	0.38	2.37
2002	244	23	2640	322.263	-435.121	D	7.905	7.727	0.178	3.592	98.3	0	0	0	0.12	1.58
2002	245	23	2758	335.862	-424.454	D	7.752	7.731	0.021	3.6	98.05	0	0	0	0.07	1.88
2002	246	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	247	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	248	23	2588	318.452	-445.8	D	7.732	7.731	0.001	3.6	98.35	0	0	0	0.19	1.35
2002	249	23	2571	322.646	-445.476	D	7.771	7.731	0.04	3.6	97.6	0	0	0	0.5	1.9
2002	250	23	2589	318.383	-445.593	D	7.759	7.731	0.028	3.6	97.7	0	0	0	0.12	2.18
2002	251	23	975	326.447	-430.701	D	7.731	7.731	0	3.6	0	0	0	0	0	2.08
2002	252	23	2788	340.294	-426.448	D	7.731	7.731	0	3.6	93.9	0	0	0	0.2	3.89
2002	253	23	2588	318.452	-445.8	D	7.807	7.731	0.076	3.6	98.06	0	0	0	0.12	1.82
2002	254	23	2571	322.646	-445.476	D	7.737	7.731	0.006	3.6	98.83	0	0	0	0.15	1.04
2002	255	23	305	322.115	-445.381	D	7.731	7.731	0	3.6	98.44	0	0	0	0.03	0.84
2002	256	23	2571	322.646	-445.476	D	7.739	7.731	0.008	3.6	99.56	0	0	0	0.08	0.38
2002	257	23	2790	340.421	-426.562	D	7.816	7.731	0.086	3.6	98.81	0	0	0	0.12	1.07
2002	258	23	2789	340.496	-426.449	D	7.754	7.731	0.023	3.6	98.66	0	0	0	0.08	1.26
2002	259	23	2789	340.496	-426.449	D	7.731	7.731	0	3.6	94.88	0	0	0	0.08	4.61
2002	260	23	2362	338.048	-428.694	D	7.731	7.731	0	3.6	91.08	0.06	0	0	0.05	5.61
2002	261	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	76.45	0.17	0	0	0.03	6.69
2002	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	265	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	266	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	267	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	268	23	2571	322.646	-445.476	D	7.806	7.731	0.075	3.6	97.86	0.01	0	0	0.19	1.95
2002	269	23	2588	318.452	-445.8	D	7.806	7.731	0.075	3.6	96.23	0.04	0	0	0.34	3.39
2002	270	23	2789	340.496	-426.449	D	7.759	7.731	0.028	3.6	96.6	0	0	0	0.9	2.5
2002	271	23	2704	329.056	-425.092	D	7.733	7.731	0.002	3.6	98.58	0	0	0	0.03	1.4
2002	272	23	2468	334.002	-434.887	D	7.862	7.731	0.132	3.6	98.99	0	0	0	0.12	0.89
2002	273	23	2694	327.861	-425.964	D	7.78	7.731	0.049	3.6	98.29	0	0	0	0.09	1.61
2002	274	23	2779	339.386	-425.461	D	7.598	7.598	0	3.313	97.74	0	0	0	0.1	1.43
2002	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	278	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	279	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	280	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	281	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	282	23	2588	318.452	-445.8	D	7.71	7.593	0.117	3.3	98.05	0.06	0	0	0.17	1.72
2002	283	23	2571	322.646	-445.476	D	7.813	7.593	0.22	3.3	98.67	0.03	0	0	0.19	1.11
2002	284	23	2588	318.452	-445.8	D	7.631	7.593	0.038	3.3	98.49	0.01	0	0	0.16	1.34
2002	285	23	453	323.053	-444.091	D	7.698	7.593	0.106	3.3	98.99	0.02	0	0	0.03	0.95
2002	286	23	2789	340.496	-426.449	D	7.643	7.593	0.05	3.3	98.95	0.01	0	0	0.01	1.03
2002	287	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	288	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	289	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	290	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	291	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	293	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	294	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	98.8	0	0	0	0.32	0.93
2002	295	23	2468	334.002	-434.887	D	7.621	7.593	0.029	3.3	98.7	0.01	0	0	0.16	1.13
2002	296	23	2588	318.452	-445.8	D	7.642	7.593	0.049	3.3	98.01	0.01	0	0	0.25	1.73
2002	297	23	2588	318.452	-445.8	D	7.594	7.593	0.001	3.3	84.15	0	0	0	2.98	12.99
2002	298	23	2588	318.452	-445.8	D	7.696	7.593	0.103	3.3	97.96	0.05	0	0	0.07	1.92
2002	299	23	2571	322.646	-445.476	D	7.604	7.593	0.011	3.3	98.36	0.02	0	0	0.03	1.6
2002	300	23	2571	322.646	-445.476	D	7.605	7.593	0.012	3.3	97.09	0.03	0	0	0.44	2.45
2002	301	23	2781	339.842	-425.379	D	7.941	7.593	0.348	3.3	97.64	0.1	0	0	0.13	2.13
2002	302	23	2588	318.452	-445.8	D	8.003	7.593	0.411	3.3	98.32	0.06	0	0	0.11	1.51
2002	303	23	2571	322.646	-445.476	D	7.639	7.593	0.046	3.3	98.69	0.02	0	0	0.05	1.24
2002	304	23	2527	325.898	-438.476	D	7.593	7.593	0.001	3.3	94.42	0	0	0	0.7	5.01
2002	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2002	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	307	23	2789	340.496	-426.449	D	7.562	7.546	0.015	3.2	98.44	0.08	0	0	0.15	1.34
2002	308	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	99.25	0.05	0	0	0.03	0.79
2002	309	23	2789	340.496	-426.449	D	7.565	7.546	0.019	3.2	99.47	0.04	0	0	0.02	0.48
2002	310	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	99.66	0.02	0	0	0	0.32
2002	311	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	316	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	317	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	323	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	331	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	332	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	333	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0
2002	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	109.31	0.01	0	0	0.01	1.14
2002	339	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	342	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	343	23	2588	318.452	-445.8	D	7.593	7.593	0	3.3	64.32	0.01	0	0	13.95	21.8
2002	344	23	1	318.65	-445.782	D	7.593	7.593	0.001	3.3	86.17	0	0	0	4.51	9.33
2002	345	23	2588	318.452	-445.8	D	7.598	7.593	0.005	3.3	96.37	0	0	0	0.48	3.17
2002	346	23	2704	329.056	-425.092	D	7.596	7.593	0.003	3.3	98.56	0	0	0	0.04	1.37
2002	347	23	2789	340.496	-426.449	D	7.653	7.593	0.06	3.3	98.07	0.13	0	0	0.11	1.69
2002	348	23	2789	340.496	-426.449	D	7.599	7.593	0.006	3.3	97.9	0.13	0	0	0.02	1.98
2002	349	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	357	23	2571	322.646	-445.476	D	7.593	7.593	0	3.3	83.07	0.06	0	0	5.3	11.58
2002	358	23	2588	318.452	-445.8	D	7.599	7.593	0.006	3.3	93.19	0.16	0	0	1.32	5.35
2002	359	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	365	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.648							
INDEPENDENCE											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	2704	329.056	-425.092	D	7.755	7.593	0.162	3.3	74.65	24.56	0	0	0	0.79
2002	2	23	2789	340.496	-426.449	D	8.074	7.593	0.482	3.3	81.92	17.51	0	0	0	0.57
2002	3	23	2588	318.452	-445.8	D	7.747	7.593	0.155	3.3	84.77	14.75	0	0	0	0.48
2002	4	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	88.83	10.89	0	0	0	0.28
2002	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	6	23	2589	318.383	-445.593	D	7.662	7.593	0.069	3.3	82.26	17.08	0	0	0	0.66
2002	7	23	2789	340.496	-426.449	D	7.81	7.593	0.217	3.3	73.68	25.22	0	0	0	1.1
2002	8	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	81.55	18.01	0	0	0	0.43
2002	9	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	10	23	2781	339.842	-425.379	D	7.676	7.593	0.084	3.3	93.92	5.76	0	0	0	0.32
2002	11	23	2789	340.496	-426.449	D	7.781	7.593	0.188	3.3	70.01	28.47	0	0	0	1.52
2002	12	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	88.88	10.57	0	0	0	0.51
2002	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	17	23	2704	329.056	-425.092	D	7.651	7.593	0.059	3.3	69.52	29.09	0	0	0	1.39
2002	18	23	2704	329.056	-425.092	D	7.599	7.593	0.007	3.3	82.62	17.03	0	0	0	0.38
2002	19	23	2758	335.862	-424.454	D	7.601	7.593	0.009	3.3	93.2	6.62	0	0	0	0.2
2002	20	23	2781	339.842	-425.379	D	7.618	7.593	0.025	3.3	93.63	6.23	0	0	0	0.14
2002	21	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	24	23	2628	320.933	-436.998	D	7.698	7.593	0.105	3.3	88.56	11.07	0	0	0	0.37
2002	25	23	2468	334.002	-434.887	D	7.701	7.593	0.109	3.3	88.16	11.44	0	0	0	0.4
2002	26	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	94.38	5.31	0	0	0	0.28
2002	27	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	29	23	2706	329.518	-425.046	D	7.603	7.593	0.01	3.3	89.55	10.15	0	0	0	0.29
2002	30	23	2711	330.671	-424.932	D	8.501	7.593	**0.909**	3.3	90.47	9.32	0	0	0	0.21
2002	31	23	2704	329.056	-425.092	D	7.628	7.593	0.036	3.3	91.92	7.96	0	0	0	0.12
2002	32	23	2781	339.842	-425.379	D	7.459	7.459	0.001	3.013	93.58	6.44	0	0	0	0.06
2002	33	23	2789	340.496	-426.449	D	7.456	7.453	0.004	3	93.91	5.72	0	0	0	0.41
2002	34	23	2789	340.496	-426.449	D	7.455	7.453	0.003	3	94.11	5.66	0	0	0	0.28
2002	35	23	2789	340.496	-426.449	D	7.498	7.453	0.046	3	61.65	36.35	0	0	0	2
2002	36	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	37	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	38	23	2725	331.984	-427.096	D	7.577	7.453	0.124	3	88.62	10.98	0	0	0	0.4
2002	39	23	2468	334.002	-434.887	D	7.521	7.453	0.068	3	90.78	8.98	0	0	0	0.24
2002	40	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	42	23	2690	327.731	-426.789	D	7.597	7.453	0.144	3	76.98	21.95	0	0	0	1.07
2002	43	23	2781	339.842	-425.379	D	7.463	7.453	0.01	3	91.21	8.03	0	0	0	0.77
2002	44	23	2628	320.933	-436.998	D	7.555	7.453	0.102	3	88.35	11.03	0	0	0	0.61
2002	45	23	2704	329.056	-425.092	D	7.508	7.453	0.055	3	84.88	14.63	0	0	0	0.49
2002	46	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	47	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	48	23	2610	319.631	-440.865	D	7.522	7.453	0.069	3	83.16	15.61	0	0	0	1.23
2002	49	23	2589	318.383	-445.593	D	7.46	7.453	0.007	3	94.16	5.43	0	0	0	0.41
2002	50	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	53	23	2589	318.383	-445.593	D	7.484	7.453	0.032	3	74.73	23.76	0	0	0	1.51
2002	54	23	2684	326.713	-427.014	D	7.5	7.453	0.047	3	88.95	10.58	0	0	0	0.48
2002	55	23	2789	340.496	-426.449	D	7.455	7.453	0.002	3	94.95	4.84	0	0	0	0.25
2002	56	23	2589	318.383	-445.593	D	7.599	7.453	0.147	3	84.25	15.17	0	0	0	0.58
2002	57	23	2758	335.862	-424.454	D	7.498	7.453	0.045	3	84.58	14.79	0	0	0	0.63
2002	58	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0
2002	61	23	2781	339.842	-425.379	D	7.317	7.311	0.006	2.7	81.99	17.42	0	0	0	0.61

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	62	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	63	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	70	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	71	23	2684	326.713	-427.014	D	7.312	7.311	0.002	2.7	98.1	1.39	0	0	0	0.59
2002	72	23	2781	339.842	-425.379	D	7.382	7.311	0.071	2.7	93.84	5.8	0	0	0	0.36
2002	73	23	2781	339.842	-425.379	D	7.312	7.311	0.002	2.7	98.25	1.62	0	0	0	0.16
2002	74	23	2609	319.563	-441.09	D	7.425	7.311	0.114	2.7	88.17	11.43	0	0	0	0.41
2002	75	23	2571	322.646	-445.476	D	7.323	7.311	0.012	2.7	93.34	6.34	0	0	0	0.33
2002	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	79	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	80	23	2588	318.452	-445.8	D	7.375	7.311	0.064	2.7	89.62	9.83	0	0	0	0.55
2002	81	23	2684	326.713	-427.014	D	7.373	7.311	0.062	2.7	75.9	23.04	0	0	0	1.07
2002	82	23	2758	335.862	-424.454	D	7.372	7.311	0.062	2.7	84.85	14.7	0	0	0	0.45
2002	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	84	23	2235	335.628	-424.554	D	7.312	7.311	0.001	2.7	94.51	5.46	0	0	0	0.09
2002	85	23	2589	318.383	-445.593	D	7.318	7.311	0.008	2.7	90.5	9.13	0	0	0	0.39
2002	86	23	2684	326.713	-427.014	D	7.55	7.311	0.24	2.7	94.62	5.12	0	0	0	0.26
2002	87	23	2704	329.056	-425.092	D	7.311	7.311	0	2.7	99.25	0.46	0	0	0	0.23
2002	88	23	2694	327.861	-425.964	D	7.407	7.311	0.097	2.7	99.27	0.49	0	0	0	0.23
2002	89	23	2588	318.452	-445.8	D	7.401	7.311	0.09	2.7	98.86	0.97	0	0	0	0.17
2002	90	23	2684	326.713	-427.014	D	7.314	7.311	0.004	2.7	98.48	0.96	0	0	0	0.6
2002	91	23	2789	340.496	-426.449	D	7.374	7.356	0.018	2.796	97.86	1.7	0	0	0	0.45
2002	92	23	2789	340.496	-426.449	D	7.444	7.358	0.086	2.8	97.43	2.22	0	0	0	0.35
2002	93	23	2571	322.646	-445.476	D	7.36	7.358	0.002	2.8	98.43	1.31	0	0	0	0.24
2002	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	96	23	2789	340.496	-426.449	D	7.359	7.358	0	2.8	99.44	0.53	0	0	0	0.32
2002	97	23	2789	340.496	-426.449	D	7.36	7.358	0.002	2.8	98.13	1.68	0	0	0	0.19
2002	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	99	23	2781	339.842	-425.379	D	7.766	7.358	0.408	2.8	93.27	6.43	0	0	0	0.3
2002	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	104	23	1415	329.185	-425.086	D	7.359	7.358	0	2.8	99.69	0.22	0	0	0	0.16
2002	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	112	23	2789	340.496	-426.449	D	7.36	7.358	0.002	2.8	98.82	0.68	0	0	0	0.57
2002	113	23	2789	340.496	-426.449	D	7.363	7.358	0.005	2.8	98.99	0.65	0	0	0	0.36
2002	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	115	23	2628	320.933	-436.998	D	7.39	7.358	0.032	2.8	94.56	4.67	0	0	0	0.77
2002	116	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	98.02	2.45	0	0	0	0.26
2002	117	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	119	23	2781	339.842	-425.379	D	7.49	7.358	0.132	2.8	98.99	0.65	0	0	0	0.36
2002	120	23	2705	329.287	-425.069	D	7.424	7.358	0.065	2.8	99.54	0.29	0	0	0	0.18
2002	121	23	1449	329.434	-425.075	D	7.627	7.627	0	3.375	97.31	0.54	0	0	0	0.1
2002	122	23	2704	329.056	-425.092	D	7.738	7.639	0.099	3.4	90.6	8.96	0	0	0	0.44
2002	123	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	94.68	0.76	0	0	0	0.04
2002	124	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	129	23	2640	322.263	-435.121	D	7.745	7.639	0.106	3.4	96.19	3.34	0	0	0	0.47
2002	130	23	2628	320.933	-436.998	D	7.699	7.639	0.06	3.4	98.72	0.92	0	0	0	0.35
2002	131	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.45	0.44	0	0	0	0.07
2002	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	133	23	2628	320.933	-436.998	D	7.871	7.639	0.232	3.4	95.84	3.96	0	0	0	0.2
2002	134	23	2789	340.496	-426.449	D	7.676	7.639	0.037	3.4	98.67	0.94	0	0	0	0.38
2002	135	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	98.4	0.62	0	0	0	0.24
2002	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	137	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	138	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	139	23	2684	326.713	-427.014	D	7.788	7.639	0.149	3.4	98.66	1.02	0	0	0	0.32

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	140	23	2789	340.496	-426.449	D	7.756	7.639	0.117	3.4	97.74	1.95	0	0	0	0.32
2002	141	23	2588	318.452	-445.8	D	7.653	7.639	0.014	3.4	99.2	0.57	0	0	0	0.23
2002	142	23	2684	326.713	-427.014	D	7.641	7.639	0.002	3.4	99.55	0.3	0	0	0	0.14
2002	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	156	23	2711	330.671	-424.932	D	7.64	7.639	0.001	3.4	99.44	0.39	0	0	0	0.18
2002	157	23	2754	334.935	-424.575	D	7.722	7.639	0.083	3.4	98.27	1.58	0	0	0	0.16
2002	158	23	2684	326.713	-427.014	D	7.657	7.639	0.018	3.4	99.7	0.09	0	0	0	0.21
2002	159	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	160	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	165	23	2789	340.496	-426.449	D	7.869	7.639	0.23	3.4	98.47	1.31	0	0	0	0.22
2002	166	23	2789	340.496	-426.449	D	7.639	7.639	0.001	3.4	93.11	5.25	0	0	0	1.64
2002	167	23	1734	332.115	-435.199	D	7.639	7.639	0	3.4	99.63	0.03	0	0	0	0.19
2002	168	23	2781	339.842	-425.379	D	7.778	7.639	0.139	3.4	99.53	0.26	0	0	0	0.22
2002	169	23	2789	340.496	-426.449	D	7.759	7.639	0.12	3.4	99.78	0.07	0	0	0	0.15
2002	170	23	2781	339.842	-425.379	D	7.657	7.639	0.018	3.4	99.81	0.07	0	0	0	0.12
2002	171	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	99.18	0.02	0	0	0	0.12
2002	172	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	179	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.76	0.04	0	0	0	0.15
2002	180	23	2781	339.842	-425.379	D	7.645	7.639	0.006	3.4	99.81	0.06	0	0	0	0.13
2002	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	187	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	188	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	192	23	2789	340.496	-426.449	D	7.647	7.639	0.008	3.4	99.36	0.49	0	0	0	0.16
2002	193	23	2789	340.496	-426.449	D	7.66	7.639	0.021	3.4	99.72	0.17	0	0	0	0.12
2002	194	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	98.94	0.98	0	0	0	0.09
2002	195	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	196	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	204	23	2758	335.862	-424.454	D	7.667	7.639	0.028	3.4	99.76	0.07	0	0	0	0.17
2002	205	23	2468	334.002	-434.887	D	7.725	7.639	0.086	3.4	99.69	0.19	0	0	0	0.13
2002	206	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	207	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	208	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	214	23	2789	340.496	-426.449	D	7.639	7.639	0.001	3.4	99.86	0.03	0	0	0	0.09
2002	215	23	2468	334.002	-434.887	D	7.641	7.639	0.002	3.4	99.89	0.01	0	0	0	0.08
2002	216	23	1048	326.791	-427.189	D	7.64	7.639	0.002	3.4	99.89	0.02	0	0	0	0.08
2002	217	23	2128	334.646	-424.846	D	7.639	7.639	0	3.4	99.89	0.01	0	0	0	0.07

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	218	23	2704	329.056	-425.092	D	7.642	7.639	0.003	3.4	99.77	0.12	0	0	0	0.15
2002	219	23	2684	326.713	-427.014	D	7.648	7.639	0.009	3.4	99.7	0.18	0	0	0	0.13
2002	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	236	23	2789	340.496	-426.449	D	7.789	7.639	0.15	3.4	99.58	0.19	0	0	0	0.22
2002	237	23	2571	322.646	-445.476	D	7.678	7.639	0.039	3.4	99.03	0.81	0	0	0	0.16
2002	238	23	2571	322.646	-445.476	D	7.64	7.639	0.001	3.4	99.77	0.06	0	0	0	0.14
2002	239	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	242	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	247	23	2781	339.842	-425.379	D	7.738	7.731	0.007	3.6	99.74	0.03	0	0	0	0.24
2002	248	23	2781	339.842	-425.379	D	7.787	7.731	0.057	3.6	99.72	0.1	0	0	0	0.18
2002	249	23	2704	329.056	-425.092	D	7.749	7.731	0.018	3.6	99.82	0.02	0	0	0	0.16
2002	250	23	1415	329.185	-425.086	D	7.731	7.731	0.001	3.6	99.83	0.01	0	0	0	0.15
2002	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	254	23	2429	338.563	-428.651	D	7.756	7.731	0.025	3.6	97.6	1.95	0	0	0	0.45
2002	255	23	2571	322.646	-445.476	D	7.731	7.731	0.001	3.6	99.69	0.03	0	0	0	0.24
2002	256	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	257	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	258	23	2684	326.713	-427.014	D	7.844	7.731	0.114	3.6	99.57	0.24	0	0	0	0.19
2002	259	23	2781	339.842	-425.379	D	8.173	7.731	0.442	3.6	99.22	0.64	0	0	0	0.14
2002	260	23	2781	339.842	-425.379	D	7.934	7.731	0.204	3.6	99.55	0.34	0	0	0	0.12
2002	261	23	2781	339.842	-425.379	D	7.735	7.731	0.004	3.6	98.91	0.99	0	0	0	0.1
2002	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	265	23	2589	318.383	-445.593	D	7.844	7.731	0.113	3.6	99.19	0.57	0	0	0	0.24
2002	266	23	2644	323.22	-434.992	D	7.749	7.731	0.018	3.6	96.8	2.6	0	0	0	0.6
2002	267	23	2709	330.21	-424.978	D	7.743	7.731	0.013	3.6	98.9	0.8	0	0	0	0.3
2002	268	23	2781	339.842	-425.379	D	7.757	7.731	0.027	3.6	99.22	0.59	0	0	0	0.19
2002	269	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	270	23	2694	327.861	-425.964	D	7.733	7.731	0.003	3.6	99.5	0.1	0	0	0	0.4
2002	271	23	2704	329.056	-425.092	D	7.749	7.731	0.019	3.6	99.3	0.42	0	0	0	0.28
2002	272	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	273	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	278	23	2552	324.659	-442.591	D	7.63	7.593	0.038	3.3	82.94	15.92	0	0	0	1.14
2002	279	23	2589	318.383	-445.593	D	7.604	7.593	0.012	3.3	99.2	0.54	0	0	0	0.26
2002	280	23	2789	340.496	-426.449	D	7.638	7.593	0.045	3.3	93.05	5.64	0	0	0	1.31
2002	281	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	285	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	286	23	2789	340.496	-426.449	D	7.744	7.593	0.151	3.3	95.25	4.52	0	0	0	0.23
2002	287	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	288	23	2600	318.952	-443.12	D	7.647	7.593	0.054	3.3	97.78	1.52	0	0	0	0.7
2002	289	23	2589	318.383	-445.593	D	7.61	7.593	0.017	3.3	95.47	3.99	0	0	0	0.54
2002	290	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	291	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	292	23	2704	329.056	-425.092	D	7.724	7.593	0.131	3.3	90.44	9.29	0	0	0	0.28
2002	293	23	2588	318.452	-445.8	D	7.674	7.593	0.081	3.3	94.23	5.63	0	0	0	0.14
2002	294	23	2588	318.452	-445.8	D	7.595	7.593	0.003	3.3	98.71	1.18	0	0	0	0.1
2002	295	23	2589	318.383	-445.593	D	7.593	7.593	0.001	3.3	99.39	0.4	0	0	0	0.07

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	297	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	298	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	299	23	2781	339.842	-425.379	D	7.709	7.593	0.116	3.3	93.25	6.43	0	0	0	0.32
2002	300	23	2588	318.452	-445.8	D	7.924	7.593	0.331	3.3	92.89	6.88	0	0	0	0.23
2002	301	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	302	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	304	23	2589	318.383	-445.593	D	7.844	7.593	0.252	3.3	84.96	14.42	0	0	0	0.63
2002	305	23	2589	318.383	-445.593	D	7.668	7.548	0.12	3.204	92.64	7.06	0	0	0	0.31
2002	306	23	2704	329.056	-425.092	D	7.71	7.546	0.164	3.2	90.16	9.4	0	0	0	0.44
2002	307	23	2781	339.842	-425.379	D	7.551	7.546	0.005	3.2	93.5	6.3	0	0	0	0.22
2002	308	23	2781	339.842	-425.379	D	7.547	7.546	0.001	3.2	93.49	6.34	0	0	0	0.22
2002	309	23	2781	339.842	-425.379	D	7.549	7.546	0.003	3.2	94.14	5.72	0	0	0	0.19
2002	310	23	2781	339.842	-425.379	D	7.561	7.546	0.015	3.2	94.43	5.42	0	0	0	0.15
2002	311	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	315	23	2781	339.842	-425.379	D	7.547	7.546	0.001	3.2	81.36	17.36	0	0	0	1.35
2002	316	23	2781	339.842	-425.379	D	7.62	7.546	0.074	3.2	83.81	15.42	0	0	0	0.77
2002	317	23	2781	339.842	-425.379	D	7.557	7.546	0.01	3.2	89.19	10.14	0	0	0	0.68
2002	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	319	23	2789	340.496	-426.449	D	7.574	7.546	0.028	3.2	88.31	11.38	0	0	0	0.31
2002	320	23	2694	327.861	-425.964	D	7.547	7.546	0.001	3.2	87.24	12.17	0	0	0	0.69
2002	321	23	2789	340.496	-426.449	D	7.576	7.546	0.03	3.2	85.27	14.13	0	0	0	0.6
2002	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	323	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	97.78	2.01	0	0	0	0.63
2002	324	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	95.1	5.57	0	0	0	0.47
2002	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	326	23	2589	318.383	-445.593	D	7.591	7.546	0.044	3.2	87.34	11.75	0	0	0	0.91
2002	327	23	2468	334.002	-434.887	D	7.553	7.546	0.007	3.2	90.2	9.33	0	0	0	0.48
2002	328	23	2704	329.056	-425.092	D	7.547	7.546	0	3.2	95.95	3.96	0	0	0	0.27
2002	329	23	2789	340.496	-426.449	D	7.56	7.546	0.014	3.2	93.69	6.17	0	0	0	0.15
2002	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	331	23	2628	320.933	-436.998	D	7.549	7.546	0.003	3.2	84.77	14.72	0	0	0	0.56
2002	332	23	2704	329.056	-425.092	D	7.563	7.546	0.016	3.2	83.68	15.96	0	0	0	0.37
2002	333	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	335	23	2789	340.496	-426.449	D	7.591	7.591	0	3.296	63.14	35.1	0	0	0	1.73
2002	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	337	23	2588	318.452	-445.8	D	7.736	7.593	0.144	3.3	87.44	12.09	0	0	0	0.47
2002	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	339	23	2684	326.713	-427.014	D	7.602	7.593	0.009	3.3	83.77	15.69	0	0	0	0.54
2002	340	23	2789	340.496	-426.449	D	7.649	7.593	0.056	3.3	85.45	14.1	0	0	0	0.45
2002	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	342	23	2758	335.862	-424.454	D	7.595	7.593	0.003	3.3	94.3	5.52	0	0	0	0.17
2002	343	23	2704	329.056	-425.092	D	7.695	7.593	0.102	3.3	94.57	5.29	0	0	0	0.13
2002	344	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	345	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	346	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	347	23	2589	318.383	-445.593	D	7.686	7.593	0.093	3.3	91.89	7.84	0	0	0	0.28
2002	348	23	2581	320.179	-445.667	D	8.053	7.593	0.461	3.3	92.56	7.18	0	0	0	0.26
2002	349	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	353	23	2781	339.842	-425.379	D	7.659	7.593	0.066	3.3	87.69	11.76	0	0	0	0.55
2002	354	23	2468	334.002	-434.887	D	7.593	7.593	0	3.3	87.81	11.82	0	0	0	0.32
2002	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	356	23	2781	339.842	-425.379	D	7.594	7.593	0.001	3.3	79.22	20.49	0	0	0	0.39
2002	357	23	2571	322.646	-445.476	D	7.604	7.593	0.011	3.3	88.09	11.68	0	0	0	0.24
2002	358	23	2588	318.452	-445.8	D	7.643	7.593	0.05	3.3	84.98	14.78	0	0	0	0.24
2002	359	23	2589	318.383	-445.593	D	7.632	7.593	0.039	3.3	89.46	10.3	0	0	0	0.24
2002	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	365	23	2704	329.056	-425.092	D	7.612	7.593	0.02	3.3	85.82	13.85	0	0	0	0.34
									0.909							
MARSHALL											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	2	23	2789	340.496	-426.449	D	7.64	7.593	0.047	3.3	67.24	32.06	0	0	0	0.7
2002	3	23	2789	340.496	-426.449	D	7.683	7.593	0.09	3.3	67.17	32.19	0	0	0	0.63

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	7	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	9	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	10	23	2684	326.713	-427.014	D	7.704	7.593	0.111	3.3	83.17	16.24	0	0	0	0.59
2002	11	23	2789	340.496	-426.449	D	7.653	7.593	0.06	3.3	88.3	11.37	0	0	0	0.33
2002	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	17	23	2789	340.496	-426.449	D	7.619	7.593	0.027	3.3	62.02	36.93	0	0	0	1.06
2002	18	23	2684	326.713	-427.014	D	7.646	7.593	0.054	3.3	65.97	33.43	0	0	0	0.6
2002	19	23	2758	335.862	-424.454	D	7.6	7.593	0.007	3.3	86.38	13.34	0	0	0	0.28
2002	20	23	2781	339.842	-425.379	D	7.642	7.593	0.05	3.3	83.45	16.3	0	0	0	0.25
2002	21	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	24	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	75.35	24.46	0	0	0	0.48
2002	25	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	26	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	27	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	30	23	2758	335.862	-424.454	D	7.965	7.593	0.372	3.3	85.18	14.53	0	0	0	0.29
2002	31	23	2694	327.861	-425.964	D	7.799	7.593	0.207	3.3	86.8	13.04	0	0	0	0.17
2002	32	23	2781	339.842	-425.379	D	7.461	7.459	0.002	3.013	89.2	10.75	0	0	0	0.07
2002	33	23	2788	340.294	-426.448	D	7.453	7.453	0	3	90.61	9.88	0	0	0	0.49
2002	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	35	23	2758	335.862	-424.454	D	7.479	7.453	0.026	3	74.25	24.87	0	0	0	0.88
2002	36	23	2589	318.383	-445.593	D	7.467	7.453	0.014	3	77.27	22.16	0	0	0	0.59
2002	37	23	1415	329.185	-425.086	D	7.453	7.453	0	3	82.81	16.94	0	0	0	0.33
2002	38	23	2781	339.842	-425.379	D	7.453	7.453	0.001	3	88.77	11.24	0	0	0	0.26
2002	39	23	2789	340.496	-426.449	D	7.453	7.453	0.001	3	90.94	9.31	0	0	0	0.18
2002	40	23	2208	335.391	-424.814	D	7.453	7.453	0	3	94.56	6.77	0	0	0	0.17
2002	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	42	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	43	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	44	23	2694	327.861	-425.964	D	7.526	7.453	0.073	3	54.35	43.97	0	0	0	1.68
2002	45	23	2790	340.421	-426.562	D	7.464	7.453	0.011	3	77.2	22.15	0	0	0	0.66
2002	46	23	2780	339.614	-425.419	D	7.453	7.453	0	3	85.77	14.32	0	0	0	0.28
2002	47	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	48	23	2789	340.496	-426.449	D	7.466	7.453	0.014	3	79.75	18.92	0	0	0	1.35
2002	49	23	2758	335.862	-424.454	D	7.46	7.453	0.007	3	85.71	13.69	0	0	0	0.61
2002	50	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	53	23	2790	340.421	-426.562	D	7.483	7.453	0.03	3	66.3	32.36	0	0	0	1.35
2002	54	23	2781	339.842	-425.379	D	7.473	7.453	0.021	3	80.1	19.26	0	0	0	0.65
2002	55	23	2789	340.496	-426.449	D	7.453	7.453	0	3	88.93	11.03	0	0	0	0.37
2002	56	23	2789	340.496	-426.449	D	7.453	7.453	0	3	84.4	16.16	0	0	0	0.5
2002	57	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	58	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0
2002	61	23	2781	339.842	-425.379	D	7.316	7.311	0.005	2.7	75.88	23.63	0	0	0	0.53
2002	62	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	63	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	70	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	71	23	1414	329.196	-425.335	D	7.311	7.311	0	2.7	95.66	3.78	0	0	0	0.73
2002	72	23	2781	339.842	-425.379	D	7.313	7.311	0.002	2.7	87.76	11.92	0	0	0	0.45
2002	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	74	23	2789	340.496	-426.449	D	7.324	7.311	0.013	2.7	84.35	15.12	0	0	0	0.54
2002	75	23	2789	340.496	-426.449	D	7.451	7.311	0.141	2.7	81.52	18	0	0	0	0.48
2002	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	79	23	2628	320.933	-436.998	D	7.441	7.311	0.131	2.7	76.94	22.29	0	0	0	0.77
2002	80	23	2589	318.383	-445.593	D	7.349	7.311	0.038	2.7	87.84	11.75	0	0	0	0.41
2002	81	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	82	23	2789	340.496	-426.449	D	7.311	7.311	0	2.7	77.41	22.18	0	0	0	0.38
2002	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	84	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	85	23	2789	340.496	-426.449	D	7.37	7.311	0.059	2.7	69.71	29.34	0	0	0	0.95
2002	86	23	2789	340.496	-426.449	D	7.355	7.311	0.044	2.7	94.11	5.56	0	0	0	0.34
2002	87	23	2781	339.842	-425.379	D	7.326	7.311	0.016	2.7	97.02	2.75	0	0	0	0.22
2002	88	23	2425	338.567	-427.733	D	7.404	7.311	0.093	2.7	98.38	1.14	0	0	0	0.49
2002	89	23	2571	322.646	-445.476	D	7.365	7.311	0.054	2.7	88.78	10.76	0	0	0	0.47
2002	90	23	2757	335.63	-424.484	D	7.313	7.311	0.002	2.7	97.76	1.54	0	0	0	0.74
2002	91	23	2789	340.496	-426.449	D	7.369	7.356	0.013	2.796	95.6	3.84	0	0	0	0.58
2002	92	23	2684	326.713	-427.014	D	7.394	7.358	0.035	2.8	91.86	7.78	0	0	0	0.36
2002	93	23	2789	340.496	-426.449	D	7.401	7.358	0.042	2.8	72.84	26.19	0	0	0	0.97
2002	94	23	2781	339.842	-425.379	D	7.476	7.358	0.118	2.8	87.02	12.54	0	0	0	0.44
2002	95	23	2589	318.383	-445.593	D	7.502	7.358	0.143	2.8	94.3	5.38	0	0	0	0.32
2002	96	23	2694	327.861	-425.964	D	7.407	7.358	0.049	2.8	97.15	2.61	0	0	0	0.24
2002	97	23	2789	340.496	-426.449	D	7.361	7.358	0.003	2.8	97.59	2.19	0	0	0	0.22
2002	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	99	23	2781	339.842	-425.379	D	7.455	7.358	0.097	2.8	91.57	7.98	0	0	0	0.45
2002	100	23	2589	318.383	-445.593	D	7.373	7.358	0.015	2.8	97.95	1.63	0	0	0	0.42
2002	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	113	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	115	23	2781	339.842	-425.379	D	7.371	7.358	0.013	2.8	59.91	37.63	0	0	0	2.47
2002	116	23	2781	339.842	-425.379	D	7.363	7.358	0.005	2.8	92.56	7.02	0	0	0	0.44
2002	117	23	2781	339.842	-425.379	D	7.359	7.358	0.001	2.8	96.41	3.28	0	0	0	0.31
2002	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	119	23	2789	340.496	-426.449	D	7.358	7.358	0	2.8	101.15	0.35	0	0	0	0.63
2002	120	23	2789	340.496	-426.449	D	7.358	7.358	0	2.8	99.47	0.36	0	0	0	0.42

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2002	122	23	2609	319.563	-441.09	D	7.679	7.639	0.04	3.4	85.36	14.08	0	0	0	0.56
2002	123	23	2600	318.952	-443.12	D	7.679	7.639	0.04	3.4	97.69	2.02	0	0	0	0.3
2002	124	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	130	23	2781	339.842	-425.379	D	7.681	7.639	0.042	3.4	96.62	3.12	0	0	0	0.26
2002	131	23	2781	339.842	-425.379	D	7.644	7.639	0.005	3.4	98.71	1.17	0	0	0	0.13
2002	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	133	23	2589	318.383	-445.593	D	7.727	7.639	0.088	3.4	83.45	16.11	0	0	0	0.44
2002	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	137	23	2589	318.383	-445.593	D	7.663	7.639	0.024	3.4	95.99	3.88	0	0	0	0.14
2002	138	23	2758	335.862	-424.454	D	7.64	7.639	0.001	3.4	97.97	1.73	0	0	0	0.3
2002	139	23	2684	326.713	-427.014	D	7.977	7.639	0.339	3.4	94.16	5.59	0	0	0	0.25
2002	140	23	2588	318.452	-445.8	D	7.641	7.639	0.002	3.4	99.12	0.61	0	0	0	0.3
2002	141	23	2781	339.842	-425.379	D	7.704	7.639	0.065	3.4	97.41	2.27	0	0	0	0.31
2002	142	23	2781	339.842	-425.379	D	7.668	7.639	0.029	3.4	98.68	1.1	0	0	0	0.22
2002	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	156	23	2704	329.056	-425.092	D	7.64	7.639	0.001	3.4	98.44	1.08	0	0	0	0.28
2002	157	23	2628	320.933	-436.998	D	7.677	7.639	0.039	3.4	97.64	2.02	0	0	0	0.34
2002	158	23	2589	318.383	-445.593	D	7.648	7.639	0.009	3.4	99.47	0.23	0	0	0	0.29
2002	159	23	2758	335.862	-424.454	D	7.639	7.639	0	3.4	99.54	0.16	0	0	0	0.18

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	160	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	165	23	2789	340.496	-426.449	D	7.748	7.639	0.109	3.4	94.97	4.67	0	0	0	0.37
2002	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	168	23	2781	339.842	-425.379	D	7.81	7.639	0.171	3.4	99.14	0.57	0	0	0	0.3
2002	169	23	2789	340.496	-426.449	D	7.748	7.639	0.109	3.4	99.59	0.2	0	0	0	0.2
2002	170	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	99.74	0.08	0	0	0	0.18
2002	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	172	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	179	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	180	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	101.13	0.1	0	0	0	0.15
2002	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	187	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	188	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	192	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	99.28	0.53	0	0	0	0.2
2002	193	23	2781	339.842	-425.379	D	7.648	7.639	0.01	3.4	99.36	0.5	0	0	0	0.15
2002	194	23	2781	339.842	-425.379	D	7.644	7.639	0.005	3.4	97.72	2.18	0	0	0	0.12
2002	195	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	196	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	204	23	2781	339.842	-425.379	D	7.661	7.639	0.022	3.4	99.65	0.08	0	0	0	0.27
2002	205	23	2789	340.496	-426.449	D	7.711	7.639	0.072	3.4	99.37	0.43	0	0	0	0.2
2002	206	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	207	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	208	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	214	23	1449	329.434	-425.075	D	7.639	7.639	0	3.4	99.78	0.05	0	0	0	0.17
2002	215	23	1951	333.842	-434.874	D	7.64	7.639	0.001	3.4	99.93	0.03	0	0	0	0.11
2002	216	23	1415	329.185	-425.086	D	7.64	7.639	0.001	3.4	99.85	0.07	0	0	0	0.1
2002	217	23	2409	339.158	-425.648	D	7.639	7.639	0	3.4	99.85	0.02	0	0	0	0.1
2002	218	23	2781	339.842	-425.379	D	7.678	7.639	0.039	3.4	99.61	0.16	0	0	0	0.24
2002	219	23	2571	322.646	-445.476	D	7.767	7.639	0.129	3.4	98.99	0.84	0	0	0	0.17
2002	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	236	23	2781	339.842	-425.379	D	7.651	7.639	0.012	3.4	99.43	0.18	0	0	0	0.4
2002	237	23	2781	339.842	-425.379	D	8.01	7.639	0.371	3.4	97.23	2.51	0	0	0	0.26

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	238	23	2588	318.452	-445.8	D	7.682	7.639	0.043	3.4	99.42	0.31	0	0	0	0.27
2002	239	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	242	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	247	23	2781	339.842	-425.379	D	7.733	7.731	0.002	3.6	99.64	0.04	0	0	0	0.31
2002	248	23	2781	339.842	-425.379	D	7.781	7.731	0.05	3.6	99.55	0.21	0	0	0	0.24
2002	249	23	2704	329.056	-425.092	D	7.743	7.731	0.012	3.6	99.75	0.04	0	0	0	0.21
2002	250	23	1414	329.196	-425.335	D	7.731	7.731	0	3.6	99.51	0.02	0	0	0	0.19
2002	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	254	23	2589	318.383	-445.593	D	7.745	7.731	0.015	3.6	98.8	0.64	0	0	0	0.55
2002	255	23	2588	318.452	-445.8	D	7.765	7.731	0.034	3.6	98.76	0.86	0	0	0	0.38
2002	256	23	2588	318.452	-445.8	D	7.735	7.731	0.005	3.6	99.59	0.15	0	0	0	0.25
2002	257	23	2704	329.056	-425.092	D	7.733	7.731	0.002	3.6	99.6	0.17	0	0	0	0.2
2002	258	23	2781	339.842	-425.379	D	7.742	7.731	0.012	3.6	99.35	0.28	0	0	0	0.38
2002	259	23	2781	339.842	-425.379	D	8.111	7.731	0.381	3.6	97.7	2.06	0	0	0	0.25
2002	260	23	2781	339.842	-425.379	D	7.839	7.731	0.109	3.6	99.32	0.51	0	0	0	0.18
2002	261	23	2781	339.842	-425.379	D	7.733	7.731	0.002	3.6	97.78	2.05	0	0	0	0.13
2002	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	265	23	2599	318.958	-443.364	D	7.846	7.731	0.115	3.6	95.11	4.13	0	0	0	0.77
2002	266	23	2589	318.383	-445.593	D	7.788	7.731	0.057	3.6	94.62	4.8	0	0	0	0.58
2002	267	23	2704	329.056	-425.092	D	7.748	7.731	0.017	3.6	98.31	1.28	0	0	0	0.43
2002	268	23	2781	339.842	-425.379	D	7.758	7.731	0.028	3.6	98.61	1.12	0	0	0	0.27
2002	269	23	2704	329.056	-425.092	D	7.734	7.731	0.003	3.6	99.43	0.37	0	0	0	0.2
2002	270	23	2611	319.699	-440.64	D	7.83	7.731	0.099	3.6	99.1	0.39	0	0	0	0.51
2002	271	23	2571	322.646	-445.476	D	7.833	7.731	0.102	3.6	99.39	0.32	0	0	0	0.29
2002	272	23	2704	329.056	-425.092	D	7.785	7.731	0.054	3.6	99.05	0.76	0	0	0	0.19
2002	273	23	2758	335.862	-424.454	D	7.731	7.731	0.001	3.6	99.67	0.04	0	0	0	0.14
2002	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	278	23	2781	339.842	-425.379	D	7.606	7.593	0.013	3.3	97.67	1.51	0	0	0	0.82
2002	279	23	2789	340.496	-426.449	D	7.602	7.593	0.01	3.3	98	1.55	0	0	0	0.46
2002	280	23	2680	326.681	-427.94	D	7.615	7.593	0.023	3.3	81.79	16.39	0	0	0	1.83
2002	281	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	103.68	1.29	0	0	0	0.6
2002	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	285	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	286	23	2758	335.862	-424.454	D	7.653	7.593	0.061	3.3	62.1	36.45	0	0	0	1.45
2002	287	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	288	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	289	23	1415	329.185	-425.086	D	7.615	7.593	0.022	3.3	66.4	31.92	0	0	0	1.68
2002	290	23	2781	339.842	-425.379	D	7.6	7.593	0.008	3.3	85.18	14.46	0	0	0	0.39
2002	291	23	2418	339.946	-426.612	D	7.593	7.593	0	3.3	98.33	1.02	0	0	0	0.28
2002	292	23	2781	339.842	-425.379	D	7.658	7.593	0.065	3.3	84.94	14.72	0	0	0	0.34
2002	293	23	2571	322.646	-445.476	D	7.644	7.593	0.051	3.3	86.97	12.85	0	0	0	0.19
2002	294	23	2588	318.452	-445.8	D	7.594	7.593	0.002	3.3	96.19	3.69	0	0	0	0.15
2002	295	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	99.46	1.04	0	0	0	0.13
2002	296	23	1415	329.185	-425.086	D	7.593	7.593	0.001	3.3	92.49	7.29	0	0	0	0.25
2002	297	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	298	23	2781	339.842	-425.379	D	7.597	7.593	0.004	3.3	87.15	12.48	0	0	0	0.39
2002	299	23	2789	340.496	-426.449	D	7.595	7.593	0.003	3.3	88	11.75	0	0	0	0.31
2002	300	23	2758	335.862	-424.454	D	7.831	7.593	0.238	3.3	87.61	12.13	0	0	0	0.26
2002	301	23	2694	327.861	-425.964	D	7.606	7.593	0.014	3.3	90.81	9.01	0	0	0	0.19
2002	302	23	1048	326.791	-427.189	D	7.593	7.593	0	3.3	92.68	6.73	0	0	0	0.16
2002	303	23	2588	318.452	-445.8	D	7.716	7.593	0.123	3.3	94.78	4.92	0	0	0	0.3
2002	304	23	2589	318.383	-445.593	D	7.901	7.593	0.308	3.3	86.54	13.15	0	0	0	0.3
2002	305	23	2789	340.496	-426.449	D	7.574	7.548	0.026	3.204	85.13	14.5	0	0	0	0.36
2002	306	23	2571	322.646	-445.476	D	7.554	7.546	0.007	3.2	85	14.6	0	0	0	0.42
2002	307	23	2789	340.496	-426.449	D	7.561	7.546	0.015	3.2	86.1	13.63	0	0	0	0.28
2002	308	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	309	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	310	23	2789	340.496	-426.449	D	7.55	7.546	0.004	3.2	90.26	9.56	0	0	0	0.2
2002	311	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	316	23	2781	339.842	-425.379	D	7.585	7.546	0.038	3.2	61.88	36.61	0	0	0	1.51
2002	317	23	2418	339.946	-426.612	D	7.546	7.546	0	3.2	84.92	9.85	0	0	0	1
2002	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	319	23	2711	330.671	-424.932	D	7.787	7.546	0.241	3.2	74.51	24.79	0	0	0	0.69
2002	320	23	2694	327.861	-425.964	D	7.733	7.546	0.187	3.2	81.41	18.1	0	0	0	0.49
2002	321	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	80.74	18.69	0	0	0	0.59
2002	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	323	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	326	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	46.51	51.61	0	0	0	1.93
2002	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	328	23	2704	329.056	-425.092	D	7.546	7.546	0	3.2	90.19	9.49	0	0	0	0.38
2002	329	23	2628	320.933	-436.998	D	7.577	7.546	0.031	3.2	70.05	29.14	0	0	0	0.82
2002	330	23	2704	329.056	-425.092	D	7.604	7.546	0.058	3.2	78.06	21.37	0	0	0	0.57
2002	331	23	2593	318.996	-444.827	D	7.696	7.546	0.15	3.2	64.74	34.33	0	0	0	0.94
2002	332	23	2789	340.496	-426.449	D	7.573	7.546	0.027	3.2	73.45	26.11	0	0	0	0.44
2002	333	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0
2002	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	337	23	2571	322.646	-445.476	D	7.643	7.593	0.05	3.3	77.09	22.25	0	0	0	0.66
2002	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	339	23	2628	320.933	-436.998	D	7.707	7.593	0.114	3.3	59.93	39.01	0	0	0	1.06
2002	340	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	71.85	27.48	0	0	0	0.54
2002	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	342	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	85.03	14.65	0	0	0	0.23
2002	343	23	2704	329.056	-425.092	D	7.675	7.593	0.082	3.3	87.81	12.02	0	0	0	0.18
2002	344	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	345	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	346	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	347	23	2628	320.933	-436.998	D	7.704	7.593	0.112	3.3	83.63	16.09	0	0	0	0.28
2002	348	23	2789	340.496	-426.449	D	7.743	7.593	0.151	3.3	84.91	14.8	0	0	0	0.29
2002	349	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	356	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	67.83	31.8	0	0	0	0.48
2002	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	358	23	2704	329.056	-425.092	D	7.636	7.593	0.043	3.3	78.2	21.44	0	0	0	0.35
2002	359	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	86.35	13.39	0	0	0	0.22
2002	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	365	23	2752	334.471	-424.635	D	7.615	7.593	0.022	3.3	59.4	39.42	0	0	0	1.18
									0.381							
COLUMBIA											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	2	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	46.36	53.65	0	0	0	0.02
2002	3	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	49.92	50.07	0	0	0	0.02
2002	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	7	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	9	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	10	23	2789	340.496	-426.449	D	7.622	7.593	0.029	3.3	76.83	23.15	0	0	0	0.02
2002	11	23	2468	334.002	-434.887	D	7.594	7.593	0.002	3.3	78.39	21.57	0	0	0	0.01
2002	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	17	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	51.32	48.64	0	0	0	0.02
2002	18	23	2789	340.496	-426.449	D	7.622	7.593	0.03	3.3	59.25	40.74	0	0	0	0.02
2002	19	23	2758	335.862	-424.454	D	7.598	7.593	0.005	3.3	77.95	22.04	0	0	0	0.01
2002	20	23	2781	339.842	-425.379	D	7.613	7.593	0.02	3.3	78.31	21.69	0	0	0	0.01
2002	21	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	24	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	25	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	26	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	27	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	30	23	2758	335.862	-424.454	D	7.695	7.593	0.103	3.3	73.67	26.32	0	0	0	0.01
2002	31	23	2704	329.056	-425.092	D	7.777	7.593	0.184	3.3	79.72	20.27	0	0	0	0.01
2002	32	23	2781	339.842	-425.379	D	7.46	7.459	0.001	3.013	82.59	17.46	0	0	0	0
2002	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	35	23	2781	339.842	-425.379	D	7.453	7.453	0	3	64.97	35.74	0	0	0	0.03
2002	36	23	2711	330.671	-424.932	D	7.465	7.453	0.012	3	61.41	38.58	0	0	0	0.02
2002	37	23	1047	326.802	-427.438	D	7.453	7.453	0	3	72.47	27.9	0	0	0	0.01
2002	38	23	2789	340.496	-426.449	D	7.453	7.453	0	3	83.74	17.42	0	0	0	0.01
2002	39	23	2418	339.946	-426.612	D	7.453	7.453	0	3	86.08	15.21	0	0	0	0.01
2002	40	23	2368	337.982	-427.198	D	7.453	7.453	0	3	97.48	11.52	0	0	0	0.01
2002	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	42	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	43	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	44	23	2789	340.496	-426.449	D	7.458	7.453	0.005	3	42.91	57.05	0	0	0	0.04
2002	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	46	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	47	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	48	23	2789	340.496	-426.449	D	7.453	7.453	0	3	87.94	12.32	0	0	0	0.04
2002	49	23	2789	340.496	-426.449	D	7.455	7.453	0.003	3	73.14	26.87	0	0	0	0.02
2002	50	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	53	23	2789	340.496	-426.449	D	7.453	7.453	0	3	73.4	27.04	0	0	0	0.03
2002	54	23	2789	340.496	-426.449	D	7.455	7.453	0.002	3	73.24	26.84	0	0	0	0.02
2002	55	23	2789	340.496	-426.449	D	7.453	7.453	0	3	83.16	17.1	0	0	0	0.01
2002	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	57	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	58	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0
2002	61	23	2781	339.842	-425.379	D	7.312	7.311	0.002	2.7	66.8	33.34	0	0	0	0.01
2002	62	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	63	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	70	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	71	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	74	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	75	23	2704	329.056	-425.092	D	7.328	7.311	0.017	2.7	38.91	61.04	0	0	0	0.05
2002	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	79	23	2704	329.056	-425.092	D	7.393	7.311	0.083	2.7	79.34	20.65	0	0	0	0.01
2002	80	23	2789	340.496	-426.449	D	7.327	7.311	0.016	2.7	79.79	20.19	0	0	0	0.01
2002	81	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	82	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	84	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	85	23	2684	326.713	-427.014	D	7.363	7.311	0.052	2.7	75.43	24.55	0	0	0	0.02
2002	86	23	2789	340.496	-426.449	D	7.312	7.311	0.001	2.7	95.99	4.11	0	0	0	0.01
2002	87	23	2789	340.496	-426.449	D	7.316	7.311	0.005	2.7	91.78	8.21	0	0	0	0.01
2002	88	23	2789	340.496	-426.449	D	7.344	7.311	0.033	2.7	96.62	3.36	0	0	0	0.02
2002	89	23	2468	334.002	-434.887	D	7.316	7.311	0.005	2.7	85.67	14.35	0	0	0	0.02
2002	90	23	2705	329.287	-425.069	D	7.311	7.311	0.001	2.7	96.94	3.02	0	0	0	0.02
2002	91	23	2781	339.842	-425.379	D	7.36	7.356	0.004	2.796	91.29	8.73	0	0	0	0.02
2002	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	94	23	2789	340.496	-426.449	D	7.362	7.358	0.004	2.8	80.27	19.78	0	0	0	0.02
2002	95	23	2781	339.842	-425.379	D	7.369	7.358	0.01	2.8	88.18	11.82	0	0	0	0.01
2002	96	23	2789	340.496	-426.449	D	7.392	7.358	0.033	2.8	94.62	5.37	0	0	0	0.01
2002	97	23	2781	339.842	-425.379	D	7.363	7.358	0.005	2.8	97.22	2.76	0	0	0	0.01
2002	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	99	23	2789	340.496	-426.449	D	7.361	7.358	0.003	2.8	97.77	2.24	0	0	0	0.02
2002	100	23	2711	330.671	-424.932	D	7.378	7.358	0.02	2.8	95.96	4.02	0	0	0	0.01
2002	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	113	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	115	23	2789	340.496	-426.449	D	7.365	7.358	0.007	2.8	93.95	6.05	0	0	0	0.03
2002	116	23	2758	335.862	-424.454	D	7.37	7.358	0.012	2.8	91.2	8.8	0	0	0	0.02
2002	117	23	2781	339.842	-425.379	D	7.359	7.358	0	2.8	94.12	5.74	0	0	0	0.01
2002	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2002	122	23	2789	340.496	-426.449	D	7.649	7.639	0.01	3.4	86.87	13.11	0	0	0	0.01
2002	123	23	2789	340.496	-426.449	D	7.666	7.639	0.028	3.4	91.03	8.97	0	0	0	0.01
2002	124	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	130	23	2789	340.496	-426.449	D	7.652	7.639	0.013	3.4	97.83	2.17	0	0	0	0.01
2002	131	23	2781	339.842	-425.379	D	7.646	7.639	0.007	3.4	97.75	2.24	0	0	0	0.01
2002	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	133	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	60.49	38.97	0	0	0	0.03
2002	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	137	23	2610	319.631	-440.865	D	7.66	7.639	0.021	3.4	90.85	9.15	0	0	0	0.01
2002	138	23	2571	322.646	-445.476	D	7.646	7.639	0.007	3.4	86.37	13.62	0	0	0	0.01
2002	139	23	2789	340.496	-426.449	D	7.735	7.639	0.096	3.4	91.46	8.54	0	0	0	0.01
2002	140	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	98.01	1.85	0	0	0	0.02

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	141	23	2781	339.842	-425.379	D	7.671	7.639	0.032	3.4	94.89	5.1	0	0	0	0.01
2002	142	23	2789	340.496	-426.449	D	7.656	7.639	0.017	3.4	97.78	2.21	0	0	0	0.01
2002	143	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	98.51	0.88	0	0	0	0
2002	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	156	23	2749	333.775	-424.726	D	7.639	7.639	0	3.4	96.85	2.75	0	0	0	0.01
2002	157	23	2628	320.933	-436.998	D	7.767	7.639	0.128	3.4	86.5	13.48	0	0	0	0.01
2002	158	23	2589	318.383	-445.593	D	7.668	7.639	0.029	3.4	99.44	0.56	0	0	0	0.01
2002	159	23	2781	339.842	-425.379	D	7.667	7.639	0.028	3.4	99.38	0.62	0	0	0	0.01
2002	160	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.83	0.13	0	0	0	0.01
2002	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	168	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	98.53	1.5	0	0	0	0.01
2002	169	23	2789	340.496	-426.449	D	7.645	7.639	0.006	3.4	99.76	0.24	0	0	0	0.01
2002	170	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.96	0.17	0	0	0	0.01
2002	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	172	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	179	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	180	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	186	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	100.12	0.08	0	0	0	0.01
2002	187	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	99.95	0.08	0	0	0	0
2002	188	23	2704	329.056	-425.092	D	7.641	7.639	0.002	3.4	99.95	0.11	0	0	0	0
2002	189	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	98.12	0.04	0	0	0	0
2002	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	192	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	98.86	1.21	0	0	0	0.01
2002	193	23	2780	339.614	-425.419	D	7.644	7.639	0.005	3.4	98.54	1.47	0	0	0	0.01
2002	194	23	1415	329.185	-425.086	D	7.642	7.639	0.004	3.4	97.18	2.86	0	0	0	0
2002	195	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	99.84	0.26	0	0	0	0
2002	196	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	204	23	2704	329.056	-425.092	D	7.641	7.639	0.002	3.4	99.84	0.16	0	0	0	0.01
2002	205	23	2781	339.842	-425.379	D	7.775	7.639	0.136	3.4	99.08	0.91	0	0	0	0.01
2002	206	23	2589	318.383	-445.593	D	7.665	7.639	0.026	3.4	99.83	0.17	0	0	0	0.01
2002	207	23	2781	339.842	-425.379	D	7.643	7.639	0.005	3.4	99.76	0.26	0	0	0	0.01
2002	208	23	2337	337.15	-425.236	D	7.639	7.639	0	3.4	99.15	0.03	0	0	0	0.01
2002	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	214	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	215	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	216	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	217	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	218	23	2789	340.496	-426.449	D	7.659	7.639	0.02	3.4	99.59	0.4	0	0	0	0.01

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	219	23	2571	322.646	-445.476	D	7.729	7.639	0.09	3.4	98.07	1.92	0	0	0	0.01
2002	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	237	23	2789	340.496	-426.449	D	7.657	7.639	0.018	3.4	98.94	1.04	0	0	0	0.02
2002	238	23	2588	318.452	-445.8	D	7.725	7.639	0.086	3.4	95.37	4.62	0	0	0	0.01
2002	239	23	2684	326.713	-427.014	D	7.654	7.639	0.015	3.4	98.47	1.52	0	0	0	0.01
2002	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	242	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	247	23	2781	339.842	-425.379	D	7.731	7.731	0	3.6	99.9	0.09	0	0	0	0.01
2002	248	23	2781	339.842	-425.379	D	7.747	7.731	0.016	3.6	99.6	0.38	0	0	0	0.01
2002	249	23	2704	329.056	-425.092	D	7.734	7.731	0.003	3.6	99.93	0.07	0	0	0	0.01
2002	250	23	1242	327.988	-426.138	D	7.731	7.731	0	3.6	99.17	0.03	0	0	0	0.01
2002	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	254	23	2789	340.496	-426.449	D	7.799	7.731	0.068	3.6	92.9	7.07	0	0	0	0.04
2002	255	23	2571	322.646	-445.476	D	7.794	7.731	0.063	3.6	93.86	6.13	0	0	0	0.01
2002	256	23	2588	318.452	-445.8	D	7.74	7.731	0.01	3.6	99.76	0.24	0	0	0	0.01
2002	257	23	2704	329.056	-425.092	D	7.734	7.731	0.004	3.6	99.72	0.29	0	0	0	0.01

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	258	23	2417	339.654	-425.626	D	7.731	7.731	0	3.6	98.96	0.53	0	0	0	0.01
2002	259	23	2789	340.496	-426.449	D	7.788	7.731	0.057	3.6	97.63	2.36	0	0	0	0.01
2002	260	23	2789	340.496	-426.449	D	7.775	7.731	0.045	3.6	98.58	1.41	0	0	0	0.01
2002	261	23	2781	339.842	-425.379	D	7.732	7.731	0.001	3.6	96.04	3.92	0	0	0	0
2002	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	265	23	2789	340.496	-426.449	D	7.757	7.731	0.027	3.6	90.98	8.99	0	0	0	0.04
2002	266	23	2789	340.496	-426.449	D	7.756	7.731	0.025	3.6	95.35	4.63	0	0	0	0.02
2002	267	23	2758	335.862	-424.454	D	7.76	7.731	0.029	3.6	97.11	2.87	0	0	0	0.02
2002	268	23	2758	335.862	-424.454	D	7.744	7.731	0.013	3.6	98.24	1.75	0	0	0	0.01
2002	269	23	2704	329.056	-425.092	D	7.731	7.731	0.001	3.6	99.27	0.49	0	0	0	0.01
2002	270	23	2588	318.452	-445.8	D	7.805	7.731	0.074	3.6	98.33	1.66	0	0	0	0.02
2002	271	23	2789	340.496	-426.449	D	7.766	7.731	0.035	3.6	99.05	0.93	0	0	0	0.01
2002	272	23	2758	335.862	-424.454	D	7.743	7.731	0.012	3.6	98.64	1.35	0	0	0	0.01
2002	273	23	2758	335.862	-424.454	D	7.731	7.731	0	3.6	98.85	0.08	0	0	0	0.01
2002	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	278	23	2789	340.496	-426.449	D	7.597	7.593	0.005	3.3	98.6	1.38	0	0	0	0.03
2002	279	23	2789	340.496	-426.449	D	7.601	7.593	0.008	3.3	97.24	2.74	0	0	0	0.02
2002	280	23	2789	340.496	-426.449	D	7.601	7.593	0.008	3.3	96.04	3.92	0	0	0	0.03
2002	281	23	2589	318.383	-445.593	D	7.611	7.593	0.019	3.3	95.39	4.6	0	0	0	0.02
2002	282	23	1048	326.791	-427.189	D	7.593	7.593	0	3.3	97.89	1.23	0	0	0	0.01
2002	283	23	1046	326.812	-427.688	D	7.593	7.593	0	3.3	90.55	0.72	0	0	0	0.01
2002	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	285	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	286	23	2704	329.056	-425.092	D	7.615	7.593	0.022	3.3	86.2	13.78	0	0	0	0.02
2002	287	23	2628	320.933	-436.998	D	7.598	7.593	0.005	3.3	88.39	11.58	0	0	0	0.02
2002	288	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	92.51	7.57	0	0	0	0.01
2002	289	23	2789	340.496	-426.449	D	7.64	7.593	0.047	3.3	60.93	39.02	0	0	0	0.05
2002	290	23	2571	322.646	-445.476	D	7.595	7.593	0.003	3.3	85.9	14.11	0	0	0	0.02
2002	291	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	292	23	2781	339.842	-425.379	D	7.609	7.593	0.017	3.3	79.56	20.42	0	0	0	0.01
2002	293	23	2704	329.056	-425.092	D	7.702	7.593	0.11	3.3	77.55	22.44	0	0	0	0.01
2002	294	23	2684	326.713	-427.014	D	7.605	7.593	0.012	3.3	93.71	6.28	0	0	0	0.01
2002	295	23	2684	326.713	-427.014	D	7.599	7.593	0.007	3.3	95.29	4.72	0	0	0	0.01
2002	296	23	2758	335.862	-424.454	D	7.606	7.593	0.014	3.3	93.06	6.93	0	0	0	0.01

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	297	23	1415	329.185	-425.086	D	7.596	7.593	0.003	3.3	94.97	5.02	0	0	0	0.01
2002	298	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	299	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	97.65	2.51	0	0	0	0.01
2002	300	23	2781	339.842	-425.379	D	7.737	7.593	0.144	3.3	83.08	16.91	0	0	0	0.01
2002	301	23	2704	329.056	-425.092	D	7.621	7.593	0.029	3.3	86.85	13.14	0	0	0	0.01
2002	302	23	2711	330.671	-424.932	D	7.654	7.593	0.062	3.3	78.39	21.59	0	0	0	0.01
2002	303	23	2588	318.452	-445.8	D	7.938	7.593	0.345	3.3	84.24	15.75	0	0	0	0.01
2002	304	23	2476	332.154	-435.398	D	7.829	7.593	0.236	3.3	80.35	19.64	0	0	0	0.01
2002	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2002	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	307	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	79.38	21.36	0	0	0	0.01
2002	308	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	309	23	2411	339.428	-426.135	D	7.546	7.546	0	3.2	89.45	10.64	0	0	0	0
2002	310	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	74.7	25.34	0	0	0	0.01
2002	311	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	316	23	2789	340.496	-426.449	D	7.549	7.546	0.003	3.2	42.32	57.65	0	0	0	0.05
2002	317	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	319	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	38.06	65.28	0	0	0	0.02
2002	320	23	2789	340.496	-426.449	D	7.564	7.546	0.017	3.2	46.03	53.94	0	0	0	0.04
2002	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	323	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	328	23	1415	329.185	-425.086	D	7.546	7.546	0	3.2	75.65	24.58	0	0	0	0.01
2002	329	23	2789	340.496	-426.449	D	7.601	7.546	0.055	3.2	60.95	39.03	0	0	0	0.02
2002	330	23	2781	339.842	-425.379	D	7.595	7.546	0.049	3.2	66.93	33.06	0	0	0	0.02
2002	331	23	2789	340.496	-426.449	D	7.592	7.546	0.046	3.2	58.17	41.82	0	0	0	0.02
2002	332	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	57.02	42.85	0	0	0	0.02
2002	333	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	337	23	2588	318.452	-445.8	D	7.604	7.593	0.012	3.3	61.01	38.96	0	0	0	0.03
2002	338	23	2588	318.452	-445.8	D	7.593	7.593	0	3.3	65.97	34.01	0	0	0	0.01
2002	339	23	2789	340.496	-426.449	D	7.605	7.593	0.013	3.3	31.85	68.12	0	0	0	0.04
2002	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	342	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	343	23	2704	329.056	-425.092	D	7.649	7.593	0.056	3.3	74.03	25.97	0	0	0	0.01
2002	344	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	345	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	346	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	347	23	2704	329.056	-425.092	D	7.681	7.593	0.088	3.3	73.75	26.24	0	0	0	0.01
2002	348	23	2790	340.421	-426.562	D	7.653	7.593	0.061	3.3	73.28	26.71	0	0	0	0.01
2002	349	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	358	23	2781	339.842	-425.379	D	7.631	7.593	0.038	3.3	66.05	33.94	0	0	0	0.01
2002	359	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	365	23	2628	320.933	-436.998	D	7.621	7.593	0.029	3.3	45.76	54.2	0	0	0	0.04
									0.345							
HOLCIM									**DELTA**		**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2002	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	2	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	3	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	7	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	9	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	10	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	11	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	12	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	13	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	16	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	17	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	47.35	52.52	0	0	0	0.11
2002	18	23	2789	340.496	-426.449	D	7.633	7.593	0.04	3.3	60.87	38.95	0	0	0	0.18
2002	19	23	2781	339.842	-425.379	D	7.727	7.593	0.135	3.3	63.77	36.11	0	0	0	0.13
2002	20	23	2789	340.496	-426.449	D	7.783	7.593	0.19	3.3	68.23	31.68	0	0	0	0.09
2002	21	23	2417	339.654	-425.626	D	7.593	7.593	0	3.3	72.13	27.35	0	0	0	0.05
2002	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	24	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	25	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	26	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	27	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	30	23	2781	339.842	-425.379	D	7.601	7.593	0.009	3.3	58.01	41.84	0	0	0	0.15
2002	31	23	2704	329.056	-425.092	D	8.122	7.593	**0.53**	3.3	63.55	36.33	0	0	0	0.13
2002	32	23	2781	339.842	-425.379	D	7.46	7.459	0.001	3.013	72.79	27.21	0	0	0	0.04
2002	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	36	23	2789	340.496	-426.449	D	7.513	7.453	0.06	3	46.96	52.84	0	0	0	0.2
2002	37	23	2704	329.056	-425.092	D	7.455	7.453	0.002	3	57.04	42.89	0	0	0	0.13
2002	38	23	2781	339.842	-425.379	D	7.456	7.453	0.004	3	71.23	28.69	0	0	0	0.12
2002	39	23	2789	340.496	-426.449	D	7.456	7.453	0.004	3	76.04	23.95	0	0	0	0.09
2002	40	23	2789	340.496	-426.449	D	7.453	7.453	0.001	3	82.15	17.89	0	0	0	0.07
2002	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	42	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	43	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	44	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	46	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	47	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	48	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	49	23	2789	340.496	-426.449	D	7.453	7.453	0	3	50.46	50.12	0	0	0	0.3
2002	50	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	51	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	52	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	53	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	54	23	2418	339.946	-426.612	D	7.453	7.453	0	3	82.56	17.24	0	0	0	0.31
2002	55	23	2789	340.496	-426.449	D	7.454	7.453	0.001	3	74.34	25.48	0	0	0	0.23
2002	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	57	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	58	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	59	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2002	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0
2002	61	23	2781	339.842	-425.379	D	7.318	7.311	0.007	2.7	56.08	43.83	0	0	0	0.12
2002	62	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	63	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	68	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	69	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	70	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	71	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	74	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	75	23	2789	340.496	-426.449	D	7.418	7.311	0.108	2.7	56.07	43.59	0	0	0	0.35
2002	76	23	2684	326.713	-427.014	D	7.415	7.311	0.104	2.7	57.54	42.25	0	0	0	0.2
2002	77	23	2781	339.842	-425.379	D	7.311	7.311	0	2.7	89.39	11.04	0	0	0	0.15
2002	78	23	2758	335.862	-424.454	D	7.378	7.311	0.068	2.7	73.7	26.17	0	0	0	0.13
2002	79	23	2781	339.842	-425.379	D	8.166	7.311	**0.855**	2.7	72.06	27.82	0	0	0	0.12
2002	80	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	81	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	82	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	84	23	2684	326.713	-427.014	D	7.314	7.311	0.004	2.7	71.31	28.54	0	0	0	0.16
2002	85	23	2781	339.842	-425.379	D	7.777	7.311	0.466	2.7	71.17	28.67	0	0	0	0.16
2002	86	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	87	23	2789	340.496	-426.449	D	7.311	7.311	0.001	2.7	80.62	19.2	0	0	0	0.18
2002	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2002	89	23	2789	340.496	-426.449	D	7.406	7.311	0.095	2.7	77.11	22.6	0	0	0	0.3
2002	90	23	2628	320.933	-436.998	D	7.336	7.311	0.025	2.7	74.3	25.49	0	0	0	0.22
2002	91	23	2781	339.842	-425.379	D	7.364	7.356	0.008	2.796	74.86	24.7	0	0	0	0.45
2002	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	94	23	2781	339.842	-425.379	D	7.359	7.358	0	2.8	77.04	23.24	0	0	0	0.33
2002	95	23	2781	339.842	-425.379	D	7.507	7.358	0.149	2.8	69.18	30.59	0	0	0	0.23
2002	96	23	2781	339.842	-425.379	D	7.533	7.358	0.175	2.8	85.83	13.99	0	0	0	0.18
2002	97	23	2758	335.862	-424.454	D	7.363	7.358	0.004	2.8	94.07	5.78	0	0	0	0.17
2002	98	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	99	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	100	23	2781	339.842	-425.379	D	7.452	7.358	0.094	2.8	76.42	23.39	0	0	0	0.19
2002	101	23	1048	326.791	-427.189	D	7.358	7.358	0	2.8	98.29	0.67	0	0	0	0.18
2002	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	113	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	115	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	116	23	2571	322.646	-445.476	D	7.386	7.358	0.028	2.8	75.95	23.84	0	0	0	0.21
2002	117	23	2781	339.842	-425.379	D	7.365	7.358	0.007	2.8	87.56	12.27	0	0	0	0.16
2002	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2002	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	122	23	2789	340.496	-426.449	D	7.69	7.639	0.052	3.4	89.58	10.34	0	0	0	0.08
2002	123	23	2589	318.383	-445.593	D	7.831	7.639	0.192	3.4	91.56	8.27	0	0	0	0.18
2002	124	23	2684	326.713	-427.014	D	7.777	7.639	0.139	3.4	91.15	8.75	0	0	0	0.1
2002	125	23	2684	326.713	-427.014	D	7.708	7.639	0.069	3.4	94.91	5.01	0	0	0	0.08
2002	126	23	2154	334.894	-424.836	D	7.639	7.639	0	3.4	99.5	0.09	0	0	0	0.05
2002	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	130	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	133	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	137	23	2628	320.933	-436.998	D	8.234	7.639	**0.595**	3.4	73.57	26.33	0	0	0	0.1
2002	138	23	2789	340.496	-426.449	D	8.211	7.639	**0.573**	3.4	68.55	31.32	0	0	0	0.14
2002	139	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	140	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	141	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	96.99	2.8	0	0	0	0.21
2002	142	23	2789	340.496	-426.449	D	7.69	7.639	0.051	3.4	95.62	4.23	0	0	0	0.15
2002	143	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	98.32	1.57	0	0	0	0.1
2002	144	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	145	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	149	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	150	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	152	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	157	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	158	23	2571	322.646	-445.476	D	7.678	7.639	0.039	3.4	98.28	1.55	0	0	0	0.17
2002	159	23	2789	340.496	-426.449	D	7.839	7.639	0.201	3.4	98.78	1.09	0	0	0	0.13
2002	160	23	2758	335.862	-424.454	D	7.667	7.639	0.028	3.4	99.54	0.35	0	0	0	0.11

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	166	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	168	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.65	0.23	0	0	0	0.16
2002	169	23	2781	339.842	-425.379	D	7.643	7.639	0.005	3.4	99.67	0.21	0	0	0	0.12
2002	170	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.35	0.54	0	0	0	0.11
2002	171	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	172	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	178	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	179	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	180	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	183	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	184	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	185	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.68	0.22	0	0	0	0.11
2002	186	23	2781	339.842	-425.379	D	7.647	7.639	0.008	3.4	99.74	0.2	0	0	0	0.08
2002	187	23	2789	340.496	-426.449	D	7.747	7.639	0.109	3.4	99.57	0.33	0	0	0	0.1
2002	188	23	2694	327.861	-425.964	D	7.743	7.639	0.105	3.4	99.62	0.3	0	0	0	0.08
2002	189	23	2758	335.862	-424.454	D	7.639	7.639	0	3.4	99.81	0.18	0	0	0	0.08
2002	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	192	23	2781	339.842	-425.379	D	7.649	7.639	0.01	3.4	97.92	1.94	0	0	0	0.14
2002	193	23	2781	339.842	-425.379	D	7.675	7.639	0.036	3.4	96.89	3.01	0	0	0	0.1
2002	194	23	2758	335.862	-424.454	D	7.662	7.639	0.023	3.4	91.34	8.58	0	0	0	0.08
2002	195	23	2704	329.056	-425.092	D	7.641	7.639	0.002	3.4	99.57	0.31	0	0	0	0.13
2002	196	23	2704	329.056	-425.092	D	7.655	7.639	0.016	3.4	98.7	1.13	0	0	0	0.18
2002	197	23	2694	327.861	-425.964	D	7.639	7.639	0	3.4	99.67	0.12	0	0	0	0.15
2002	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	199	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	204	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	205	23	2789	340.496	-426.449	D	7.688	7.639	0.049	3.4	98.56	1.28	0	0	0	0.17
2002	206	23	2789	340.496	-426.449	D	7.769	7.639	0.13	3.4	99.38	0.51	0	0	0	0.11
2002	207	23	2789	340.496	-426.449	D	7.667	7.639	0.029	3.4	99.38	0.53	0	0	0	0.09
2002	208	23	2780	339.614	-425.419	D	7.639	7.639	0	3.4	99.36	0.07	0	0	0	0.08
2002	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	210	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	211	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	212	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	213	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	214	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	215	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	216	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	217	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	218	23	2789	340.496	-426.449	D	7.663	7.639	0.024	3.4	97.7	2.15	0	0	0	0.14
2002	219	23	2571	322.646	-445.476	D	8.055	7.639	0.416	3.4	94.75	5.15	0	0	0	0.1
2002	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	223	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	231	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	232	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	233	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	234	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	235	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	236	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	237	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	238	23	2789	340.496	-426.449	D	7.701	7.639	0.062	3.4	97.89	1.9	0	0	0	0.22

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	239	23	2781	339.842	-425.379	D	8.071	7.639	0.432	3.4	98.51	1.3	0	0	0	0.19
2002	240	23	2684	326.713	-427.014	D	7.801	7.639	0.162	3.4	99.28	0.58	0	0	0	0.15
2002	241	23	1242	327.988	-426.138	D	7.639	7.639	0	3.4	96.5	0.41	0	0	0	0.22
2002	242	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	243	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2002	245	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	246	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	247	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	248	23	2789	340.496	-426.449	D	7.909	7.731	0.178	3.6	99.07	0.77	0	0	0	0.16
2002	249	23	2628	320.933	-436.998	D	7.824	7.731	0.093	3.6	99.38	0.48	0	0	0	0.13
2002	250	23	1415	329.185	-425.086	D	7.731	7.731	0	3.6	99.56	0.08	0	0	0	0.12
2002	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	254	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	255	23	2789	340.496	-426.449	D	7.945	7.731	0.215	3.6	86.85	12.94	0	0	0	0.21
2002	256	23	2589	318.383	-445.593	D	7.833	7.731	0.102	3.6	99.24	0.61	0	0	0	0.15
2002	257	23	2706	329.518	-425.046	D	7.749	7.731	0.018	3.6	99.28	0.6	0	0	0	0.12
2002	258	23	2781	339.842	-425.379	D	7.731	7.731	0.001	3.6	98.83	1.1	0	0	0	0.1
2002	259	23	2789	340.496	-426.449	D	7.742	7.731	0.012	3.6	99.2	0.65	0	0	0	0.15
2002	260	23	2789	340.496	-426.449	D	7.753	7.731	0.022	3.6	97.45	2.43	0	0	0	0.12
2002	261	23	2781	339.842	-425.379	D	7.731	7.731	0	3.6	95.23	4.98	0	0	0	0.08
2002	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	265	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2002	266	23	2468	334.002	-434.887	D	7.733	7.731	0.002	3.6	97.64	2.02	0	0	0	0.33
2002	267	23	2789	340.496	-426.449	D	7.788	7.731	0.058	3.6	93.3	6.44	0	0	0	0.26
2002	268	23	2781	339.842	-425.379	D	7.78	7.731	0.049	3.6	94.63	5.18	0	0	0	0.19
2002	269	23	2704	329.056	-425.092	D	7.738	7.731	0.007	3.6	98.23	1.64	0	0	0	0.14
2002	270	23	2758	335.862	-424.454	D	7.827	7.731	0.096	3.6	98.95	0.81	0	0	0	0.24
2002	271	23	2781	339.842	-425.379	D	8.181	7.731	0.45	3.6	97.73	2.09	0	0	0	0.18
2002	272	23	2781	339.842	-425.379	D	7.956	7.731	0.225	3.6	97.62	2.25	0	0	0	0.13
2002	273	23	2781	339.842	-425.379	D	7.731	7.731	0.001	3.6	99.75	0.17	0	0	0	0.08
2002	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0
2002	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	276	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	278	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	279	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	94.4	5.36	0	0	0	0.26
2002	280	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	281	23	2789	340.496	-426.449	D	7.675	7.593	0.083	3.3	87.87	11.86	0	0	0	0.27
2002	282	23	2628	320.933	-436.998	D	7.602	7.593	0.01	3.3	92.41	7.39	0	0	0	0.2
2002	283	23	1415	329.185	-425.086	D	7.593	7.593	0	3.3	98.22	1.58	0	0	0	0.17
2002	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	285	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	286	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	287	23	2571	322.646	-445.476	D	7.746	7.593	0.154	3.3	67.8	31.95	0	0	0	0.25
2002	288	23	2571	322.646	-445.476	D	7.659	7.593	0.066	3.3	81.97	17.85	0	0	0	0.19
2002	289	23	2350	337.8	-428.705	D	7.593	7.593	0	3.3	77.18	2.48	0	0	0	0.17
2002	290	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	291	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	293	23	2571	322.646	-445.476	D	7.831	7.593	0.238	3.3	75	24.84	0	0	0	0.16
2002	294	23	2573	322.153	-445.515	D	8.086	7.593	0.494	3.3	82.62	17.23	0	0	0	0.15
2002	295	23	2588	318.452	-445.8	D	7.917	7.593	0.324	3.3	91.28	8.61	0	0	0	0.12
2002	296	23	2781	339.842	-425.379	D	7.99	7.593	0.397	3.3	88.23	11.59	0	0	0	0.18
2002	297	23	2589	318.383	-445.593	D	7.897	7.593	0.304	3.3	93.06	6.81	0	0	0	0.13
2002	298	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	87.12	12.66	0	0	0	0.08
2002	299	23	2789	340.496	-426.449	D	7.6	7.593	0.007	3.3	85.83	14.04	0	0	0	0.12
2002	300	23	2789	340.496	-426.449	D	8.992	7.593	**1.4**	3.3	78.48	21.4	0	0	0	0.13
2002	301	23	2704	329.056	-425.092	D	8.126	7.593	**0.534**	3.3	75.64	24.27	0	0	0	0.09
2002	302	23	2758	335.862	-424.454	D	8.097	7.593	**0.505**	3.3	62.71	37.11	0	0	0	0.18
2002	303	23	2789	340.496	-426.449	D	10.061	7.593	**2.469**	3.3	69.53	30.31	0	0	0	0.15
2002	304	23	2789	340.496	-426.449	D	8.893	7.593	**1.301**	3.3	64.31	35.54	0	0	0	0.14
2002	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2002	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	307	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	308	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	309	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	310	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	311	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	316	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	317	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	323	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	329	23	2789	340.496	-426.449	D	7.9	7.546	0.354	3.2	50.27	49.63	0	0	0	0.1
2002	330	23	2789	340.496	-426.449	D	7.629	7.546	0.083	3.2	55.03	44.79	0	0	0	0.18
2002	331	23	2571	322.646	-445.476	D	7.834	7.546	0.287	3.2	40.56	59.26	0	0	0	0.18
2002	332	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	333	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0
2002	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	337	23	2588	318.452	-445.8	D	7.693	7.593	0.101	3.3	36.93	62.68	0	0	0	0.39
2002	338	23	2588	318.452	-445.8	D	7.599	7.593	0.006	3.3	52.36	47.54	0	0	0	0.1
2002	339	23	2789	340.496	-426.449	D	7.884	7.593	0.291	3.3	26.66	73.02	0	0	0	0.32
2002	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	342	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	343	23	2758	335.862	-424.454	D	8.002	7.593	0.41	3.3	60.84	39.06	0	0	0	0.1
2002	344	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	345	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	346	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	347	23	2781	339.842	-425.379	D	7.659	7.593	0.067	3.3	53.14	46.68	0	0	0	0.18
2002	348	23	2789	340.496	-426.449	D	7.771	7.593	0.178	3.3	51.87	47.98	0	0	0	0.15
2002	349	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	358	23	2600	318.952	-443.12	D	7.944	7.593	0.351	3.3	45.11	54.7	0	0	0	0.19
2002	359	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	360	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2002	365	23	2789	340.496	-426.449	D	7.676	7.593	0.083	3.3	61.82	37.97	0	0	0	0.21
									2.469							

Appendix M
Upper Buffalo
2003 M6

EGU											% of Modeled Extinction by Species					
YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	1	23	2758	335.862	-424.454	D	7.606	7.593	0.014	3.3	0	0	0	0	0	100.01
2003	2	23	2704	329.056	-425.092	D	7.612	7.593	0.02	3.3	0	0	0	0	0	100.01
2003	3	23	802	325.089	-433.759	D	7.599	7.593	0.007	3.3	0	0	0	0	0	100
2003	4	23	2416	339.665	-425.875	D	7.593	7.593	0	3.3	0	0	0	0	0	95.17
2003	5	23	2588	318.452	-445.8	D	7.594	7.593	0.001	3.3	0	0	0	0	0	100
2003	6	23	2758	335.862	-424.454	D	7.632	7.593	0.04	3.3	0	0	0	0	0	100
2003	7	23	2684	326.713	-427.014	D	7.597	7.593	0.004	3.3	0	0	0	0	0	100.03
2003	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	11.51
2003	9	23	2704	329.056	-425.092	D	7.599	7.593	0.007	3.3	0	0	0	0	0	100
2003	10	23	2789	340.496	-426.449	D	7.596	7.593	0.004	3.3	0	0	0	0	0	99.98
2003	11	23	2758	335.862	-424.454	D	7.639	7.593	0.047	3.3	0	0	0	0	0	100
2003	12	23	2781	339.842	-425.379	D	7.619	7.593	0.026	3.3	0	0	0	0	0	100
2003	13	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	0	0	0	0	0	100.12
2003	14	23	2789	340.496	-426.449	D	7.595	7.593	0.003	3.3	0	0	0	0	0	99.99
2003	15	23	2758	335.862	-424.454	D	7.629	7.593	0.036	3.3	0	0	0	0	0	100.01
2003	16	23	2789	340.496	-426.449	D	7.612	7.593	0.02	3.3	0	0	0	0	0	100.01
2003	17	23	2602	319.088	-442.669	D	7.597	7.593	0.004	3.3	0	0	0	0	0	100.04
2003	18	23	2758	335.862	-424.454	D	7.593	7.593	0.001	3.3	0	0	0	0	0	99.96
2003	19	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	21	23	2468	334.002	-434.887	D	7.598	7.593	0.006	3.3	0	0	0	0	0	100.01
2003	22	23	2704	329.056	-425.092	D	7.634	7.593	0.042	3.3	0	0	0	0	0	100
2003	23	23	2789	340.496	-426.449	D	7.636	7.593	0.043	3.3	0	0	0	0	0	100
2003	24	23	2589	318.383	-445.593	D	7.604	7.593	0.011	3.3	0	0	0	0	0	100.01
2003	25	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	0	0	0	0	0	100.27
2003	26	23	2789	340.496	-426.449	D	7.614	7.593	0.021	3.3	0	0	0	0	0	100
2003	27	23	2777	338.93	-425.542	D	7.614	7.593	0.021	3.3	0	0	0	0	0	100
2003	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	29	23	2781	339.842	-425.379	D	7.601	7.593	0.008	3.3	0	0	0	0	0	100.01
2003	30	23	2781	339.842	-425.379	D	7.603	7.593	0.011	3.3	0	0	0	0	0	100.02
2003	31	23	1415	329.185	-425.086	D	7.593	7.593	0	3.3	0	0	0	0	0	99.73
2003	32	23	2758	335.862	-424.454	D	7.461	7.459	0.002	3.013	0	0	0	0	0	100.05
2003	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	35	23	2640	322.263	-435.121	D	7.454	7.453	0.001	3	0	0	0	0	0	100.16
2003	36	23	2704	329.056	-425.092	D	7.493	7.453	0.04	3	0	0	0	0	0	100.01
2003	37	23	2781	339.842	-425.379	D	7.457	7.453	0.004	3	0	0	0	0	0	100.07
2003	38	23	2758	335.862	-424.454	D	7.476	7.453	0.023	3	0	0	0	0	0	100.01

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	39	23	2789	340.496	-426.449	D	7.453	7.453	0	3	0	0	0	0	0	99.42
2003	40	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	42	23	2780	339.614	-425.419	D	7.453	7.453	0	3	0	0	0	0	0	104.64
2003	43	23	2704	329.056	-425.092	D	7.466	7.453	0.013	3	0	0	0	0	0	100
2003	44	23	2704	329.056	-425.092	D	7.453	7.453	0.001	3	0	0	0	0	0	100.35
2003	45	23	2781	339.842	-425.379	D	7.453	7.453	0	3	0	0	0	0	0	98.9
2003	46	23	2758	335.862	-424.454	D	7.466	7.453	0.013	3	0	0	0	0	0	100.02
2003	47	23	2600	318.952	-443.12	D	7.49	7.453	0.037	3	0	0	0	0	0	100.01
2003	48	23	2711	330.671	-424.932	D	7.523	7.453	0.071	3	0	0	0	0	0	100
2003	49	23	2789	340.496	-426.449	D	7.453	7.453	0.001	3	0	0	0	0	0	100.3
2003	50	23	1242	327.988	-426.138	D	7.453	7.453	0	3	0	0	0	0	0	101.18
2003	51	23	2789	340.496	-426.449	D	7.472	7.453	0.019	3	0	0	0	0	0	100.01
2003	52	23	1415	329.185	-425.086	D	7.457	7.453	0.004	3	0	0	0	0	0	100.06
2003	53	23	2600	318.952	-443.12	D	7.466	7.453	0.014	3	0	0	0	0	0	100.02
2003	54	23	2758	335.862	-424.454	D	7.47	7.453	0.017	3	0	0	0	0	0	100.01
2003	55	23	2789	340.496	-426.449	D	7.462	7.453	0.01	3	0	0	0	0	0	100.03
2003	56	23	2781	339.842	-425.379	D	7.469	7.453	0.017	3	0	0	0	0	0	100.02
2003	57	23	2781	339.842	-425.379	D	7.463	7.453	0.01	3	0	0	0	0	0	100.02
2003	58	23	2628	320.933	-436.998	D	7.456	7.453	0.003	3	0	0	0	0	0	100.09
2003	59	23	2704	329.056	-425.092	D	7.472	7.453	0.02	3	0	0	0	0	0	100.02
2003	60	23	2704	329.056	-425.092	D	7.331	7.317	0.014	2.713	0	0	0	0	0	100.01
2003	61	23	2789	340.496	-426.449	D	7.32	7.311	0.009	2.7	0	0	0	0	0	100.02
2003	62	23	2789	340.496	-426.449	D	7.313	7.311	0.002	2.7	0	0	0	0	0	99.99
2003	63	23	2781	339.842	-425.379	D	7.311	7.311	0	2.7	0	0	0	0	0	100.08
2003	64	23	2789	340.496	-426.449	D	7.314	7.311	0.004	2.7	0	0	0	0	0	100.04
2003	65	23	2789	340.496	-426.449	D	7.317	7.311	0.006	2.7	0	0	0	0	0	100.03
2003	66	23	2789	340.496	-426.449	D	7.312	7.311	0.002	2.7	0	0	0	0	0	100.04
2003	67	23	2788	340.294	-426.448	D	7.311	7.311	0	2.7	0	0	0	0	0	96.16
2003	68	23	2628	320.933	-436.998	D	7.323	7.311	0.012	2.7	0	0	0	0	0	100.01
2003	69	23	2789	340.496	-426.449	D	7.32	7.311	0.01	2.7	0	0	0	0	0	100.01
2003	70	23	2789	340.496	-426.449	D	7.323	7.311	0.012	2.7	0	0	0	0	0	100.02
2003	71	23	2781	339.842	-425.379	D	7.311	7.311	0	2.7	0	0	0	0	0	100.01
2003	72	23	2758	335.862	-424.454	D	7.326	7.311	0.015	2.7	0	0	0	0	0	100.01
2003	73	23	2789	340.496	-426.449	D	7.321	7.311	0.01	2.7	0	0	0	0	0	100.02
2003	74	23	2694	327.861	-425.964	D	7.314	7.311	0.004	2.7	0	0	0	0	0	99.98
2003	75	23	1415	329.185	-425.086	D	7.311	7.311	0	2.7	0	0	0	0	0	99.91
2003	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	78	23	2209	335.38	-424.564	D	7.311	7.311	0	2.7	0	0	0	0	0	98.7
2003	79	23	2707	329.748	-425.023	D	7.326	7.311	0.016	2.7	0	0	0	0	0	100.01
2003	80	23	2789	340.496	-426.449	D	7.317	7.311	0.006	2.7	0	0	0	0	0	100.04
2003	81	23	2308	337.055	-428.737	D	7.311	7.311	0.001	2.7	0	0	0	0	0	100.21
2003	82	23	1951	333.842	-434.874	D	7.311	7.311	0	2.7	0	0	0	0	0	99.68
2003	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	84	23	2789	340.496	-426.449	D	7.32	7.311	0.01	2.7	0	0	0	0	0	100.01
2003	85	23	2758	335.862	-424.454	D	7.316	7.311	0.005	2.7	0	0	0	0	0	100.02
2003	86	23	2781	339.842	-425.379	D	7.311	7.311	0	2.7	0	0	0	0	0	100.41
2003	87	23	2694	327.861	-425.964	D	7.312	7.311	0.002	2.7	0	0	0	0	0	100.05
2003	88	23	2694	327.861	-425.964	D	7.317	7.311	0.006	2.7	0	0	0	0	0	100
2003	89	23	2758	335.862	-424.454	D	7.311	7.311	0.001	2.7	0	0	0	0	0	100.51
2003	90	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	95	23	2758	335.862	-424.454	D	7.371	7.358	0.013	2.8	0	0	0	0	0	100.01
2003	96	23	2758	335.862	-424.454	D	7.361	7.358	0.003	2.8	0	0	0	0	0	100.07
2003	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	98	23	2789	340.496	-426.449	D	7.361	7.358	0.003	2.8	0	0	0	0	0	100.04
2003	99	23	2758	335.862	-424.454	D	7.404	7.358	0.046	2.8	0	0	0	0	0	100.01
2003	100	23	2758	335.862	-424.454	D	7.404	7.358	0.046	2.8	0	0	0	0	0	100.01
2003	101	23	2758	335.862	-424.454	D	7.371	7.358	0.013	2.8	0	0	0	0	0	100.01
2003	102	23	2789	340.496	-426.449	D	7.376	7.358	0.018	2.8	0	0	0	0	0	100.01
2003	103	23	2789	340.496	-426.449	D	7.359	7.358	0.001	2.8	0	0	0	0	0	100.04
2003	104	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	0	0	0	0	0	99.7
2003	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	107	23	2758	335.862	-424.454	D	7.36	7.358	0.002	2.8	0	0	0	0	0	100.21
2003	108	23	2780	339.614	-425.419	D	7.359	7.358	0	2.8	0	0	0	0	0	99.86
2003	109	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	0	0	0	0	0	101.76
2003	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	111	23	2781	339.842	-425.379	D	7.359	7.358	0	2.8	0	0	0	0	0	100.33
2003	112	23	2758	335.862	-424.454	D	7.379	7.358	0.021	2.8	0	0	0	0	0	100.01
2003	113	23	2789	340.496	-426.449	D	7.362	7.358	0.004	2.8	0	0	0	0	0	100.04
2003	114	23	1449	329.434	-425.075	D	7.358	7.358	0	2.8	0	0	0	0	0	98.23
2003	115	23	2684	326.713	-427.014	D	7.369	7.358	0.01	2.8	0	0	0	0	0	100.02
2003	116	23	2694	327.861	-425.964	D	7.375	7.358	0.017	2.8	0	0	0	0	0	100

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	117	23	340	322.363	-445.37	D	7.363	7.358	0.004	2.8	0	0	0	0	0	100.02
2003	118	23	2397	338.413	-425.68	D	7.358	7.358	0	2.8	0	0	0	0	0	100.27
2003	119	23	2040	333.912	-425.128	D	7.358	7.358	0	2.8	0	0	0	0	0	124.43
2003	120	23	917	325.972	-431.222	D	7.358	7.358	0	2.8	0	0	0	0	0	76.61
2003	121	23	413	322.197	-435.884	D	7.627	7.627	0	3.375	0	0	0	0	0	8.34
2003	122	23	2684	326.713	-427.014	D	7.706	7.639	0.068	3.4	0	0	0	0	0	100
2003	123	23	2589	318.383	-445.593	D	7.655	7.639	0.016	3.4	0	0	0	0	0	100.01
2003	124	23	2789	340.496	-426.449	D	7.645	7.639	0.006	3.4	0	0	0	0	0	100.01
2003	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	127	23	2704	329.056	-425.092	D	7.643	7.639	0.004	3.4	0	0	0	0	0	100
2003	128	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.03
2003	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	131	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	0	0	0	0	0	100.16
2003	132	23	2588	318.452	-445.8	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100
2003	133	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.14
2003	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	136	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	0	0	0	0	0	97.11
2003	137	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.12
2003	138	23	2589	318.383	-445.593	D	7.667	7.639	0.029	3.4	0	0	0	0	0	100
2003	139	23	2600	318.952	-443.12	D	7.648	7.639	0.009	3.4	0	0	0	0	0	100.01
2003	140	23	2628	320.933	-436.998	D	7.653	7.639	0.015	3.4	0	0	0	0	0	100
2003	141	23	2588	318.452	-445.8	D	7.65	7.639	0.011	3.4	0	0	0	0	0	100
2003	142	23	2628	320.933	-436.998	D	7.652	7.639	0.013	3.4	0	0	0	0	0	100.01
2003	143	23	2628	320.933	-436.998	D	7.656	7.639	0.017	3.4	0	0	0	0	0	100
2003	144	23	2789	340.496	-426.449	D	7.648	7.639	0.009	3.4	0	0	0	0	0	100
2003	145	23	2758	335.862	-424.454	D	7.662	7.639	0.024	3.4	0	0	0	0	0	100.01
2003	146	23	2588	318.452	-445.8	D	7.662	7.639	0.024	3.4	0	0	0	0	0	100
2003	147	23	2789	340.496	-426.449	D	7.646	7.639	0.007	3.4	0	0	0	0	0	100
2003	148	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	0	0	0	0	0	100.02
2003	149	23	1627	330.675	-425.021	D	7.643	7.639	0.004	3.4	0	0	0	0	0	100.01
2003	150	23	2789	340.496	-426.449	D	7.639	7.639	0.001	3.4	0	0	0	0	0	100.03
2003	151	23	2758	335.862	-424.454	D	7.65	7.639	0.011	3.4	0	0	0	0	0	100.01
2003	152	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	0	0	0	0	0	99.99
2003	153	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	0	0	0	0	0	100.02
2003	154	23	2781	339.842	-425.379	D	7.656	7.639	0.017	3.4	0	0	0	0	0	100
2003	155	23	2704	329.056	-425.092	D	7.681	7.639	0.042	3.4	0	0	0	0	0	100

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	156	23	2628	320.933	-436.998	D	7.65	7.639	0.011	3.4	0	0	0	0	0	100
2003	157	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.14
2003	158	23	2758	335.862	-424.454	D	7.652	7.639	0.014	3.4	0	0	0	0	0	100.01
2003	159	23	2758	335.862	-424.454	D	7.639	7.639	0	3.4	0	0	0	0	0	100.46
2003	160	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	12.96
2003	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	164	23	1048	326.791	-427.189	D	7.639	7.639	0	3.4	0	0	0	0	0	101.13
2003	165	23	2704	329.056	-425.092	D	7.65	7.639	0.011	3.4	0	0	0	0	0	100.01
2003	166	23	2789	340.496	-426.449	D	7.654	7.639	0.015	3.4	0	0	0	0	0	100
2003	167	23	2694	327.861	-425.964	D	7.648	7.639	0.009	3.4	0	0	0	0	0	100.02
2003	168	23	2704	329.056	-425.092	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.05
2003	169	23	2704	329.056	-425.092	D	7.642	7.639	0.004	3.4	0	0	0	0	0	100.01
2003	170	23	2758	335.862	-424.454	D	7.651	7.639	0.013	3.4	0	0	0	0	0	100
2003	171	23	2571	322.646	-445.476	D	7.66	7.639	0.022	3.4	0	0	0	0	0	100
2003	172	23	2588	318.452	-445.8	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.01
2003	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	177	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	0	0	0	0	0	100.03
2003	178	23	2758	335.862	-424.454	D	7.697	7.639	0.058	3.4	0	0	0	0	0	100
2003	179	23	2704	329.056	-425.092	D	7.644	7.639	0.005	3.4	0	0	0	0	0	100
2003	180	23	2704	329.056	-425.092	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.07
2003	181	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	0	0	0	0	0	100.45
2003	182	23	1201	327.762	-426.647	D	7.639	7.639	0	3.4	0	0	0	0	0	99.61
2003	183	23	2758	335.862	-424.454	D	7.639	7.639	0	3.4	0	0	0	0	0	100.09
2003	184	23	2780	339.614	-425.419	D	7.639	7.639	0	3.4	0	0	0	0	0	100.23
2003	185	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	0	0	0	0	0	102.91
2003	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	192	23	2758	335.862	-424.454	D	7.661	7.639	0.022	3.4	0	0	0	0	0	100.01
2003	193	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.13
2003	194	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	99.97

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	195	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	0	0	0	0	0	99.99
2003	196	23	2030	334.022	-427.622	D	7.639	7.639	0	3.4	0	0	0	0	0	94.76
2003	197	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	0	0	0	0	0	97.19
2003	198	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	0	0	0	0	0	101.47
2003	199	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	0	0	0	0	0	101.46
2003	200	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	0	0	0	0	0	100.04
2003	201	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.53
2003	202	23	2209	335.38	-424.564	D	7.639	7.639	0	3.4	0	0	0	0	0	94.78
2003	203	23	2781	339.842	-425.379	D	7.643	7.639	0.005	3.4	0	0	0	0	0	100.01
2003	204	23	2684	326.713	-427.014	D	7.673	7.639	0.034	3.4	0	0	0	0	0	100
2003	205	23	2589	318.383	-445.593	D	7.653	7.639	0.014	3.4	0	0	0	0	0	100.01
2003	206	23	2781	339.842	-425.379	D	7.65	7.639	0.011	3.4	0	0	0	0	0	100.02
2003	207	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	0	0	0	0	0	100.32
2003	208	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	210	23	2710	330.44	-424.955	D	7.639	7.639	0	3.4	0	0	0	0	0	100.22
2003	211	23	67	319.674	-440.741	D	7.647	7.639	0.008	3.4	0	0	0	0	0	100.01
2003	212	23	2589	318.383	-445.593	D	7.651	7.639	0.012	3.4	0	0	0	0	0	100.01
2003	213	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.03
2003	214	23	2410	339.439	-426.385	D	7.639	7.639	0	3.4	0	0	0	0	0	101.46
2003	215	23	2235	335.628	-424.554	D	7.639	7.639	0	3.4	0	0	0	0	0	99.35
2003	216	23	2758	335.862	-424.454	D	7.639	7.639	0.001	3.4	0	0	0	0	0	100.07
2003	217	23	2409	339.158	-425.648	D	7.639	7.639	0	3.4	0	0	0	0	0	93.35
2003	218	23	2758	335.862	-424.454	D	7.665	7.639	0.027	3.4	0	0	0	0	0	100
2003	219	23	2789	340.496	-426.449	D	7.652	7.639	0.013	3.4	0	0	0	0	0	100.01
2003	220	23	2601	319.02	-442.895	D	7.649	7.639	0.011	3.4	0	0	0	0	0	100.01
2003	221	23	2589	318.383	-445.593	D	7.644	7.639	0.005	3.4	0	0	0	0	0	99.98
2003	222	23	2589	318.383	-445.593	D	7.654	7.639	0.015	3.4	0	0	0	0	0	100.01
2003	223	23	2588	318.452	-445.8	D	7.651	7.639	0.012	3.4	0	0	0	0	0	100.01
2003	224	23	2684	326.713	-427.014	D	7.65	7.639	0.011	3.4	0	0	0	0	0	100.01
2003	225	23	2704	329.056	-425.092	D	7.64	7.639	0.001	3.4	0	0	0	0	0	99.99
2003	226	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	0	0	0	0	0	100.03
2003	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	228	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	0	0	0	0	0	100.03
2003	229	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.04
2003	230	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	0	0	0	0	0	100.06
2003	231	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	0	0	0	0	0	100.05
2003	232	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.02
2003	233	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	0	0	0	0	0	100.05

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	234	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.03
2003	235	23	2758	335.862	-424.454	D	7.65	7.639	0.011	3.4	0	0	0	0	0	100.01
2003	236	23	2789	340.496	-426.449	D	7.652	7.639	0.013	3.4	0	0	0	0	0	100.02
2003	237	23	2684	326.713	-427.014	D	7.644	7.639	0.005	3.4	0	0	0	0	0	100.03
2003	238	23	2780	339.614	-425.419	D	7.641	7.639	0.002	3.4	0	0	0	0	0	100.05
2003	239	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	100.18
2003	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	242	23	2412	339.417	-425.886	D	7.639	7.639	0	3.4	0	0	0	0	0	96.01
2003	243	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	0	0	0	0	0	99.96
2003	244	23	1415	329.185	-425.086	D	7.727	7.727	0	3.592	0	0	0	0	0	98.29
2003	245	23	2588	318.452	-445.8	D	7.731	7.731	0	3.6	0	0	0	0	0	100.02
2003	246	23	2781	339.842	-425.379	D	7.754	7.731	0.023	3.6	0	0	0	0	0	100
2003	247	23	2694	327.861	-425.964	D	7.824	7.731	0.093	3.6	0	0	0	0	0	100
2003	248	23	2589	318.383	-445.593	D	7.738	7.731	0.007	3.6	0	0	0	0	0	100.02
2003	249	23	2704	329.056	-425.092	D	7.745	7.731	0.014	3.6	0	0	0	0	0	100
2003	250	23	2589	318.383	-445.593	D	7.733	7.731	0.002	3.6	0	0	0	0	0	100
2003	251	23	2468	334.002	-434.887	D	7.734	7.731	0.003	3.6	0	0	0	0	0	100.02
2003	252	23	2782	339.852	-425.592	D	7.732	7.731	0.001	3.6	0	0	0	0	0	99.88
2003	253	23	2789	340.496	-426.449	D	7.731	7.731	0.001	3.6	0	0	0	0	0	100.12
2003	254	23	726	324.322	-433.293	D	7.731	7.731	0	3.6	0	0	0	0	0	73.32
2003	255	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	257	23	2789	340.496	-426.449	D	7.735	7.731	0.004	3.6	0	0	0	0	0	99.99
2003	258	23	2308	337.055	-428.737	D	7.765	7.731	0.034	3.6	0	0	0	0	0	100
2003	259	23	2209	335.38	-424.564	D	7.733	7.731	0.002	3.6	0	0	0	0	0	99.92
2003	260	23	2781	339.842	-425.379	D	7.732	7.731	0.001	3.6	0	0	0	0	0	100
2003	261	23	14	319.049	-443.516	D	7.731	7.731	0	3.6	0	0	0	0	0	86.22
2003	262	23	2758	335.862	-424.454	D	7.748	7.731	0.018	3.6	0	0	0	0	0	100
2003	263	23	2789	340.496	-426.449	D	7.739	7.731	0.009	3.6	0	0	0	0	0	99.99
2003	264	23	2789	340.496	-426.449	D	7.736	7.731	0.006	3.6	0	0	0	0	0	99.99
2003	265	23	2684	326.713	-427.014	D	7.732	7.731	0.001	3.6	0	0	0	0	0	100.07
2003	266	23	2758	335.862	-424.454	D	7.768	7.731	0.038	3.6	0	0	0	0	0	100
2003	267	23	1415	329.185	-425.086	D	7.731	7.731	0	3.6	0	0	0	0	0	99.91
2003	268	23	2435	337.211	-428.786	D	7.743	7.731	0.012	3.6	0	0	0	0	0	99.99
2003	269	23	2789	340.496	-426.449	D	7.737	7.731	0.006	3.6	0	0	0	0	0	99.99
2003	270	23	2684	326.713	-427.014	D	7.756	7.731	0.026	3.6	0	0	0	0	0	99.99
2003	271	23	2758	335.862	-424.454	D	7.787	7.731	0.056	3.6	0	0	0	0	0	100
2003	272	23	2694	327.861	-425.964	D	7.749	7.731	0.018	3.6	0	0	0	0	0	100

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	273	23	2756	335.398	-424.515	D	7.741	7.731	0.01	3.6	0	0	0	0	0	99.99
2003	274	23	2694	327.861	-425.964	D	7.62	7.598	0.022	3.313	0	0	0	0	0	100
2003	275	23	2694	327.861	-425.964	D	7.656	7.593	0.064	3.3	0	0	0	0	0	100
2003	276	23	1415	329.185	-425.086	D	7.595	7.593	0.003	3.3	0	0	0	0	0	100
2003	277	23	2758	335.862	-424.454	D	7.603	7.593	0.01	3.3	0	0	0	0	0	100
2003	278	23	1660	330.988	-426.506	D	7.614	7.593	0.022	3.3	0	0	0	0	0	100
2003	279	23	2652	323.833	-433.511	D	7.6	7.593	0.008	3.3	0	0	0	0	0	100.01
2003	280	23	2789	340.496	-426.449	D	7.599	7.593	0.006	3.3	0	0	0	0	0	100
2003	281	23	2684	326.713	-427.014	D	7.594	7.593	0.001	3.3	0	0	0	0	0	100.04
2003	282	23	1414	329.196	-425.335	D	7.593	7.593	0	3.3	0	0	0	0	0	100.05
2003	283	23	2684	326.713	-427.014	D	7.593	7.593	0	3.3	0	0	0	0	0	100.21
2003	284	23	200	320.784	-437.694	D	7.593	7.593	0	3.3	0	0	0	0	0	78.59
2003	285	23	2704	329.056	-425.092	D	7.616	7.593	0.024	3.3	0	0	0	0	0	100.01
2003	286	23	2589	318.383	-445.593	D	7.595	7.593	0.002	3.3	0	0	0	0	0	100.03
2003	287	23	2781	339.842	-425.379	D	7.594	7.593	0.001	3.3	0	0	0	0	0	100.05
2003	288	23	2308	337.055	-428.737	D	7.6	7.593	0.007	3.3	0	0	0	0	0	100.03
2003	289	23	2416	339.665	-425.875	D	7.593	7.593	0	3.3	0	0	0	0	0	99.14
2003	290	23	2789	340.496	-426.449	D	7.609	7.593	0.016	3.3	0	0	0	0	0	100.01
2003	291	23	2600	318.952	-443.12	D	7.596	7.593	0.004	3.3	0	0	0	0	0	100.04
2003	292	23	2571	322.646	-445.476	D	7.595	7.593	0.002	3.3	0	0	0	0	0	100.01
2003	293	23	2236	336.149	-430.776	D	7.593	7.593	0	3.3	0	0	0	0	0	98.88
2003	294	23	2781	339.842	-425.379	D	7.596	7.593	0.003	3.3	0	0	0	0	0	100
2003	295	23	2758	335.862	-424.454	D	7.613	7.593	0.02	3.3	0	0	0	0	0	100.01
2003	296	23	2789	340.496	-426.449	D	7.601	7.593	0.009	3.3	0	0	0	0	0	100.01
2003	297	23	2781	339.842	-425.379	D	7.594	7.593	0.001	3.3	0	0	0	0	0	100.09
2003	298	23	2758	335.862	-424.454	D	7.608	7.593	0.015	3.3	0	0	0	0	0	100.02
2003	299	23	2758	335.862	-424.454	D	7.625	7.593	0.032	3.3	0	0	0	0	0	100
2003	300	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	0	0	0	0	0	99.77
2003	301	23	2757	335.63	-424.484	D	7.593	7.593	0	3.3	0	0	0	0	0	99.81
2003	302	23	2758	335.862	-424.454	D	7.61	7.593	0.018	3.3	0	0	0	0	0	100.02
2003	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	304	23	1048	326.791	-427.189	D	7.593	7.593	0	3.3	0	0	0	0	0	75.58
2003	305	23	2704	329.056	-425.092	D	7.584	7.548	0.035	3.204	0	0	0	0	0	100
2003	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	307	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	308	23	2704	329.056	-425.092	D	7.547	7.546	0	3.2	0	0	0	0	0	100.33
2003	309	23	2684	326.713	-427.014	D	7.564	7.546	0.018	3.2	0	0	0	0	0	100
2003	310	23	2758	335.862	-424.454	D	7.576	7.546	0.029	3.2	0	0	0	0	0	100
2003	311	23	2694	327.861	-425.964	D	7.585	7.546	0.039	3.2	0	0	0	0	0	100.01

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	312	23	2684	326.713	-427.014	D	7.549	7.546	0.003	3.2	0	0	0	0	0	100.02
2003	313	23	1415	329.185	-425.086	D	7.546	7.546	0	3.2	0	0	0	0	0	100.17
2003	314	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	0	0	0	0	0	100.17
2003	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	316	23	2041	333.901	-424.879	D	7.546	7.546	0	3.2	0	0	0	0	0	99.46
2003	317	23	2758	335.862	-424.454	D	7.563	7.546	0.016	3.2	0	0	0	0	0	100.01
2003	318	23	2789	340.496	-426.449	D	7.557	7.546	0.011	3.2	0	0	0	0	0	100.01
2003	319	23	2418	339.946	-426.612	D	7.546	7.546	0	3.2	0	0	0	0	0	92.03
2003	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	322	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	0	0	0	0	0	100.07
2003	323	23	2757	335.63	-424.484	D	7.55	7.546	0.003	3.2	0	0	0	0	0	100.04
2003	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	327	23	1415	329.185	-425.086	D	7.546	7.546	0	3.2	0	0	0	0	0	100.39
2003	328	23	2781	339.842	-425.379	D	7.547	7.546	0	3.2	0	0	0	0	0	100.22
2003	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	331	23	2600	318.952	-443.12	D	7.56	7.546	0.013	3.2	0	0	0	0	0	100.01
2003	332	23	2789	340.496	-426.449	D	7.55	7.546	0.003	3.2	0	0	0	0	0	100.05
2003	333	23	947	326.199	-430.712	D	7.549	7.546	0.003	3.2	0	0	0	0	0	100.01
2003	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	335	23	2758	335.862	-424.454	D	7.602	7.591	0.012	3.296	0	0	0	0	0	99.99
2003	336	23	2308	337.055	-428.737	D	7.599	7.593	0.007	3.3	0	0	0	0	0	100.04
2003	337	23	2409	339.158	-425.648	D	7.593	7.593	0	3.3	0	0	0	0	0	98.39
2003	338	23	2758	335.862	-424.454	D	7.606	7.593	0.013	3.3	0	0	0	0	0	100.01
2003	339	23	1951	333.842	-434.874	D	7.599	7.593	0.006	3.3	0	0	0	0	0	100
2003	340	23	2789	340.496	-426.449	D	7.599	7.593	0.006	3.3	0	0	0	0	0	100.02
2003	341	23	2781	339.842	-425.379	D	7.595	7.593	0.003	3.3	0	0	0	0	0	100.05
2003	342	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	29.14
2003	344	23	2781	339.842	-425.379	D	7.601	7.593	0.008	3.3	0	0	0	0	0	100
2003	345	23	2758	335.862	-424.454	D	7.605	7.593	0.013	3.3	0	0	0	0	0	100.01
2003	346	23	2781	339.842	-425.379	D	7.602	7.593	0.009	3.3	0	0	0	0	0	100.01
2003	347	23	2758	335.862	-424.454	D	7.596	7.593	0.004	3.3	0	0	0	0	0	100.02
2003	348	23	2781	339.842	-425.379	D	7.602	7.593	0.009	3.3	0	0	0	0	0	100.02
2003	349	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	0	0	0	0	0	100.08
2003	350	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	0	0	0	0	0	100

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	351	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	0	0	0	0	0	100.21
2003	352	23	2758	335.862	-424.454	D	7.594	7.593	0.001	3.3	0	0	0	0	0	100.08
2003	353	23	67	319.674	-440.741	D	7.598	7.593	0.005	3.3	0	0	0	0	0	100.02
2003	354	23	2758	335.862	-424.454	D	7.597	7.593	0.005	3.3	0	0	0	0	0	100.03
2003	355	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	0	0	0	0	0	99.97
2003	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	357	23	2640	322.263	-435.121	D	7.612	7.593	0.019	3.3	0	0	0	0	0	100.01
2003	358	23	2758	335.862	-424.454	D	7.652	7.593	0.06	3.3	0	0	0	0	0	100
2003	359	23	2789	340.496	-426.449	D	7.6	7.593	0.007	3.3	0	0	0	0	0	100
2003	360	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	0	0	0	0	0	99.98
2003	361	23	2414	339.687	-426.374	D	7.593	7.593	0	3.3	0	0	0	0	0	99.07
2003	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	363	23	2704	329.056	-425.092	D	7.595	7.593	0.002	3.3	0	0	0	0	0	99.98
2003	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.093							
EXIDE											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	2	23	2588	318.452	-445.8	D	7.593	7.593	0	3.3	85.14	10.2	0	0	0	2.81
2003	3	23	2758	335.862	-424.454	D	7.596	7.593	0.004	3.3	84.59	11.24	0	0	0	4.22
2003	4	23	2409	339.158	-425.648	D	7.593	7.593	0	3.3	85.16	6.85	0	0	0	2.16
2003	5	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	72.03	20.29	0	0	0	7.48
2003	6	23	2781	339.842	-425.379	D	7.594	7.593	0.001	3.3	90.2	7.59	0	0	0	2.21
2003	7	23	2575	321.659	-445.553	D	7.593	7.593	0.001	3.3	92.7	5.27	0	0	0	1.9
2003	8	23	1951	333.842	-434.874	D	7.593	7.593	0	3.3	92.76	3.38	0	0	0	1.31
2003	9	23	2777	338.93	-425.542	D	7.593	7.593	0	3.3	90.49	4.92	0	0	0	4.38
2003	10	23	2684	326.713	-427.014	D	7.594	7.593	0.001	3.3	72.24	19.41	0	0	0	8.38
2003	11	23	440	322.543	-438.117	D	7.595	7.593	0.002	3.3	78.83	15.22	0	0	0	5.9
2003	12	23	2589	318.383	-445.593	D	7.594	7.593	0.001	3.3	89.12	8.55	0	0	0	2.45
2003	13	23	2413	339.406	-425.637	D	7.593	7.593	0	3.3	92.82	5.75	0	0	0	1.2
2003	14	23	2589	318.383	-445.593	D	7.594	7.593	0.001	3.3	92.43	5.43	0	0	0	2.14
2003	15	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	94.41	4.34	0	0	0	1.4
2003	16	23	67	319.674	-440.741	D	7.593	7.593	0	3.3	94.23	4.71	0	0	0	0.88
2003	17	23	2781	339.842	-425.379	D	7.594	7.593	0.001	3.3	90.38	6.79	0	0	0	2.88
2003	18	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	86.96	10.18	0	0	0	3
2003	19	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	21	23	1415	329.185	-425.086	D	7.594	7.593	0.001	3.3	94.63	4.31	0	0	0	1.02
2003	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	102.17	2.91	0	0	0	0.56
2003	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	24	23	199	320.795	-437.944	D	7.593	7.593	0	3.3	86.43	11.18	0	0	0	1.95
2003	25	23	2155	334.883	-424.586	D	7.593	7.593	0	3.3	89.05	9.95	0	0	0	1.29
2003	26	23	1627	330.675	-425.021	D	7.597	7.593	0.004	3.3	86.94	9.87	0	0	0	3.15
2003	27	23	2588	318.452	-445.8	D	7.594	7.593	0.002	3.3	92.49	5.92	0	0	0	1.52
2003	28	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	94.2	4.78	0	0	0	0.91
2003	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	36	23	2789	340.496	-426.449	D	7.454	7.453	0.001	3	93.34	4.63	0	0	0	2.25
2003	37	23	2704	329.056	-425.092	D	7.454	7.453	0.002	3	94.08	4.88	0	0	0	1.13
2003	38	23	2789	340.496	-426.449	D	7.455	7.453	0.003	3	93.33	5.47	0	0	0	1.27
2003	39	23	375	322.611	-445.359	D	7.453	7.453	0	3	93.18	9.57	0	0	0	2.58
2003	40	23	2129	335.167	-431.069	D	7.453	7.453	0	3	100.21	5.93	0	0	0	1.57
2003	41	23	2035	333.967	-426.375	D	7.453	7.453	0	3	96.18	5.23	0	0	0	0.96
2003	42	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	43	23	2692	327.796	-426.377	D	7.453	7.453	0.001	3	76.86	15.33	0	0	0	8.24
2003	44	23	2429	338.563	-428.651	D	7.453	7.453	0.001	3	92.22	5.39	0	0	0	2.66
2003	45	23	1201	327.762	-426.647	D	7.453	7.453	0	3	74.09	3.65	0	0	0	1.44
2003	46	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	47	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	48	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	49	23	1	318.65	-445.782	D	7.453	7.453	0	3	97.32	2.95	0	0	0	1.36
2003	50	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	51	23	2704	329.056	-425.092	D	7.453	7.453	0.001	3	96.25	2.88	0	0	0	1.06
2003	52	23	2684	326.713	-427.014	D	7.453	7.453	0	3	98.61	1.31	0	0	0	0.78
2003	53	23	2589	318.383	-445.593	D	7.453	7.453	0	3	95.5	3.45	0	0	0	1.67
2003	54	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	55	23	2589	318.383	-445.593	D	7.453	7.453	0	3	89.79	8.34	0	0	0	2.28
2003	56	23	2684	326.713	-427.014	D	7.456	7.453	0.003	3	93.09	5.58	0	0	0	1.37
2003	57	23	1415	329.185	-425.086	D	7.454	7.453	0.001	3	95.51	3.82	0	0	0	0.94
2003	58	23	2155	334.883	-424.586	D	7.453	7.453	0.001	3	96.79	2.75	0	0	0	0.66
2003	59	23	2749	333.775	-424.726	D	7.453	7.453	0.001	3	97.66	2.11	0	0	0	0.51

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	60	23	2397	338.413	-425.68	D	7.317	7.317	0	2.713	97.74	1.8	0	0	0	0.47
2003	61	23	2781	339.842	-425.379	D	7.314	7.311	0.003	2.7	93.18	4.56	0	0	0	2.37
2003	62	23	2571	322.646	-445.476	D	7.315	7.311	0.005	2.7	94.16	4.26	0	0	0	1.64
2003	63	23	2789	340.496	-426.449	D	7.316	7.311	0.005	2.7	98.04	1.27	0	0	0	0.74
2003	64	23	2758	335.862	-424.454	D	7.311	7.311	0.001	2.7	96.67	2.76	0	0	0	0.78
2003	65	23	68	320.129	-445.468	D	7.311	7.311	0	2.7	96.38	2.96	0	0	0	0.68
2003	66	23	2704	329.056	-425.092	D	7.311	7.311	0	2.7	96.71	2.3	0	0	0	1.39
2003	67	23	1414	329.196	-425.335	D	7.311	7.311	0	2.7	98.41	0.86	0	0	0	1.11
2003	68	23	2789	340.496	-426.449	D	7.313	7.311	0.002	2.7	93.41	4.92	0	0	0	1.71
2003	69	23	2588	318.452	-445.8	D	7.311	7.311	0	2.7	98.87	0.93	0	0	0	1.36
2003	70	23	2588	318.452	-445.8	D	7.312	7.311	0.002	2.7	98.1	1	0	0	0	1.02
2003	71	23	2781	339.842	-425.379	D	7.311	7.311	0	2.7	98.36	0.69	0	0	0	0.74
2003	72	23	2694	327.861	-425.964	D	7.311	7.311	0.001	2.7	96.52	2.07	0	0	0	1.51
2003	73	23	2589	318.383	-445.593	D	7.312	7.311	0.001	2.7	97.61	1.36	0	0	0	1.15
2003	74	23	113	320.126	-439.722	D	7.311	7.311	0	2.7	98.88	0.82	0	0	0	1.01
2003	75	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	79	23	2588	318.452	-445.8	D	7.312	7.311	0.001	2.7	93.77	4.3	0	0	0	2.08
2003	80	23	2588	318.452	-445.8	D	7.319	7.311	0.008	2.7	93.53	4.2	0	0	0	2.3
2003	81	23	2572	322.4	-445.495	D	7.312	7.311	0.001	2.7	94.51	2.55	0	0	0	3.01
2003	82	23	2468	334.002	-434.887	D	7.311	7.311	0	2.7	98.73	0.53	0	0	0	1.62
2003	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	84	23	1413	329.207	-425.585	D	7.311	7.311	0	2.7	97.63	1.59	0	0	0	1.66
2003	85	23	1951	333.842	-434.874	D	7.311	7.311	0	2.7	96.86	2.35	0	0	0	0.95
2003	86	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	87	23	2335	337.172	-425.735	D	7.311	7.311	0	2.7	86.3	6.51	0	0	0	2.59
2003	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	89	23	2781	339.842	-425.379	D	7.312	7.311	0.001	2.7	85.56	9.49	0	0	0	5.17
2003	90	23	2399	338.683	-426.168	D	7.311	7.311	0	2.7	70.65	3.09	0	0	0	3.1
2003	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	95	23	2684	326.713	-427.014	D	7.359	7.358	0.001	2.8	91.98	4.82	0	0	0	3.41
2003	96	23	2336	337.161	-425.485	D	7.358	7.358	0	2.8	98.69	1.4	0	0	0	0.43
2003	97	23	1413	329.207	-425.585	D	7.358	7.358	0	2.8	76.01	0.83	0	0	0	0.12
2003	98	23	2781	339.842	-425.379	D	7.361	7.358	0.002	2.8	90.34	6.84	0	0	0	2.9

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	99	23	2588	318.452	-445.8	D	7.359	7.358	0.001	2.8	91.11	6.18	0	0	0	2.76
2003	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	104.83	0.44	0	0	0	1.43
2003	102	23	1041	326.867	-428.934	D	7.358	7.358	0	2.8	100.4	0.18	0	0	0	1.08
2003	103	23	2397	338.413	-425.68	D	7.358	7.358	0	2.8	100.92	0.1	0	0	0	0.93
2003	104	23	1552	330.178	-425.042	D	7.358	7.358	0	2.8	100.35	0.11	0	0	0	0.84
2003	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	107	23	2781	339.842	-425.379	D	7.359	7.358	0.001	2.8	94.51	3.73	0	0	0	1.85
2003	108	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	100.51	0.47	0	0	0	1.06
2003	109	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	97.15	0.1	0	0	0	0.66
2003	110	23	2781	339.842	-425.379	D	7.363	7.358	0.005	2.8	97.58	1.28	0	0	0	1.18
2003	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	112	23	2404	338.92	-425.908	D	7.359	7.358	0.001	2.8	94.37	2.42	0	0	0	3.52
2003	113	23	2588	318.452	-445.8	D	7.359	7.358	0.001	2.8	98.2	0.62	0	0	0	1.24
2003	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	115	23	2625	320.772	-437.626	D	7.363	7.358	0.004	2.8	96.28	1.54	0	0	0	2.2
2003	116	23	2588	318.452	-445.8	D	7.359	7.358	0.001	2.8	97.36	0.96	0	0	0	1.69
2003	117	23	2612	319.785	-440.422	D	7.358	7.358	0	2.8	101.66	0.37	0	0	0	1.01
2003	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2003	122	23	2704	329.056	-425.092	D	7.642	7.639	0.003	3.4	98.06	1	0	0	0	0.95
2003	123	23	2468	334.002	-434.887	D	7.643	7.639	0.004	3.4	98.99	0.37	0	0	0	0.64
2003	124	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	99.46	0.13	0	0	0	0.39
2003	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	127	23	2758	335.862	-424.454	D	7.639	7.639	0.001	3.4	98.51	0.39	0	0	0	1.15
2003	128	23	2780	339.614	-425.419	D	7.639	7.639	0	3.4	99.04	0.11	0	0	0	0.89
2003	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	137	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	98.46	0.06	0	0	0	0.65

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	138	23	2684	326.713	-427.014	D	7.64	7.639	0.001	3.4	99.05	0.47	0	0	0	0.54
2003	139	23	1047	326.802	-427.438	D	7.639	7.639	0	3.4	99.08	0.27	0	0	0	0.53
2003	140	23	2628	320.933	-436.998	D	7.64	7.639	0.001	3.4	98.26	1.02	0	0	0	0.74
2003	141	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	101.15	0.16	0	0	0	0.42
2003	142	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	143	23	890	325.735	-431.482	D	7.639	7.639	0	3.4	72.7	0.03	0	0	0	0.69
2003	144	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	99.21	0.37	0	0	0	0.85
2003	145	23	2684	326.713	-427.014	D	7.641	7.639	0.002	3.4	98.72	0.58	0	0	0	0.7
2003	146	23	2588	318.452	-445.8	D	7.639	7.639	0	3.4	99.38	0.08	0	0	0	0.63
2003	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	149	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	94.83	1.84	0	0	0	3.47
2003	150	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	98.44	0.1	0	0	0	1.44
2003	151	23	16	319.027	-443.017	D	7.639	7.639	0	3.4	84.07	5	0	0	0	10.49
2003	152	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	79.56	0.01	0	0	0	0.88
2003	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	97.33	0.09	0	0	0	0.68
2003	154	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	99.09	0.53	0	0	0	0.55
2003	155	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	157	23	977	326.425	-430.203	D	7.639	7.639	0	3.4	97.18	0.09	0	0	0	0.69
2003	158	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	99.4	0.12	0	0	0	0.6
2003	159	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	99.56	0.02	0	0	0	0.52
2003	160	23	1628	331.338	-434.484	D	7.639	7.639	0	3.4	101.06	0.03	0	0	0	0.47
2003	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	99.42	0.04	0	0	0	0.73
2003	165	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	99.48	0.17	0	0	0	0.51
2003	166	23	2042	334.499	-432.847	D	7.639	7.639	0	3.4	98.06	0.17	0	0	0	0.44
2003	167	23	2183	335.664	-431.047	D	7.639	7.639	0	3.4	98.71	0.08	0	0	0	0.43
2003	168	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	99.21	0.15	0	0	0	0.41
2003	169	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	103.78	0.09	0	0	0	0.38
2003	170	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	99.07	0.05	0	0	0	0.76
2003	171	23	1415	329.185	-425.086	D	7.641	7.639	0.002	3.4	98.75	0.65	0	0	0	0.61
2003	172	23	15	319.038	-443.267	D	7.639	7.639	0	3.4	99.53	0.05	0	0	0	0.54
2003	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	177	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	96.82	1.75	0	0	0	1.51
2003	178	23	2684	326.713	-427.014	D	7.643	7.639	0.004	3.4	97.97	0.34	0	0	0	1.69
2003	179	23	2608	319.495	-441.316	D	7.642	7.639	0.003	3.4	98.87	0.05	0	0	0	1.07
2003	180	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	99.23	0.03	0	0	0	0.84
2003	181	23	1414	329.196	-425.335	D	7.639	7.639	0	3.4	97.42	0.07	0	0	0	0.66
2003	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	183	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	80.16	0.01	0	0	0	0.49
2003	184	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	38.21	0.01	0	0	0	0.19
2003	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	192	23	2588	318.452	-445.8	D	7.641	7.639	0.002	3.4	97.25	0.16	0	0	0	2.67
2003	193	23	2782	339.852	-425.592	D	7.64	7.639	0.001	3.4	98.69	0.18	0	0	0	1.15
2003	194	23	2780	339.614	-425.419	D	7.639	7.639	0	3.4	99.33	0.11	0	0	0	0.99
2003	195	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.42	0.15	0	0	0	0.72
2003	196	23	2035	333.967	-426.375	D	7.639	7.639	0	3.4	88.43	0.01	0	0	0	0.47
2003	197	23	2209	335.38	-424.564	D	7.639	7.639	0	3.4	99.89	0.01	0	0	0	1.13
2003	198	23	2409	339.158	-425.648	D	7.639	7.639	0	3.4	94.8	0.01	0	0	0	0.81
2003	199	23	2396	338.424	-425.93	D	7.639	7.639	0	3.4	101.82	0.01	0	0	0	0.69
2003	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	118.38	0.01	0	0	0	0.62
2003	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	202	23	2385	338.165	-425.691	D	7.639	7.639	0	3.4	98.92	0.09	0	0	0	0.61
2003	203	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	98.37	0.17	0	0	0	1.48
2003	204	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	205	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	206	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	207	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	208	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	210	23	2758	335.862	-424.454	D	7.641	7.639	0.003	3.4	98.76	0.56	0	0	0	0.73
2003	211	23	2684	326.713	-427.014	D	7.642	7.639	0.003	3.4	99.22	0.21	0	0	0	0.59
2003	212	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	99.32	0.11	0	0	0	0.59
2003	213	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.07	0.07	0	0	0	0.61
2003	214	23	2418	339.946	-426.612	D	7.639	7.639	0	3.4	99.72	0.01	0	0	0	0.5
2003	215	23	2758	335.862	-424.454	D	7.64	7.639	0.001	3.4	99.14	0.12	0	0	0	0.85

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	216	23	2758	335.862	-424.454	D	7.643	7.639	0.005	3.4	99.06	0.14	0	0	0	0.81
2003	217	23	2413	339.406	-425.637	D	7.639	7.639	0	3.4	99.09	0.11	0	0	0	0.79
2003	218	23	1449	329.434	-425.075	D	7.639	7.639	0.001	3.4	99.15	0.11	0	0	0	0.75
2003	219	23	1	318.65	-445.782	D	7.64	7.639	0.002	3.4	99.22	0.15	0	0	0	0.64
2003	220	23	2588	318.452	-445.8	D	7.639	7.639	0	3.4	98.83	0	0	0	0	0.6
2003	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	223	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	230	23	2789	340.496	-426.449	D	7.639	7.639	0.001	3.4	99.13	0.02	0	0	0	1.17
2003	231	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.24	0.03	0	0	0	0.81
2003	232	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.33	0.04	0	0	0	0.68
2003	233	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.5	0.09	0	0	0	0.6
2003	234	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	98.99	0.02	0	0	0	0.97
2003	235	23	2781	339.842	-425.379	D	7.647	7.639	0.008	3.4	99.1	0.03	0	0	0	0.89
2003	236	23	2588	318.452	-445.8	D	7.645	7.639	0.006	3.4	99.18	0.08	0	0	0	0.75
2003	237	23	2626	320.826	-437.417	D	7.643	7.639	0.004	3.4	99.33	0.02	0	0	0	0.65
2003	238	23	2234	335.639	-424.803	D	7.64	7.639	0.001	3.4	99.39	0.01	0	0	0	0.57
2003	239	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	99.38	0.02	0	0	0	0.52
2003	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	242	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	243	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2003	245	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	246	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	247	23	2628	320.933	-436.998	D	7.738	7.731	0.007	3.6	97.49	1.24	0	0	0	1.27
2003	248	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	102.05	0.01	0	0	0	0.89
2003	249	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	255	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	257	23	2704	329.056	-425.092	D	7.734	7.731	0.003	3.6	96.44	0.8	0	0	0	2.74
2003	258	23	2571	322.646	-445.476	D	7.733	7.731	0.002	3.6	97.58	0.44	0	0	0	1.98
2003	259	23	2571	322.646	-445.476	D	7.735	7.731	0.004	3.6	98.7	0.14	0	0	0	1.18
2003	260	23	2704	329.056	-425.092	D	7.731	7.731	0	3.6	98.99	0.06	0	0	0	0.86
2003	261	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	262	23	2780	339.614	-425.419	D	7.732	7.731	0.001	3.6	95.19	3.24	0	0	0	1.41
2003	263	23	2684	326.713	-427.014	D	7.731	7.731	0	3.6	96.98	0.59	0	0	0	2.03
2003	264	23	1	318.65	-445.782	D	7.732	7.731	0.001	3.6	99.46	0.05	0	0	0	0.38
2003	265	23	2781	339.842	-425.379	D	7.732	7.731	0.001	3.6	99.32	0.39	0	0	0	0.31
2003	266	23	2763	336.292	-425.028	D	7.731	7.731	0	3.6	96.28	0.63	0	0	0	3.1
2003	267	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	268	23	2589	318.383	-445.593	D	7.732	7.731	0.002	3.6	98.27	0.33	0	0	0	1.43
2003	269	23	2684	326.713	-427.014	D	7.731	7.731	0.001	3.6	98.89	0.22	0	0	0	0.98
2003	270	23	2155	334.883	-424.586	D	7.731	7.731	0.001	3.6	95.15	2.11	0	0	0	2.42
2003	271	23	2417	339.654	-425.626	D	7.731	7.731	0	3.6	93.66	1.4	0	0	0	4.57
2003	272	23	1047	326.802	-427.438	D	7.731	7.731	0.001	3.6	90.9	5.13	0	0	0	3.89
2003	273	23	2780	339.614	-425.419	D	7.731	7.731	0	3.6	94.95	3.5	0	0	0	1.46
2003	274	23	2781	339.842	-425.379	D	7.599	7.598	0.001	3.313	97.57	1.45	0	0	0	1.2
2003	275	23	1922	333.594	-434.885	D	7.596	7.593	0.003	3.3	98.04	0.6	0	0	0	1.38
2003	276	23	200	320.784	-437.694	D	7.594	7.593	0.001	3.3	98.36	0.52	0	0	0	1.14
2003	277	23	1552	330.178	-425.042	D	7.593	7.593	0	3.3	95.86	0.74	0	0	0	3.49
2003	278	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	98.18	0.53	0	0	0	1.58
2003	279	23	2571	322.646	-445.476	D	7.593	7.593	0.001	3.3	98.47	0.59	0	0	0	0.99
2003	280	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	99.29	0.16	0	0	0	0.74
2003	281	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	99.48	0.09	0	0	0	0.63
2003	282	23	1008	326.651	-429.693	D	7.593	7.593	0	3.3	98.9	0.12	0	0	0	0.57
2003	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	285	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	95.17	2.5	0	0	0	2.42
2003	286	23	1	318.65	-445.782	D	7.594	7.593	0.001	3.3	99.05	0.09	0	0	0	0.93
2003	287	23	2589	318.383	-445.593	D	7.593	7.593	0.001	3.3	95.71	2.68	0	0	0	1.72
2003	288	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	95.93	1.15	0	0	0	2.94
2003	289	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	98.41	0.21	0	0	0	1.24
2003	290	23	2323	337.303	-428.727	D	7.593	7.593	0	3.3	98.47	1.48	0	0	0	0.8
2003	291	23	2418	339.946	-426.612	D	7.593	7.593	0	3.3	99.49	0.41	0	0	0	0.68
2003	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	293	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	294	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	95.45	0.18	0	0	0	4.12
2003	295	23	2790	340.421	-426.562	D	7.595	7.593	0.003	3.3	96.63	0.47	0	0	0	2.91
2003	296	23	2588	318.452	-445.8	D	7.594	7.593	0.001	3.3	98.14	0.1	0	0	0	1.88
2003	297	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	98.47	0.15	0	0	0	1.41
2003	298	23	2209	335.38	-424.564	D	7.594	7.593	0.001	3.3	98.83	0.52	0	0	0	0.69
2003	299	23	2664	325.646	-431.402	D	7.594	7.593	0.002	3.3	90.4	5.98	0	0	0	3.66
2003	300	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	92.77	4.68	0	0	0	2.54
2003	301	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	304	23	1415	329.185	-425.086	D	7.593	7.593	0	3.3	92.61	1.33	0	0	0	3.32
2003	305	23	2704	329.056	-425.092	D	7.55	7.548	0.002	3.204	94.35	3.47	0	0	0	2.26
2003	306	23	1044	326.834	-428.186	D	7.546	7.546	0	3.2	91.63	1.74	0	0	0	1.08
2003	307	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	308	23	1415	329.185	-425.086	D	7.546	7.546	0	3.2	98.46	1.03	0	0	0	0.82
2003	309	23	2781	339.842	-425.379	D	7.569	7.546	0.022	3.2	97.79	1.43	0	0	0	0.8
2003	310	23	2468	334.002	-434.887	D	7.564	7.546	0.018	3.2	97.93	1.53	0	0	0	0.55
2003	311	23	1	318.65	-445.782	D	7.547	7.546	0.001	3.2	98.83	0.97	0	0	0	0.4
2003	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	316	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	317	23	2789	340.496	-426.449	D	7.546	7.546	0	3.2	85.79	8.63	0	0	0	5.5
2003	318	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	89.22	7.35	0	0	0	3.56
2003	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	323	23	2694	327.861	-425.964	D	7.547	7.546	0	3.2	72.91	14.69	0	0	0	12.54
2003	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	327	23	2705	329.287	-425.069	D	7.547	7.546	0	3.2	92	6.7	0	0	0	1.47
2003	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	331	23	2589	318.383	-445.593	D	7.547	7.546	0.001	3.2	93.53	4.33	0	0	0	2.35
2003	332	23	2781	339.842	-425.379	D	7.547	7.546	0	3.2	73.93	17.3	0	0	0	8.8

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	333	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	335	23	1048	326.791	-427.189	D	7.591	7.591	0.001	3.296	89.78	6.48	0	0	0	3.7
2003	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	338	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	339	23	2628	320.933	-436.998	D	7.595	7.593	0.003	3.3	93.76	4.96	0	0	0	1.24
2003	340	23	2684	326.713	-427.014	D	7.594	7.593	0.001	3.3	92.61	5.55	0	0	0	1.8
2003	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	342	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	344	23	2587	318.699	-445.781	D	7.595	7.593	0.002	3.3	89.72	7.82	0	0	0	2.47
2003	345	23	2781	339.842	-425.379	D	7.596	7.593	0.003	3.3	84.74	10.82	0	0	0	4.43
2003	346	23	2694	327.861	-425.964	D	7.595	7.593	0.002	3.3	91.15	6.94	0	0	0	1.91
2003	347	23	199	320.795	-437.944	D	7.593	7.593	0	3.3	93.39	4.4	0	0	0	1
2003	348	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	349	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	354	23	2787	340.091	-426.447	D	7.593	7.593	0	3.3	94.3	3.38	0	0	0	1.9
2003	355	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	95.16	3.38	0	0	0	1.36
2003	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	357	23	2758	335.862	-424.454	D	7.594	7.593	0.001	3.3	91.88	5.92	0	0	0	2.26
2003	358	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	94.08	4.36	0	0	0	1.56
2003	359	23	2587	318.699	-445.781	D	7.595	7.593	0.002	3.3	96.06	2.72	0	0	0	1.22
2003	360	23	2235	335.628	-424.554	D	7.593	7.593	0.001	3.3	96.91	2.31	0	0	0	0.76
2003	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.022							
TRIGEN KC											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	2	23	2589	318.383	-445.593	D	7.599	7.593	0.007	3.3	94.72	5.11	0	0	0	0.17
2003	3	23	2789	340.496	-426.449	D	7.603	7.593	0.011	3.3	92.39	7.29	0	0	0	0.33
2003	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	5	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	79.53	20.02	0	0	0	1.43
2003	6	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	86.46	12.93	0	0	0	0.64
2003	7	23	2572	322.4	-445.495	D	7.596	7.593	0.003	3.3	96.12	3.68	0	0	0	0.17
2003	8	23	1951	333.842	-434.874	D	7.593	7.593	0	3.3	96.61	2.16	0	0	0	0.12
2003	9	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	95.57	4.24	0	0	0	0.45
2003	10	23	2600	318.952	-443.12	D	7.597	7.593	0.005	3.3	82.67	16.08	0	0	0	1.25
2003	11	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	82.96	16.06	0	0	0	1.03
2003	12	23	2588	318.452	-445.8	D	7.594	7.593	0.001	3.3	93.41	6.21	0	0	0	0.24
2003	13	23	2780	339.614	-425.419	D	7.595	7.593	0.002	3.3	94.47	5.4	0	0	0	0.15
2003	14	23	2468	334.002	-434.887	D	7.625	7.593	0.033	3.3	95.12	4.64	0	0	0	0.23
2003	15	23	2588	318.452	-445.8	D	7.6	7.593	0.008	3.3	96.45	3.44	0	0	0	0.13
2003	16	23	2588	318.452	-445.8	D	7.596	7.593	0.003	3.3	95.83	4.13	0	0	0	0.07
2003	17	23	2588	318.452	-445.8	D	7.595	7.593	0.003	3.3	95.39	4.29	0	0	0	0.3
2003	18	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	92.65	6.95	0	0	0	0.29
2003	19	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	21	23	2789	340.496	-426.449	D	7.596	7.593	0.003	3.3	95.53	4.41	0	0	0	0.1
2003	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	97.1	2.56	0	0	0	0.05
2003	23	23	2589	318.383	-445.593	D	7.594	7.593	0.002	3.3	87.53	12.04	0	0	0	0.47
2003	24	23	2628	320.933	-436.998	D	7.595	7.593	0.002	3.3	92.31	7.51	0	0	0	0.19
2003	25	23	2781	339.842	-425.379	D	7.596	7.593	0.004	3.3	93.04	6.87	0	0	0	0.13
2003	26	23	2552	324.659	-442.591	D	7.596	7.593	0.003	3.3	80.18	18.84	0	0	0	1
2003	27	23	2571	322.646	-445.476	D	7.597	7.593	0.005	3.3	92.68	7.17	0	0	0	0.19
2003	28	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	94.81	4.91	0	0	0	0.1
2003	29	23	2628	320.933	-436.998	D	7.596	7.593	0.003	3.3	94.67	5.25	0	0	0	0.11
2003	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	34	23	2155	334.883	-424.586	D	7.453	7.453	0	3	96.29	3.85	0	0	0	0.1
2003	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	36	23	2789	340.496	-426.449	D	7.462	7.453	0.01	3	95.5	4.26	0	0	0	0.26
2003	37	23	2694	327.861	-425.964	D	7.46	7.453	0.007	3	96.71	3.21	0	0	0	0.12
2003	38	23	305	322.115	-445.381	D	7.47	7.453	0.018	3	96.25	3.66	0	0	0	0.1
2003	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	40	23	2787	340.091	-426.447	D	7.453	7.453	0	3	168.35	6.28	0	0	0	0.21

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	41	23	2781	339.842	-425.379	D	7.453	7.453	0	3	93.64	6.37	0	0	0	0.18
2003	42	23	2709	330.21	-424.978	D	7.453	7.453	0	3	96.01	3.04	0	0	0	0.37
2003	43	23	2789	340.496	-426.449	D	7.455	7.453	0.003	3	89.4	9.95	0	0	0	0.67
2003	44	23	1415	329.185	-425.086	D	7.455	7.453	0.002	3	96.35	3.58	0	0	0	0.21
2003	45	23	2781	339.842	-425.379	D	7.453	7.453	0	3	97.78	2.36	0	0	0	0.1
2003	46	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	47	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	48	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	49	23	2694	327.861	-425.964	D	7.456	7.453	0.003	3	97.41	2.53	0	0	0	0.14
2003	50	23	2704	329.056	-425.092	D	7.454	7.453	0.001	3	97.7	2.41	0	0	0	0.1
2003	51	23	2704	329.056	-425.092	D	7.462	7.453	0.01	3	97.59	2.35	0	0	0	0.1
2003	52	23	2684	326.713	-427.014	D	7.455	7.453	0.002	3	99.12	0.9	0	0	0	0.07
2003	53	23	2588	318.452	-445.8	D	7.455	7.453	0.003	3	97.39	2.58	0	0	0	0.12
2003	54	23	2589	318.383	-445.593	D	7.456	7.453	0.004	3	91.81	7.9	0	0	0	0.38
2003	55	23	2589	318.383	-445.593	D	7.475	7.453	0.022	3	91.87	7.82	0	0	0	0.33
2003	56	23	2589	318.383	-445.593	D	7.467	7.453	0.015	3	95.97	3.93	0	0	0	0.11
2003	57	23	2684	326.713	-427.014	D	7.453	7.453	0	3	98.73	2.26	0	0	0	0.08
2003	58	23	2608	319.495	-441.316	D	7.453	7.453	0	3	98.61	1.59	0	0	0	0.06
2003	59	23	1	318.65	-445.782	D	7.453	7.453	0.001	3	99.12	1.2	0	0	0	0.05
2003	60	23	1415	329.185	-425.086	D	7.319	7.317	0.003	2.713	98.51	1.47	0	0	0	0.07
2003	61	23	2789	340.496	-426.449	D	7.348	7.311	0.038	2.7	97.79	2.1	0	0	0	0.12
2003	62	23	2628	320.933	-436.998	D	7.337	7.311	0.027	2.7	96.78	3.07	0	0	0	0.15
2003	63	23	2789	340.496	-426.449	D	7.327	7.311	0.016	2.7	98.71	1.23	0	0	0	0.07
2003	64	23	2588	318.452	-445.8	D	7.33	7.311	0.019	2.7	97.49	2.42	0	0	0	0.11
2003	65	23	2571	322.646	-445.476	D	7.322	7.311	0.011	2.7	97.31	2.6	0	0	0	0.1
2003	66	23	2781	339.842	-425.379	D	7.316	7.311	0.005	2.7	98.38	1.55	0	0	0	0.11
2003	67	23	2781	339.842	-425.379	D	7.312	7.311	0.001	2.7	99.33	0.57	0	0	0	0.07
2003	68	23	2588	318.452	-445.8	D	7.323	7.311	0.012	2.7	96.58	3.29	0	0	0	0.13
2003	69	23	2588	318.452	-445.8	D	7.312	7.311	0.002	2.7	99.28	0.79	0	0	0	0.08
2003	70	23	2588	318.452	-445.8	D	7.316	7.311	0.005	2.7	99.15	0.8	0	0	0	0.07
2003	71	23	2781	339.842	-425.379	D	7.312	7.311	0.001	2.7	99.31	0.62	0	0	0	0.05
2003	72	23	2704	329.056	-425.092	D	7.335	7.311	0.024	2.7	99.09	0.79	0	0	0	0.12
2003	73	23	2588	318.452	-445.8	D	7.343	7.311	0.032	2.7	99.04	0.88	0	0	0	0.08
2003	74	23	2628	320.933	-436.998	D	7.318	7.311	0.007	2.7	99.51	0.45	0	0	0	0.07
2003	75	23	1415	329.185	-425.086	D	7.311	7.311	0	2.7	99.9	0.21	0	0	0	0.06
2003	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	79	23	2589	318.383	-445.593	D	7.358	7.311	0.048	2.7	96.53	3.32	0	0	0	0.16

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	80	23	2476	332.154	-435.398	D	7.34	7.311	0.03	2.7	96.42	3.34	0	0	0	0.25
2003	81	23	2789	340.496	-426.449	D	7.315	7.311	0.005	2.7	98.37	1.34	0	0	0	0.3
2003	82	23	2789	340.496	-426.449	D	7.311	7.311	0	2.7	99.35	0.28	0	0	0	0.13
2003	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	84	23	2684	326.713	-427.014	D	7.312	7.311	0.002	2.7	98.67	1.28	0	0	0	0.16
2003	85	23	2571	322.646	-445.476	D	7.312	7.311	0.002	2.7	98.07	1.92	0	0	0	0.09
2003	86	23	2405	338.909	-425.659	D	7.311	7.311	0	2.7	111.39	0.35	0	0	0	0.08
2003	87	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	89	23	2781	339.842	-425.379	D	7.316	7.311	0.005	2.7	87.48	11.73	0	0	0	0.82
2003	90	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	95	23	1498	330.138	-429.79	D	7.36	7.358	0.002	2.8	88.81	10.21	0	0	0	0.97
2003	96	23	2789	340.496	-426.449	D	7.359	7.358	0	2.8	98.96	1.28	0	0	0	0.04
2003	97	23	1449	329.434	-425.075	D	7.358	7.358	0	2.8	75.98	0.75	0	0	0	0.01
2003	98	23	2781	339.842	-425.379	D	7.366	7.358	0.008	2.8	93.61	6.04	0	0	0	0.38
2003	99	23	2589	318.383	-445.593	D	7.365	7.358	0.007	2.8	94.57	5.13	0	0	0	0.3
2003	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	101	23	2589	318.383	-445.593	D	7.359	7.358	0.001	2.8	99.74	0.28	0	0	0	0.11
2003	102	23	2684	326.713	-427.014	D	7.36	7.358	0.002	2.8	99.88	0.1	0	0	0	0.08
2003	103	23	2789	340.496	-426.449	D	7.36	7.358	0.001	2.8	99.96	0.05	0	0	0	0.07
2003	104	23	2780	339.614	-425.419	D	7.359	7.358	0	2.8	100.28	0.05	0	0	0	0.07
2003	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	107	23	2684	326.713	-427.014	D	7.361	7.358	0.002	2.8	98.08	1.83	0	0	0	0.1
2003	108	23	2789	340.496	-426.449	D	7.358	7.358	0	2.8	100.48	0.08	0	0	0	0.09
2003	109	23	2417	339.654	-425.626	D	7.358	7.358	0	2.8	99.43	0.06	0	0	0	0.06
2003	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	112	23	641	324.033	-438.052	D	7.362	7.358	0.004	2.8	97.9	1.7	0	0	0	0.43
2003	113	23	2589	318.383	-445.593	D	7.363	7.358	0.005	2.8	99.48	0.41	0	0	0	0.13
2003	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	115	23	2781	339.842	-425.379	D	7.371	7.358	0.013	2.8	98.83	0.99	0	0	0	0.19
2003	116	23	2601	319.02	-442.895	D	7.366	7.358	0.007	2.8	98.82	1.02	0	0	0	0.15
2003	117	23	2613	319.871	-440.204	D	7.359	7.358	0.001	2.8	99.76	0.19	0	0	0	0.08
2003	118	23	1415	329.185	-425.086	D	7.358	7.358	0	2.8	101.74	0.02	0	0	0	0.07

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	119	23	2040	333.912	-425.128	D	7.358	7.358	0	2.8	101.97	0.23	0	0	0	0.06
2003	120	23	2209	335.38	-424.564	D	7.358	7.358	0	2.8	92.92	0.06	0	0	0	0.04
2003	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2003	122	23	2628	320.933	-436.998	D	7.688	7.639	0.049	3.4	99.49	0.41	0	0	0	0.1
2003	123	23	2579	320.672	-445.629	D	7.71	7.639	0.071	3.4	99.68	0.26	0	0	0	0.06
2003	124	23	2704	329.056	-425.092	D	7.651	7.639	0.012	3.4	99.9	0.07	0	0	0	0.03
2003	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	127	23	2758	335.862	-424.454	D	7.657	7.639	0.018	3.4	99.62	0.26	0	0	0	0.12
2003	128	23	2758	335.862	-424.454	D	7.646	7.639	0.007	3.4	99.86	0.06	0	0	0	0.09
2003	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	137	23	2756	335.398	-424.515	D	7.642	7.639	0.003	3.4	99.88	0.05	0	0	0	0.05
2003	138	23	2628	320.933	-436.998	D	7.653	7.639	0.014	3.4	99.53	0.43	0	0	0	0.04
2003	139	23	2628	320.933	-436.998	D	7.642	7.639	0.003	3.4	99.76	0.26	0	0	0	0.04
2003	140	23	2628	320.933	-436.998	D	7.651	7.639	0.012	3.4	99.07	0.87	0	0	0	0.06
2003	141	23	1	318.65	-445.782	D	7.639	7.639	0.001	3.4	100.18	0.19	0	0	0	0.03
2003	142	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	144	23	2155	334.883	-424.586	D	7.64	7.639	0.001	3.4	99.55	0.36	0	0	0	0.07
2003	145	23	2589	318.383	-445.593	D	7.68	7.639	0.041	3.4	99.55	0.38	0	0	0	0.06
2003	146	23	2588	318.452	-445.8	D	7.655	7.639	0.016	3.4	99.87	0.09	0	0	0	0.04
2003	147	23	2588	318.452	-445.8	D	7.64	7.639	0.001	3.4	100.04	0.03	0	0	0	0.04
2003	148	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.7	0.25	0	0	0	0.14
2003	149	23	1623	330.718	-426.018	D	7.645	7.639	0.006	3.4	98.03	1.62	0	0	0	0.37
2003	150	23	2662	325.404	-431.803	D	7.647	7.639	0.009	3.4	99.79	0.08	0	0	0	0.14
2003	151	23	2589	318.383	-445.593	D	7.64	7.639	0.001	3.4	92.58	6.51	0	0	0	0.98
2003	152	23	2589	318.383	-445.593	D	7.639	7.639	0	3.4	99.71	0.06	0	0	0	0.1
2003	153	23	2624	320.719	-437.835	D	7.639	7.639	0	3.4	100.09	0.09	0	0	0	0.06
2003	154	23	2588	318.452	-445.8	D	7.658	7.639	0.019	3.4	96.39	3.44	0	0	0	0.17
2003	155	23	2589	318.383	-445.593	D	7.647	7.639	0.009	3.4	99.7	0.21	0	0	0	0.1
2003	156	23	2589	318.383	-445.593	D	7.641	7.639	0.002	3.4	99.83	0.13	0	0	0	0.06
2003	157	23	2628	320.933	-436.998	D	7.64	7.639	0.001	3.4	99.76	0.17	0	0	0	0.05

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	158	23	2588	318.452	-445.8	D	7.641	7.639	0.002	3.4	99.91	0.11	0	0	0	0.05
2003	159	23	2571	322.646	-445.476	D	7.639	7.639	0.001	3.4	99.95	0.02	0	0	0	0.04
2003	160	23	1202	328.425	-436.111	D	7.639	7.639	0	3.4	93.62	0.01	0	0	0	0.04
2003	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	164	23	2610	319.631	-440.865	D	7.642	7.639	0.003	3.4	99.95	0.02	0	0	0	0.07
2003	165	23	2589	318.383	-445.593	D	7.642	7.639	0.003	3.4	99.9	0.09	0	0	0	0.05
2003	166	23	1	318.65	-445.782	D	7.64	7.639	0.001	3.4	99.97	0.15	0	0	0	0.04
2003	167	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	100.04	0.06	0	0	0	0.03
2003	168	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	100.07	0.15	0	0	0	0.03
2003	169	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	170	23	2704	329.056	-425.092	D	7.642	7.639	0.003	3.4	99.91	0.03	0	0	0	0.09
2003	171	23	2684	326.713	-427.014	D	7.648	7.639	0.009	3.4	99.84	0.1	0	0	0	0.08
2003	172	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	177	23	2640	322.263	-435.121	D	7.651	7.639	0.013	3.4	97.36	2.45	0	0	0	0.19
2003	178	23	2684	326.713	-427.014	D	7.649	7.639	0.01	3.4	99.59	0.22	0	0	0	0.21
2003	179	23	2694	327.861	-425.964	D	7.648	7.639	0.009	3.4	99.84	0.06	0	0	0	0.11
2003	180	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	99.76	0.01	0	0	0	0.08
2003	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	183	23	2337	337.15	-425.236	D	7.639	7.639	0	3.4	97.49	0.01	0	0	0	0.05
2003	184	23	2397	338.413	-425.68	D	7.639	7.639	0	3.4	95.7	0.02	0	0	0	0.04
2003	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	192	23	2589	318.383	-445.593	D	7.641	7.639	0.002	3.4	99.31	0.39	0	0	0	0.37
2003	193	23	2684	326.713	-427.014	D	7.644	7.639	0.005	3.4	99.78	0.17	0	0	0	0.09
2003	194	23	2758	335.862	-424.454	D	7.639	7.639	0.001	3.4	99.89	0.04	0	0	0	0.08
2003	195	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	99.75	0.17	0	0	0	0.06
2003	196	23	2412	339.417	-425.886	D	7.639	7.639	0	3.4	98.89	0.01	0	0	0	0.05

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	197	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	99.96	0.03	0	0	0	0.09
2003	198	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.94	0.01	0	0	0	0.07
2003	199	23	2789	340.496	-426.449	D	7.639	7.639	0.001	3.4	99.95	0	0	0	0	0.05
2003	200	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	99.6	0.01	0	0	0	0.05
2003	201	23	2416	339.665	-425.875	D	7.639	7.639	0	3.4	99.19	0.01	0	0	0	0.05
2003	202	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	100.53	0.09	0	0	0	0.05
2003	203	23	2781	339.842	-425.379	D	7.644	7.639	0.005	3.4	99.78	0.11	0	0	0	0.11
2003	204	23	2589	318.383	-445.593	D	7.64	7.639	0.001	3.4	99.7	0.07	0	0	0	0.16
2003	205	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	206	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	207	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	208	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	210	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.96	0.07	0	0	0	0.06
2003	211	23	2781	339.842	-425.379	D	7.646	7.639	0.007	3.4	99.83	0.12	0	0	0	0.05
2003	212	23	2684	326.713	-427.014	D	7.65	7.639	0.011	3.4	99.92	0.03	0	0	0	0.06
2003	213	23	2781	339.842	-425.379	D	7.649	7.639	0.01	3.4	99.9	0.05	0	0	0	0.06
2003	214	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.99	0.01	0	0	0	0.04
2003	215	23	2758	335.862	-424.454	D	7.64	7.639	0.002	3.4	99.92	0.01	0	0	0	0.1
2003	216	23	2781	339.842	-425.379	D	7.65	7.639	0.011	3.4	99.72	0.22	0	0	0	0.08
2003	217	23	2781	339.842	-425.379	D	7.639	7.639	0.001	3.4	100.06	0.09	0	0	0	0.07
2003	218	23	2589	318.383	-445.593	D	7.65	7.639	0.011	3.4	99.89	0.03	0	0	0	0.1
2003	219	23	2589	318.383	-445.593	D	7.665	7.639	0.026	3.4	99.87	0.07	0	0	0	0.06
2003	220	23	2588	318.452	-445.8	D	7.642	7.639	0.003	3.4	99.92	0	0	0	0	0.05
2003	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	99.99	0	0	0	0	0.04
2003	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	105.8	0.01	0	0	0	0.11
2003	223	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	100.95	0.11	0	0	0	0.06
2003	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	230	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	99.75	0.01	0	0	0	0.1
2003	231	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.92	0.02	0	0	0	0.07
2003	232	23	2789	340.496	-426.449	D	7.645	7.639	0.006	3.4	99.91	0.04	0	0	0	0.05
2003	233	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	99.92	0.06	0	0	0	0.05
2003	234	23	2789	340.496	-426.449	D	7.645	7.639	0.006	3.4	99.93	0.03	0	0	0	0.06
2003	235	23	2789	340.496	-426.449	D	7.649	7.639	0.01	3.4	99.91	0.02	0	0	0	0.08

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	236	23	2588	318.452	-445.8	D	7.646	7.639	0.007	3.4	99.91	0.03	0	0	0	0.06
2003	237	23	2628	320.933	-436.998	D	7.645	7.639	0.006	3.4	99.92	0.02	0	0	0	0.06
2003	238	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.93	0.01	0	0	0	0.05
2003	239	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.9	0.01	0	0	0	0.04
2003	240	23	1698	331.856	-434.961	D	7.639	7.639	0	3.4	99.39	0.03	0	0	0	0.04
2003	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	242	23	1242	327.988	-426.138	D	7.639	7.639	0	3.4	67.46	0.06	0	0	0	0.04
2003	243	23	1627	330.675	-425.021	D	7.639	7.639	0	3.4	86.16	0.22	0	0	0	0.04
2003	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2003	245	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	246	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	247	23	2628	320.933	-436.998	D	7.742	7.731	0.011	3.6	99.29	0.62	0	0	0	0.1
2003	248	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	249	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	255	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	257	23	2781	339.842	-425.379	D	7.745	7.731	0.015	3.6	97.33	2.37	0	0	0	0.3
2003	258	23	2789	340.496	-426.449	D	7.743	7.731	0.012	3.6	99.47	0.33	0	0	0	0.19
2003	259	23	2684	326.713	-427.014	D	7.746	7.731	0.015	3.6	99.7	0.18	0	0	0	0.12
2003	260	23	1415	329.185	-425.086	D	7.731	7.731	0	3.6	99.79	0.05	0	0	0	0.09
2003	261	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	262	23	2789	340.496	-426.449	D	7.734	7.731	0.003	3.6	95.38	4.31	0	0	0	0.33
2003	263	23	2627	320.879	-437.207	D	7.731	7.731	0	3.6	98.99	0.29	0	0	0	0.17
2003	264	23	2588	318.452	-445.8	D	7.734	7.731	0.004	3.6	99.92	0.04	0	0	0	0.04
2003	265	23	2781	339.842	-425.379	D	7.734	7.731	0.003	3.6	99.67	0.31	0	0	0	0.03
2003	266	23	2789	340.496	-426.449	D	7.732	7.731	0.002	3.6	98.08	1.39	0	0	0	0.5
2003	267	23	2789	340.496	-426.449	D	7.731	7.731	0	3.6	99.25	0.1	0	0	0	0.12
2003	268	23	2588	318.452	-445.8	D	7.736	7.731	0.005	3.6	99.39	0.43	0	0	0	0.19
2003	269	23	2571	322.646	-445.476	D	7.738	7.731	0.007	3.6	99.77	0.13	0	0	0	0.09
2003	270	23	2781	339.842	-425.379	D	7.732	7.731	0.002	3.6	96.76	2.94	0	0	0	0.36
2003	271	23	2781	339.842	-425.379	D	7.732	7.731	0.001	3.6	98.1	1.46	0	0	0	0.53
2003	272	23	2589	318.383	-445.593	D	7.732	7.731	0.001	3.6	94.95	4.49	0	0	0	0.5
2003	273	23	2711	330.671	-424.932	D	7.733	7.731	0.002	3.6	98.83	1.11	0	0	0	0.11
2003	274	23	2781	339.842	-425.379	D	7.606	7.598	0.008	3.313	98.53	1.41	0	0	0	0.07

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	275	23	2588	318.452	-445.8	D	7.605	7.593	0.013	3.3	98.57	1.26	0	0	0	0.17
2003	276	23	2628	320.933	-436.998	D	7.6	7.593	0.007	3.3	99.52	0.41	0	0	0	0.09
2003	277	23	2758	335.862	-424.454	D	7.599	7.593	0.006	3.3	99.12	0.59	0	0	0	0.3
2003	278	23	2571	322.646	-445.476	D	7.598	7.593	0.006	3.3	99.35	0.52	0	0	0	0.15
2003	279	23	2588	318.452	-445.8	D	7.596	7.593	0.004	3.3	99.35	0.57	0	0	0	0.09
2003	280	23	2588	318.452	-445.8	D	7.594	7.593	0.001	3.3	99.79	0.14	0	0	0	0.07
2003	281	23	1047	326.802	-427.438	D	7.593	7.593	0.001	3.3	99.75	0.14	0	0	0	0.06
2003	282	23	977	326.425	-430.203	D	7.593	7.593	0	3.3	99.64	0.06	0	0	0	0.06
2003	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	285	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	95.9	3.65	0	0	0	0.44
2003	286	23	2588	318.452	-445.8	D	7.597	7.593	0.004	3.3	99.77	0.15	0	0	0	0.1
2003	287	23	2628	320.933	-436.998	D	7.599	7.593	0.006	3.3	96.03	3.71	0	0	0	0.27
2003	288	23	2789	340.496	-426.449	D	7.598	7.593	0.005	3.3	98.25	1.37	0	0	0	0.4
2003	289	23	2789	340.496	-426.449	D	7.595	7.593	0.003	3.3	99.68	0.22	0	0	0	0.13
2003	290	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	98.37	1.67	0	0	0	0.06
2003	291	23	2467	334.065	-434.651	D	7.593	7.593	0	3.3	99.53	0.33	0	0	0	0.06
2003	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	293	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	294	23	2781	339.842	-425.379	D	7.595	7.593	0.002	3.3	99.46	0.14	0	0	0	0.38
2003	295	23	2451	335.22	-431.216	D	7.634	7.593	0.041	3.3	99.42	0.32	0	0	0	0.27
2003	296	23	2588	318.452	-445.8	D	7.595	7.593	0.003	3.3	99.68	0.18	0	0	0	0.16
2003	297	23	2781	339.842	-425.379	D	7.599	7.593	0.006	3.3	99.54	0.31	0	0	0	0.18
2003	298	23	2684	326.713	-427.014	D	7.609	7.593	0.016	3.3	98.53	1.31	0	0	0	0.17
2003	299	23	1449	329.434	-425.075	D	7.604	7.593	0.011	3.3	92.84	6.77	0	0	0	0.4
2003	300	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	96.83	2.97	0	0	0	0.21
2003	301	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	304	23	1415	329.185	-425.086	D	7.593	7.593	0	3.3	98.83	0.73	0	0	0	0.27
2003	305	23	2694	327.861	-425.964	D	7.556	7.548	0.008	3.204	97.78	2.04	0	0	0	0.19
2003	306	23	2684	326.713	-427.014	D	7.546	7.546	0	3.2	99.06	0.61	0	0	0	0.12
2003	307	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	308	23	2694	327.861	-425.964	D	7.548	7.546	0.002	3.2	99.18	0.77	0	0	0	0.07
2003	309	23	2294	336.796	-428.499	D	7.606	7.546	0.06	3.2	98.62	1.3	0	0	0	0.08
2003	310	23	2571	322.646	-445.476	D	7.606	7.546	0.059	3.2	98.54	1.41	0	0	0	0.05
2003	311	23	2588	318.452	-445.8	D	7.549	7.546	0.003	3.2	99.14	0.85	0	0	0	0.03
2003	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	316	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	317	23	2684	326.713	-427.014	D	7.553	7.546	0.006	3.2	93.36	6.05	0	0	0	0.6
2003	318	23	2589	318.383	-445.593	D	7.556	7.546	0.01	3.2	94.61	5.01	0	0	0	0.39
2003	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	322	23	2589	318.383	-445.593	D	7.551	7.546	0.005	3.2	97.71	2.21	0	0	0	0.09
2003	323	23	2781	339.842	-425.379	D	7.55	7.546	0.004	3.2	88.2	10.63	0	0	0	1.2
2003	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	327	23	2709	330.21	-424.978	D	7.548	7.546	0.002	3.2	96.82	3.1	0	0	0	0.07
2003	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	331	23	2589	318.383	-445.593	D	7.549	7.546	0.003	3.2	95.64	4.16	0	0	0	0.23
2003	332	23	2781	339.842	-425.379	D	7.549	7.546	0.002	3.2	79.71	18.89	0	0	0	1.44
2003	333	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	335	23	1415	329.185	-425.086	D	7.593	7.591	0.002	3.296	93.88	5.63	0	0	0	0.48
2003	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	338	23	2589	318.383	-445.593	D	7.611	7.593	0.019	3.3	96.72	3.14	0	0	0	0.14
2003	339	23	2789	340.496	-426.449	D	7.598	7.593	0.005	3.3	95.46	4.41	0	0	0	0.14
2003	340	23	2781	339.842	-425.379	D	7.598	7.593	0.005	3.3	94.47	5.17	0	0	0	0.37
2003	341	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	342	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	344	23	2588	318.452	-445.8	D	7.615	7.593	0.022	3.3	96.24	3.66	0	0	0	0.11
2003	345	23	2781	339.842	-425.379	D	7.601	7.593	0.008	3.3	86.15	13.17	0	0	0	0.69
2003	346	23	2628	320.933	-436.998	D	7.602	7.593	0.009	3.3	93.02	6.77	0	0	0	0.22
2003	347	23	234	321.01	-437.185	D	7.593	7.593	0	3.3	93.53	4.51	0	0	0	0.12
2003	348	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	349	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	354	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	94.83	4.96	0	0	0	0.29
2003	355	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	96.68	3.13	0	0	0	0.14
2003	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	357	23	2781	339.842	-425.379	D	7.599	7.593	0.006	3.3	95.56	4.24	0	0	0	0.22
2003	358	23	2789	340.496	-426.449	D	7.605	7.593	0.012	3.3	94.03	5.72	0	0	0	0.26
2003	359	23	2571	322.646	-445.476	D	7.602	7.593	0.009	3.3	96.29	3.56	0	0	0	0.16
2003	360	23	2758	335.862	-424.454	D	7.596	7.593	0.003	3.3	97.28	2.63	0	0	0	0.09
2003	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.071							
UMC											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	2	23	2781	339.842	-425.379	D	7.605	7.593	0.012	3.3	73.3	26.61	0	0	0	0.09
2003	3	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	7	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	9	23	2789	340.496	-426.449	D	7.629	7.593	0.036	3.3	96.87	3.07	0	0	0	0.06
2003	10	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	11	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	12	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	85.98	14.02	0	0	0	0.04
2003	13	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	88.05	11.75	0	0	0	0.02
2003	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	15	23	2789	340.496	-426.449	D	7.605	7.593	0.013	3.3	85.7	14.27	0	0	0	0.03
2003	16	23	2588	318.452	-445.8	D	7.703	7.593	0.11	3.3	89.02	10.96	0	0	0	0.02
2003	17	23	375	322.611	-445.359	D	7.593	7.593	0	3.3	91.91	5.26	0	0	0	0
2003	18	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	19	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	21	23	2789	340.496	-426.449	D	7.618	7.593	0.025	3.3	88.4	11.59	0	0	0	0.02

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	22	23	2704	329.056	-425.092	D	7.632	7.593	0.039	3.3	78.81	21.14	0	0	0	0.05
2003	23	23	2789	340.496	-426.449	D	7.599	7.593	0.006	3.3	83.71	16.27	0	0	0	0.02
2003	24	23	2790	340.421	-426.562	D	7.594	7.593	0.001	3.3	88.87	11.17	0	0	0	0.02
2003	25	23	2790	340.421	-426.562	D	7.595	7.593	0.003	3.3	90.48	9.54	0	0	0	0.01
2003	26	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	93.3	6.77	0	0	0	0.01
2003	27	23	2789	340.496	-426.449	D	7.597	7.593	0.005	3.3	87.57	12.41	0	0	0	0.02
2003	28	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	92.04	7.83	0	0	0	0.01
2003	29	23	2789	340.496	-426.449	D	7.636	7.593	0.044	3.3	70.79	29.13	0	0	0	0.09
2003	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	31	23	1415	329.185	-425.086	D	7.593	7.593	0	3.3	96.06	5.26	0	0	0	0.01
2003	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	36	23	2789	340.496	-426.449	D	7.453	7.453	0	3	86.54	13.82	0	0	0	0.05
2003	37	23	2789	340.496	-426.449	D	7.493	7.453	0.04	3	90.12	9.87	0	0	0	0.01
2003	38	23	2684	326.713	-427.014	D	7.764	7.453	0.311	3	93.81	6.18	0	0	0	0.01
2003	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	40	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	42	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	43	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	44	23	2789	340.496	-426.449	D	7.455	7.453	0.002	3	89.54	10.54	0	0	0	0.03
2003	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	46	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	47	23	2781	339.842	-425.379	D	7.628	7.453	0.175	3	92.34	7.64	0	0	0	0.02
2003	48	23	2694	327.861	-425.964	D	7.692	7.453	0.239	3	91.39	8.58	0	0	0	0.03
2003	49	23	2789	340.496	-426.449	D	7.495	7.453	0.043	3	93.74	6.26	0	0	0	0.01
2003	50	23	2781	339.842	-425.379	D	7.537	7.453	0.084	3	96.63	3.36	0	0	0	0.01
2003	51	23	2704	329.056	-425.092	D	7.558	7.453	0.106	3	93.02	6.97	0	0	0	0.01
2003	52	23	2628	320.933	-436.998	D	7.458	7.453	0.006	3	97.12	2.92	0	0	0	0.01
2003	53	23	2589	318.383	-445.593	D	7.563	7.453	0.11	3	92.52	7.46	0	0	0	0.02
2003	54	23	2781	339.842	-425.379	D	7.511	7.453	0.058	3	88.52	11.46	0	0	0	0.02
2003	55	23	2704	329.056	-425.092	D	7.557	7.453	0.104	3	91.44	8.55	0	0	0	0.01
2003	56	23	2575	321.659	-445.553	D	7.533	7.453	0.081	3	86.49	13.47	0	0	0	0.04
2003	57	23	2588	318.452	-445.8	D	7.591	7.453	0.138	3	93	7	0	0	0	0.01
2003	58	23	2589	318.383	-445.593	D	7.515	7.453	0.062	3	94.97	5.03	0	0	0	0.01
2003	59	23	2589	318.383	-445.593	D	7.521	7.453	0.068	3	95.5	4.5	0	0	0	0.01
2003	60	23	2705	329.287	-425.069	D	7.387	7.317	0.071	2.713	95.86	4.13	0	0	0	0.01

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	61	23	2781	339.842	-425.379	D	7.424	7.311	0.113	2.7	96.59	3.4	0	0	0	0.01
2003	62	23	2468	334.002	-434.887	D	7.329	7.311	0.018	2.7	97.59	2.41	0	0	0	0.01
2003	63	23	2789	340.496	-426.449	D	7.332	7.311	0.022	2.7	97.77	2.23	0	0	0	0.01
2003	64	23	2781	339.842	-425.379	D	7.386	7.311	0.076	2.7	94.05	5.94	0	0	0	0.01
2003	65	23	2789	340.496	-426.449	D	7.323	7.311	0.012	2.7	94.29	5.69	0	0	0	0.02
2003	66	23	2789	340.496	-426.449	D	7.353	7.311	0.042	2.7	94.68	5.31	0	0	0	0.01
2003	67	23	2789	340.496	-426.449	D	7.317	7.311	0.006	2.7	98.8	1.17	0	0	0	0.01
2003	68	23	2789	340.496	-426.449	D	7.373	7.311	0.063	2.7	80.89	19.04	0	0	0	0.07
2003	69	23	2758	335.862	-424.454	D	7.534	7.311	0.224	2.7	87.13	12.84	0	0	0	0.03
2003	70	23	2704	329.056	-425.092	D	7.443	7.311	0.133	2.7	95.22	4.76	0	0	0	0.02
2003	71	23	2781	339.842	-425.379	D	7.317	7.311	0.007	2.7	98.22	1.76	0	0	0	0.01
2003	72	23	2789	340.496	-426.449	D	7.32	7.311	0.009	2.7	98.47	1.52	0	0	0	0.02
2003	73	23	2571	322.646	-445.476	D	7.415	7.311	0.105	2.7	97.36	2.63	0	0	0	0.01
2003	74	23	2589	318.383	-445.593	D	7.376	7.311	0.065	2.7	98.77	1.22	0	0	0	0.01
2003	75	23	2704	329.056	-425.092	D	7.319	7.311	0.009	2.7	99.65	0.34	0	0	0	0.01
2003	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	79	23	2694	327.861	-425.964	D	7.503	7.311	0.192	2.7	94.97	5.02	0	0	0	0.01
2003	80	23	2789	340.496	-426.449	D	7.433	7.311	0.123	2.7	93.5	6.48	0	0	0	0.02
2003	81	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	82	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	84	23	2589	318.383	-445.593	D	7.341	7.311	0.031	2.7	97.5	2.48	0	0	0	0.03
2003	85	23	2684	326.713	-427.014	D	7.316	7.311	0.005	2.7	80.22	19.74	0	0	0	0.07
2003	86	23	2789	340.496	-426.449	D	7.313	7.311	0.002	2.7	99.33	0.71	0	0	0	0.01
2003	87	23	2035	333.967	-426.375	D	7.311	7.311	0	2.7	92.2	0.15	0	0	0	0.01
2003	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	89	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	90	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	96	23	2781	339.842	-425.379	D	7.382	7.358	0.024	2.8	94.05	5.95	0	0	0	0.01
2003	97	23	1415	329.185	-425.086	D	7.358	7.358	0	2.8	98.36	2.37	0	0	0	0
2003	98	23	2789	340.496	-426.449	D	7.372	7.358	0.014	2.8	96.69	3.32	0	0	0	0.01
2003	99	23	2789	340.496	-426.449	D	7.37	7.358	0.012	2.8	97.13	2.85	0	0	0	0.03

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	100	23	2789	340.496	-426.449	D	7.458	7.358	0.1	2.8	93.43	6.54	0	0	0	0.03
2003	101	23	2781	339.842	-425.379	D	7.402	7.358	0.043	2.8	98.38	1.6	0	0	0	0.02
2003	102	23	2789	340.496	-426.449	D	7.41	7.358	0.052	2.8	99.48	0.51	0	0	0	0.02
2003	103	23	2789	340.496	-426.449	D	7.361	7.358	0.003	2.8	99.91	0.1	0	0	0	0.01
2003	104	23	2789	340.496	-426.449	D	7.359	7.358	0	2.8	99.55	0.26	0	0	0	0.01
2003	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	107	23	2781	339.842	-425.379	D	7.363	7.358	0.005	2.8	94.75	5.26	0	0	0	0.01
2003	108	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	101.81	0.04	0	0	0	0.01
2003	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	112	23	2781	339.842	-425.379	D	7.364	7.358	0.005	2.8	98.83	1.17	0	0	0	0.05
2003	113	23	2757	335.63	-424.484	D	7.365	7.358	0.006	2.8	98.82	1.17	0	0	0	0.02
2003	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	115	23	2588	318.452	-445.8	D	7.458	7.358	0.1	2.8	96.75	3.23	0	0	0	0.02
2003	116	23	2781	339.842	-425.379	D	7.396	7.358	0.038	2.8	89.18	10.78	0	0	0	0.04
2003	117	23	2588	318.452	-445.8	D	7.375	7.358	0.017	2.8	99.19	0.81	0	0	0	0.01
2003	118	23	2781	339.842	-425.379	D	7.362	7.358	0.003	2.8	99.87	0.13	0	0	0	0.01
2003	119	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	99.05	0.69	0	0	0	0.01
2003	120	23	2780	339.614	-425.419	D	7.358	7.358	0	2.8	99.22	0.14	0	0	0	0.01
2003	121	23	977	326.425	-430.203	D	7.627	7.627	0	3.375	83.11	0.41	0	0	0	0.01
2003	122	23	2781	339.842	-425.379	D	7.689	7.639	0.05	3.4	99.41	0.58	0	0	0	0.02
2003	123	23	2758	335.862	-424.454	D	8.074	7.639	0.435	3.4	97.6	2.39	0	0	0	0.01
2003	124	23	2789	340.496	-426.449	D	7.688	7.639	0.049	3.4	99.74	0.26	0	0	0	0.01
2003	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	127	23	2704	329.056	-425.092	D	7.668	7.639	0.03	3.4	99.24	0.75	0	0	0	0.01
2003	128	23	2758	335.862	-424.454	D	7.648	7.639	0.009	3.4	99.87	0.13	0	0	0	0.01
2003	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	137	23	2781	339.842	-425.379	D	7.643	7.639	0.004	3.4	99.87	0.14	0	0	0	0.01
2003	138	23	2628	320.933	-436.998	D	7.698	7.639	0.059	3.4	98.89	1.11	0	0	0	0.01

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	139	23	2628	320.933	-436.998	D	7.656	7.639	0.017	3.4	99.45	0.54	0	0	0	0.01
2003	140	23	2789	340.496	-426.449	D	7.863	7.639	0.224	3.4	95.36	4.63	0	0	0	0.01
2003	141	23	2789	340.496	-426.449	D	7.697	7.639	0.058	3.4	98.93	1.05	0	0	0	0.02
2003	142	23	2758	335.862	-424.454	D	7.725	7.639	0.087	3.4	99.72	0.27	0	0	0	0.02
2003	143	23	2552	324.659	-442.591	D	7.876	7.639	0.237	3.4	99.76	0.23	0	0	0	0.01
2003	144	23	2781	339.842	-425.379	D	7.902	7.639	0.263	3.4	99.67	0.32	0	0	0	0.01
2003	145	23	2704	329.056	-425.092	D	7.988	7.639	0.349	3.4	99.18	0.81	0	0	0	0.01
2003	146	23	2588	318.452	-445.8	D	7.924	7.639	0.285	3.4	99.57	0.42	0	0	0	0.01
2003	147	23	2611	319.699	-440.64	D	7.672	7.639	0.033	3.4	99.76	0.22	0	0	0	0.01
2003	148	23	2588	318.452	-445.8	D	7.751	7.639	0.112	3.4	99.83	0.15	0	0	0	0.01
2003	149	23	2571	322.646	-445.476	D	7.644	7.639	0.005	3.4	99.96	0.03	0	0	0	0.01
2003	150	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	151	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	94.19	0.09	0	0	0	0.02
2003	152	23	2589	318.383	-445.593	D	7.69	7.639	0.052	3.4	99.18	0.81	0	0	0	0.01
2003	153	23	2589	318.383	-445.593	D	7.656	7.639	0.018	3.4	99.62	0.38	0	0	0	0
2003	154	23	2589	318.383	-445.593	D	7.74	7.639	0.101	3.4	97.14	2.85	0	0	0	0.01
2003	155	23	2588	318.452	-445.8	D	7.681	7.639	0.042	3.4	99.82	0.17	0	0	0	0.01
2003	156	23	2571	322.646	-445.476	D	7.749	7.639	0.11	3.4	99.85	0.14	0	0	0	0.01
2003	157	23	2781	339.842	-425.379	D	7.739	7.639	0.1	3.4	99.41	0.58	0	0	0	0.01
2003	158	23	2588	318.452	-445.8	D	7.64	7.639	0.001	3.4	99.81	0.23	0	0	0	0
2003	159	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	160	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	164	23	2704	329.056	-425.092	D	7.639	7.639	0	3.4	99.88	0.03	0	0	0	0.01
2003	165	23	2758	335.862	-424.454	D	7.884	7.639	0.245	3.4	99.04	0.95	0	0	0	0.01
2003	166	23	2571	322.646	-445.476	D	7.925	7.639	0.286	3.4	99.25	0.74	0	0	0	0.01
2003	167	23	2571	322.646	-445.476	D	7.737	7.639	0.098	3.4	99.68	0.31	0	0	0	0.01
2003	168	23	2588	318.452	-445.8	D	7.699	7.639	0.06	3.4	99.52	0.48	0	0	0	0
2003	169	23	2588	318.452	-445.8	D	7.654	7.639	0.015	3.4	99.78	0.21	0	0	0	0
2003	170	23	2684	326.713	-427.014	D	7.731	7.639	0.092	3.4	99.9	0.09	0	0	0	0.01
2003	171	23	2468	334.002	-434.887	D	8.097	7.639	0.458	3.4	98.2	1.79	0	0	0	0.01
2003	172	23	2589	318.383	-445.593	D	7.696	7.639	0.057	3.4	99.86	0.14	0	0	0	0.01
2003	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	178	23	2571	322.646	-445.476	D	7.64	7.639	0.001	3.4	99.98	0.11	0	0	0	0.03
2003	179	23	2789	340.496	-426.449	D	7.649	7.639	0.01	3.4	99.88	0.12	0	0	0	0.01
2003	180	23	2628	320.933	-436.998	D	7.653	7.639	0.014	3.4	99.96	0.04	0	0	0	0.01
2003	181	23	2684	326.713	-427.014	D	7.649	7.639	0.01	3.4	99.91	0.09	0	0	0	0.01
2003	182	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	99.64	0.16	0	0	0	0.01
2003	183	23	2413	339.406	-425.637	D	7.639	7.639	0	3.4	99.66	0.12	0	0	0	0.01
2003	184	23	2413	339.406	-425.637	D	7.639	7.639	0	3.4	100.3	0.07	0	0	0	0.01
2003	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	192	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	193	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	194	23	2413	339.406	-425.637	D	7.639	7.639	0	3.4	98.72	0.02	0	0	0	0.01
2003	195	23	2781	339.842	-425.379	D	7.652	7.639	0.013	3.4	99.73	0.27	0	0	0	0.01
2003	196	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	100.06	0.02	0	0	0	0.01
2003	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	198	23	2789	340.496	-426.449	D	7.64	7.639	0.002	3.4	99.96	0.06	0	0	0	0.01
2003	199	23	2468	334.002	-434.887	D	7.639	7.639	0	3.4	100.06	0.02	0	0	0	0.01
2003	200	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	99.89	0.05	0	0	0	0.01
2003	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	204	23	2694	327.861	-425.964	D	7.696	7.639	0.057	3.4	99.3	0.67	0	0	0	0.03
2003	205	23	2684	326.713	-427.014	D	7.924	7.639	0.285	3.4	99.79	0.2	0	0	0	0.02
2003	206	23	2704	329.056	-425.092	D	7.677	7.639	0.038	3.4	99.86	0.13	0	0	0	0.01
2003	207	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	208	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	210	23	2781	339.842	-425.379	D	7.663	7.639	0.024	3.4	99.07	0.93	0	0	0	0.01
2003	211	23	2781	339.842	-425.379	D	7.735	7.639	0.096	3.4	99.39	0.6	0	0	0	0.01
2003	212	23	2789	340.496	-426.449	D	7.732	7.639	0.093	3.4	99.65	0.34	0	0	0	0.01
2003	213	23	2789	340.496	-426.449	D	7.676	7.639	0.037	3.4	99.87	0.13	0	0	0	0.01
2003	214	23	2789	340.496	-426.449	D	7.651	7.639	0.012	3.4	99.95	0.03	0	0	0	0
2003	215	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	216	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	217	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	218	23	2684	326.713	-427.014	D	7.72	7.639	0.081	3.4	99.93	0.05	0	0	0	0.01
2003	219	23	2589	318.383	-445.593	D	8.109	7.639	0.47	3.4	99.11	0.88	0	0	0	0.02
2003	220	23	2571	322.646	-445.476	D	7.952	7.639	0.313	3.4	99.82	0.16	0	0	0	0.02
2003	221	23	2589	318.383	-445.593	D	7.836	7.639	0.198	3.4	99.9	0.08	0	0	0	0.02
2003	222	23	2589	318.383	-445.593	D	7.851	7.639	0.212	3.4	99.92	0.07	0	0	0	0.01
2003	223	23	2588	318.452	-445.8	D	7.929	7.639	0.29	3.4	99.87	0.12	0	0	0	0.01
2003	224	23	2588	318.452	-445.8	D	7.647	7.639	0.008	3.4	99.65	0.35	0	0	0	0.01
2003	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	230	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	99.97	0.01	0	0	0	0.01
2003	231	23	2789	340.496	-426.449	D	7.672	7.639	0.033	3.4	99.92	0.07	0	0	0	0.01
2003	232	23	2789	340.496	-426.449	D	7.677	7.639	0.038	3.4	99.9	0.1	0	0	0	0.01
2003	233	23	2789	340.496	-426.449	D	7.67	7.639	0.031	3.4	99.85	0.15	0	0	0	0.01
2003	234	23	2790	340.421	-426.562	D	7.673	7.639	0.035	3.4	99.93	0.07	0	0	0	0.01
2003	235	23	2704	329.056	-425.092	D	7.752	7.639	0.113	3.4	99.95	0.04	0	0	0	0.01
2003	236	23	2588	318.452	-445.8	D	7.904	7.639	0.265	3.4	99.57	0.42	0	0	0	0.01
2003	237	23	2684	326.713	-427.014	D	7.785	7.639	0.146	3.4	99.93	0.06	0	0	0	0.01
2003	238	23	2758	335.862	-424.454	D	7.654	7.639	0.015	3.4	99.99	0.01	0	0	0	0.01
2003	239	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.93	0.02	0	0	0	0.01
2003	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	242	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	78.21	0.19	0	0	0	0.01
2003	243	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	98.56	0.97	0	0	0	0.01
2003	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2003	245	23	2684	326.713	-427.014	D	7.758	7.731	0.027	3.6	99.85	0.14	0	0	0	0.01
2003	246	23	2588	318.452	-445.8	D	8.099	7.731	0.369	3.6	98.69	1.31	0	0	0	0.01
2003	247	23	2789	340.496	-426.449	D	7.958	7.731	0.228	3.6	99.46	0.52	0	0	0	0.02
2003	248	23	2628	320.933	-436.998	D	7.905	7.731	0.175	3.6	99.13	0.85	0	0	0	0.03
2003	249	23	2588	318.452	-445.8	D	7.732	7.731	0.002	3.6	99.86	0.06	0	0	0	0.02
2003	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	255	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	256	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	257	23	2781	339.842	-425.379	D	7.853	7.731	0.122	3.6	95.77	4.22	0	0	0	0.01
2003	258	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	259	23	2789	340.496	-426.449	D	7.736	7.731	0.005	3.6	99.84	0.13	0	0	0	0.02
2003	260	23	2789	340.496	-426.449	D	7.76	7.731	0.029	3.6	99.67	0.32	0	0	0	0.01
2003	261	23	2758	335.862	-424.454	D	7.731	7.731	0.001	3.6	99.73	0.1	0	0	0	0.01
2003	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	263	23	2789	340.496	-426.449	D	7.814	7.731	0.083	3.6	99.56	0.43	0	0	0	0.02
2003	264	23	2758	335.862	-424.454	D	7.822	7.731	0.091	3.6	99.79	0.2	0	0	0	0.01
2003	265	23	2781	339.842	-425.379	D	7.744	7.731	0.014	3.6	99.09	0.91	0	0	0	0
2003	266	23	2789	340.496	-426.449	D	7.731	7.731	0	3.6	99.86	0.08	0	0	0	0
2003	267	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	268	23	2684	326.713	-427.014	D	7.743	7.731	0.012	3.6	92.4	7.42	0	0	0	0.18
2003	269	23	2571	322.646	-445.476	D	7.76	7.731	0.029	3.6	99.32	0.66	0	0	0	0.01
2003	270	23	2789	340.496	-426.449	D	7.731	7.731	0	3.6	99.93	0.05	0	0	0	0.01
2003	271	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	272	23	2451	335.22	-431.216	D	7.743	7.731	0.013	3.6	93.51	6.41	0	0	0	0.07
2003	273	23	2790	340.421	-426.562	D	7.768	7.731	0.037	3.6	98.92	1.06	0	0	0	0.02
2003	274	23	2789	340.496	-426.449	D	7.643	7.598	0.044	3.313	94.31	5.68	0	0	0	0.01
2003	275	23	2684	326.713	-427.014	D	7.605	7.593	0.012	3.3	94.2	5.73	0	0	0	0.06
2003	276	23	2588	318.452	-445.8	D	7.624	7.593	0.032	3.3	98.39	1.59	0	0	0	0.02
2003	277	23	2789	340.496	-426.449	D	7.595	7.593	0.003	3.3	99.72	0.29	0	0	0	0.01
2003	278	23	2789	340.496	-426.449	D	7.6	7.593	0.007	3.3	99.16	0.83	0	0	0	0.02
2003	279	23	2789	340.496	-426.449	D	7.662	7.593	0.069	3.3	98.74	1.25	0	0	0	0.01
2003	280	23	2600	318.952	-443.12	D	7.661	7.593	0.069	3.3	99.54	0.45	0	0	0	0.01
2003	281	23	2684	326.713	-427.014	D	7.606	7.593	0.013	3.3	99.76	0.24	0	0	0	0.01
2003	282	23	1415	329.185	-425.086	D	7.594	7.593	0.001	3.3	99.77	0.23	0	0	0	0.01
2003	283	23	1048	326.791	-427.189	D	7.593	7.593	0	3.3	98.18	0.75	0	0	0	0.01
2003	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	285	23	2789	340.496	-426.449	D	7.618	7.593	0.025	3.3	99.32	0.65	0	0	0	0.03
2003	286	23	2781	339.842	-425.379	D	7.66	7.593	0.068	3.3	99.41	0.57	0	0	0	0.02
2003	287	23	2789	340.496	-426.449	D	7.605	7.593	0.013	3.3	98.01	1.99	0	0	0	0.01
2003	288	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	289	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	290	23	2611	319.699	-440.64	D	7.604	7.593	0.012	3.3	96.87	3.13	0	0	0	0.01
2003	291	23	2684	326.713	-427.014	D	7.641	7.593	0.049	3.3	99.08	0.9	0	0	0	0.02
2003	292	23	2789	340.496	-426.449	D	7.625	7.593	0.032	3.3	99.74	0.25	0	0	0	0.02
2003	293	23	2571	322.646	-445.476	D	7.601	7.593	0.008	3.3	99.9	0.08	0	0	0	0.01
2003	294	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	100.04	0.08	0	0	0	0.01

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	295	23	2684	326.713	-427.014	D	7.654	7.593	0.062	3.3	99.82	0.14	0	0	0	0.04
2003	296	23	2588	318.452	-445.8	D	7.674	7.593	0.081	3.3	99.7	0.28	0	0	0	0.03
2003	297	23	2789	340.496	-426.449	D	7.639	7.593	0.046	3.3	99.65	0.33	0	0	0	0.02
2003	298	23	2710	330.44	-424.955	D	7.865	7.593	0.272	3.3	93.38	6.59	0	0	0	0.02
2003	299	23	2571	322.646	-445.476	D	7.652	7.593	0.06	3.3	93.09	6.91	0	0	0	0.01
2003	300	23	2418	339.946	-426.612	D	7.593	7.593	0	3.3	85.05	0.69	0	0	0	0
2003	301	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	305	23	2781	339.842	-425.379	D	7.575	7.548	0.027	3.204	92.93	7.03	0	0	0	0.04
2003	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	307	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	308	23	2758	335.862	-424.454	D	7.547	7.546	0.001	3.2	97.44	2.73	0	0	0	0.01
2003	309	23	2781	339.842	-425.379	D	7.581	7.546	0.035	3.2	97.54	2.45	0	0	0	0.02
2003	310	23	2789	340.496	-426.449	D	7.713	7.546	0.167	3.2	93.39	6.59	0	0	0	0.02
2003	311	23	2468	334.002	-434.887	D	7.662	7.546	0.116	3.2	92.67	7.31	0	0	0	0.02
2003	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	316	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	317	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	318	23	2789	340.496	-426.449	D	7.547	7.546	0	3.2	96.8	3.22	0	0	0	0.03
2003	319	23	2788	340.294	-426.448	D	7.546	7.546	0	3.2	93.07	6.57	0	0	0	0.03
2003	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	323	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	327	23	2704	329.056	-425.092	D	7.559	7.546	0.013	3.2	93.06	6.93	0	0	0	0.01
2003	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	331	23	2789	340.496	-426.449	D	7.553	7.546	0.007	3.2	94.68	5.33	0	0	0	0.01
2003	332	23	2789	340.496	-426.449	D	7.549	7.546	0.003	3.2	95.16	4.82	0	0	0	0.01
2003	333	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	335	23	2694	327.861	-425.964	D	7.622	7.591	0.031	3.296	76.14	23.7	0	0	0	0.16
2003	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	338	23	2758	335.862	-424.454	D	7.704	7.593	0.111	3.3	95.07	4.92	0	0	0	0.01
2003	339	23	2588	318.452	-445.8	D	7.619	7.593	0.026	3.3	96.23	3.76	0	0	0	0.01
2003	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	341	23	2789	340.496	-426.449	D	7.605	7.593	0.012	3.3	88.85	11.16	0	0	0	0.02
2003	342	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	344	23	2588	318.452	-445.8	D	7.696	7.593	0.103	3.3	92.53	7.46	0	0	0	0.01
2003	345	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	346	23	2789	340.496	-426.449	D	7.611	7.593	0.019	3.3	92.21	7.77	0	0	0	0.02
2003	347	23	2589	318.383	-445.593	D	7.616	7.593	0.023	3.3	92.22	7.77	0	0	0	0.01
2003	348	23	1	318.65	-445.782	D	7.63	7.593	0.038	3.3	94.17	5.82	0	0	0	0.01
2003	349	23	2789	340.496	-426.449	D	7.598	7.593	0.005	3.3	95.41	4.61	0	0	0	0.01
2003	350	23	2038	333.934	-425.627	D	7.593	7.593	0	3.3	80.76	3.33	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	357	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	63.04	36.92	0	0	0	0.14
2003	358	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	359	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	360	23	2789	340.496	-426.449	D	7.596	7.593	0.003	3.3	95.22	4.75	0	0	0	0.02
2003	361	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	94.75	5.22	0	0	0	0.01
2003	362	23	1	318.65	-445.782	D	7.593	7.593	0.000	3.3	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.47							
NORANDA									**DELTA**		**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	2	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	3	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	7	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	9	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	10	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	11	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	12	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	98.47	0.02	0	0	0.29	1.13
2003	13	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	98.89	0.02	0	0	0.08	0.97
2003	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	15	23	2571	322.646	-445.476	D	7.593	7.593	0	3.3	99.17	0.01	0	0	0.09	0.89
2003	16	23	2789	340.496	-426.449	D	7.68	7.593	0.088	3.3	96.51	0.23	0	0	0.12	3.14
2003	17	23	2236	336.149	-430.776	D	7.593	7.593	0	3.3	60.08	0.01	0	0	2.29	11.09
2003	18	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	19	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	21	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	23	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	24	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	25	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	26	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	27	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	95.95	0.16	0	0	0.16	3.89
2003	28	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	89.95	0.78	0	0	0.03	9.38
2003	29	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	31	23	2789	340.496	-426.449	D	7.609	7.593	0.016	3.3	98.85	0.06	0	0	0.01	1.09
2003	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	36	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	37	23	2781	339.842	-425.379	D	7.532	7.453	0.08	3	96.2	0.18	0	0	0.14	3.47
2003	38	23	2468	334.002	-434.887	D	7.478	7.453	0.026	3	97.58	0.13	0	0	0.04	2.25
2003	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	40	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	42	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	43	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	44	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	46	23	2589	318.383	-445.593	D	7.457	7.453	0.004	3	97.31	0.13	0	0	0.03	2.59
2003	47	23	2571	322.646	-445.476	D	7.491	7.453	0.039	3	98.22	0.1	0	0	0.01	1.67
2003	48	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	49	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	50	23	2790	340.421	-426.562	D	7.478	7.453	0.025	3	95.83	0.22	0	0	0.08	3.87
2003	51	23	2571	322.646	-445.476	D	7.493	7.453	0.041	3	98.84	0.05	0	0	0.16	0.96
2003	52	23	2789	340.496	-426.449	D	7.846	7.453	0.393	3	98.44	0.07	0	0	0.1	1.4
2003	53	23	2588	318.452	-445.8	D	7.534	7.453	0.082	3	98.55	0.07	0	0	0.06	1.32
2003	54	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	55	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	56	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	57	23	2571	322.646	-445.476	D	7.489	7.453	0.036	3	96.41	0.11	0	0	0.44	3.04
2003	58	23	2588	318.452	-445.8	D	7.498	7.453	0.045	3	97.98	0.09	0	0	0.13	1.81
2003	59	23	2571	322.646	-445.476	D	7.478	7.453	0.026	3	98.57	0.05	0	0	0.07	1.31
2003	60	23	2571	322.646	-445.476	D	7.365	7.317	0.048	2.713	98.47	0.05	0	0	0.07	1.41
2003	61	23	2789	340.496	-426.449	D	7.326	7.311	0.015	2.7	98.72	0.05	0	0	0.02	1.22
2003	62	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	63	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	64	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	65	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	68	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	69	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	70	23	2468	334.002	-434.887	D	7.314	7.311	0.003	2.7	96.52	0.01	0	0	0.2	3.34
2003	71	23	2789	340.496	-426.449	D	7.319	7.311	0.008	2.7	96.24	0.04	0	0	0.04	3.68
2003	72	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	73	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	74	23	2789	340.496	-426.449	D	7.327	7.311	0.016	2.7	98	0.02	0	0	0.11	1.89
2003	75	23	2789	340.496	-426.449	D	7.323	7.311	0.012	2.7	97.6	0.04	0	0	0.03	2.34
2003	76	23	2781	339.842	-425.379	D	7.312	7.311	0.002	2.7	98.2	0.02	0	0	0.01	1.87
2003	77	23	2781	339.842	-425.379	D	7.312	7.311	0.001	2.7	99.38	0	0	0	0.08	0.56
2003	78	23	2781	339.842	-425.379	D	7.341	7.311	0.031	2.7	96.06	0.1	0	0	0.08	3.77
2003	79	23	2589	318.383	-445.593	D	7.354	7.311	0.044	2.7	98.85	0.06	0	0	0.02	1.07
2003	80	23	2571	322.646	-445.476	D	7.331	7.311	0.021	2.7	98.32	0.06	0	0	0.01	1.62

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	81	23	2468	334.002	-434.887	D	7.311	7.311	0	2.7	98.31	0.01	0	0	0	1.61
2003	82	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	84	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	85	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	86	23	2789	340.496	-426.449	D	7.319	7.311	0.009	2.7	95.84	0.06	0	0	0.18	3.94
2003	87	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	89	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	90	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	96	23	2707	329.748	-425.023	D	7.453	7.358	0.094	2.8	95.05	0.14	0	0	0.18	4.63
2003	97	23	2704	329.056	-425.092	D	7.362	7.358	0.004	2.8	83.18	1.63	0	0	0.05	15.13
2003	98	23	2789	340.496	-426.449	D	7.362	7.358	0.004	2.8	98.81	0.05	0	0	0	1.18
2003	99	23	2467	334.065	-434.651	D	7.358	7.358	0	2.8	98.63	0.02	0	0	0	1.08
2003	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	103	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	104	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	108	23	2789	340.496	-426.449	D	7.36	7.358	0.002	2.8	99.3	0	0	0	0.08	0.64
2003	109	23	2781	339.842	-425.379	D	7.358	7.358	0	2.8	99.04	0	0	0	0.07	1.31
2003	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	112	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	113	23	2789	340.496	-426.449	D	7.37	7.358	0.012	2.8	89.7	0.1	0	0	0.85	9.37
2003	114	23	2749	333.775	-424.726	D	7.371	7.358	0.013	2.8	97.28	0.02	0	0	0.1	2.6
2003	115	23	2588	318.452	-445.8	D	7.462	7.358	0.103	2.8	98.46	0.02	0	0	0.02	1.5
2003	116	23	2789	340.496	-426.449	D	7.384	7.358	0.026	2.8	98.67	0.01	0	0	0.02	1.3
2003	117	23	2789	340.496	-426.449	D	7.359	7.358	0.001	2.8	97.83	0	0	0	0.32	2.04
2003	118	23	2789	340.496	-426.449	D	7.36	7.358	0.002	2.8	98.03	0	0	0	0.09	1.87
2003	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2003	122	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	123	23	270	321.866	-445.392	D	7.639	7.639	0	3.4	85.07	0	0	0	2.5	12.34
2003	124	23	2789	340.496	-426.449	D	7.676	7.639	0.037	3.4	98.37	0.01	0	0	0.02	1.6
2003	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	127	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	136	23	2409	339.158	-425.648	D	7.639	7.639	0	3.4	70.99	2.13	0	0	0.2	27.31
2003	137	23	2789	340.496	-426.449	D	7.66	7.639	0.021	3.4	98.1	0	0	0	0.22	1.68
2003	138	23	2589	318.383	-445.593	D	7.671	7.639	0.032	3.4	98.72	0.01	0	0	0.07	1.2
2003	139	23	2789	340.496	-426.449	D	7.683	7.639	0.045	3.4	98.65	0	0	0	0.18	1.17
2003	140	23	2790	340.421	-426.562	D	7.833	7.639	0.194	3.4	98.96	0.01	0	0	0.06	0.97
2003	141	23	2571	322.646	-445.476	D	7.639	7.639	0.001	3.4	99.03	0	0	0	0.04	1
2003	142	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	108.92	0	0	0	0.3	7.61
2003	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	144	23	2789	340.496	-426.449	D	7.643	7.639	0.005	3.4	99.07	0.01	0	0	0.12	0.77
2003	145	23	2781	339.842	-425.379	D	7.686	7.639	0.048	3.4	99.31	0	0	0	0.04	0.64
2003	146	23	2588	318.452	-445.8	D	7.739	7.639	0.1	3.4	98.95	0.01	0	0	0.02	1.02
2003	147	23	2588	318.452	-445.8	D	7.64	7.639	0.001	3.4	98.08	0	0	0	0.02	1.85
2003	148	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	149	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	150	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	152	23	2571	322.646	-445.476	D	7.639	7.639	0	3.4	99.1	0	0	0	0.07	0.37
2003	153	23	2789	340.496	-426.449	D	7.694	7.639	0.055	3.4	98.41	0.01	0	0	0.03	1.55
2003	154	23	2789	340.496	-426.449	D	7.771	7.639	0.133	3.4	98.6	0.02	0	0	0.07	1.31
2003	155	23	2790	340.421	-426.562	D	7.643	7.639	0.004	3.4	96.24	0	0	0	0.25	3.52
2003	156	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	93.95	0	0	0	0.38	5.95
2003	157	23	2789	340.496	-426.449	D	7.659	7.639	0.02	3.4	98.41	0.01	0	0	0.12	1.48
2003	158	23	2789	340.496	-426.449	D	7.646	7.639	0.007	3.4	98.63	0.01	0	0	0.05	1.31

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	159	23	2338	337.551	-428.716	D	7.639	7.639	0	3.4	95.63	0	0	0	0.11	5.17
2003	160	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	12.7	0	0	0	0.02	0.61
2003	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	164	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	165	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	166	23	2407	339.18	-426.146	D	7.639	7.639	0	3.4	90.48	0	0	0	0.04	1.57
2003	167	23	2571	322.646	-445.476	D	7.664	7.639	0.026	3.4	98.78	0.01	0	0	0.15	1.06
2003	168	23	2571	322.646	-445.476	D	7.862	7.639	0.223	3.4	99.37	0.01	0	0	0.07	0.55
2003	169	23	2571	322.646	-445.476	D	8.172	7.639	**0.533**	3.4	98.77	0.02	0	0	0.13	1.08
2003	170	23	2588	318.452	-445.8	D	7.759	7.639	0.121	3.4	98.81	0.01	0	0	0.1	1.09
2003	171	23	2588	318.452	-445.8	D	7.641	7.639	0.002	3.4	99.49	0	0	0	0.03	0.53
2003	172	23	2628	320.933	-436.998	D	7.681	7.639	0.042	3.4	96.9	0.02	0	0	0.14	2.94
2003	173	23	2781	339.842	-425.379	D	7.64	7.639	0.001	3.4	78.04	0.02	0	0	0.39	21.67
2003	174	23	659	323.836	-433.564	D	7.639	7.639	0	3.4	103.88	0	0	0	1.01	8.64
2003	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	178	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	179	23	2571	322.646	-445.476	D	7.646	7.639	0.008	3.4	97.92	0	0	0	0.37	1.71
2003	180	23	2789	340.496	-426.449	D	7.79	7.639	0.151	3.4	98.45	0	0	0	0.13	1.43
2003	181	23	2758	335.862	-424.454	D	7.669	7.639	0.03	3.4	98.79	0	0	0	0.06	1.15
2003	182	23	2781	339.842	-425.379	D	7.642	7.639	0.003	3.4	98.63	0	0	0	0.07	1.29
2003	183	23	2789	340.496	-426.449	D	7.695	7.639	0.057	3.4	99.2	0	0	0	0.06	0.74
2003	184	23	2789	340.496	-426.449	D	7.697	7.639	0.058	3.4	98.81	0	0	0	0.08	1.12
2003	185	23	2789	340.496	-426.449	D	7.667	7.639	0.028	3.4	98.56	0	0	0	0.07	1.37
2003	186	23	2781	339.842	-425.379	D	7.639	7.639	0.001	3.4	93.87	0	0	0	0.91	5.24
2003	187	23	1659	330.999	-426.755	D	7.639	7.639	0	3.4	94.65	0	0	0	2.44	5.63
2003	188	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	192	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	193	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	194	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	195	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.67	0	0	0	0.03	0.29
2003	196	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	198	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	199	23	2787	340.091	-426.447	D	7.639	7.639	0	3.4	95.51	0	0	0	0.21	3.99
2003	200	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	97.51	0	0	0	0.07	2.66
2003	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	204	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	205	23	2789	340.496	-426.449	D	7.641	7.639	0.002	3.4	99.07	0	0	0	0.22	0.73
2003	206	23	2789	340.496	-426.449	D	7.756	7.639	0.117	3.4	98.88	0	0	0	0.12	0.99
2003	207	23	2704	329.056	-425.092	D	7.66	7.639	0.021	3.4	98.74	0	0	0	0.07	1.2
2003	208	23	2780	339.614	-425.419	D	7.639	7.639	0	3.4	98.82	0	0	0	0.03	0.92
2003	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	210	23	2789	340.496	-426.449	D	7.644	7.639	0.005	3.4	99.68	0	0	0	0.04	0.27
2003	211	23	2781	339.842	-425.379	D	7.66	7.639	0.021	3.4	99.76	0	0	0	0.01	0.23
2003	212	23	2789	340.496	-426.449	D	7.655	7.639	0.016	3.4	99.77	0	0	0	0.01	0.22
2003	213	23	2468	334.002	-434.887	D	7.641	7.639	0.002	3.4	99.89	0	0	0	0.01	0.16
2003	214	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.92	0	0	0	0.01	0.2
2003	215	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	216	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	217	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	218	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	219	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	223	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	225	23	2790	340.421	-426.562	D	7.642	7.639	0.003	3.4	97.09	0	0	0	0.58	2.35
2003	226	23	2684	326.713	-427.014	D	7.782	7.639	0.143	3.4	97.55	0.05	0	0	0.09	2.31
2003	227	23	2758	335.862	-424.454	D	7.639	7.639	0	3.4	85.87	0	0	0	0.27	10.71
2003	228	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	97.53	0	0	0	0.06	2.63
2003	229	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	94.04	0.01	0	0	0.06	5.55
2003	230	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	66.47	0	0	0	0.03	5.89
2003	231	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	86.11	0.01	0	0	0.9	13.62
2003	232	23	2790	340.421	-426.562	D	7.647	7.639	0.009	3.4	98.07	0	0	0	0.17	1.77
2003	233	23	2789	340.496	-426.449	D	7.666	7.639	0.027	3.4	98.91	0	0	0	0.1	0.99
2003	234	23	2789	340.496	-426.449	D	7.675	7.639	0.036	3.4	99.06	0	0	0	0.08	0.85
2003	235	23	2789	340.496	-426.449	D	7.68	7.639	0.041	3.4	99.05	0	0	0	0.07	0.88
2003	236	23	2468	334.002	-434.887	D	7.734	7.639	0.096	3.4	99.21	0	0	0	0.08	0.71

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	237	23	2789	340.496	-426.449	D	7.964	7.639	0.325	3.4	99.05	0	0	0	0.07	0.88
2003	238	23	2789	340.496	-426.449	D	7.788	7.639	0.15	3.4	98.84	0	0	0	0.05	1.11
2003	239	23	2789	340.496	-426.449	D	7.645	7.639	0.006	3.4	99.15	0	0	0	0.03	0.85
2003	240	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	99.18	0	0	0	0.02	1.01
2003	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	29.45	0	0	0	0.09	1.1
2003	242	23	2781	339.842	-425.379	D	7.694	7.639	0.055	3.4	98.6	0.01	0	0	0.09	1.3
2003	243	23	2758	335.862	-424.454	D	7.687	7.639	0.048	3.4	97.76	0.04	0	0	0.08	2.12
2003	244	23	1415	329.185	-425.086	D	7.727	7.727	0	3.592	98.74	0	0	0	0.08	0.52
2003	245	23	2684	326.713	-427.014	D	7.737	7.731	0.006	3.6	99.32	0.01	0	0	0.04	0.64
2003	246	23	2789	340.496	-426.449	D	7.794	7.731	0.063	3.6	99.46	0.02	0	0	0.02	0.5
2003	247	23	1	318.65	-445.782	D	7.732	7.731	0.001	3.6	99.62	0	0	0	0.01	0.28
2003	248	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	249	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	250	23	2571	322.646	-445.476	D	7.786	7.731	0.055	3.6	97.82	0	0	0	0.32	1.86
2003	251	23	2584	319.439	-445.724	D	7.973	7.731	0.243	3.6	98.34	0	0	0	0.11	1.54
2003	252	23	2789	340.496	-426.449	D	7.859	7.731	0.128	3.6	98.65	0	0	0	0.09	1.26
2003	253	23	2789	340.496	-426.449	D	7.866	7.731	0.136	3.6	98.87	0.01	0	0	0.05	1.08
2003	254	23	2789	340.496	-426.449	D	7.732	7.731	0.001	3.6	98.92	0	0	0	0.06	1.04
2003	255	23	1283	328.91	-435.84	D	7.731	7.731	0	3.6	93.89	0	0	0	1.79	3.98
2003	256	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	257	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	258	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	259	23	2789	340.496	-426.449	D	7.739	7.731	0.008	3.6	97.99	0	0	0	0.25	1.76
2003	260	23	2781	339.842	-425.379	D	7.761	7.731	0.03	3.6	97.96	0	0	0	0.1	1.94
2003	261	23	1414	329.196	-425.335	D	7.731	7.731	0	3.6	90.59	0.01	0	0	0.57	8.68
2003	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	59.96	0	0	0	0.57	4.15
2003	263	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	264	23	2789	340.496	-426.449	D	7.802	7.731	0.071	3.6	97.36	0.01	0	0	0.13	2.51
2003	265	23	2781	339.842	-425.379	D	7.762	7.731	0.031	3.6	98.84	0.02	0	0	0.04	1.1
2003	266	23	2789	340.496	-426.449	D	7.731	7.731	0	3.6	99.27	0	0	0	0.02	0.92
2003	267	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	268	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	28.94	0	0	0	0.22	4.31
2003	269	23	2789	340.496	-426.449	D	7.731	7.731	0	3.6	95.87	0.01	0	0	0.11	3.79
2003	270	23	2410	339.439	-426.385	D	7.731	7.731	0	3.6	87.58	0.01	0	0	0.09	9.42
2003	271	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	272	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	273	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	274	23	1	318.65	-445.782	D	7.598	7.598	0	3.313	0	0	0	0	0	0
2003	275	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	276	23	2571	322.646	-445.476	D	7.596	7.593	0.003	3.3	98.38	0	0	0	0.12	1.53
2003	277	23	2790	340.421	-426.562	D	7.594	7.593	0.001	3.3	97.93	0	0	0	0.04	1.99
2003	278	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	279	23	2578	320.919	-445.61	D	7.617	7.593	0.024	3.3	98.85	0.01	0	0	0.12	1.02
2003	280	23	2781	339.842	-425.379	D	7.891	7.593	0.298	3.3	98.08	0.01	0	0	0.2	1.71
2003	281	23	2704	329.056	-425.092	D	7.637	7.593	0.045	3.3	98.48	0.01	0	0	0.07	1.45
2003	282	23	1415	329.185	-425.086	D	7.596	7.593	0.004	3.3	98.8	0	0	0	0.04	1.14
2003	283	23	2684	326.713	-427.014	D	7.623	7.593	0.03	3.3	85.25	0.94	0	0	0.68	13.13
2003	284	23	2600	318.952	-443.12	D	7.594	7.593	0.001	3.3	98.27	0.01	0	0	0.05	1.64
2003	285	23	2571	322.646	-445.476	D	7.61	7.593	0.017	3.3	98.62	0.02	0	0	0.01	1.35
2003	286	23	2571	322.646	-445.476	D	7.601	7.593	0.008	3.3	98.99	0	0	0	0.01	1
2003	287	23	2789	340.496	-426.449	D	7.598	7.593	0.005	3.3	99.05	0.01	0	0	0	0.95
2003	288	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	289	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	290	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	291	23	1767	332.364	-435.189	D	7.593	7.593	0	3.3	96.48	0	0	0	0.01	0.22
2003	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	293	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	294	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	295	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	296	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	297	23	2789	340.496	-426.449	D	7.599	7.593	0.006	3.3	70.24	0.24	0	0	1.04	28.48
2003	298	23	2789	340.496	-426.449	D	7.602	7.593	0.009	3.3	98.33	0.01	0	0	0.01	1.66
2003	299	23	2571	322.646	-445.476	D	7.596	7.593	0.003	3.3	98.25	0.02	0	0	0	1.73
2003	300	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	301	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	305	23	1	318.65	-445.782	D	7.548	7.548	0	3.204	0	0	0	0	0	0
2003	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	307	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	308	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	309	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	310	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	311	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	314	23	2789	340.496	-426.449	D	7.571	7.546	0.025	3.2	95.62	0.05	0	0	0.14	4.19

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	315	23	2780	339.614	-425.419	D	7.546	7.546	0	3.2	82.8	0.13	0	0	0.04	16.99
2003	316	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	317	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	318	23	2386	338.533	-428.423	D	7.546	7.546	0	3.2	98.29	0.06	0	0	0.12	2.18
2003	319	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	95.61	0.06	0	0	0.39	4.01
2003	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	321	23	2789	340.496	-426.449	D	7.547	7.546	0	3.2	82.35	1.73	0	0	0.13	16
2003	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	323	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	331	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	332	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	333	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	335	23	1	318.65	-445.782	D	7.591	7.591	0	3.296	0	0	0	0	0	0
2003	336	23	2789	340.496	-426.449	D	7.602	7.593	0.01	3.3	97.99	0.02	0	0	0.19	1.79
2003	337	23	2704	329.056	-425.092	D	7.595	7.593	0.003	3.3	66.46	1.25	0	0	0.45	31.81
2003	338	23	2781	339.842	-425.379	D	7.678	7.593	0.086	3.3	97.43	0.18	0	0	0.03	2.36
2003	339	23	2588	318.452	-445.8	D	7.594	7.593	0.002	3.3	97.82	0.1	0	0	0.01	2.05
2003	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	341	23	2789	340.496	-426.449	D	7.595	7.593	0.003	3.3	96.74	0.08	0	0	0.25	2.95
2003	342	23	976	326.436	-430.452	D	7.593	7.593	0	3.3	27.31	0.01	0	0	0	0.62
2003	343	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	344	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	96.66	0.51	0	0	0.01	2.89
2003	345	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	346	23	2789	340.496	-426.449	D	7.674	7.593	0.082	3.3	98.76	0.02	0	0	0.09	1.13
2003	347	23	2781	339.842	-425.379	D	7.741	7.593	0.148	3.3	95.19	0.21	0	0	0.19	4.41
2003	348	23	2781	339.842	-425.379	D	7.853	7.593	0.261	3.3	98.31	0.1	0	0	0.05	1.54
2003	349	23	2789	340.496	-426.449	D	7.622	7.593	0.03	3.3	98.59	0.08	0	0	0.01	1.33
2003	350	23	452	322.413	-435.125	D	7.593	7.593	0	3.3	10.3	0	0	0	0	0.6
2003	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	357	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	358	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	359	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	360	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	98.1	0.02	0	0	0.36	1.66
2003	361	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	97.64	0.07	0	0	0.11	2.26
2003	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.533							
INDEPENDENCE											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	2	23	2684	326.713	-427.014	D	7.696	7.593	0.104	3.3	89.07	10.53	0	0	0	0.39
2003	3	23	2789	340.496	-426.449	D	7.647	7.593	0.055	3.3	85.88	13.55	0	0	0	0.58
2003	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	6	23	2600	318.952	-443.12	D	7.629	7.593	0.036	3.3	68.84	29.87	0	0	0	1.29
2003	7	23	2757	335.63	-424.484	D	7.593	7.593	0	3.3	88.73	10.47	0	0	0	0.32
2003	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	9	23	2781	339.842	-425.379	D	7.603	7.593	0.01	3.3	90.12	9.01	0	0	0	0.88
2003	10	23	2789	340.496	-426.449	D	7.656	7.593	0.063	3.3	66.83	31.19	0	0	0	1.97
2003	11	23	2684	326.713	-427.014	D	7.748	7.593	0.156	3.3	66.04	32.46	0	0	0	1.5
2003	12	23	2628	320.933	-436.998	D	7.715	7.593	0.122	3.3	79.57	19.85	0	0	0	0.58
2003	13	23	2781	339.842	-425.379	D	7.596	7.593	0.003	3.3	85.57	14.07	0	0	0	0.34
2003	14	23	2789	340.496	-426.449	D	7.84	7.593	0.247	3.3	88.68	10.88	0	0	0	0.44
2003	15	23	2571	322.646	-445.476	D	7.605	7.593	0.012	3.3	94.18	5.55	0	0	0	0.27
2003	16	23	2589	318.383	-445.593	D	7.613	7.593	0.02	3.3	93.33	6.38	0	0	0	0.29
2003	17	23	2781	339.842	-425.379	D	7.651	7.593	0.058	3.3	92.09	7.54	0	0	0	0.37
2003	18	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	84.66	14.73	0	0	0	0.51
2003	19	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	21	23	2789	340.496	-426.449	D	7.619	7.593	0.026	3.3	88.83	10.96	0	0	0	0.21
2003	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	23	23	2599	318.958	-443.364	D	7.787	7.593	0.195	3.3	70.64	28.35	0	0	0	1.01
2003	24	23	2589	318.383	-445.593	D	7.645	7.593	0.052	3.3	83.28	16.31	0	0	0	0.41
2003	25	23	2781	339.842	-425.379	D	7.598	7.593	0.006	3.3	86.04	13.72	0	0	0	0.25
2003	26	23	2789	340.496	-426.449	D	7.612	7.593	0.02	3.3	60.15	38.02	0	0	0	1.83
2003	27	23	2628	320.933	-436.998	D	7.61	7.593	0.018	3.3	82.58	17.1	0	0	0	0.32
2003	28	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	29	23	2628	320.933	-436.998	D	7.637	7.593	0.044	3.3	88.54	11.25	0	0	0	0.2
2003	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	36	23	2789	340.496	-426.449	D	7.502	7.453	0.049	3	88.81	10.65	0	0	0	0.54
2003	37	23	2704	329.056	-425.092	D	7.494	7.453	0.041	3	91.64	8.11	0	0	0	0.26
2003	38	23	2781	339.842	-425.379	D	7.576	7.453	0.123	3	88.31	11.38	0	0	0	0.32
2003	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	40	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	42	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	43	23	2628	320.933	-436.998	D	7.477	7.453	0.024	3	67.36	30.8	0	0	0	1.85
2003	44	23	2684	326.713	-427.014	D	7.462	7.453	0.009	3	88.77	10.7	0	0	0	0.55
2003	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	46	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	47	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	48	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	49	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	50	23	1048	326.791	-427.189	D	7.453	7.453	0	3	95.55	8.73	0	0	0	0.4
2003	51	23	2704	329.056	-425.092	D	7.566	7.453	0.113	3	93.83	5.99	0	0	0	0.19
2003	52	23	2684	326.713	-427.014	D	7.462	7.453	0.009	3	97.42	2.47	0	0	0	0.14
2003	53	23	2589	318.383	-445.593	D	7.504	7.453	0.052	3	92.37	7.26	0	0	0	0.37
2003	54	23	1833	332.86	-435.167	D	7.558	7.453	0.106	3	86.3	13.15	0	0	0	0.55
2003	55	23	2507	328.74	-436.008	D	7.759	7.453	0.306	3	78.68	20.48	0	0	0	0.85
2003	56	23	2711	330.671	-424.932	D	7.674	7.453	0.221	3	90.74	9.03	0	0	0	0.23
2003	57	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	58	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	59	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	60	23	1	318.65	-445.782	D	7.317	7.317	0	2.713	0	0	0	0	0	0
2003	61	23	2711	330.671	-424.932	D	7.467	7.311	0.156	2.7	90.76	8.66	0	0	0	0.58

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	62	23	2789	340.496	-426.449	D	7.622	7.311	0.311	2.7	91.67	8	0	0	0	0.32
2003	63	23	2781	339.842	-425.379	D	7.311	7.311	0	2.7	95.34	4.57	0	0	0	0.19
2003	64	23	2588	318.452	-445.8	D	7.474	7.311	0.164	2.7	90.92	8.82	0	0	0	0.25
2003	65	23	2468	334.002	-434.887	D	7.339	7.311	0.028	2.7	94.28	5.6	0	0	0	0.12
2003	66	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	67	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	68	23	2789	340.496	-426.449	D	7.327	7.311	0.016	2.7	86.48	12.72	0	0	0	0.8
2003	69	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	70	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	71	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	72	23	2758	335.862	-424.454	D	7.568	7.311	0.257	2.7	97.78	1.96	0	0	0	0.27
2003	73	23	2588	318.452	-445.8	D	7.617	7.311	0.306	2.7	97.98	1.85	0	0	0	0.17
2003	74	23	2610	319.631	-440.865	D	7.345	7.311	0.035	2.7	98.75	1.12	0	0	0	0.14
2003	75	23	2757	335.63	-424.484	D	7.312	7.311	0.001	2.7	99.66	0.2	0	0	0	0.12
2003	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	79	23	2684	326.713	-427.014	D	7.366	7.311	0.056	2.7	94.8	4.94	0	0	0	0.27
2003	80	23	2789	340.496	-426.449	D	7.562	7.311	0.251	2.7	92.53	6.95	0	0	0	0.51
2003	81	23	2789	340.496	-426.449	D	7.316	7.311	0.005	2.7	97.12	2.27	0	0	0	0.61
2003	82	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	84	23	2589	318.383	-445.593	D	7.374	7.311	0.063	2.7	95.98	3.55	0	0	0	0.47
2003	85	23	2789	340.496	-426.449	D	7.323	7.311	0.012	2.7	95.7	4.12	0	0	0	0.18
2003	86	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	87	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	89	23	2789	340.496	-426.449	D	7.33	7.311	0.019	2.7	73.35	25.21	0	0	0	1.44
2003	90	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	95	23	2758	335.862	-424.454	D	7.41	7.358	0.051	2.8	83.42	15.46	0	0	0	1.12
2003	96	23	2588	318.452	-445.8	D	7.358	7.358	0	2.8	99.99	0.82	0	0	0	0.42
2003	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	98	23	2781	339.842	-425.379	D	7.407	7.358	0.049	2.8	85.23	14.01	0	0	0	0.76
2003	99	23	2684	326.713	-427.014	D	7.516	7.358	0.158	2.8	84.34	15.01	0	0	0	0.65
2003	100	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	101	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	102	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	103	23	2789	340.496	-426.449	D	7.359	7.358	0.001	2.8	99.91	0.03	0	0	0	0.21
2003	104	23	2781	339.842	-425.379	D	7.359	7.358	0	2.8	99.81	0.06	0	0	0	0.18
2003	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	107	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	108	23	2789	340.496	-426.449	D	7.359	7.358	0.001	2.8	99.9	0.05	0	0	0	0.16
2003	109	23	2781	339.842	-425.379	D	7.359	7.358	0	2.8	99.82	0.14	0	0	0	0.12
2003	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	112	23	2588	318.452	-445.8	D	7.393	7.358	0.035	2.8	96.1	3.17	0	0	0	0.73
2003	113	23	2589	318.383	-445.593	D	7.387	7.358	0.029	2.8	98.75	0.98	0	0	0	0.28
2003	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	115	23	2781	339.842	-425.379	D	7.409	7.358	0.051	2.8	96.79	2.8	0	0	0	0.42
2003	116	23	2694	327.861	-425.964	D	7.469	7.358	0.111	2.8	96.03	3.66	0	0	0	0.31
2003	117	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	118	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	119	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2003	122	23	2781	339.842	-425.379	D	7.782	7.639	0.143	3.4	98.75	1.04	0	0	0	0.21
2003	123	23	2571	322.646	-445.476	D	7.893	7.639	0.254	3.4	99.02	0.85	0	0	0	0.13
2003	124	23	2684	326.713	-427.014	D	7.694	7.639	0.055	3.4	99.77	0.16	0	0	0	0.07
2003	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	127	23	2694	327.861	-425.964	D	7.768	7.639	0.129	3.4	98.13	1.57	0	0	0	0.3
2003	128	23	2704	329.056	-425.092	D	7.667	7.639	0.028	3.4	99.66	0.13	0	0	0	0.21
2003	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	137	23	2758	335.862	-424.454	D	7.675	7.639	0.036	3.4	99.77	0.13	0	0	0	0.1
2003	138	23	2704	329.056	-425.092	D	7.696	7.639	0.057	3.4	99.26	0.66	0	0	0	0.09
2003	139	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	140	23	2571	322.646	-445.476	D	7.681	7.639	0.042	3.4	98.49	1.38	0	0	0	0.13
2003	141	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	142	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	143	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	144	23	2706	329.518	-425.046	D	7.639	7.639	0	3.4	98.18	1.5	0	0	0	0.14
2003	145	23	2704	329.056	-425.092	D	7.651	7.639	0.012	3.4	96.71	3.18	0	0	0	0.11
2003	146	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	147	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	148	23	2781	339.842	-425.379	D	7.651	7.639	0.012	3.4	99.11	0.65	0	0	0	0.25
2003	149	23	2781	339.842	-425.379	D	7.691	7.639	0.053	3.4	97.56	1.85	0	0	0	0.59
2003	150	23	2781	339.842	-425.379	D	7.745	7.639	0.106	3.4	99.52	0.2	0	0	0	0.28
2003	151	23	2789	340.496	-426.449	D	7.652	7.639	0.013	3.4	89.03	8.01	0	0	0	2.96
2003	152	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	153	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	154	23	2628	320.933	-436.998	D	7.89	7.639	0.251	3.4	93.28	6.43	0	0	0	0.3
2003	155	23	2588	318.452	-445.8	D	8.322	7.639	**0.683**	3.4	99.07	0.73	0	0	0	0.21
2003	156	23	2589	318.383	-445.593	D	7.847	7.639	0.208	3.4	99.67	0.19	0	0	0	0.15
2003	157	23	2684	326.713	-427.014	D	7.64	7.639	0.001	3.4	99.71	0.09	0	0	0	0.14
2003	158	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	159	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	160	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	164	23	2756	335.398	-424.515	D	7.64	7.639	0.001	3.4	99.72	0.11	0	0	0	0.1
2003	165	23	2704	329.056	-425.092	D	7.652	7.639	0.013	3.4	99.4	0.53	0	0	0	0.09
2003	166	23	14	319.049	-443.516	D	7.64	7.639	0.001	3.4	99.82	0.03	0	0	0	0.09
2003	167	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	168	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	169	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	170	23	2704	329.056	-425.092	D	7.691	7.639	0.052	3.4	99.74	0.08	0	0	0	0.19
2003	171	23	2684	326.713	-427.014	D	7.804	7.639	0.165	3.4	99.45	0.4	0	0	0	0.15
2003	172	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	177	23	2640	322.263	-435.121	D	7.941	7.639	0.303	3.4	98.52	1.2	0	0	0	0.28
2003	178	23	2600	318.952	-443.12	D	7.794	7.639	0.155	3.4	98.87	0.73	0	0	0	0.39

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	179	23	2608	319.495	-441.316	D	7.672	7.639	0.033	3.4	99.65	0.12	0	0	0	0.23
2003	180	23	2704	329.056	-425.092	D	7.64	7.639	0.001	3.4	99.82	0.03	0	0	0	0.17
2003	181	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	182	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	183	23	2041	333.901	-424.879	D	7.639	7.639	0	3.4	95.41	0.02	0	0	0	0.11
2003	184	23	2102	334.398	-424.857	D	7.639	7.639	0	3.4	95.57	0.03	0	0	0	0.09
2003	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	192	23	2625	320.772	-437.626	D	7.674	7.639	0.035	3.4	98.14	1	0	0	0	0.86
2003	193	23	2758	335.862	-424.454	D	7.647	7.639	0.008	3.4	99.73	0.04	0	0	0	0.22
2003	194	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.56	0.12	0	0	0	0.17
2003	195	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	99.35	0.51	0	0	0	0.12
2003	196	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	99.64	0.02	0	0	0	0.09
2003	197	23	2781	339.842	-425.379	D	7.646	7.639	0.007	3.4	99.73	0.09	0	0	0	0.18
2003	198	23	2789	340.496	-426.449	D	7.645	7.639	0.007	3.4	99.84	0.04	0	0	0	0.13
2003	199	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.89	0.01	0	0	0	0.09
2003	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	201	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	203	23	2704	329.056	-425.092	D	7.94	7.639	0.301	3.4	98.03	1.72	0	0	0	0.26
2003	204	23	2589	318.383	-445.593	D	7.7	7.639	0.061	3.4	99.43	0.23	0	0	0	0.34
2003	205	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	206	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	207	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	208	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	210	23	2781	339.842	-425.379	D	7.654	7.639	0.015	3.4	99.73	0.15	0	0	0	0.13
2003	211	23	2781	339.842	-425.379	D	7.705	7.639	0.066	3.4	99.57	0.33	0	0	0	0.1
2003	212	23	2781	339.842	-425.379	D	7.691	7.639	0.052	3.4	99.8	0.11	0	0	0	0.09
2003	213	23	2789	340.496	-426.449	D	7.653	7.639	0.014	3.4	99.86	0.05	0	0	0	0.08
2003	214	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.94	0.02	0	0	0	0.08
2003	215	23	2758	335.862	-424.454	D	7.645	7.639	0.006	3.4	99.69	0.12	0	0	0	0.2
2003	216	23	2781	339.842	-425.379	D	7.705	7.639	0.066	3.4	99.37	0.47	0	0	0	0.16
2003	217	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.71	0.15	0	0	0	0.12

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	218	23	2589	318.383	-445.593	D	7.751	7.639	0.112	3.4	99.75	0.04	0	0	0	0.21
2003	219	23	2588	318.452	-445.8	D	7.748	7.639	0.11	3.4	99.79	0.1	0	0	0	0.12
2003	220	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	221	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	222	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	223	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	224	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	230	23	2781	339.842	-425.379	D	7.645	7.639	0.006	3.4	99.77	0.01	0	0	0	0.22
2003	231	23	2789	340.496	-426.449	D	7.706	7.639	0.068	3.4	99.77	0.09	0	0	0	0.14
2003	232	23	2789	340.496	-426.449	D	7.725	7.639	0.086	3.4	99.78	0.11	0	0	0	0.11
2003	233	23	2789	340.496	-426.449	D	7.702	7.639	0.063	3.4	99.73	0.17	0	0	0	0.1
2003	234	23	2789	340.496	-426.449	D	7.71	7.639	0.072	3.4	99.81	0.07	0	0	0	0.12
2003	235	23	2789	340.496	-426.449	D	7.751	7.639	0.112	3.4	99.77	0.08	0	0	0	0.15
2003	236	23	2588	318.452	-445.8	D	7.707	7.639	0.068	3.4	99.62	0.24	0	0	0	0.14
2003	237	23	67	319.674	-440.741	D	7.677	7.639	0.038	3.4	99.81	0.07	0	0	0	0.12
2003	238	23	2758	335.862	-424.454	D	7.652	7.639	0.013	3.4	99.86	0.03	0	0	0	0.1
2003	239	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.92	0.04	0	0	0	0.09
2003	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	242	23	2209	335.38	-424.564	D	7.639	7.639	0	3.4	99.81	0.24	0	0	0	0.12
2003	243	23	1415	329.185	-425.086	D	7.639	7.639	0	3.4	101.84	0.5	0	0	0	0.1
2003	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2003	245	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	246	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	247	23	2628	320.933	-436.998	D	7.871	7.731	0.14	3.6	98.58	1.24	0	0	0	0.18
2003	248	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	249	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	255	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	257	23	2588	318.452	-445.8	D	7.93	7.731	0.2	3.6	86.74	12.69	0	0	0	0.57
2003	258	23	2789	340.496	-426.449	D	7.787	7.731	0.056	3.6	98.99	0.65	0	0	0	0.36
2003	259	23	2789	340.496	-426.449	D	7.756	7.731	0.026	3.6	99.36	0.38	0	0	0	0.25
2003	260	23	2781	339.842	-425.379	D	7.733	7.731	0.002	3.6	99.48	0.29	0	0	0	0.19
2003	261	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	262	23	2684	326.713	-427.014	D	7.783	7.731	0.052	3.6	91.16	8.06	0	0	0	0.78
2003	263	23	2628	320.933	-436.998	D	7.799	7.731	0.068	3.6	98.85	0.82	0	0	0	0.33
2003	264	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	265	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	266	23	2789	340.496	-426.449	D	7.758	7.731	0.027	3.6	96.74	2.37	0	0	0	0.88
2003	267	23	2789	340.496	-426.449	D	7.734	7.731	0.003	3.6	99.5	0.25	0	0	0	0.24
2003	268	23	2588	318.452	-445.8	D	7.762	7.731	0.031	3.6	98.09	1.47	0	0	0	0.45
2003	269	23	2571	322.646	-445.476	D	7.786	7.731	0.055	3.6	99.45	0.37	0	0	0	0.18
2003	270	23	2781	339.842	-425.379	D	7.741	7.731	0.01	3.6	92.3	6.94	0	0	0	0.76
2003	271	23	2781	339.842	-425.379	D	7.744	7.731	0.013	3.6	94.87	4.01	0	0	0	1.12
2003	272	23	2600	318.952	-443.12	D	7.741	7.731	0.011	3.6	85.34	13.64	0	0	0	1.03
2003	273	23	2781	339.842	-425.379	D	7.741	7.731	0.01	3.6	94.5	5.29	0	0	0	0.2
2003	274	23	2781	339.842	-425.379	D	7.646	7.598	0.047	3.313	95.76	4.11	0	0	0	0.14
2003	275	23	2588	318.452	-445.8	D	7.71	7.593	0.117	3.3	95.07	4.51	0	0	0	0.43
2003	276	23	2628	320.933	-436.998	D	7.621	7.593	0.029	3.3	98.92	0.84	0	0	0	0.24
2003	277	23	2758	335.862	-424.454	D	7.637	7.593	0.044	3.3	98.34	1.02	0	0	0	0.64
2003	278	23	2588	318.452	-445.8	D	7.653	7.593	0.061	3.3	98.33	1.32	0	0	0	0.35
2003	279	23	2588	318.452	-445.8	D	7.627	7.593	0.035	3.3	98.27	1.52	0	0	0	0.21
2003	280	23	2589	318.383	-445.593	D	7.596	7.593	0.004	3.3	99.59	0.25	0	0	0	0.16
2003	281	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	99.84	0.15	0	0	0	0.11
2003	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	285	23	2789	340.496	-426.449	D	7.605	7.593	0.013	3.3	86.94	11.92	0	0	0	1.14
2003	286	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	287	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	69.13	28.54	0	0	0	2.32
2003	288	23	2789	340.496	-426.449	D	7.613	7.593	0.021	3.3	94.66	4.41	0	0	0	0.93
2003	289	23	2781	339.842	-425.379	D	7.595	7.593	0.002	3.3	99.08	0.63	0	0	0	0.31
2003	290	23	2789	340.496	-426.449	D	7.615	7.593	0.023	3.3	95.8	4.09	0	0	0	0.12
2003	291	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	292	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	293	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	294	23	2781	339.842	-425.379	D	7.607	7.593	0.015	3.3	99.03	0.24	0	0	0	0.73
2003	295	23	2708	329.979	-425	D	7.936	7.593	0.344	3.3	98.72	0.67	0	0	0	0.61

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	296	23	2588	318.452	-445.8	D	7.605	7.593	0.012	3.3	99.52	0.12	0	0	0	0.36
2003	297	23	2789	340.496	-426.449	D	7.637	7.593	0.045	3.3	98.76	0.87	0	0	0	0.37
2003	298	23	2429	338.563	-428.651	D	7.772	7.593	0.18	3.3	95.19	4.39	0	0	0	0.42
2003	299	23	2781	339.842	-425.379	D	7.717	7.593	0.124	3.3	88.35	11	0	0	0	0.65
2003	300	23	2789	340.496	-426.449	D	7.612	7.593	0.02	3.3	93.52	6.1	0	0	0	0.39
2003	301	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	304	23	1415	329.185	-425.086	D	7.593	7.593	0	3.3	97.56	1.82	0	0	0	0.51
2003	305	23	2704	329.056	-425.092	D	7.715	7.548	0.167	3.204	94.51	5.04	0	0	0	0.44
2003	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	307	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	308	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	309	23	2043	334.488	-432.597	D	7.68	7.546	0.134	3.2	93.51	6.01	0	0	0	0.47
2003	310	23	2571	322.646	-445.476	D	7.761	7.546	0.215	3.2	94.77	5.09	0	0	0	0.14
2003	311	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	316	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	317	23	2789	340.496	-426.449	D	7.585	7.546	0.039	3.2	84.99	13.76	0	0	0	1.25
2003	318	23	2789	340.496	-426.449	D	7.635	7.546	0.089	3.2	87.58	11.79	0	0	0	0.63
2003	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	322	23	2589	318.383	-445.593	D	7.792	7.546	0.246	3.2	96.19	3.58	0	0	0	0.23
2003	323	23	2588	318.452	-445.8	D	7.671	7.546	0.124	3.2	91.04	8.27	0	0	0	0.69
2003	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	331	23	2589	318.383	-445.593	D	7.648	7.546	0.102	3.2	88.14	11.45	0	0	0	0.41
2003	332	23	2694	327.861	-425.964	D	7.587	7.546	0.04	3.2	82.07	16.93	0	0	0	1
2003	333	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	335	23	2704	329.056	-425.092	D	7.617	7.591	0.026	3.296	83.61	15.37	0	0	0	1.03
2003	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	338	23	2707	329.748	-425.023	D	7.751	7.593	0.159	3.3	90.4	9.29	0	0	0	0.31
2003	339	23	2789	340.496	-426.449	D	7.609	7.593	0.016	3.3	90.25	9.5	0	0	0	0.25
2003	340	23	2789	340.496	-426.449	D	7.685	7.593	0.093	3.3	78.76	20.22	0	0	0	1.03
2003	341	23	2589	318.383	-445.593	D	7.594	7.593	0.001	3.3	88.52	11.17	0	0	0	0.35
2003	342	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	344	23	2758	335.862	-424.454	D	7.595	7.593	0.002	3.3	88.48	10.96	0	0	0	0.54
2003	345	23	2781	339.842	-425.379	D	7.643	7.593	0.051	3.3	77.58	21.5	0	0	0	0.92
2003	346	23	2781	339.842	-425.379	D	7.682	7.593	0.089	3.3	84.42	15.16	0	0	0	0.42
2003	347	23	2684	326.713	-427.014	D	7.593	7.593	0	3.3	89.23	10.15	0	0	0	0.22
2003	348	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	349	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	354	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	89.19	10.36	0	0	0	0.47
2003	355	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	90.06	9.62	0	0	0	0.33
2003	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	357	23	2781	339.842	-425.379	D	7.659	7.593	0.066	3.3	85.1	14.35	0	0	0	0.56
2003	358	23	2789	340.496	-426.449	D	7.701	7.593	0.108	3.3	84.06	15.36	0	0	0	0.59
2003	359	23	2588	318.452	-445.8	D	7.642	7.593	0.049	3.3	87.98	11.66	0	0	0	0.36
2003	360	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	89.85	9.86	0	0	0	0.2
2003	361	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.683							
MARSHALL											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	2	23	2789	340.496	-426.449	D	7.61	7.593	0.017	3.3	70.52	28.64	0	0	0	0.83
2003	3	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	6	23	2781	339.842	-425.379	D	7.67	7.593	0.078	3.3	66.84	32.27	0	0	0	0.89
2003	7	23	2781	339.842	-425.379	D	7.697	7.593	0.104	3.3	76.31	23.21	0	0	0	0.47
2003	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	9	23	2704	329.056	-425.092	D	7.606	7.593	0.014	3.3	87.85	11.22	0	0	0	0.93
2003	10	23	2571	322.646	-445.476	D	7.593	7.593	0.001	3.3	84.17	15.29	0	0	0	0.41
2003	11	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	12	23	2789	340.496	-426.449	D	7.604	7.593	0.011	3.3	69.38	29.99	0	0	0	0.64
2003	13	23	2789	340.496	-426.449	D	7.595	7.593	0.003	3.3	73.07	26.49	0	0	0	0.46
2003	14	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	83.17	16.45	0	0	0	0.44
2003	15	23	2789	340.496	-426.449	D	7.673	7.593	0.081	3.3	68.48	30.8	0	0	0	0.72
2003	16	23	2704	329.056	-425.092	D	7.653	7.593	0.06	3.3	80.52	19.1	0	0	0	0.38
2003	17	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	18	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	19	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	21	23	2704	329.056	-425.092	D	7.606	7.593	0.014	3.3	75.4	24.28	0	0	0	0.31
2003	22	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	59.97	13.6	0	0	0	0.15
2003	23	23	2781	339.842	-425.379	D	7.646	7.593	0.053	3.3	82.41	17.31	0	0	0	0.28
2003	24	23	2789	340.496	-426.449	D	7.624	7.593	0.031	3.3	75.53	24.08	0	0	0	0.4
2003	25	23	2789	340.496	-426.449	D	7.596	7.593	0.003	3.3	77.94	21.8	0	0	0	0.27
2003	26	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	71.09	28.39	0	0	0	0.52
2003	27	23	2789	340.496	-426.449	D	7.678	7.593	0.085	3.3	73.09	26.52	0	0	0	0.39
2003	28	23	2781	339.842	-425.379	D	7.593	7.593	0	3.3	75.22	20.78	0	0	0	0.11
2003	29	23	2684	326.713	-427.014	D	7.718	7.593	0.125	3.3	81.67	18.04	0	0	0	0.29
2003	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	89.52	13.74	0	0	0	0.13
2003	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	34	23	2756	335.398	-424.515	D	7.454	7.453	0.001	3	83.54	16.28	0	0	0	0.26
2003	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	36	23	2789	340.496	-426.449	D	7.455	7.453	0.003	3	76.56	22.7	0	0	0	0.76
2003	37	23	2781	339.842	-425.379	D	7.485	7.453	0.032	3	80.47	19.22	0	0	0	0.32
2003	38	23	2684	326.713	-427.014	D	7.51	7.453	0.058	3	77.78	21.74	0	0	0	0.48
2003	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	40	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	42	23	2781	339.842	-425.379	D	7.453	7.453	0	3	75.27	24.54	0	0	0	0.98

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	43	23	2789	340.496	-426.449	D	7.455	7.453	0.002	3	69.76	28.93	0	0	0	1.4
2003	44	23	2789	340.496	-426.449	D	7.456	7.453	0.003	3	79.81	19.59	0	0	0	0.65
2003	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	46	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	47	23	2589	318.383	-445.593	D	7.455	7.453	0.003	3	84.88	14.77	0	0	0	0.41
2003	48	23	2628	320.933	-436.998	D	7.453	7.453	0.001	3	88.61	11.11	0	0	0	0.41
2003	49	23	2704	329.056	-425.092	D	7.503	7.453	0.051	3	88.81	10.92	0	0	0	0.28
2003	50	23	2704	329.056	-425.092	D	7.475	7.453	0.022	3	90.37	9.46	0	0	0	0.19
2003	51	23	2704	329.056	-425.092	D	7.482	7.453	0.029	3	84.91	14.83	0	0	0	0.26
2003	52	23	2684	326.713	-427.014	D	7.457	7.453	0.004	3	93.55	6.34	0	0	0	0.18
2003	53	23	2573	322.153	-445.515	D	7.529	7.453	0.076	3	82.14	17.35	0	0	0	0.51
2003	54	23	2589	318.383	-445.593	D	7.497	7.453	0.044	3	75.27	24.19	0	0	0	0.55
2003	55	23	2628	320.933	-436.998	D	7.487	7.453	0.034	3	81.74	18.04	0	0	0	0.22
2003	56	23	2588	318.452	-445.8	D	7.543	7.453	0.09	3	81.2	18.39	0	0	0	0.41
2003	57	23	2628	320.933	-436.998	D	7.513	7.453	0.061	3	87.37	12.4	0	0	0	0.23
2003	58	23	2684	326.713	-427.014	D	7.478	7.453	0.025	3	90.18	9.66	0	0	0	0.18
2003	59	23	2589	318.383	-445.593	D	7.484	7.453	0.031	3	91.94	7.93	0	0	0	0.14
2003	60	23	2704	329.056	-425.092	D	7.368	7.317	0.051	2.713	92.6	7.25	0	0	0	0.16
2003	61	23	2781	339.842	-425.379	D	7.437	7.311	0.126	2.7	93.08	6.78	0	0	0	0.15
2003	62	23	2789	340.496	-426.449	D	7.316	7.311	0.005	2.7	94.59	5.2	0	0	0	0.23
2003	63	23	2789	340.496	-426.449	D	7.314	7.311	0.004	2.7	92.62	7.14	0	0	0	0.25
2003	64	23	2758	335.862	-424.454	D	7.595	7.311	0.284	2.7	80.28	19.27	0	0	0	0.44
2003	65	23	2781	339.842	-425.379	D	7.601	7.311	0.29	2.7	85.24	14.37	0	0	0	0.39
2003	66	23	2789	340.496	-426.449	D	7.342	7.311	0.031	2.7	91.32	8.43	0	0	0	0.26
2003	67	23	2788	340.294	-426.448	D	7.311	7.311	0	2.7	98.25	1.89	0	0	0	0.19
2003	68	23	2789	340.496	-426.449	D	7.328	7.311	0.017	2.7	73.9	25.45	0	0	0	0.65
2003	69	23	1552	330.178	-425.042	D	7.311	7.311	0	2.7	58.92	40.86	0	0	0	1.22
2003	70	23	2684	326.713	-427.014	D	7.312	7.311	0.001	2.7	89.81	10.17	0	0	0	0.3
2003	71	23	2704	329.056	-425.092	D	7.311	7.311	0	2.7	92.98	6.88	0	0	0	0.25
2003	72	23	2781	339.842	-425.379	D	7.491	7.311	0.18	2.7	94.86	4.63	0	0	0	0.51
2003	73	23	2588	318.452	-445.8	D	7.406	7.311	0.095	2.7	96.05	3.63	0	0	0	0.32
2003	74	23	2628	320.933	-436.998	D	7.319	7.311	0.008	2.7	96.5	3.31	0	0	0	0.23
2003	75	23	2705	329.287	-425.069	D	7.311	7.311	0	2.7	99.08	0.5	0	0	0	0.19
2003	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	79	23	2684	326.713	-427.014	D	7.516	7.311	0.205	2.7	88.81	10.89	0	0	0	0.3
2003	80	23	2789	340.496	-426.449	D	7.396	7.311	0.086	2.7	88.72	10.95	0	0	0	0.33
2003	81	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	82	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	84	23	2781	339.842	-425.379	D	7.346	7.311	0.035	2.7	91.91	7.46	0	0	0	0.63
2003	85	23	2789	340.496	-426.449	D	7.315	7.311	0.005	2.7	91.55	8.18	0	0	0	0.27
2003	86	23	2788	340.294	-426.448	D	7.311	7.311	0	2.7	108.83	1.87	0	0	0	0.22
2003	87	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	89	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	90	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	95	23	2789	340.496	-426.449	D	7.358	7.358	0	2.8	97.78	1.99	0	0	0	0.48
2003	96	23	2781	339.842	-425.379	D	7.37	7.358	0.012	2.8	93.48	6.23	0	0	0	0.29
2003	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	98	23	2789	340.496	-426.449	D	7.363	7.358	0.005	2.8	90.72	9.14	0	0	0	0.16
2003	99	23	2684	326.713	-427.014	D	7.438	7.358	0.08	2.8	65.99	32.97	0	0	0	1.04
2003	100	23	2589	318.383	-445.593	D	7.379	7.358	0.02	2.8	92.91	6.6	0	0	0	0.5
2003	101	23	2588	318.452	-445.8	D	7.414	7.358	0.056	2.8	98.34	1.36	0	0	0	0.31
2003	102	23	2578	320.919	-445.61	D	7.409	7.358	0.051	2.8	99.14	0.6	0	0	0	0.26
2003	103	23	2789	340.496	-426.449	D	7.369	7.358	0.01	2.8	99.57	0.22	0	0	0	0.23
2003	104	23	2789	340.496	-426.449	D	7.361	7.358	0.003	2.8	99.58	0.26	0	0	0	0.21
2003	105	23	1239	328.021	-426.885	D	7.358	7.358	0	2.8	88.46	0.04	0	0	0	0.16
2003	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	107	23	2781	339.842	-425.379	D	7.375	7.358	0.017	2.8	88.96	10.8	0	0	0	0.25
2003	108	23	2789	340.496	-426.449	D	7.358	7.358	0	2.8	100.82	0.09	0	0	0	0.22
2003	109	23	2413	339.406	-425.637	D	7.358	7.358	0	2.8	98.75	0.22	0	0	0	0.18
2003	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	112	23	2789	340.496	-426.449	D	7.365	7.358	0.007	2.8	92.69	6.23	0	0	0	1.1
2003	113	23	2476	332.154	-435.398	D	7.371	7.358	0.013	2.8	96.65	2.94	0	0	0	0.42
2003	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	115	23	2589	318.383	-445.593	D	7.461	7.358	0.103	2.8	87.27	12.22	0	0	0	0.52
2003	116	23	2781	339.842	-425.379	D	7.388	7.358	0.03	2.8	84.35	15.08	0	0	0	0.57
2003	117	23	2589	318.383	-445.593	D	7.362	7.358	0.004	2.8	97.84	1.94	0	0	0	0.26
2003	118	23	1242	327.988	-426.138	D	7.358	7.358	0	2.8	101.75	0.1	0	0	0	0.21
2003	119	23	890	325.735	-431.482	D	7.358	7.358	0	2.8	96.89	0.28	0	0	0	0.18
2003	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	121	23	1242	327.988	-426.138	D	7.627	7.627	0	3.375	95.28	1.01	0	0	0	0.23
2003	122	23	2758	335.862	-424.454	D	7.762	7.639	0.123	3.4	98.72	0.89	0	0	0	0.4
2003	123	23	2684	326.713	-427.014	D	7.931	7.639	0.292	3.4	96.68	3.05	0	0	0	0.27
2003	124	23	2789	340.496	-426.449	D	7.683	7.639	0.044	3.4	99.49	0.41	0	0	0	0.1
2003	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	127	23	2758	335.862	-424.454	D	7.663	7.639	0.024	3.4	98.2	1.56	0	0	0	0.25
2003	128	23	2758	335.862	-424.454	D	7.646	7.639	0.007	3.4	99.47	0.33	0	0	0	0.2
2003	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	137	23	2758	335.862	-424.454	D	7.655	7.639	0.016	3.4	99.55	0.33	0	0	0	0.13
2003	138	23	2589	318.383	-445.593	D	7.735	7.639	0.096	3.4	97.57	2.32	0	0	0	0.11
2003	139	23	2589	318.383	-445.593	D	7.67	7.639	0.031	3.4	98.67	1.22	0	0	0	0.11
2003	140	23	2628	320.933	-436.998	D	7.774	7.639	0.135	3.4	86.18	13.36	0	0	0	0.46
2003	141	23	1922	333.594	-434.885	D	7.64	7.639	0.001	3.4	98.14	1.72	0	0	0	0.07
2003	142	23	2627	320.879	-437.207	D	7.64	7.639	0.001	3.4	99.12	0.66	0	0	0	0.29
2003	143	23	2694	327.861	-425.964	D	7.65	7.639	0.012	3.4	99.29	0.47	0	0	0	0.24
2003	144	23	2758	335.862	-424.454	D	7.675	7.639	0.036	3.4	98.77	1.03	0	0	0	0.2
2003	145	23	2684	326.713	-427.014	D	7.872	7.639	0.233	3.4	97.75	2.1	0	0	0	0.15
2003	146	23	2588	318.452	-445.8	D	7.676	7.639	0.037	3.4	99.6	0.27	0	0	0	0.14
2003	147	23	2704	329.056	-425.092	D	7.64	7.639	0.002	3.4	99.4	0.14	0	0	0	0.46
2003	148	23	2758	335.862	-424.454	D	7.713	7.639	0.074	3.4	99.18	0.56	0	0	0	0.26
2003	149	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.67	0.06	0	0	0	0.19
2003	150	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	98.59	1.09	0	0	0	0.36
2003	151	23	2789	340.496	-426.449	D	7.664	7.639	0.025	3.4	99.39	0.21	0	0	0	0.4
2003	152	23	2589	318.383	-445.593	D	7.665	7.639	0.026	3.4	99.14	0.61	0	0	0	0.26
2003	153	23	2626	320.826	-437.417	D	7.64	7.639	0.001	3.4	99.5	0.36	0	0	0	0.11
2003	154	23	2781	339.842	-425.379	D	7.739	7.639	0.1	3.4	91.07	8.71	0	0	0	0.22
2003	155	23	2781	339.842	-425.379	D	7.772	7.639	0.134	3.4	96.44	3.25	0	0	0	0.31
2003	156	23	2704	329.056	-425.092	D	7.761	7.639	0.123	3.4	99.26	0.51	0	0	0	0.23
2003	157	23	2704	329.056	-425.092	D	7.652	7.639	0.013	3.4	98.49	1.35	0	0	0	0.17
2003	158	23	2781	339.842	-425.379	D	7.642	7.639	0.004	3.4	98.56	1.31	0	0	0	0.14
2003	159	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.9	0.08	0	0	0	0.12

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	160	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	164	23	2704	329.056	-425.092	D	7.649	7.639	0.011	3.4	99.73	0.13	0	0	0	0.15
2003	165	23	2628	320.933	-436.998	D	7.679	7.639	0.04	3.4	98.28	1.58	0	0	0	0.14
2003	166	23	1	318.65	-445.782	D	7.642	7.639	0.003	3.4	99.15	0.75	0	0	0	0.11
2003	167	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	99.4	0.53	0	0	0	0.11
2003	168	23	340	322.363	-445.37	D	7.642	7.639	0.003	3.4	98.71	1.19	0	0	0	0.1
2003	169	23	1	318.65	-445.782	D	7.64	7.639	0.001	3.4	99.44	0.44	0	0	0	0.09
2003	170	23	2758	335.862	-424.454	D	7.673	7.639	0.034	3.4	99.68	0.1	0	0	0	0.23
2003	171	23	2704	329.056	-425.092	D	8.116	7.639	0.477	3.4	95.49	4.34	0	0	0	0.17
2003	172	23	2589	318.383	-445.593	D	7.656	7.639	0.018	3.4	99.68	0.18	0	0	0	0.14
2003	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	178	23	2468	334.002	-434.887	D	7.666	7.639	0.027	3.4	97.6	1.84	0	0	0	0.56
2003	179	23	2588	318.452	-445.8	D	7.659	7.639	0.02	3.4	99.43	0.29	0	0	0	0.29
2003	180	23	2694	327.861	-425.964	D	7.645	7.639	0.006	3.4	99.63	0.18	0	0	0	0.21
2003	181	23	2704	329.056	-425.092	D	7.64	7.639	0.001	3.4	99.38	0.56	0	0	0	0.16
2003	182	23	2182	335.131	-424.575	D	7.639	7.639	0	3.4	99.79	0.31	0	0	0	0.14
2003	183	23	2777	338.93	-425.542	D	7.639	7.639	0	3.4	100.13	0.21	0	0	0	0.13
2003	184	23	2397	338.413	-425.68	D	7.639	7.639	0	3.4	98.36	0.06	0	0	0	0.13
2003	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	192	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	193	23	2788	340.294	-426.448	D	7.639	7.639	0	3.4	99.41	0.1	0	0	0	0.32
2003	194	23	2781	339.842	-425.379	D	7.664	7.639	0.025	3.4	99.26	0.48	0	0	0	0.26
2003	195	23	2781	339.842	-425.379	D	7.676	7.639	0.037	3.4	99.02	0.79	0	0	0	0.19
2003	196	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	92.19	0.02	0	0	0	0.14
2003	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	198	23	2789	340.496	-426.449	D	7.647	7.639	0.008	3.4	99.65	0.11	0	0	0	0.25

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	199	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.76	0.03	0	0	0	0.18
2003	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	201	23	2789	340.496	-426.449	D	7.639	7.639	0	3.4	99.01	0.85	0	0	0	0.13
2003	202	23	2235	335.628	-424.554	D	7.639	7.639	0	3.4	97.93	0.65	0	0	0	0.14
2003	203	23	2789	340.496	-426.449	D	7.656	7.639	0.017	3.4	93.7	5.66	0	0	0	0.64
2003	204	23	2789	340.496	-426.449	D	7.673	7.639	0.034	3.4	96.9	2.48	0	0	0	0.62
2003	205	23	2628	320.933	-436.998	D	7.665	7.639	0.026	3.4	99.43	0.21	0	0	0	0.35
2003	206	23	2684	326.713	-427.014	D	7.644	7.639	0.005	3.4	99.64	0.1	0	0	0	0.26
2003	207	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	208	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	210	23	2704	329.056	-425.092	D	7.696	7.639	0.057	3.4	97.4	2.39	0	0	0	0.22
2003	211	23	2789	340.496	-426.449	D	7.801	7.639	0.162	3.4	98.52	1.33	0	0	0	0.15
2003	212	23	2789	340.496	-426.449	D	7.741	7.639	0.102	3.4	99.37	0.5	0	0	0	0.14
2003	213	23	2781	339.842	-425.379	D	7.683	7.639	0.045	3.4	99.58	0.28	0	0	0	0.14
2003	214	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	99.85	0.04	0	0	0	0.1
2003	215	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	216	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.63	0.66	0	0	0	0.34
2003	217	23	2781	339.842	-425.379	D	7.641	7.639	0.002	3.4	99.27	0.49	0	0	0	0.31
2003	218	23	2628	320.933	-436.998	D	7.714	7.639	0.075	3.4	99.11	0.65	0	0	0	0.25
2003	219	23	2588	318.452	-445.8	D	7.732	7.639	0.094	3.4	99.37	0.39	0	0	0	0.24
2003	220	23	2589	318.383	-445.593	D	7.642	7.639	0.003	3.4	99.35	0.22	0	0	0	0.47
2003	221	23	2589	318.383	-445.593	D	7.644	7.639	0.005	3.4	99.43	0.18	0	0	0	0.42
2003	222	23	2589	318.383	-445.593	D	7.652	7.639	0.013	3.4	99.62	0.07	0	0	0	0.32
2003	223	23	2588	318.452	-445.8	D	7.67	7.639	0.031	3.4	99.52	0.26	0	0	0	0.22
2003	224	23	2588	318.452	-445.8	D	7.639	7.639	0	3.4	98.82	0.65	0	0	0	0.18
2003	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	230	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	99.65	0.03	0	0	0	0.32
2003	231	23	2789	340.496	-426.449	D	7.663	7.639	0.024	3.4	99.66	0.14	0	0	0	0.2
2003	232	23	2789	340.496	-426.449	D	7.659	7.639	0.02	3.4	99.59	0.26	0	0	0	0.15
2003	233	23	2789	340.496	-426.449	D	7.651	7.639	0.012	3.4	99.57	0.3	0	0	0	0.13
2003	234	23	2789	340.496	-426.449	D	7.65	7.639	0.011	3.4	99.71	0.17	0	0	0	0.13
2003	235	23	2711	330.671	-424.932	D	7.762	7.639	0.123	3.4	99.56	0.13	0	0	0	0.31
2003	236	23	2588	318.452	-445.8	D	7.764	7.639	0.125	3.4	98.98	0.79	0	0	0	0.23
2003	237	23	2684	326.713	-427.014	D	7.707	7.639	0.069	3.4	99.69	0.12	0	0	0	0.19

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	238	23	2758	335.862	-424.454	D	7.646	7.639	0.007	3.4	99.8	0.03	0	0	0	0.16
2003	239	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	99.91	0.07	0	0	0	0.12
2003	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	242	23	2779	339.386	-425.461	D	7.639	7.639	0	3.4	92.63	0.41	0	0	0	0.15
2003	243	23	2758	335.862	-424.454	D	7.639	7.639	0	3.4	97.95	1.65	0	0	0	0.14
2003	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2003	245	23	2589	318.383	-445.593	D	7.74	7.731	0.009	3.6	99.21	0.59	0	0	0	0.21
2003	246	23	2588	318.452	-445.8	D	7.741	7.731	0.01	3.6	98.13	1.71	0	0	0	0.16
2003	247	23	2789	340.496	-426.449	D	8.09	7.731	0.36	3.6	93.06	6.58	0	0	0	0.36
2003	248	23	2588	318.452	-445.8	D	7.731	7.731	0	3.6	100.53	0.15	0	0	0	0.53
2003	249	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	255	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	257	23	2704	329.056	-425.092	D	7.946	7.731	0.215	3.6	89.97	9.75	0	0	0	0.27
2003	258	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	259	23	2789	340.496	-426.449	D	7.738	7.731	0.007	3.6	99.17	0.52	0	0	0	0.32
2003	260	23	2781	339.842	-425.379	D	7.737	7.731	0.006	3.6	99.08	0.65	0	0	0	0.25
2003	261	23	2235	335.628	-424.554	D	7.731	7.731	0	3.6	99.35	0.32	0	0	0	0.17
2003	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	263	23	2781	339.842	-425.379	D	7.835	7.731	0.105	3.6	97.07	2.61	0	0	0	0.32
2003	264	23	2684	326.713	-427.014	D	7.737	7.731	0.006	3.6	99.45	0.31	0	0	0	0.24
2003	265	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	266	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	267	23	2788	340.294	-426.448	D	7.731	7.731	0	3.6	93.66	0.88	0	0	0	0.36
2003	268	23	2788	340.294	-426.448	D	7.746	7.731	0.015	3.6	91.22	7.52	0	0	0	1.27
2003	269	23	2571	322.646	-445.476	D	7.75	7.731	0.019	3.6	98.68	1.07	0	0	0	0.25
2003	270	23	2684	326.713	-427.014	D	7.742	7.731	0.012	3.6	81.97	16.51	0	0	0	1.52
2003	271	23	2789	340.496	-426.449	D	7.731	7.731	0	3.6	73.94	23.73	0	0	0	2.4
2003	272	23	2588	318.452	-445.8	D	7.736	7.731	0.006	3.6	69.82	28.57	0	0	0	1.59
2003	273	23	2789	340.496	-426.449	D	7.736	7.731	0.006	3.6	96.53	2.93	0	0	0	0.53
2003	274	23	2684	326.713	-427.014	D	7.706	7.598	0.107	3.313	87.95	11.7	0	0	0	0.36
2003	275	23	2571	322.646	-445.476	D	7.616	7.593	0.023	3.3	93.8	5.66	0	0	0	0.54
2003	276	23	2628	320.933	-436.998	D	7.614	7.593	0.021	3.3	96.22	3.45	0	0	0	0.34

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	277	23	2781	339.842	-425.379	D	7.593	7.593	0.001	3.3	98.93	0.53	0	0	0	0.62
2003	278	23	2789	340.496	-426.449	D	7.658	7.593	0.066	3.3	97.41	2.15	0	0	0	0.44
2003	279	23	2789	340.496	-426.449	D	7.68	7.593	0.088	3.3	96.11	3.6	0	0	0	0.29
2003	280	23	2589	318.383	-445.593	D	7.633	7.593	0.04	3.3	98.88	0.9	0	0	0	0.22
2003	281	23	2684	326.713	-427.014	D	7.6	7.593	0.008	3.3	99.14	0.7	0	0	0	0.18
2003	282	23	1415	329.185	-425.086	D	7.593	7.593	0	3.3	99.58	0.32	0	0	0	0.18
2003	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	285	23	2600	318.952	-443.12	D	7.627	7.593	0.034	3.3	96.36	2.97	0	0	0	0.68
2003	286	23	2589	318.383	-445.593	D	7.622	7.593	0.029	3.3	98.31	1.36	0	0	0	0.33
2003	287	23	2781	339.842	-425.379	D	7.618	7.593	0.025	3.3	88.9	10.94	0	0	0	0.17
2003	288	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	96.9	1.38	0	0	0	0.69
2003	289	23	2418	339.946	-426.612	D	7.593	7.593	0	3.3	91.67	1.22	0	0	0	0.43
2003	290	23	2789	340.496	-426.449	D	7.608	7.593	0.015	3.3	92.96	6.89	0	0	0	0.16
2003	291	23	2684	326.713	-427.014	D	7.596	7.593	0.003	3.3	98.86	0.69	0	0	0	0.43
2003	292	23	2789	340.496	-426.449	D	7.605	7.593	0.012	3.3	98.98	0.72	0	0	0	0.3
2003	293	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	99.64	0.18	0	0	0	0.22
2003	294	23	2787	340.091	-426.447	D	7.593	7.593	0	3.3	93.86	0.2	0	0	0	0.18
2003	295	23	2789	340.496	-426.449	D	7.63	7.593	0.037	3.3	98.71	0.62	0	0	0	0.68
2003	296	23	2588	318.452	-445.8	D	7.656	7.593	0.063	3.3	98.5	0.94	0	0	0	0.55
2003	297	23	2789	340.496	-426.449	D	7.607	7.593	0.014	3.3	98.71	0.86	0	0	0	0.44
2003	298	23	2790	340.421	-426.562	D	7.645	7.593	0.053	3.3	91.71	7.67	0	0	0	0.62
2003	299	23	2600	318.952	-443.12	D	7.597	7.593	0.005	3.3	79.69	19.95	0	0	0	0.38
2003	300	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	301	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	305	23	2758	335.862	-424.454	D	7.642	7.548	0.094	3.204	86.17	13.08	0	0	0	0.75
2003	306	23	2235	335.628	-424.554	D	7.546	7.546	0	3.2	97.02	1.6	0	0	0	0.33
2003	307	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	308	23	2704	329.056	-425.092	D	7.591	7.546	0.045	3.2	95.72	4.12	0	0	0	0.16
2003	309	23	2711	330.671	-424.932	D	8.065	7.546	**0.519**	3.2	95.21	4.61	0	0	0	0.17
2003	310	23	2571	322.646	-445.476	D	7.912	7.546	0.366	3.2	93.59	6.28	0	0	0	0.13
2003	311	23	2589	318.383	-445.593	D	7.55	7.546	0.004	3.2	88.45	11.18	0	0	0	0.38
2003	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	316	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	317	23	2789	340.496	-426.449	D	7.551	7.546	0.005	3.2	58.83	38.94	0	0	0	2.26
2003	318	23	2789	340.496	-426.449	D	7.547	7.546	0	3.2	87.79	12.02	0	0	0	0.67
2003	319	23	2359	337.701	-426.461	D	7.546	7.546	0	3.2	97.9	18.44	0	0	0	0.52
2003	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	323	23	2789	340.496	-426.449	D	7.557	7.546	0.01	3.2	89.72	10.01	0	0	0	0.27
2003	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	327	23	2704	329.056	-425.092	D	7.554	7.546	0.008	3.2	85.72	14.12	0	0	0	0.18
2003	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	331	23	2789	340.496	-426.449	D	7.616	7.546	0.07	3.2	85.79	13.86	0	0	0	0.35
2003	332	23	2789	340.496	-426.449	D	7.551	7.546	0.004	3.2	90.27	9.64	0	0	0	0.1
2003	333	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	335	23	2789	340.496	-426.449	D	7.61	7.591	0.019	3.296	59.43	38.42	0	0	0	2.15
2003	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	338	23	2758	335.862	-424.454	D	7.706	7.593	0.113	3.3	87.91	11.77	0	0	0	0.32
2003	339	23	2588	318.452	-445.8	D	7.599	7.593	0.007	3.3	92.07	7.74	0	0	0	0.2
2003	340	23	2789	340.496	-426.449	D	7.595	7.593	0.002	3.3	81.69	17.92	0	0	0	0.43
2003	341	23	2789	340.496	-426.449	D	7.603	7.593	0.01	3.3	78.72	20.99	0	0	0	0.29
2003	342	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	344	23	2588	318.452	-445.8	D	7.713	7.593	0.121	3.3	84.74	15.15	0	0	0	0.12
2003	345	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	346	23	2781	339.842	-425.379	D	7.611	7.593	0.018	3.3	79.92	19.7	0	0	0	0.38
2003	347	23	2603	319.155	-442.443	D	7.597	7.593	0.005	3.3	84.24	15.56	0	0	0	0.2
2003	348	23	2610	319.631	-440.865	D	7.606	7.593	0.013	3.3	87.44	12.41	0	0	0	0.15
2003	349	23	2781	339.842	-425.379	D	7.595	7.593	0.002	3.3	89.32	10.61	0	0	0	0.11
2003	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	357	23	2600	318.952	-443.12	D	7.627	7.593	0.034	3.3	79.79	19.9	0	0	0	0.31
2003	358	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	359	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	84.6	14.97	0	0	0	0.51
2003	360	23	2789	340.496	-426.449	D	7.595	7.593	0.003	3.3	81.86	17.81	0	0	0	0.36
2003	361	23	2235	335.628	-424.554	D	7.593	7.593	0	3.3	79.59	11.27	0	0	0	0.16
2003	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.519							
COLUMBIA											**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DELTA DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	2	23	2758	335.862	-424.454	D	7.601	7.593	0.009	3.3	39.16	60.8	0	0	0	0.04
2003	3	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	4	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	5	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	6	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	7	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	8	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	9	23	2789	340.496	-426.449	D	7.602	7.593	0.009	3.3	89.03	10.93	0	0	0	0.04
2003	10	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	11	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	12	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	60.28	39.8	0	0	0	0.02
2003	13	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	65.27	34.95	0	0	0	0.01
2003	14	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	15	23	2789	340.496	-426.449	D	7.599	7.593	0.006	3.3	59.02	40.97	0	0	0	0.02
2003	16	23	2604	319.223	-442.217	D	7.624	7.593	0.031	3.3	65.45	34.54	0	0	0	0.01
2003	17	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	18	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	19	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	21	23	2789	340.496	-426.449	D	7.607	7.593	0.014	3.3	65.06	34.94	0	0	0	0.01
2003	22	23	2704	329.056	-425.092	D	7.618	7.593	0.025	3.3	47.55	52.43	0	0	0	0.02
2003	23	23	2468	334.002	-434.887	D	7.596	7.593	0.003	3.3	53.32	46.69	0	0	0	0.01

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	24	23	2789	340.496	-426.449	D	7.593	7.593	0.001	3.3	66.51	33.61	0	0	0	0.01
2003	25	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	68.88	31.32	0	0	0	0.01
2003	26	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	27	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	62.4	37.6	0	0	0	0.01
2003	28	23	1195	327.827	-428.143	D	7.593	7.593	0	3.3	16.74	6.8	0	0	0	0
2003	29	23	2789	340.496	-426.449	D	7.623	7.593	0.031	3.3	36.93	63.04	0	0	0	0.04
2003	30	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	31	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	32	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	34	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	35	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	36	23	2789	340.496	-426.449	D	7.453	7.453	0	3	60.63	39.17	0	0	0	0.03
2003	37	23	2781	339.842	-425.379	D	7.461	7.453	0.008	3	66.95	33.07	0	0	0	0.01
2003	38	23	2628	320.933	-436.998	D	7.589	7.453	0.136	3	79.2	20.79	0	0	0	0
2003	39	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	40	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	42	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	43	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	44	23	2789	340.496	-426.449	D	7.453	7.453	0	3	68.87	32.01	0	0	0	0.02
2003	45	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	46	23	1	318.65	-445.782	D	7.453	7.453	0	3	0	0	0	0	0	0
2003	47	23	2781	339.842	-425.379	D	7.518	7.453	0.065	3	76.24	23.75	0	0	0	0.01
2003	48	23	2589	318.383	-445.593	D	7.524	7.453	0.071	3	74.22	25.77	0	0	0	0.01
2003	49	23	2789	340.496	-426.449	D	7.481	7.453	0.028	3	74.87	25.13	0	0	0	0.01
2003	50	23	2781	339.842	-425.379	D	7.457	7.453	0.004	3	85.28	14.77	0	0	0	0.01
2003	51	23	2704	329.056	-425.092	D	7.492	7.453	0.039	3	75.52	24.48	0	0	0	0.01
2003	52	23	1415	329.185	-425.086	D	7.453	7.453	0.001	3	89.15	11.03	0	0	0	0.01
2003	53	23	2589	318.383	-445.593	D	7.499	7.453	0.046	3	74.24	25.75	0	0	0	0.01
2003	54	23	2781	339.842	-425.379	D	7.479	7.453	0.026	3	65.4	34.59	0	0	0	0.01
2003	55	23	2628	320.933	-436.998	D	7.497	7.453	0.044	3	72.1	27.9	0	0	0	0.01
2003	56	23	2602	319.088	-442.669	D	7.5	7.453	0.048	3	60.6	39.38	0	0	0	0.02
2003	57	23	2589	318.383	-445.593	D	7.505	7.453	0.052	3	75.12	24.87	0	0	0	0.01
2003	58	23	2684	326.713	-427.014	D	7.469	7.453	0.016	3	81.48	18.54	0	0	0	0.01
2003	59	23	2694	327.861	-425.964	D	7.463	7.453	0.01	3	85.05	14.97	0	0	0	0
2003	60	23	2781	339.842	-425.379	D	7.319	7.317	0.003	2.713	87.77	12.29	0	0	0	0
2003	61	23	2781	339.842	-425.379	D	7.312	7.311	0.001	2.7	87.62	12.43	0	0	0	0.01
2003	62	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	63	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	64	23	2781	339.842	-425.379	D	7.341	7.311	0.03	2.7	79.21	20.79	0	0	0	0.01
2003	65	23	2789	340.496	-426.449	D	7.315	7.311	0.004	2.7	81.8	18.22	0	0	0	0.01
2003	66	23	2789	340.496	-426.449	D	7.321	7.311	0.011	2.7	78.93	21.06	0	0	0	0.01
2003	67	23	2789	340.496	-426.449	D	7.311	7.311	0	2.7	91.9	6.65	0	0	0	0.01
2003	68	23	2789	340.496	-426.449	D	7.341	7.311	0.031	2.7	52.26	47.71	0	0	0	0.03
2003	69	23	2781	339.842	-425.379	D	7.428	7.311	0.117	2.7	62.46	37.52	0	0	0	0.02
2003	70	23	2758	335.862	-424.454	D	7.355	7.311	0.044	2.7	81.95	18.04	0	0	0	0.01
2003	71	23	2781	339.842	-425.379	D	7.312	7.311	0.001	2.7	93.52	6.44	0	0	0	0.01
2003	72	23	2789	340.496	-426.449	D	7.314	7.311	0.003	2.7	94.42	5.61	0	0	0	0.02
2003	73	23	2694	327.861	-425.964	D	7.341	7.311	0.03	2.7	91.2	8.8	0	0	0	0.01
2003	74	23	2628	320.933	-436.998	D	7.312	7.311	0.001	2.7	95.8	4.3	0	0	0	0.01
2003	75	23	863	325.509	-431.992	D	7.311	7.311	0	2.7	91.88	0.49	0	0	0	0.01
2003	76	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	79	23	2704	329.056	-425.092	D	7.332	7.311	0.021	2.7	74.88	25.11	0	0	0	0.01
2003	80	23	2789	340.496	-426.449	D	7.358	7.311	0.047	2.7	77.34	22.65	0	0	0	0.01
2003	81	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	82	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	83	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	84	23	2589	318.383	-445.593	D	7.317	7.311	0.007	2.7	90.71	9.3	0	0	0	0.02
2003	85	23	2684	326.713	-427.014	D	7.314	7.311	0.003	2.7	51.15	48.84	0	0	0	0.03
2003	86	23	200	320.784	-437.694	D	7.311	7.311	0	2.7	95.33	3.86	0	0	0	0.02
2003	87	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	89	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	90	23	1	318.65	-445.782	D	7.311	7.311	0	2.7	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	7.356	7.356	0	2.796	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	95	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	96	23	2781	339.842	-425.379	D	7.365	7.358	0.007	2.8	78.39	21.59	0	0	0	0.01
2003	97	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	98	23	2789	340.496	-426.449	D	7.358	7.358	0	2.8	83.8	17.77	0	0	0	0.01
2003	99	23	2789	340.496	-426.449	D	7.362	7.358	0.004	2.8	89.33	10.7	0	0	0	0.02
2003	100	23	2789	340.496	-426.449	D	7.404	7.358	0.046	2.8	77.96	22.02	0	0	0	0.02
2003	101	23	2781	339.842	-425.379	D	7.377	7.358	0.019	2.8	93.55	6.45	0	0	0	0.02

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	102	23	2789	340.496	-426.449	D	7.377	7.358	0.019	2.8	97.93	2.07	0	0	0	0.01
2003	103	23	2789	340.496	-426.449	D	7.359	7.358	0.001	2.8	99.54	0.43	0	0	0	0.01
2003	104	23	2789	340.496	-426.449	D	7.358	7.358	0	2.8	98.51	1.04	0	0	0	0.01
2003	105	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	107	23	2781	339.842	-425.379	D	7.36	7.358	0.001	2.8	80.32	19.71	0	0	0	0.01
2003	108	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	109	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	110	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	112	23	2781	339.842	-425.379	D	7.36	7.358	0.002	2.8	95.62	4.43	0	0	0	0.04
2003	113	23	2758	335.862	-424.454	D	7.36	7.358	0.002	2.8	95.64	4.37	0	0	0	0.02
2003	114	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	115	23	2781	339.842	-425.379	D	7.366	7.358	0.008	2.8	89.3	10.71	0	0	0	0.02
2003	116	23	2789	340.496	-426.449	D	7.374	7.358	0.016	2.8	68.78	31.19	0	0	0	0.02
2003	117	23	2589	318.383	-445.593	D	7.359	7.358	0.001	2.8	96.75	3.29	0	0	0	0.01
2003	118	23	1043	326.845	-428.436	D	7.358	7.358	0	2.8	114.75	0.25	0	0	0	0.01
2003	119	23	754	324.559	-433.032	D	7.358	7.358	0	2.8	98.12	0.39	0	0	0	0.01
2003	120	23	1	318.65	-445.782	D	7.358	7.358	0	2.8	0	0	0	0	0	0
2003	121	23	1	318.65	-445.782	D	7.627	7.627	0	3.375	0	0	0	0	0	0
2003	122	23	2781	339.842	-425.379	D	7.648	7.639	0.009	3.4	99.32	0.67	0	0	0	0.02
2003	123	23	2758	335.862	-424.454	D	7.799	7.639	0.16	3.4	90.23	9.76	0	0	0	0.01
2003	124	23	2704	329.056	-425.092	D	7.644	7.639	0.005	3.4	99.29	0.71	0	0	0	0
2003	125	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	127	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	92.86	7.75	0	0	0	0.01
2003	128	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	129	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	137	23	2781	339.842	-425.379	D	7.64	7.639	0.002	3.4	99.43	0.58	0	0	0	0
2003	138	23	2704	329.056	-425.092	D	7.652	7.639	0.013	3.4	95.44	4.56	0	0	0	0
2003	139	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	140	23	2789	340.496	-426.449	D	7.723	7.639	0.084	3.4	81.37	18.62	0	0	0	0.01

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	141	23	2789	340.496	-426.449	D	7.659	7.639	0.02	3.4	95.37	4.62	0	0	0	0.01
2003	142	23	2781	339.842	-425.379	D	7.669	7.639	0.03	3.4	99.22	0.77	0	0	0	0.01
2003	143	23	2468	334.002	-434.887	D	7.712	7.639	0.073	3.4	98.88	1.11	0	0	0	0.01
2003	144	23	2781	339.842	-425.379	D	7.701	7.639	0.062	3.4	98.61	1.38	0	0	0	0.01
2003	145	23	2758	335.862	-424.454	D	7.707	7.639	0.068	3.4	97.08	2.91	0	0	0	0.01
2003	146	23	2589	318.383	-445.593	D	7.679	7.639	0.041	3.4	98.1	1.9	0	0	0	0.01
2003	147	23	2628	320.933	-436.998	D	7.645	7.639	0.006	3.4	97.93	2.07	0	0	0	0.02
2003	148	23	2588	318.452	-445.8	D	7.646	7.639	0.007	3.4	99.06	0.94	0	0	0	0.01
2003	149	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	62.58	0.06	0	0	0	0.01
2003	150	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	151	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	152	23	65	319.695	-441.239	D	7.659	7.639	0.02	3.4	96.54	3.46	0	0	0	0.01
2003	153	23	2628	320.933	-436.998	D	7.64	7.639	0.001	3.4	99.73	0.3	0	0	0	0
2003	154	23	2781	339.842	-425.379	D	7.668	7.639	0.029	3.4	83.44	16.56	0	0	0	0.01
2003	155	23	2429	338.563	-428.651	D	7.639	7.639	0	3.4	97.29	0.19	0	0	0	0.01
2003	156	23	2790	340.421	-426.562	D	7.659	7.639	0.021	3.4	99.53	0.47	0	0	0	0.01
2003	157	23	2781	339.842	-425.379	D	7.661	7.639	0.022	3.4	98.27	1.72	0	0	0	0.01
2003	158	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	159	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	160	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	161	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	164	23	1414	329.196	-425.335	D	7.639	7.639	0	3.4	98.17	0.13	0	0	0	0.01
2003	165	23	2758	335.862	-424.454	D	7.727	7.639	0.089	3.4	96.36	3.64	0	0	0	0.01
2003	166	23	2571	322.646	-445.476	D	7.743	7.639	0.104	3.4	96.85	3.15	0	0	0	0.01
2003	167	23	2789	340.496	-426.449	D	7.661	7.639	0.022	3.4	98.98	1.02	0	0	0	0
2003	168	23	2789	340.496	-426.449	D	7.645	7.639	0.006	3.4	98.82	1.19	0	0	0	0
2003	169	23	2468	334.002	-434.887	D	7.643	7.639	0.004	3.4	98.1	1.9	0	0	0	0
2003	170	23	2684	326.713	-427.014	D	7.671	7.639	0.032	3.4	99.56	0.43	0	0	0	0.01
2003	171	23	2790	340.421	-426.562	D	7.804	7.639	0.166	3.4	92.27	7.72	0	0	0	0.01
2003	172	23	2588	318.452	-445.8	D	7.646	7.639	0.007	3.4	99.73	0.26	0	0	0	0.01
2003	173	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	177	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	178	23	2571	322.646	-445.476	D	7.639	7.639	0	3.4	100.17	0.38	0	0	0	0.02
2003	179	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.5	0.49	0	0	0	0.01

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	180	23	2758	335.862	-424.454	D	7.641	7.639	0.002	3.4	99.74	0.26	0	0	0	0.01
2003	181	23	2781	339.842	-425.379	D	7.639	7.639	0	3.4	100.25	0.25	0	0	0	0
2003	182	23	1412	329.218	-425.834	D	7.639	7.639	0	3.4	100.22	0.76	0	0	0	0.01
2003	183	23	2409	339.158	-425.648	D	7.639	7.639	0	3.4	102.83	0.12	0	0	0	0.01
2003	184	23	2102	334.398	-424.857	D	7.639	7.639	0	3.4	94.77	0.16	0	0	0	0.01
2003	185	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	192	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	193	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	194	23	2417	339.654	-425.626	D	7.639	7.639	0	3.4	85.68	0.07	0	0	0	0.01
2003	195	23	2781	339.842	-425.379	D	7.644	7.639	0.005	3.4	98.92	1.07	0	0	0	0.01
2003	196	23	2780	339.614	-425.419	D	7.639	7.639	0	3.4	99.53	0.06	0	0	0	0.01
2003	197	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	198	23	2789	340.496	-426.449	D	7.639	7.639	0.001	3.4	100.16	0.23	0	0	0	0.01
2003	199	23	2418	339.946	-426.612	D	7.639	7.639	0	3.4	100.05	0.08	0	0	0	0.01
2003	200	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	201	23	2397	338.413	-425.68	D	7.639	7.639	0	3.4	99.83	0.49	0	0	0	0
2003	202	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	203	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	204	23	2704	329.056	-425.092	D	7.661	7.639	0.022	3.4	96.05	3.93	0	0	0	0.03
2003	205	23	2684	326.713	-427.014	D	7.743	7.639	0.105	3.4	99.14	0.85	0	0	0	0.01
2003	206	23	2710	330.44	-424.955	D	7.65	7.639	0.011	3.4	99.51	0.49	0	0	0	0.01
2003	207	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	208	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	210	23	2781	339.842	-425.379	D	7.65	7.639	0.011	3.4	96.14	3.87	0	0	0	0.01
2003	211	23	2781	339.842	-425.379	D	7.679	7.639	0.04	3.4	97.38	2.61	0	0	0	0.01
2003	212	23	2789	340.496	-426.449	D	7.674	7.639	0.035	3.4	98.51	1.49	0	0	0	0
2003	213	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	99.19	0.81	0	0	0	0
2003	214	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.71	0.22	0	0	0	0
2003	215	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	216	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	217	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	218	23	2694	327.861	-425.964	D	7.664	7.639	0.025	3.4	99.64	0.35	0	0	0	0.01

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	219	23	2589	318.383	-445.593	D	7.823	7.639	0.184	3.4	96.43	3.56	0	0	0	0.01
2003	220	23	2468	334.002	-434.887	D	7.761	7.639	0.122	3.4	99.19	0.8	0	0	0	0.01
2003	221	23	2589	318.383	-445.593	D	7.707	7.639	0.068	3.4	99.66	0.33	0	0	0	0.01
2003	222	23	2628	320.933	-436.998	D	7.721	7.639	0.082	3.4	99.69	0.3	0	0	0	0.01
2003	223	23	2588	318.452	-445.8	D	7.75	7.639	0.111	3.4	99.49	0.5	0	0	0	0.01
2003	224	23	2588	318.452	-445.8	D	7.64	7.639	0.001	3.4	99.27	0.63	0	0	0	0.01
2003	225	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	230	23	2789	340.496	-426.449	D	7.64	7.639	0.001	3.4	99.93	0.05	0	0	0	0.01
2003	231	23	2789	340.496	-426.449	D	7.651	7.639	0.012	3.4	99.72	0.28	0	0	0	0.01
2003	232	23	2789	340.496	-426.449	D	7.648	7.639	0.009	3.4	99.54	0.48	0	0	0	0.01
2003	233	23	2789	340.496	-426.449	D	7.643	7.639	0.004	3.4	99.55	0.49	0	0	0	0
2003	234	23	2789	340.496	-426.449	D	7.642	7.639	0.003	3.4	99.72	0.32	0	0	0	0
2003	235	23	2704	329.056	-425.092	D	7.675	7.639	0.036	3.4	99.83	0.17	0	0	0	0.01
2003	236	23	2571	322.646	-445.476	D	7.721	7.639	0.083	3.4	97.8	2.19	0	0	0	0.01
2003	237	23	2684	326.713	-427.014	D	7.676	7.639	0.037	3.4	99.71	0.28	0	0	0	0.01
2003	238	23	2758	335.862	-424.454	D	7.643	7.639	0.004	3.4	99.98	0.04	0	0	0	0.01
2003	239	23	2397	338.413	-425.68	D	7.639	7.639	0	3.4	100.77	0.05	0	0	0	0
2003	240	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	242	23	2155	334.883	-424.586	D	7.639	7.639	0	3.4	71.36	0.64	0	0	0	0
2003	243	23	2040	333.912	-425.128	D	7.639	7.639	0	3.4	91.87	3.12	0	0	0	0.01
2003	244	23	1	318.65	-445.782	D	7.727	7.727	0	3.592	0	0	0	0	0	0
2003	245	23	2684	326.713	-427.014	D	7.742	7.731	0.011	3.6	99.45	0.55	0	0	0	0.01
2003	246	23	2589	318.383	-445.593	D	7.833	7.731	0.103	3.6	94.31	5.68	0	0	0	0.01
2003	247	23	2789	340.496	-426.449	D	7.815	7.731	0.084	3.6	97.84	2.14	0	0	0	0.01
2003	248	23	2628	320.933	-436.998	D	7.802	7.731	0.071	3.6	96.63	3.35	0	0	0	0.02
2003	249	23	2588	318.452	-445.8	D	7.731	7.731	0.001	3.6	99.77	0.24	0	0	0	0.01
2003	250	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	251	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	255	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	257	23	2781	339.842	-425.379	D	7.779	7.731	0.049	3.6	84.64	15.35	0	0	0	0.01

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	258	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	259	23	2789	340.496	-426.449	D	7.732	7.731	0.002	3.6	99.49	0.5	0	0	0	0.01
2003	260	23	2789	340.496	-426.449	D	7.742	7.731	0.012	3.6	98.8	1.19	0	0	0	0.01
2003	261	23	2758	335.862	-424.454	D	7.731	7.731	0.001	3.6	99.48	0.53	0	0	0	0.01
2003	262	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	263	23	2789	340.496	-426.449	D	7.761	7.731	0.031	3.6	98.33	1.65	0	0	0	0.01
2003	264	23	2704	329.056	-425.092	D	7.743	7.731	0.013	3.6	99.24	0.76	0	0	0	0.01
2003	265	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	266	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	267	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	268	23	2684	326.713	-427.014	D	7.737	7.731	0.006	3.6	76.63	23.26	0	0	0	0.11
2003	269	23	2789	340.496	-426.449	D	7.733	7.731	0.002	3.6	96.17	3.81	0	0	0	0.01
2003	270	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	271	23	1	318.65	-445.782	D	7.731	7.731	0	3.6	0	0	0	0	0	0
2003	272	23	2789	340.496	-426.449	D	7.735	7.731	0.004	3.6	73.52	26.44	0	0	0	0.05
2003	273	23	2468	334.002	-434.887	D	7.741	7.731	0.01	3.6	96.21	3.77	0	0	0	0.02
2003	274	23	2781	339.842	-425.379	D	7.616	7.598	0.018	3.313	79.28	20.73	0	0	0	0.01
2003	275	23	2656	324.557	-432.909	D	7.598	7.593	0.005	3.3	82.87	17.09	0	0	0	0.04
2003	276	23	2628	320.933	-436.998	D	7.595	7.593	0.002	3.3	95.1	4.88	0	0	0	0.02
2003	277	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	278	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	96.72	3.26	0	0	0	0.01
2003	279	23	2789	340.496	-426.449	D	7.614	7.593	0.022	3.3	95.08	4.91	0	0	0	0.01
2003	280	23	2628	320.933	-436.998	D	7.614	7.593	0.021	3.3	98.06	1.94	0	0	0	0.01
2003	281	23	1414	329.196	-425.335	D	7.593	7.593	0	3.3	99.83	0.25	0	0	0	0.01
2003	282	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	283	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	284	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	285	23	2789	340.496	-426.449	D	7.6	7.593	0.007	3.3	97.5	2.48	0	0	0	0.02
2003	286	23	2789	340.496	-426.449	D	7.613	7.593	0.02	3.3	97.49	2.5	0	0	0	0.01
2003	287	23	2781	339.842	-425.379	D	7.594	7.593	0.001	3.3	91.02	8.99	0	0	0	0
2003	288	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	289	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	290	23	2628	320.933	-436.998	D	7.597	7.593	0.005	3.3	87.83	12.16	0	0	0	0.01
2003	291	23	2684	326.713	-427.014	D	7.609	7.593	0.017	3.3	95.72	4.27	0	0	0	0.02
2003	292	23	2781	339.842	-425.379	D	7.596	7.593	0.003	3.3	99.14	0.85	0	0	0	0.01
2003	293	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	294	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	295	23	2694	327.861	-425.964	D	7.606	7.593	0.013	3.3	99.43	0.55	0	0	0	0.03
2003	296	23	2588	318.452	-445.8	D	7.626	7.593	0.033	3.3	98.59	1.38	0	0	0	0.02

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	297	23	2789	340.496	-426.449	D	7.594	7.593	0.002	3.3	97.15	2.81	0	0	0	0.02
2003	298	23	2749	333.775	-424.726	D	7.699	7.593	0.107	3.3	75.74	24.25	0	0	0	0.01
2003	299	23	2571	322.646	-445.476	D	7.617	7.593	0.025	3.3	75.22	24.77	0	0	0	0
2003	300	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	301	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	304	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	305	23	2781	339.842	-425.379	D	7.56	7.548	0.012	3.204	77.19	22.79	0	0	0	0.03
2003	306	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	307	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	308	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	309	23	2781	339.842	-425.379	D	7.554	7.546	0.008	3.2	89.36	10.64	0	0	0	0.02
2003	310	23	2781	339.842	-425.379	D	7.612	7.546	0.066	3.2	74.82	25.18	0	0	0	0.01
2003	311	23	2468	334.002	-434.887	D	7.601	7.546	0.055	3.2	75.57	24.42	0	0	0	0.01
2003	312	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	314	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	316	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	317	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	318	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	319	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	320	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	322	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	323	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	324	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	327	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	328	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	331	23	2789	340.496	-426.449	D	7.549	7.546	0.002	3.2	80.95	19.04	0	0	0	0.01
2003	332	23	2789	340.496	-426.449	D	7.547	7.546	0.001	3.2	82.45	17.54	0	0	0	0
2003	333	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	335	23	2684	326.713	-427.014	D	7.616	7.591	0.025	3.296	45.95	53.99	0	0	0	0.07

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	336	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	337	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	338	23	2781	339.842	-425.379	D	7.626	7.593	0.034	3.3	81.52	18.47	0	0	0	0.01
2003	339	23	2468	334.002	-434.887	D	7.594	7.593	0.001	3.3	85.71	14.22	0	0	0	0.01
2003	340	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	341	23	2789	340.496	-426.449	D	7.597	7.593	0.004	3.3	67.88	32.14	0	0	0	0.01
2003	342	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	344	23	2758	335.862	-424.454	D	7.609	7.593	0.016	3.3	81.72	18.28	0	0	0	0.01
2003	345	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	346	23	2789	340.496	-426.449	D	7.6	7.593	0.008	3.3	74.63	25.38	0	0	0	0.01
2003	347	23	2589	318.383	-445.593	D	7.597	7.593	0.004	3.3	75.01	24.96	0	0	0	0.01
2003	348	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	349	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	350	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	354	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	355	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	356	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	357	23	2789	340.496	-426.449	D	7.594	7.593	0.001	3.3	32.37	67.65	0	0	0	0.05
2003	358	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	359	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	360	23	2789	340.496	-426.449	D	7.593	7.593	0	3.3	79.4	21.5	0	0	0	0.01
2003	361	23	2385	338.165	-425.691	D	7.593	7.593	0	3.3	12.68	2.4	0	0	0	0
2003	362	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	7.593	7.593	0	3.3	0	0	0	0	0	0
									0.184							
HOLCIM									**DELTA**		**% of Modeled Extinction by Species**					
YEAR	**DAY**	**HR**	**RECEPTOR**	**COORDINATES**	**(km)**	**TYPE**	**DV(Total)**	**DV(BKG)**	**DV**	**F(RH)**	**%_SO4**	**%_NO3**	**%_OC**	**%_EC**	**%_PMC**	**%_PMF**
2003	1	23	1	318.65	-445.782	D	6.999	6.999	0	2.056	0	0	0	0	0	0
2003	2	23	2709	330.21	-424.978	D	9.571	9.354	0.217	7.456	18.5	81.37	0	0	0	0.13
2003	3	23	1	318.65	-445.782	D	7.872	7.872	0	3.912	0	0	0	0	0	0
2003	4	23	1	318.65	-445.782	D	6.784	6.784	0	1.624	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	5	23	1	318.65	-445.782	D	7.26	7.26	0	2.595	0	0	0	0	0	0
2003	6	23	1	318.65	-445.782	D	8.242	8.242	0	4.748	0	0	0	0	0	0
2003	7	23	1	318.65	-445.782	D	7.239	7.239	0	2.55	0	0	0	0	0	0
2003	8	23	1	318.65	-445.782	D	6.71	6.71	0	1.477	0	0	0	0	0	0
2003	9	23	1	318.65	-445.782	D	6.922	6.922	0	1.9	0	0	0	0	0	0
2003	10	23	1	318.65	-445.782	D	6.587	6.587	0	1.234	0	0	0	0	0	0
2003	11	23	1	318.65	-445.782	D	6.549	6.549	0	1.161	0	0	0	0	0	0
2003	12	23	1	318.65	-445.782	D	6.5	6.5	0	1.066	0	0	0	0	0	0
2003	13	23	1	318.65	-445.782	D	6.708	6.708	0	1.473	0	0	0	0	0	0
2003	14	23	1	318.65	-445.782	D	9.224	9.224	0	7.124	0	0	0	0	0	0
2003	15	23	1	318.65	-445.782	D	6.625	6.625	0	1.309	0	0	0	0	0	0
2003	16	23	2767	337.165	-425.117	D	8.639	8.274	0.364	4.822	50.08	49.79	0	0	0	0.13
2003	17	23	2468	334.002	-434.887	D	8.105	8.101	0.005	4.425	57.77	42.19	0	0	0	0.06
2003	18	23	1	318.65	-445.782	D	6.57	6.57	0	1.203	0	0	0	0	0	0
2003	19	23	1	318.65	-445.782	D	6.651	6.651	0	1.361	0	0	0	0	0	0
2003	20	23	1	318.65	-445.782	D	6.624	6.624	0	1.308	0	0	0	0	0	0
2003	21	23	2784	339.87	-426.019	D	7.664	7.533	0.131	3.171	47.63	52.28	0	0	0	0.08
2003	22	23	2706	329.518	-425.046	D	7.802	7.571	0.23	3.254	24.85	74.63	0	0	0	0.52
2003	23	23	1	318.65	-445.782	D	6.876	6.876	0	1.806	0	0	0	0	0	0
2003	24	23	1	318.65	-445.782	D	6.593	6.593	0	1.246	0	0	0	0	0	0
2003	25	23	1	318.65	-445.782	D	6.497	6.497	0	1.06	0	0	0	0	0	0
2003	26	23	1	318.65	-445.782	D	7.121	7.121	0	2.305	0	0	0	0	0	0
2003	27	23	1	318.65	-445.782	D	6.778	6.778	0	1.612	0	0	0	0	0	0
2003	28	23	1	318.65	-445.782	D	8.235	8.235	0	4.732	0	0	0	0	0	0
2003	29	23	2789	340.496	-426.449	D	9.799	9.793	0.006	8.612	59.68	40.19	0	0	0	0.12
2003	30	23	2704	329.056	-425.092	D	9.818	9.151	**0.667**	6.94	64.68	35.27	0	0	0	0.05
2003	31	23	1415	329.185	-425.086	D	7.067	7.067	0	2.196	80.31	19.45	0	0	0	0.3
2003	32	23	1	318.65	-445.782	D	6.936	6.936	0	1.929	0	0	0	0	0	0
2003	33	23	1	318.65	-445.782	D	6.87	6.87	0	1.795	0	0	0	0	0	0
2003	34	23	1	318.65	-445.782	D	9.527	9.527	0	7.906	0	0	0	0	0	0
2003	35	23	1	318.65	-445.782	D	7.1	7.1	0	2.263	0	0	0	0	0	0
2003	36	23	1	318.65	-445.782	D	6.56	6.56	0	1.182	0	0	0	0	0	0
2003	37	23	2781	339.842	-425.379	D	9.214	9.182	0.032	7.018	56.51	43.44	0	0	0	0.04
2003	38	23	2789	340.496	-426.449	D	8.107	8.011	0.097	4.221	59.31	40.66	0	0	0	0.03
2003	39	23	1	318.65	-445.782	D	6.79	6.79	0	1.635	0	0	0	0	0	0
2003	40	23	1	318.65	-445.782	D	7.657	7.657	0	3.439	0	0	0	0	0	0
2003	41	23	1	318.65	-445.782	D	9.339	9.339	0	7.418	0	0	0	0	0	0
2003	42	23	1	318.65	-445.782	D	6.733	6.733	0	1.522	0	0	0	0	0	0
2003	43	23	1	318.65	-445.782	D	6.521	6.521	0	1.107	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	44	23	1	318.65	-445.782	D	6.659	6.659	0	1.376	0	0	0	0	0	0
2003	45	23	1	318.65	-445.782	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2003	46	23	1	318.65	-445.782	D	10.176	10.176	0	9.662	0	0	0	0	0	0
2003	47	23	2781	339.842	-425.379	D	8.891	8.654	0.237	5.716	35.27	64.51	0	0	0	0.22
2003	48	23	2789	340.496	-426.449	D	8.999	8.273	**0.725**	4.82	61.02	38.89	0	0	0	0.08
2003	49	23	1	318.65	-445.782	D	6.86	6.86	0	1.776	0	0	0	0	0	0
2003	50	23	2379	338.23	-427.187	D	9.195	9.195	0	7.051	68.38	25.37	0	0	0	0.05
2003	51	23	2704	329.056	-425.092	D	10.656	9.524	**1.132**	7.899	66.09	33.87	0	0	0	0.04
2003	52	23	2789	340.496	-426.449	D	9.764	9.679	0.085	8.307	75.6	24.37	0	0	0	0.02
2003	53	23	2789	340.496	-426.449	D	9.637	9.493	0.144	7.818	66.3	33.62	0	0	0	0.08
2003	54	23	1	318.65	-445.782	D	8.727	8.727	0	5.892	0	0	0	0	0	0
2003	55	23	2781	339.842	-425.379	D	8.612	8.461	0.151	5.257	58.44	41.51	0	0	0	0.05
2003	56	23	2789	340.496	-426.449	D	7.461	7.411	0.05	2.913	37.07	62.62	0	0	0	0.32
2003	57	23	2789	340.496	-426.449	D	9.07	8.558	**0.512**	5.487	46.7	53.23	0	0	0	0.07
2003	58	23	2693	327.829	-426.17	D	8.984	8.768	0.216	5.991	57.8	42.15	0	0	0	0.05
2003	59	23	2694	327.861	-425.964	D	9.069	8.967	0.102	6.48	65.6	34.35	0	0	0	0.04
2003	60	23	2706	329.518	-425.046	D	9.673	9.651	0.022	8.233	70.48	29.49	0	0	0	0.03
2003	61	23	2781	339.842	-425.379	D	9.152	9.119	0.032	6.86	72.6	27.37	0	0	0	0.03
2003	62	23	2789	340.496	-426.449	D	7.374	7.373	0	2.832	77.18	21.49	0	0	0	0.14
2003	63	23	1	318.65	-445.782	D	7.002	7.002	0	2.063	0	0	0	0	0	0
2003	64	23	1	318.65	-445.782	D	9.117	9.117	0	6.855	0	0	0	0	0	0
2003	65	23	2789	340.496	-426.449	D	7.573	7.573	0	3.258	69.74	29.91	0	0	0	0.62
2003	66	23	2789	340.496	-426.449	D	6.951	6.945	0.006	1.946	65.93	33.8	0	0	0	0.25
2003	67	23	2781	339.842	-425.379	D	7.068	7.068	0	2.196	91.03	8.94	0	0	0	0.28
2003	68	23	1	318.65	-445.782	D	7.068	7.068	0	2.198	0	0	0	0	0	0
2003	69	23	2789	340.496	-426.449	D	6.561	6.547	0.014	1.158	50.61	48.48	0	0	0	0.9
2003	70	23	2789	340.496	-426.449	D	6.602	6.546	0.057	1.155	61.6	37.83	0	0	0	0.57
2003	71	23	2789	340.496	-426.449	D	7.117	7.113	0.004	2.289	85.53	14.04	0	0	0	0.44
2003	72	23	1	318.65	-445.782	D	8.466	8.466	0	5.269	0	0	0	0	0	0
2003	73	23	2694	327.861	-425.964	D	9.202	8.674	**0.528**	5.764	68.51	31.43	0	0	0	0.06
2003	74	23	2684	326.713	-427.014	D	8.199	8.138	0.061	4.509	84.47	15.45	0	0	0	0.08
2003	75	23	2707	329.748	-425.023	D	7.29	7.289	0	2.656	97.12	1.26	0	0	0	0.22
2003	76	23	1	318.65	-445.782	D	8.644	8.644	0	5.692	0	0	0	0	0	0
2003	77	23	1	318.65	-445.782	D	8.653	8.653	0	5.713	0	0	0	0	0	0
2003	78	23	1	318.65	-445.782	D	8.871	8.871	0	6.244	0	0	0	0	0	0
2003	79	23	2758	335.862	-424.454	D	9.22	9.213	0.007	7.097	59.58	40.36	0	0	0	0.05
2003	80	23	2781	339.842	-425.379	D	8.959	8.832	0.127	6.147	62.1	37.86	0	0	0	0.04
2003	81	23	1	318.65	-445.782	D	6.545	6.545	0	1.154	0	0	0	0	0	0
2003	82	23	1	318.65	-445.782	D	6.586	6.586	0	1.234	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	83	23	1	318.65	-445.782	D	6.82	6.82	0	1.696	0	0	0	0	0	0
2003	84	23	1	318.65	-445.782	D	7.607	7.607	0	3.331	0	0	0	0	0	0
2003	85	23	2468	334.002	-434.887	D	9.065	8.823	0.242	6.126	44.86	54.95	0	0	0	0.19
2003	86	23	2628	320.933	-436.998	D	6.629	6.616	0.012	1.292	86.41	12.79	0	0	0	0.8
2003	87	23	1	318.65	-445.782	D	8.676	8.676	0	5.769	0	0	0	0	0	0
2003	88	23	1	318.65	-445.782	D	7.301	7.301	0	2.679	0	0	0	0	0	0
2003	89	23	1	318.65	-445.782	D	6.525	6.525	0	1.115	0	0	0	0	0	0
2003	90	23	1	318.65	-445.782	D	6.478	6.478	0	1.023	0	0	0	0	0	0
2003	91	23	1	318.65	-445.782	D	6.547	6.547	0	1.157	0	0	0	0	0	0
2003	92	23	1	318.65	-445.782	D	6.893	6.893	0	1.842	0	0	0	0	0	0
2003	93	23	1	318.65	-445.782	D	7.231	7.231	0	2.533	0	0	0	0	0	0
2003	94	23	1	318.65	-445.782	D	8.075	8.075	0	4.366	0	0	0	0	0	0
2003	95	23	1	318.65	-445.782	D	6.747	6.747	0	1.55	0	0	0	0	0	0
2003	96	23	2781	339.842	-425.379	D	8.08	8.057	0.024	4.325	65.9	34.06	0	0	0	0.05
2003	97	23	1	318.65	-445.782	D	9.082	9.082	0	6.766	0	0	0	0	0	0
2003	98	23	2789	340.496	-426.449	D	7.434	7.431	0.002	2.955	66.3	33.47	0	0	0	0.16
2003	99	23	1	318.65	-445.782	D	6.95	6.95	0	1.956	0	0	0	0	0	0
2003	100	23	2789	340.496	-426.449	D	6.594	6.591	0.002	1.244	41.12	57.69	0	0	0	1.15
2003	101	23	2789	340.496	-426.449	D	6.49	6.479	0.011	1.025	89.65	9.47	0	0	0	0.89
2003	102	23	2789	340.496	-426.449	D	6.499	6.495	0.003	1.057	97.34	2.11	0	0	0	0.55
2003	103	23	1	318.65	-445.782	D	6.523	6.523	0	1.11	0	0	0	0	0	0
2003	104	23	1	318.65	-445.782	D	6.676	6.676	0	1.411	0	0	0	0	0	0
2003	105	23	1	318.65	-445.782	D	6.637	6.637	0	1.334	0	0	0	0	0	0
2003	106	23	1	318.65	-445.782	D	6.669	6.669	0	1.396	0	0	0	0	0	0
2003	107	23	1	318.65	-445.782	D	7.437	7.437	0	2.967	0	0	0	0	0	0
2003	108	23	1	318.65	-445.782	D	7.49	7.49	0	3.08	0	0	0	0	0	0
2003	109	23	1	318.65	-445.782	D	7.406	7.406	0	2.902	0	0	0	0	0	0
2003	110	23	1	318.65	-445.782	D	9.045	9.045	0	6.674	0	0	0	0	0	0
2003	111	23	1	318.65	-445.782	D	7.014	7.014	0	2.087	0	0	0	0	0	0
2003	112	23	1	318.65	-445.782	D	6.538	6.538	0	1.139	0	0	0	0	0	0
2003	113	23	2789	340.496	-426.449	D	6.605	6.588	0.017	1.237	96.6	2.82	0	0	0	0.57
2003	114	23	2704	329.056	-425.092	D	8.026	8.025	0.001	4.255	89.75	10.02	0	0	0	0.25
2003	115	23	2758	335.862	-424.454	D	8.483	8.425	0.059	5.173	88.34	11.47	0	0	0	0.19
2003	116	23	2789	340.496	-426.449	D	8.711	8.355	0.356	5.009	64.86	34.97	0	0	0	0.17
2003	117	23	2600	318.952	-443.12	D	7.086	7.057	0.028	2.175	89.69	10.09	0	0	0	0.21
2003	118	23	2275	336.168	-425.529	D	7.47	7.47	0	3.038	95.63	0.65	0	0	0	0.23
2003	119	23	2780	339.614	-425.419	D	7.485	7.484	0.001	3.068	93.61	6.28	0	0	0	0.09
2003	120	23	1517	329.93	-425.053	D	8.151	8.151	0	4.54	97.23	1.58	0	0	0	0.08
2003	121	23	1	318.65	-445.782	D	7.624	7.624	0	3.367	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	122	23	1	318.65	-445.782	D	8.826	8.826	0	6.133	0	0	0	0	0	0
2003	123	23	2789	340.496	-426.449	D	8.707	8.507	0.2	5.366	87.19	12.67	0	0	0	0.13
2003	124	23	2255	335.942	-426.039	D	7.5	7.318	0.182	2.716	98.19	1.69	0	0	0	0.12
2003	125	23	1	318.65	-445.782	D	8.789	8.789	0	6.042	0	0	0	0	0	0
2003	126	23	1	318.65	-445.782	D	8.385	8.385	0	5.081	0	0	0	0	0	0
2003	127	23	2781	339.842	-425.379	D	8.588	8.583	0.004	5.548	77.89	22.01	0	0	0	0.11
2003	128	23	1	318.65	-445.782	D	8.057	8.057	0	4.326	0	0	0	0	0	0
2003	129	23	1	318.65	-445.782	D	7.642	7.642	0	3.407	0	0	0	0	0	0
2003	130	23	1	318.65	-445.782	D	8.486	8.486	0	5.317	0	0	0	0	0	0
2003	131	23	1	318.65	-445.782	D	7.409	7.409	0	2.907	0	0	0	0	0	0
2003	132	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	133	23	1	318.65	-445.782	D	6.899	6.899	0	1.854	0	0	0	0	0	0
2003	134	23	1	318.65	-445.782	D	9.399	9.399	0	7.572	0	0	0	0	0	0
2003	135	23	1	318.65	-445.782	D	8.763	8.763	0	5.98	0	0	0	0	0	0
2003	136	23	1	318.65	-445.782	D	9.31	9.31	0	7.344	0	0	0	0	0	0
2003	137	23	2779	339.386	-425.461	D	9.372	9.371	0.001	7.5	97.8	1.84	0	0	0	0.11
2003	138	23	2684	326.713	-427.014	D	9.191	9.093	0.098	6.795	71.17	28.77	0	0	0	0.06
2003	139	23	2628	320.933	-436.998	D	8.783	8.783	0	6.027	99.37	0.56	0	0	0	0.16
2003	140	23	2708	329.979	-425	D	8.352	8.292	0.06	4.863	89.33	10.63	0	0	0	0.04
2003	141	23	2552	324.659	-442.591	D	6.811	6.723	0.088	1.502	87.27	12.08	0	0	0	0.65
2003	142	23	2596	318.977	-444.095	D	7.507	7.283	0.224	2.641	89.56	10.2	0	0	0	0.24
2003	143	23	2781	339.842	-425.379	D	6.911	6.676	0.235	1.409	95.17	4.35	0	0	0	0.48
2003	144	23	2789	340.496	-426.449	D	8.102	7.793	0.309	3.737	96.9	2.96	0	0	0	0.14
2003	145	23	2781	339.842	-425.379	D	9.635	9.204	0.431	7.074	88.86	11.07	0	0	0	0.08
2003	146	23	2447	336.137	-430.956	D	9.112	8.253	**0.859**	4.773	90.44	9.51	0	0	0	0.05
2003	147	23	2789	340.496	-426.449	D	6.822	6.656	0.167	1.369	90.46	9.11	0	0	0	0.43
2003	148	23	1	318.65	-445.782	D	6.596	6.596	0	1.253	0	0	0	0	0	0
2003	149	23	1	318.65	-445.782	D	7.175	7.175	0	2.418	0	0	0	0	0	0
2003	150	23	1	318.65	-445.782	D	6.614	6.614	0	1.289	0	0	0	0	0	0
2003	151	23	1	318.65	-445.782	D	7.098	7.098	0	2.258	0	0	0	0	0	0
2003	152	23	2789	340.496	-426.449	D	7.229	7.169	0.061	2.404	85.95	13.79	0	0	0	0.27
2003	153	23	2704	329.056	-425.092	D	8.713	8.693	0.02	5.81	97.45	2.41	0	0	0	0.14
2003	154	23	2781	339.842	-425.379	D	9.312	9.118	0.194	6.857	93.84	5.88	0	0	0	0.27
2003	155	23	2789	340.496	-426.449	D	7.687	7.66	0.027	3.446	96.56	3.17	0	0	0	0.26
2003	156	23	1	318.65	-445.782	D	6.821	6.821	0	1.697	0	0	0	0	0	0
2003	157	23	2789	340.496	-426.449	D	8.693	8.688	0.005	5.798	97.15	2.77	0	0	0	0.06
2003	158	23	2789	340.496	-426.449	D	7.561	7.56	0	3.23	87.55	12.01	0	0	0	0.1
2003	159	23	1	318.65	-445.782	D	7.001	7.001	0	2.06	0	0	0	0	0	0
2003	160	23	1	318.65	-445.782	D	6.621	6.621	0	1.301	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	161	23	1	318.65	-445.782	D	7.499	7.499	0	3.098	0	0	0	0	0	0
2003	162	23	1	318.65	-445.782	D	8.817	8.817	0	6.112	0	0	0	0	0	0
2003	163	23	1	318.65	-445.782	D	8.874	8.874	0	6.251	0	0	0	0	0	0
2003	164	23	2757	335.63	-424.484	D	9.213	9.212	0	7.095	98.91	0.5	0	0	0	0.23
2003	165	23	2709	330.21	-424.978	D	9.278	8.299	**0.98**	4.879	87.96	11.99	0	0	0	0.05
2003	166	23	2781	339.842	-425.379	D	9.405	8.119	**1.286**	4.467	83.16	16.76	0	0	0	0.08
2003	167	23	2597	318.971	-443.851	D	8.138	8.097	0.041	4.417	97.46	2.39	0	0	0	0.15
2003	168	23	12	319.07	-444.015	D	7.657	7.645	0.012	3.413	93.98	5.9	0	0	0	0.11
2003	169	23	2695	328.074	-426.025	D	8.941	8.936	0.005	6.402	97.65	2.28	0	0	0	0.05
2003	170	23	2781	339.842	-425.379	D	8.86	8.536	0.324	5.436	96.72	3.16	0	0	0	0.11
2003	171	23	2758	335.862	-424.454	D	9.632	8.408	**1.224**	5.133	89.74	10.2	0	0	0	0.05
2003	172	23	2588	318.452	-445.8	D	6.973	6.969	0.004	1.995	99.24	0.56	0	0	0	0.2
2003	173	23	1	318.65	-445.782	D	6.92	6.92	0	1.897	0	0	0	0	0	0
2003	174	23	1	318.65	-445.782	D	7.108	7.108	0	2.279	0	0	0	0	0	0
2003	175	23	1	318.65	-445.782	D	7.784	7.784	0	3.718	0	0	0	0	0	0
2003	176	23	1	318.65	-445.782	D	8.399	8.399	0	5.113	0	0	0	0	0	0
2003	177	23	1	318.65	-445.782	D	8.699	8.699	0	5.825	0	0	0	0	0	0
2003	178	23	1	318.65	-445.782	D	6.832	6.832	0	1.719	0	0	0	0	0	0
2003	179	23	2789	340.496	-426.449	D	6.658	6.647	0.011	1.352	98.37	1.12	0	0	0	0.49
2003	180	23	2781	339.842	-425.379	D	6.731	6.717	0.015	1.49	98.66	1.01	0	0	0	0.31
2003	181	23	2781	339.842	-425.379	D	7.104	7.102	0.002	2.267	98.03	1.75	0	0	0	0.18
2003	182	23	2708	329.979	-425	D	8.863	8.86	0.003	6.216	97.07	2.76	0	0	0	0.05
2003	183	23	2781	339.842	-425.379	D	7.561	7.56	0.001	3.23	97.5	2.4	0	0	0	0.08
2003	184	23	2411	339.428	-426.135	D	7.376	7.375	0	2.836	97.52	0.18	0	0	0	0.11
2003	185	23	1	318.65	-445.782	D	6.948	6.948	0	1.953	0	0	0	0	0	0
2003	186	23	1	318.65	-445.782	D	7.233	7.233	0	2.538	0	0	0	0	0	0
2003	187	23	1	318.65	-445.782	D	8.318	8.318	0	4.923	0	0	0	0	0	0
2003	188	23	1	318.65	-445.782	D	7.459	7.459	0	3.013	0	0	0	0	0	0
2003	189	23	1	318.65	-445.782	D	7.086	7.086	0	2.234	0	0	0	0	0	0
2003	190	23	1	318.65	-445.782	D	7.739	7.739	0	3.619	0	0	0	0	0	0
2003	191	23	1	318.65	-445.782	D	8.593	8.593	0	5.571	0	0	0	0	0	0
2003	192	23	1	318.65	-445.782	D	7.285	7.285	0	2.647	0	0	0	0	0	0
2003	193	23	1	318.65	-445.782	D	7.83	7.83	0	3.819	0	0	0	0	0	0
2003	194	23	1	318.65	-445.782	D	7.262	7.262	0	2.597	0	0	0	0	0	0
2003	195	23	2781	339.842	-425.379	D	8.452	8.448	0.005	5.227	96.15	3.77	0	0	0	0.05
2003	196	23	1	318.65	-445.782	D	7.902	7.902	0	3.979	0	0	0	0	0	0
2003	197	23	1	318.65	-445.782	D	6.957	6.957	0	1.972	0	0	0	0	0	0
2003	198	23	1	318.65	-445.782	D	7.183	7.183	0	2.433	0	0	0	0	0	0
2003	199	23	2789	340.496	-426.449	D	7.121	7.116	0.005	2.295	99.63	0.12	0	0	0	0.24

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES (km)		TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	200	23	2789	340.496	-426.449	D	7.721	7.719	0.002	3.574	99.69	0.19	0	0	0	0.16
2003	201	23	1	318.65	-445.782	D	8.338	8.338	0	4.97	0	0	0	0	0	0
2003	202	23	1	318.65	-445.782	D	8.079	8.079	0	4.375	0	0	0	0	0	0
2003	203	23	1	318.65	-445.782	D	7.552	7.552	0	3.213	0	0	0	0	0	0
2003	204	23	2789	340.496	-426.449	D	7.041	7.04	0.001	2.139	98.02	0.87	0	0	0	1.01
2003	205	23	2789	340.496	-426.449	D	7.183	6.943	0.24	1.942	96.35	3.33	0	0	0	0.32
2003	206	23	2758	335.862	-424.454	D	7.237	7.088	0.148	2.239	97.65	2.16	0	0	0	0.19
2003	207	23	2755	335.167	-424.545	D	6.837	6.836	0	1.728	99.31	0.12	0	0	0	0.28
2003	208	23	1	318.65	-445.782	D	7.085	7.085	0	2.232	0	0	0	0	0	0
2003	209	23	1	318.65	-445.782	D	7.085	7.085	0	2.233	0	0	0	0	0	0
2003	210	23	2781	339.842	-425.379	D	8.465	8.415	0.05	5.151	99.43	0.51	0	0	0	0.06
2003	211	23	2781	339.842	-425.379	D	9.667	9.347	0.319	7.44	94.15	5.8	0	0	0	0.04
2003	212	23	2789	340.496	-426.449	D	7.849	7.607	0.242	3.331	96.31	3.61	0	0	0	0.08
2003	213	23	2468	334.002	-434.887	D	6.918	6.894	0.024	1.843	99.43	0.45	0	0	0	0.13
2003	214	23	2250	335.996	-427.285	D	7.678	7.672	0.007	3.471	99.54	0.38	0	0	0	0.07
2003	215	23	1	318.65	-445.782	D	7.59	7.59	0	3.294	0	0	0	0	0	0
2003	216	23	1	318.65	-445.782	D	7.802	7.802	0	3.758	0	0	0	0	0	0
2003	217	23	1	318.65	-445.782	D	8.259	8.259	0	4.787	0	0	0	0	0	0
2003	218	23	2784	339.87	-426.019	D	8.643	8.603	0.04	5.595	99.3	0.51	0	0	0	0.18
2003	219	23	2563	323.259	-443.79	D	10.211	8.443	**1.768**	5.214	90	9.92	0	0	0	0.07
2003	220	23	2588	318.452	-445.8	D	7.238	7.094	0.144	2.25	98.4	1.37	0	0	0	0.23
2003	221	23	2255	335.942	-426.039	D	7.347	6.982	0.365	2.022	97.63	2.06	0	0	0	0.3
2003	222	23	2789	340.496	-426.449	D	7.305	7.144	0.161	2.352	98.3	1.38	0	0	0	0.32
2003	223	23	2571	322.646	-445.476	D	7.821	7.272	**0.548**	2.62	98.36	1.46	0	0	0	0.18
2003	224	23	2684	326.713	-427.014	D	7.304	7.109	0.195	2.28	95.3	4.5	0	0	0	0.19
2003	225	23	1	318.65	-445.782	D	8.321	8.321	0	4.931	0	0	0	0	0	0
2003	226	23	1	318.65	-445.782	D	8.753	8.753	0	5.955	0	0	0	0	0	0
2003	227	23	1	318.65	-445.782	D	7.337	7.337	0	2.755	0	0	0	0	0	0
2003	228	23	1	318.65	-445.782	D	7.347	7.347	0	2.776	0	0	0	0	0	0
2003	229	23	1	318.65	-445.782	D	6.982	6.982	0	2.021	0	0	0	0	0	0
2003	230	23	2789	340.496	-426.449	D	6.903	6.901	0.001	1.859	99.39	0.26	0	0	0	0.32
2003	231	23	2789	340.496	-426.449	D	6.899	6.826	0.073	1.706	98.82	0.91	0	0	0	0.27
2003	232	23	2789	340.496	-426.449	D	6.969	6.86	0.109	1.775	98.38	1.45	0	0	0	0.17
2003	233	23	2789	340.496	-426.449	D	6.977	6.921	0.056	1.898	98.51	1.34	0	0	0	0.15
2003	234	23	2789	340.496	-426.449	D	7.148	7.113	0.036	2.289	99.24	0.64	0	0	0	0.12
2003	235	23	2789	340.496	-426.449	D	7.094	7.028	0.066	2.114	99.3	0.29	0	0	0	0.41
2003	236	23	2695	328.074	-426.025	D	9.09	8.535	**0.554**	5.433	93.44	6.48	0	0	0	0.08
2003	237	23	1548	330.222	-426.04	D	7.958	7.872	0.085	3.912	98.56	1.34	0	0	0	0.1
2003	238	23	2784	339.87	-426.019	D	7.384	7.375	0.009	2.835	99.73	0.15	0	0	0	0.11

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	239	23	2417	339.654	-425.626	D	7.03	7.03	0	2.119	99.17	0.2	0	0	0	0.13
2003	240	23	1	318.65	-445.782	D	7.105	7.105	0	2.273	0	0	0	0	0	0
2003	241	23	1	318.65	-445.782	D	8.394	8.394	0	5.101	0	0	0	0	0	0
2003	242	23	1	318.65	-445.782	D	8.773	8.773	0	6.004	0	0	0	0	0	0
2003	243	23	1	318.65	-445.782	D	9.309	9.309	0	7.34	0	0	0	0	0	0
2003	244	23	1	318.65	-445.782	D	9.456	9.456	0	7.721	0	0	0	0	0	0
2003	245	23	2704	329.056	-425.092	D	9.825	9.746	0.079	8.487	97.42	2.53	0	0	0	0.05
2003	246	23	2589	318.383	-445.593	D	10.409	9.235	**1.175**	7.152	80.34	19.59	0	0	0	0.07
2003	247	23	2563	323.259	-443.79	D	7.854	7.678	0.176	3.485	97.48	2.29	0	0	0	0.22
2003	248	23	2790	340.421	-426.562	D	6.773	6.749	0.024	1.553	93.56	5.29	0	0	0	1.14
2003	249	23	2684	326.713	-427.014	D	6.897	6.875	0.022	1.805	95.98	3.44	0	0	0	0.58
2003	250	23	2684	326.713	-427.014	D	6.966	6.965	0	1.988	99.19	0.31	0	0	0	0.59
2003	251	23	1	318.65	-445.782	D	7.063	7.063	0	2.187	0	0	0	0	0	0
2003	252	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	253	23	1	318.65	-445.782	D	7.368	7.368	0	2.821	0	0	0	0	0	0
2003	254	23	1	318.65	-445.782	D	8.253	8.253	0	4.773	0	0	0	0	0	0
2003	255	23	1	318.65	-445.782	D	9.962	9.962	0	9.071	0	0	0	0	0	0
2003	256	23	1	318.65	-445.782	D	9.428	9.428	0	7.649	0	0	0	0	0	0
2003	257	23	1	318.65	-445.782	D	8.74	8.74	0	5.924	0	0	0	0	0	0
2003	258	23	1	318.65	-445.782	D	6.717	6.717	0	1.49	0	0	0	0	0	0
2003	259	23	1	318.65	-445.782	D	6.641	6.641	0	1.341	0	0	0	0	0	0
2003	260	23	2789	340.496	-426.449	D	6.756	6.75	0.006	1.556	97.74	1.82	0	0	0	0.4
2003	261	23	2781	339.842	-425.379	D	6.776	6.772	0.004	1.6	97.73	2	0	0	0	0.23
2003	262	23	2040	333.912	-425.128	D	7.893	7.893	0	3.957	89.6	0.34	0	0	0	0.2
2003	263	23	1	318.65	-445.782	D	6.579	6.579	0	1.219	0	0	0	0	0	0
2003	264	23	2789	340.496	-426.449	D	7.091	7.049	0.042	2.158	97.34	2.34	0	0	0	0.32
2003	265	23	2784	339.87	-426.019	D	9.108	9.106	0.001	6.827	96.02	3.7	0	0	0	0.05
2003	266	23	1	318.65	-445.782	D	6.857	6.857	0	1.769	0	0	0	0	0	0
2003	267	23	1	318.65	-445.782	D	6.83	6.83	0	1.715	0	0	0	0	0	0
2003	268	23	2789	340.496	-426.449	D	6.843	6.838	0.005	1.732	97.48	1.09	0	0	0	1.45
2003	269	23	2789	340.496	-426.449	D	7.075	7.039	0.036	2.138	94.67	4.81	0	0	0	0.52
2003	270	23	1	318.65	-445.782	D	7.334	7.334	0	2.749	0	0	0	0	0	0
2003	271	23	1	318.65	-445.782	D	6.654	6.654	0	1.366	0	0	0	0	0	0
2003	272	23	1	318.65	-445.782	D	6.53	6.53	0	1.124	0	0	0	0	0	0
2003	273	23	1	318.65	-445.782	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2003	274	23	1	318.65	-445.782	D	8.096	8.096	0	4.415	0	0	0	0	0	0
2003	275	23	2434	337.437	-428.764	D	6.629	6.574	0.056	1.209	37.98	60.89	0	0	0	1.13
2003	276	23	2589	318.383	-445.593	D	7.102	7.095	0.008	2.251	88.81	10.39	0	0	0	0.79
2003	277	23	1	318.65	-445.782	D	6.805	6.805	0	1.666	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	278	23	1	318.65	-445.782	D	7.273	7.273	0	2.622	0	0	0	0	0	0
2003	279	23	2789	340.496	-426.449	D	9.351	9.344	0.007	7.431	98.18	1.65	0	0	0	0.14
2003	280	23	2255	335.942	-426.039	D	7.959	7.849	0.109	3.861	96.44	3.45	0	0	0	0.11
2003	281	23	2694	327.861	-425.964	D	7.645	7.609	0.035	3.336	97.07	2.82	0	0	0	0.11
2003	282	23	2277	336.146	-425.03	D	8.918	8.917	0.001	6.357	98.98	0.94	0	0	0	0.12
2003	283	23	1	318.65	-445.782	D	9.734	9.734	0	8.453	0	0	0	0	0	0
2003	284	23	1	318.65	-445.782	D	9.551	9.551	0	7.97	0	0	0	0	0	0
2003	285	23	1	318.65	-445.782	D	7.633	7.633	0	3.387	0	0	0	0	0	0
2003	286	23	2789	340.496	-426.449	D	6.895	6.894	0.002	1.843	94	5.7	0	0	0	0.34
2003	287	23	2781	339.842	-425.379	D	8.87	8.869	0.001	6.238	80.42	19.52	0	0	0	0.02
2003	288	23	1	318.65	-445.782	D	6.692	6.692	0	1.442	0	0	0	0	0	0
2003	289	23	1	318.65	-445.782	D	6.601	6.601	0	1.262	0	0	0	0	0	0
2003	290	23	2694	327.861	-425.964	D	8.459	8.15	0.309	4.537	50.01	49.89	0	0	0	0.1
2003	291	23	2789	340.496	-426.449	D	6.705	6.617	0.089	1.294	85.27	14.13	0	0	0	0.61
2003	292	23	2468	334.002	-434.887	D	6.61	6.604	0.006	1.268	98.05	1.47	0	0	0	0.5
2003	293	23	1	318.65	-445.782	D	6.677	6.677	0	1.412	0	0	0	0	0	0
2003	294	23	1	318.65	-445.782	D	6.703	6.703	0	1.464	0	0	0	0	0	0
2003	295	23	2611	319.699	-440.64	D	6.731	6.73	0.002	1.516	97.76	1.01	0	0	0	1.23
2003	296	23	2588	318.452	-445.8	D	6.647	6.61	0.037	1.28	95.35	3.79	0	0	0	0.86
2003	297	23	2429	338.563	-428.651	D	6.691	6.691	0	1.44	97.33	0.24	0	0	0	0.6
2003	298	23	1	318.65	-445.782	D	7.839	7.839	0	3.838	0	0	0	0	0	0
2003	299	23	1	318.65	-445.782	D	7.397	7.397	0	2.882	0	0	0	0	0	0
2003	300	23	1	318.65	-445.782	D	6.536	6.536	0	1.135	0	0	0	0	0	0
2003	301	23	1	318.65	-445.782	D	6.598	6.598	0	1.258	0	0	0	0	0	0
2003	302	23	1	318.65	-445.782	D	6.533	6.533	0	1.13	0	0	0	0	0	0
2003	303	23	1	318.65	-445.782	D	7.414	7.414	0	2.919	0	0	0	0	0	0
2003	304	23	1	318.65	-445.782	D	9.409	9.409	0	7.599	0	0	0	0	0	0
2003	305	23	1	318.65	-445.782	D	9.384	9.384	0	7.535	0	0	0	0	0	0
2003	306	23	1	318.65	-445.782	D	8.79	8.79	0	6.045	0	0	0	0	0	0
2003	307	23	1	318.65	-445.782	D	7.877	7.877	0	3.922	0	0	0	0	0	0
2003	308	23	1	318.65	-445.782	D	7.389	7.389	0	2.864	0	0	0	0	0	0
2003	309	23	1	318.65	-445.782	D	7.708	7.708	0	3.55	0	0	0	0	0	0
2003	310	23	2781	339.842	-425.379	D	10.73	8.891	**1.839**	6.292	39.22	60.68	0	0	0	0.1
2003	311	23	2704	329.056	-425.092	D	8.275	7.865	0.41	3.895	38.46	61.3	0	0	0	0.24
2003	312	23	1	318.65	-445.782	D	6.667	6.667	0	1.392	0	0	0	0	0	0
2003	313	23	1	318.65	-445.782	D	6.51	6.51	0	1.085	0	0	0	0	0	0
2003	314	23	1	318.65	-445.782	D	6.616	6.616	0	1.292	0	0	0	0	0	0
2003	315	23	1	318.65	-445.782	D	8.07	8.07	0	4.354	0	0	0	0	0	0
2003	316	23	1	318.65	-445.782	D	9.37	9.37	0	7.497	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	317	23	1	318.65	-445.782	D	6.486	6.486	0	1.04	0	0	0	0	0	0
2003	318	23	1	318.65	-445.782	D	6.751	6.751	0	1.557	0	0	0	0	0	0
2003	319	23	1	318.65	-445.782	D	8.304	8.304	0	4.891	0	0	0	0	0	0
2003	320	23	1	318.65	-445.782	D	9.626	9.626	0	8.168	0	0	0	0	0	0
2003	321	23	1	318.65	-445.782	D	10.088	10.088	0	9.417	0	0	0	0	0	0
2003	322	23	1	318.65	-445.782	D	9.908	9.908	0	8.922	0	0	0	0	0	0
2003	323	23	1	318.65	-445.782	D	7.343	7.343	0	2.768	0	0	0	0	0	0
2003	324	23	1	318.65	-445.782	D	6.656	6.656	0	1.371	0	0	0	0	0	0
2003	325	23	1	318.65	-445.782	D	7.217	7.217	0	2.505	0	0	0	0	0	0
2003	326	23	1	318.65	-445.782	D	9.817	9.817	0	8.677	0	0	0	0	0	0
2003	327	23	2708	329.979	-425	D	9.027	9.009	0.018	6.585	65.32	34.64	0	0	0	0.03
2003	328	23	1	318.65	-445.782	D	7.264	7.264	0	2.603	0	0	0	0	0	0
2003	329	23	1	318.65	-445.782	D	6.515	6.515	0	1.095	0	0	0	0	0	0
2003	330	23	1	318.65	-445.782	D	7.434	7.434	0	2.961	0	0	0	0	0	0
2003	331	23	1	318.65	-445.782	D	9.185	9.185	0	7.026	0	0	0	0	0	0
2003	332	23	1	318.65	-445.782	D	6.842	6.842	0	1.739	0	0	0	0	0	0
2003	333	23	1	318.65	-445.782	D	6.494	6.494	0	1.054	0	0	0	0	0	0
2003	334	23	1	318.65	-445.782	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2003	335	23	1	318.65	-445.782	D	6.66	6.66	0	1.378	0	0	0	0	0	0
2003	336	23	2789	340.496	-426.449	D	6.556	6.512	0.044	1.089	48.42	50.77	0	0	0	0.8
2003	337	23	2781	339.842	-425.379	D	8.185	8.178	0.007	4.6	41.82	57.66	0	0	0	0.54
2003	338	23	2781	339.842	-425.379	D	9.159	9.154	0.005	6.948	59.02	40.86	0	0	0	0.12
2003	339	23	2789	340.496	-426.449	D	8.528	8.486	0.042	5.316	61.28	38.67	0	0	0	0.05
2003	340	23	1	318.65	-445.782	D	7.637	7.637	0	3.396	0	0	0	0	0	0
2003	341	23	2789	340.496	-426.449	D	6.658	6.653	0.004	1.365	51.67	48.03	0	0	0	0.28
2003	342	23	1	318.65	-445.782	D	8.111	8.111	0	4.449	0	0	0	0	0	0
2003	343	23	1	318.65	-445.782	D	10.155	10.155	0	9.603	0	0	0	0	0	0
2003	344	23	2758	335.862	-424.454	D	9.326	8.9	0.426	6.315	60.19	39.76	0	0	0	0.05
2003	345	23	1	318.65	-445.782	D	7.408	7.408	0	2.905	0	0	0	0	0	0
2003	346	23	2789	340.496	-426.449	D	6.835	6.832	0.003	1.719	69.31	30.29	0	0	0	0.4
2003	347	23	2652	323.833	-433.511	D	9.949	9.615	0.334	8.138	63.96	35.99	0	0	0	0.05
2003	348	23	2789	340.496	-426.449	D	9.529	9.43	0.099	7.653	71.86	28.11	0	0	0	0.03
2003	349	23	1	318.65	-445.782	D	9.203	9.203	0	7.071	0	0	0	0	0	0
2003	350	23	1	318.65	-445.782	D	8.775	8.775	0	6.01	0	0	0	0	0	0
2003	351	23	1	318.65	-445.782	D	7.444	7.444	0	2.982	0	0	0	0	0	0
2003	352	23	1	318.65	-445.782	D	6.918	6.918	0	1.892	0	0	0	0	0	0
2003	353	23	1	318.65	-445.782	D	7.467	7.467	0	3.031	0	0	0	0	0	0
2003	354	23	1	318.65	-445.782	D	6.572	6.572	0	1.206	0	0	0	0	0	0
2003	355	23	1	318.65	-445.782	D	6.617	6.617	0	1.294	0	0	0	0	0	0

Appendix M
Upper Buffalo
2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	356	23	1	318.65	-445.782	D	9.46	9.46	0	7.73	0	0	0	0	0	0
2003	357	23	1	318.65	-445.782	D	9.378	9.378	0	7.518	0	0	0	0	0	0
2003	358	23	1	318.65	-445.782	D	8.21	8.21	0	4.675	0	0	0	0	0	0
2003	359	23	1	318.65	-445.782	D	6.569	6.569	0	1.2	0	0	0	0	0	0
2003	360	23	1	318.65	-445.782	D	6.789	6.789	0	1.633	0	0	0	0	0	0
2003	361	23	1	318.65	-445.782	D	6.753	6.753	0	1.562	0	0	0	0	0	0
2003	362	23	1	318.65	-445.782	D	8.719	8.719	0	5.874	0	0	0	0	0	0
2003	363	23	1	318.65	-445.782	D	7.299	7.299	0	2.675	0	0	0	0	0	0
2003	364	23	1	318.65	-445.782	D	6.566	6.566	0	1.194	0	0	0	0	0	0
									1.839							

Appendix M
Mammoth Cave
MC 2001 M2

NORANDA									DELTA		% of Modeled Extinction by Species					
YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	1	23	1	955.838	-260.274	D	8.321	8.321	0	4.93	0	0	0	0	0	0
2001	2	23	1	955.838	-260.274	D	7.927	7.927	0	4.03	0	0	0	0	0	0
2001	3	23	297	944.609	-246.761	D	9.291	9.244	0.047	7.18	96.9	0.06	0	0	0.34	2.7
2001	4	23	300	962.092	-244.663	D	6.849	6.791	0.059	1.64	92.44	0.15	0	0	0.73	6.68
2001	5	23	48	963.533	-256.561	D	7.191	7.181	0.01	2.43	84.57	0.49	0	0	0.92	14.03
2001	6	23	201	945.153	-251.338	D	7.908	7.908	0	3.99	35.49	3.18	0	0	0.31	52.87
2001	7	23	297	944.609	-246.761	D	6.935	6.924	0.011	1.91	85.66	0.32	0	0	1	13
2001	8	23	21	963.025	-258.479	D	7.789	7.789	0	3.73	77.32	0.97	0	0	0.33	21.36
2001	9	23	1	955.838	-260.274	D	7.465	7.465	0	3.03	0	0	0	0	0	0
2001	10	23	297	944.609	-246.761	D	7.169	7.169	0	2.41	90.45	0.15	0	0	1.24	5.03
2001	11	23	297	944.609	-246.761	D	6.481	6.481	0	1.03	83.41	0.15	0	0	4.1	13.15
2001	12	23	1	955.838	-260.274	D	7.422	7.422	0	2.94	0	0	0	0	0	0
2001	13	23	172	943.804	-252.427	D	6.54	6.54	0	1.14	101.78	0.01	0	0	0.29	1.01
2001	14	23	1	955.838	-260.274	D	7.089	7.089	0	2.24	0	0	0	0	0	0
2001	15	23	290	946.175	-247.503	D	8.998	8.947	0.051	6.43	92.52	1.55	0	0	0.37	5.56
2001	16	23	4	958.757	-259.923	D	6.795	6.795	0	1.65	18.05	0.72	0	0	0.47	31.41
2001	17	23	1	955.838	-260.274	D	6.81	6.81	0	1.67	0	0	0	0	0	0
2001	18	23	1	955.838	-260.274	D	6.912	6.912	0	1.88	0	0	0	0	0	0
2001	19	23	1	955.838	-260.274	D	9.612	9.612	0	8.13	0	0	0	0	0	0
2001	20	23	1	955.838	-260.274	D	7.586	7.586	0	3.29	0	0	0	0	0	0
2001	21	23	1	955.838	-260.274	D	6.719	6.719	0	1.5	0	0	0	0	0	0
2001	22	23	297	944.609	-246.761	D	6.505	6.501	0.004	1.07	96.2	0.07	0	0	0.28	3.41
2001	23	23	297	944.609	-246.761	D	6.516	6.515	0.001	1.1	90.49	0.06	0	0	1.11	8.42
2001	24	23	302	963.548	-244.486	D	6.973	6.959	0.015	1.97	84.67	0.27	0	0	0.55	14.5
2001	25	23	1	955.838	-260.274	D	6.751	6.751	0	1.56	0	0	0	0	0	0
2001	26	23	1	955.838	-260.274	D	6.556	6.556	0	1.18	0	0	0	0	0	0
2001	27	23	172	943.804	-252.427	D	6.648	6.645	0.003	1.35	59.34	0.43	0	0	2.5	37.74
2001	28	23	1	955.838	-260.274	D	6.546	6.546	0	1.15	0	0	0	0	0	0
2001	29	23	143	962.978	-251.984	D	6.65	6.65	0	1.36	5.04	0	0	0	3.86	6.03
2001	30	23	1	955.838	-260.274	D	9.209	9.209	0	7.09	0	0	0	0	0	0
2001	31	23	8	961.676	-259.571	D	7.134	7.13	0.005	2.32	72.29	0.47	0	0	3.55	23.7
2001	32	23	1	955.838	-260.274	D	7.005	7.005	0	2.07	0	0	0	0	0	0
2001	33	23	65	951.641	-256.135	D	6.549	6.522	0.027	1.11	77.97	0.29	0	0	1.64	20.1
2001	34	23	144	944.641	-253.256	D	6.47	6.47	0	1.01	30.38	2.16	0	0	0.82	61.57
2001	35	23	297	944.609	-246.761	D	6.473	6.473	0	1.01	70.93	0.44	0	0	1.44	27.39
2001	36	23	6	960.217	-259.747	D	6.755	6.753	0.003	1.56	73.9	0.25	0	0	1.25	24.58
2001	37	23	297	944.609	-246.761	D	6.59	6.584	0.005	1.23	82.54	0.14	0	0	1.56	15.76
2001	38	23	201	945.153	-251.338	D	6.553	6.546	0.007	1.16	79.49	0.14	0	0	0.84	19.49

Appendix M
Mammoth Cave
MC 2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	39	23	1	955.838	-260.274	D	6.628	6.628	0	1.32	0	0	0	0	0	0
2001	40	23	1	955.838	-260.274	D	8.097	8.097	0	4.42	0	0	0	0	0	0
2001	41	23	9	954.269	-259.534	D	7.296	7.282	0.015	2.64	98.25	0.13	0	0	0.13	1.49
2001	42	23	1	955.838	-260.274	D	6.473	6.473	0	1.01	0	0	0	0	0	0
2001	43	23	1	955.838	-260.274	D	7.214	7.214	0	2.5	0	0	0	0	0	0
2001	44	23	1	955.838	-260.274	D	8.153	8.153	0	4.55	0	0	0	0	0	0
2001	45	23	1	955.838	-260.274	D	10.113	10.113	0	9.49	0	0	0	0	0	0
2001	46	23	8	961.676	-259.571	D	10.244	10.218	0.026	9.78	96.53	0.61	0	0	0.35	2.51
2001	47	23	1	955.838	-260.274	D	10.219	10.176	0.043	9.66	99.26	0.18	0	0	0.03	0.52
2001	48	23	1	955.838	-260.274	D	6.637	6.637	0	1.33	0	0	0	0	0	0
2001	49	23	1	955.838	-260.274	D	6.469	6.469	0	1.01	0	0	0	0	0	0
2001	50	23	1	955.838	-260.274	D	6.47	6.47	0	1.01	0	0	0	0	0	0
2001	51	23	297	944.609	-246.761	D	6.609	6.605	0.005	1.27	85.74	0.02	0	0	1.41	12.84
2001	52	23	6	960.217	-259.747	D	6.572	6.565	0.006	1.19	77.07	0.09	0	0	1.73	21.12
2001	53	23	65	951.641	-256.135	D	7.4	7.4	0	2.89	35.58	0.01	0	0	6.13	9.66
2001	54	23	1	955.838	-260.274	D	6.624	6.624	0	1.31	0	0	0	0	0	0
2001	55	23	1	955.838	-260.274	D	6.622	6.622	0	1.3	0	0	0	0	0	0
2001	56	23	3	958.027	-260.011	D	8.216	8.213	0.003	4.68	82.08	0.01	0	0	1.15	16.72
2001	57	23	1	955.838	-260.274	D	6.508	6.508	0	1.08	0	0	0	0	0	0
2001	58	23	1	955.838	-260.274	D	6.484	6.484	0	1.04	0	0	0	0	0	0
2001	59	23	1	955.838	-260.274	D	6.524	6.524	0	1.11	0	0	0	0	0	0
2001	60	23	1	955.838	-260.274	D	6.468	6.468	0	1	0	0	0	0	0	0
2001	61	23	17	960.106	-258.832	D	6.667	6.661	0.006	1.38	83.44	0.22	0	0	1.27	15.09
2001	62	23	8	961.676	-259.571	D	6.695	6.693	0.001	1.44	94.38	0.04	0	0	0.14	5.5
2001	63	23	6	960.217	-259.747	D	8.942	8.942	0	6.42	97	0	0	0	0.4	2.09
2001	64	23	1	955.838	-260.274	D	6.604	6.604	0	1.27	0	0	0	0	0	0
2001	65	23	1	955.838	-260.274	D	6.489	6.489	0	1.05	0	0	0	0	0	0
2001	66	23	1	955.838	-260.274	D	6.538	6.538	0	1.14	0	0	0	0	0	0
2001	67	23	204	947.34	-251.078	D	6.517	6.505	0.012	1.08	85.2	0.22	0	0	2.05	12.52
2001	68	23	1	955.838	-260.274	D	6.556	6.556	0	1.18	0	0	0	0	0	0
2001	69	23	1	955.838	-260.274	D	6.504	6.504	0	1.07	0	0	0	0	0	0
2001	70	23	1	955.838	-260.274	D	6.472	6.472	0	1.01	0	0	0	0	0	0
2001	71	23	1	955.838	-260.274	D	7.563	7.563	0	3.24	0	0	0	0	0	0
2001	72	23	9	954.269	-259.534	D	8.29	8.28	0.01	4.84	85.36	0.23	0	0	1.58	12.8
2001	73	23	1	955.838	-260.274	D	6.496	6.496	0	1.06	80.96	0.06	0	0	0.36	18.92
2001	74	23	172	943.804	-252.427	D	7.642	7.641	0.001	3.4	91.48	0.05	0	0	0.08	8.4
2001	75	23	297	944.609	-246.761	D	8.398	8.388	0.01	5.09	90.4	0.09	0	0	0.71	8.79
2001	76	23	21	963.025	-258.479	D	6.852	6.851	0.001	1.76	79.38	0.39	0	0	0.69	19.47
2001	77	23	1	955.838	-260.274	D	6.606	6.606	0	1.27	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	78	23	1	955.838	-260.274	D	6.47	6.47	0	1.01	0	0	0	0	0	0
2001	79	23	1	955.838	-260.274	D	8.494	8.494	0	5.34	0	0	0	0	0	0
2001	80	23	1	955.838	-260.274	D	9.355	9.355	0	7.46	0	0	0	0	0	0
2001	81	23	1	955.838	-260.274	D	6.655	6.655	0	1.37	0	0	0	0	0	0
2001	82	23	1	955.838	-260.274	D	6.566	6.566	0	1.19	0	0	0	0	0	0
2001	83	23	1	955.838	-260.274	D	6.528	6.528	0	1.12	22.74	0	0	0	15.96	31.33
2001	84	23	1	955.838	-260.274	D	6.471	6.471	0	1.01	0	0	0	0	0	0
2001	85	23	1	955.838	-260.274	D	6.475	6.475	0	1.02	0	0	0	0	0	0
2001	86	23	1	955.838	-260.274	D	6.484	6.484	0	1.04	0	0	0	0	0	0
2001	87	23	1	955.838	-260.274	D	6.469	6.469	0	1.01	0	0	0	0	0	0
2001	88	23	1	955.838	-260.274	D	6.522	6.522	0	1.11	0	0	0	0	0	0
2001	89	23	1	955.838	-260.274	D	7.526	7.526	0	3.16	0	0	0	0	0	0
2001	90	23	119	945.479	-254.084	D	9.126	9.126	0	6.88	66.18	0	0	0	8.19	14.81
2001	91	23	21	963.025	-258.479	D	7.689	7.572	0.117	3.26	98.05	0.18	0	0	0.11	1.65
2001	92	23	204	947.34	-251.078	D	6.497	6.496	0.001	1.06	80.58	0.05	0	0	5.41	13.91
2001	93	23	204	947.34	-251.078	D	9.211	9.211	0	7.09	74.68	0	0	0	4.9	7.68
2001	94	23	119	945.479	-254.084	D	7.474	7.474	0	3.05	76.11	0	0	0	6.17	10.71
2001	95	23	119	945.479	-254.084	D	7.27	7.27	0	2.62	85.12	0	0	0	4.25	9.18
2001	96	23	1	955.838	-260.274	D	7.29	7.29	0	2.66	0	0	0	0	0	0
2001	97	23	1	955.838	-260.274	D	6.892	6.892	0	1.84	0	0	0	0	0	0
2001	98	23	1	955.838	-260.274	D	7.045	7.045	0	2.15	0	0	0	0	0	0
2001	99	23	1	955.838	-260.274	D	7.218	7.218	0	2.51	0	0	0	0	0	0
2001	100	23	1	955.838	-260.274	D	7.665	7.665	0	3.46	0	0	0	0	0	0
2001	101	23	1	955.838	-260.274	D	8.547	8.547	0	5.46	0	0	0	0	0	0
2001	102	23	297	944.609	-246.761	D	7.008	7.007	0.001	2.07	85.61	0	0	0	1.68	12.66
2001	103	23	297	944.609	-246.761	D	6.663	6.634	0.029	1.33	87.79	0.02	0	0	1.3	10.88
2001	104	23	172	943.804	-252.427	D	6.595	6.568	0.027	1.2	94.6	0	0	0	0.77	4.62
2001	105	23	300	962.092	-244.663	D	7.506	7.457	0.049	3.01	97.04	0.05	0	0	0.2	2.71
2001	106	23	1	955.838	-260.274	D	6.701	6.701	0	1.46	0	0	0	0	0	0
2001	107	23	1	955.838	-260.274	D	6.491	6.491	0	1.05	0	0	0	0	0	0
2001	108	23	1	955.838	-260.274	D	6.47	6.47	0	1.01	0	0	0	0	0	0
2001	109	23	8	961.676	-259.571	D	6.491	6.471	0.02	1.01	89.17	0.13	0	0	0.92	9.79
2001	110	23	1	955.838	-260.274	D	6.588	6.588	0	1.24	0	0	0	0	0	0
2001	111	23	1	955.838	-260.274	D	6.729	6.729	0	1.51	0	0	0	0	0	0
2001	112	23	1	955.838	-260.274	D	6.824	6.824	0	1.7	0	0	0	0	0	0
2001	113	23	1	955.838	-260.274	D	6.933	6.933	0	1.92	0	0	0	0	0	0
2001	114	23	297	944.609	-246.761	D	7.708	7.705	0.004	3.54	96.23	0.23	0	0	0.76	2.76
2001	115	23	1	955.838	-260.274	D	6.473	6.473	0	1.01	0	0	0	0	0	0
2001	116	23	254	944.206	-249.594	D	6.513	6.513	0	1.09	65.14	0	0	0	10.34	23.71

Appendix M
Mammoth Cave
MC 2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	117	23	302	963.548	-244.486	D	6.582	6.577	0.005	1.22	86.28	0.02	0	0	2.44	11.24
2001	118	23	1	955.838	-260.274	D	6.825	6.785	0.04	1.63	98.73	0	0	0	0.08	1.19
2001	119	23	1	955.838	-260.274	D	6.478	6.478	0	1.02	0	0	0	0	0	0
2001	120	23	49	953.21	-256.876	D	6.909	6.909	0	1.88	63.58	0	0	0	2.87	5.94
2001	121	23	1	955.838	-260.274	D	7.171	7.171	0	2.41	0	0	0	0	0	0
2001	122	23	1	955.838	-260.274	D	7.725	7.725	0	3.59	0	0	0	0	0	0
2001	123	23	1	955.838	-260.274	D	6.77	6.77	0	1.6	0	0	0	0	0	0
2001	124	23	1	955.838	-260.274	D	6.731	6.731	0	1.52	0	0	0	0	0	0
2001	125	23	1	955.838	-260.274	D	6.779	6.779	0	1.61	0	0	0	0	0	0
2001	126	23	1	955.838	-260.274	D	6.68	6.68	0	1.42	0	0	0	0	0	0
2001	127	23	1	955.838	-260.274	D	7.908	7.908	0	3.99	0	0	0	0	0	0
2001	128	23	8	961.676	-259.571	D	9.225	9.14	0.085	6.91	98.64	0.14	0	0	0.09	1.12
2001	129	23	6	960.217	-259.747	D	6.678	6.677	0.001	1.41	95.71	0.02	0	0	0.75	3.59
2001	130	23	275	944.098	-248.678	D	7.12	7.06	0.061	2.18	96.42	0	0	0	0.63	2.95
2001	131	23	299	946.066	-246.588	D	7.67	7.656	0.014	3.44	95.72	0	0	0	0.68	3.6
2001	132	23	302	963.548	-244.486	D	8.573	8.544	0.029	5.45	97.97	0.09	0	0	0.15	1.78
2001	133	23	1	955.838	-260.274	D	6.498	6.498	0	1.06	0	0	0	0	0	0
2001	134	23	1	955.838	-260.274	D	6.515	6.511	0.005	1.09	90.47	0	0	0	1.79	7.72
2001	135	23	297	944.609	-246.761	D	6.788	6.769	0.02	1.59	93.46	0	0	0	0.83	5.7
2001	136	23	297	944.609	-246.761	D	6.79	6.781	0.009	1.62	90.44	0	0	0	1.48	8.07
2001	137	23	297	944.609	-246.761	D	6.791	6.789	0.002	1.63	85.52	0	0	0	3.08	11.42
2001	138	23	288	944.718	-247.676	D	6.995	6.995	0	2.05	64.59	0	0	0	5.06	20.73
2001	139	23	1	955.838	-260.274	D	7.618	7.618	0	3.36	0	0	0	0	0	0
2001	140	23	8	961.676	-259.571	D	8.965	8.951	0.015	6.44	98.65	0	0	0	0.13	1.21
2001	141	23	5	959.487	-259.835	D	8.935	8.893	0.041	6.3	98.29	0	0	0	0.21	1.51
2001	142	23	8	961.676	-259.571	D	7.506	7.452	0.054	3	98.18	0.03	0	0	0.14	1.65
2001	143	23	9	954.269	-259.534	D	6.528	6.519	0.009	1.1	83.05	0.01	0	0	2.78	14.17
2001	144	23	21	963.025	-258.479	D	6.654	6.638	0.016	1.33	87.3	0.01	0	0	1.25	11.43
2001	145	23	49	953.21	-256.876	D	6.651	6.617	0.035	1.29	84.81	0.02	0	0	1.52	13.64
2001	146	23	200	964.214	-249.977	D	6.601	6.59	0.011	1.24	83.03	0.03	0	0	2.22	14.73
2001	147	23	1	955.838	-260.274	D	6.629	6.619	0.01	1.3	82.31	0.02	0	0	3.36	14.31
2001	148	23	1	955.838	-260.274	D	6.83	6.829	0.001	1.71	92.18	0	0	0	1.9	5.84
2001	149	23	8	961.676	-259.571	D	6.656	6.655	0.001	1.37	95.77	0.01	0	0	0.64	3.65
2001	150	23	1	955.838	-260.274	D	6.665	6.665	0	1.39	0	0	0	0	0	0
2001	151	23	1	955.838	-260.274	D	7.206	7.206	0	2.48	0	0	0	0	0	0
2001	152	23	6	960.217	-259.747	D	8.934	8.898	0.036	6.31	98.23	0.18	0	0	0.24	1.36
2001	153	23	17	960.106	-258.832	D	7.452	7.435	0.017	2.96	94.4	0.02	0	0	0.63	4.95
2001	154	23	1	955.838	-260.274	D	6.702	6.702	0	1.46	0	0	0	0	0	0
2001	155	23	293	961.474	-245.666	D	8.438	8.438	0	5.2	87.12	0	0	0	1.06	8.61

Appendix M
Mammoth Cave
MC 2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	156	23	1	955.838	-260.274	D	9.181	9.181	0	7.02	0	0	0	0	0	0
2001	157	23	297	944.609	-246.761	D	8.297	8.294	0.003	4.87	95.81	0	0	0	1.33	2.87
2001	158	23	300	962.092	-244.663	D	9.083	8.865	0.218	6.23	99.1	0.05	0	0	0.07	0.78
2001	159	23	8	961.676	-259.571	D	8.714	8.705	0.008	5.84	99.46	0.01	0	0	0.02	0.49
2001	160	23	1	955.838	-260.274	D	6.742	6.742	0	1.54	0	0	0	0	0	0
2001	161	23	1	955.838	-260.274	D	6.564	6.564	0	1.19	0	0	0	0	0	0
2001	162	23	275	944.098	-248.678	D	6.705	6.664	0.041	1.39	97.24	0	0	0	0.43	2.34
2001	163	23	254	944.206	-249.594	D	6.882	6.827	0.056	1.71	96.72	0	0	0	0.25	3.03
2001	164	23	275	944.098	-248.678	D	6.828	6.815	0.014	1.69	97.62	0	0	0	0.14	2.24
2001	165	23	293	961.474	-245.666	D	7.534	7.534	0	3.17	88.2	0.01	0	0	0.21	10.7
2001	166	23	172	943.804	-252.427	D	9.214	9.188	0.026	7.03	99.01	0.01	0	0	0.11	0.88
2001	167	23	5	959.487	-259.835	D	8.578	8.561	0.017	5.5	99.41	0.02	0	0	0.04	0.53
2001	168	23	1	955.838	-260.274	D	6.654	6.654	0	1.37	0	0	0	0	0	0
2001	169	23	1	955.838	-260.274	D	6.589	6.589	0	1.24	0	0	0	0	0	0
2001	170	23	1	955.838	-260.274	D	6.66	6.66	0	1.38	0	0	0	0	0	0
2001	171	23	297	944.609	-246.761	D	7.542	7.467	0.074	3.03	97.53	0.01	0	0	0.37	2.09
2001	172	23	205	948.069	-250.991	D	8.026	7.897	0.129	3.97	99.27	0.01	0	0	0.05	0.68
2001	173	23	302	963.548	-244.486	D	8.492	8.348	0.144	4.99	99.51	0.01	0	0	0.03	0.46
2001	174	23	1	955.838	-260.274	D	6.799	6.799	0	1.65	0	0	0	0	0	0
2001	175	23	1	955.838	-260.274	D	6.943	6.943	0	1.94	0	0	0	0	0	0
2001	176	23	1	955.838	-260.274	D	6.761	6.761	0	1.58	0	0	0	0	0	0
2001	177	23	1	955.838	-260.274	D	7.053	7.053	0	2.17	0	0	0	0	0	0
2001	178	23	1	955.838	-260.274	D	7.57	7.57	0	3.25	0	0	0	0	0	0
2001	179	23	178	948.178	-251.906	D	7.256	7.256	0	2.59	16.02	0	0	0	1.06	1.75
2001	180	23	1	955.838	-260.274	D	7.673	7.673	0	3.47	0	0	0	0	0	0
2001	181	23	1	955.838	-260.274	D	8.64	8.64	0	5.68	0	0	0	0	0	0
2001	182	23	297	944.609	-246.761	D	8.685	8.639	0.047	5.68	97.8	0	0	0	0.31	1.88
2001	183	23	7	960.946	-259.659	D	8.426	8.352	0.074	5	98.21	0.01	0	0	0.07	1.71
2001	184	23	8	961.676	-259.571	D	6.975	6.974	0.001	2.01	97.57	0.01	0	0	0.12	2.28
2001	185	23	300	962.092	-244.663	D	8.634	8.37	0.264	5.04	98.84	0.09	0	0	0.11	0.97
2001	186	23	21	963.025	-258.479	D	8.853	8.851	0.002	6.19	97.75	0.01	0	0	0.08	2.17
2001	187	23	1	955.838	-260.274	D	6.665	6.665	0	1.39	0	0	0	0	0	0
2001	188	23	302	963.548	-244.486	D	7.183	7.144	0.039	2.35	98.52	0	0	0	0.31	1.17
2001	189	23	283	960.856	-246.67	D	8.766	8.724	0.041	5.89	96.64	0	0	0	0.34	3.01
2001	190	23	3	958.027	-260.011	D	8.706	8.679	0.027	5.78	96.32	0.14	0	0	0.19	3.35
2001	191	23	1	955.838	-260.274	D	8.911	8.911	0	6.34	0	0	0	0	0	0
2001	192	23	1	955.838	-260.274	D	7.13	7.13	0	2.32	0	0	0	0	0	0
2001	193	23	1	955.838	-260.274	D	6.631	6.631	0	1.32	0	0	0	0	0	0
2001	194	23	1	955.838	-260.274	D	6.773	6.773	0	1.6	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	195	23	1	955.838	-260.274	D	6.594	6.594	0	1.25	0	0	0	0	0	0
2001	196	23	1	955.838	-260.274	D	6.623	6.623	0	1.31	0	0	0	0	0	0
2001	197	23	1	955.838	-260.274	D	6.686	6.686	0	1.43	0	0	0	0	0	0
2001	198	23	1	955.838	-260.274	D	7.367	7.367	0	2.82	0	0	0	0	0	0
2001	199	23	297	944.609	-246.761	D	7.434	7.408	0.026	2.91	98.89	0	0	0	0.21	0.9
2001	200	23	186	954.01	-251.209	D	9.793	9.159	**0.634**	6.96	99.37	0.01	0	0	0.04	0.58
2001	201	23	172	943.804	-252.427	D	8.042	7.998	0.044	4.19	98.79	0.02	0	0	0.07	1.12
2001	202	23	119	945.479	-254.084	D	9.132	9.099	0.033	6.81	99.28	0.01	0	0	0.09	0.61
2001	203	23	275	944.098	-248.678	D	7.197	7.19	0.006	2.45	97.58	0	0	0	0.25	2.16
2001	204	23	297	944.609	-246.761	D	7.105	7.103	0.002	2.27	98.53	0	0	0	0.08	1.38
2001	205	23	297	944.609	-246.761	D	7.089	7.086	0.003	2.23	96.13	0	0	0	0.72	3.1
2001	206	23	297	944.609	-246.761	D	8.024	8.015	0.009	4.23	99.56	0	0	0	0.08	0.35
2001	207	23	297	944.609	-246.761	D	9.97	9.572	0.397	8.03	99.2	0.04	0	0	0.08	0.68
2001	208	23	297	944.609	-246.761	D	9.47	9.446	0.023	7.7	99.44	0.04	0	0	0.02	0.5
2001	209	23	297	944.609	-246.761	D	9.672	9.557	0.114	7.99	99.34	0	0	0	0.11	0.55
2001	210	23	297	944.609	-246.761	D	10.034	9.587	0.447	8.07	99.25	0.04	0	0	0.08	0.64
2001	211	23	1	955.838	-260.274	D	8.918	8.918	0	6.36	97	0.03	0	0	0.12	3.28
2001	212	23	1	955.838	-260.274	D	6.978	6.978	0	2.01	0	0	0	0	0	0
2001	213	23	1	955.838	-260.274	D	7.051	7.051	0	2.16	0	0	0	0	0	0
2001	214	23	1	955.838	-260.274	D	7.116	7.116	0	2.3	0	0	0	0	0	0
2001	215	23	268	955.866	-248.2	D	8.457	8.315	0.143	4.92	99.43	0.01	0	0	0.07	0.49
2001	216	23	8	961.676	-259.571	D	8.582	8.582	0	5.54	95.79	0.03	0	0	0.19	3.85
2001	217	23	1	955.838	-260.274	D	6.955	6.955	0	1.97	0	0	0	0	0	0
2001	218	23	1	955.838	-260.274	D	7.558	7.558	0	3.22	0	0	0	0	0	0
2001	219	23	1	955.838	-260.274	D	6.813	6.813	0	1.68	0	0	0	0	0	0
2001	220	23	1	955.838	-260.274	D	7.498	7.498	0	3.1	0	0	0	0	0	0
2001	221	23	297	944.609	-246.761	D	9.359	9.172	0.187	6.99	99.46	0.04	0	0	0.07	0.43
2001	222	23	1	955.838	-260.274	D	9.28	8.934	0.346	6.4	99.27	0.03	0	0	0.04	0.66
2001	223	23	8	961.676	-259.571	D	9.229	8.956	0.273	6.45	99.72	0.01	0	0	0.01	0.26
2001	224	23	8	961.676	-259.571	D	7.603	7.583	0.02	3.28	99.59	0	0	0	0.01	0.39
2001	225	23	8	961.676	-259.571	D	6.828	6.827	0.001	1.71	98.39	0	0	0	0.04	1.54
2001	226	23	1	955.838	-260.274	D	7.735	7.735	0	3.61	0	0	0	0	0	0
2001	227	23	1	955.838	-260.274	D	7.075	7.075	0	2.21	0	0	0	0	0	0
2001	228	23	297	944.609	-246.761	D	7.198	7.18	0.017	2.43	97.68	0.01	0	0	0.3	2.01
2001	229	23	21	963.025	-258.479	D	8.061	8.045	0.016	4.3	98.54	0.01	0	0	0.16	1.3
2001	230	23	302	963.548	-244.486	D	7.141	7.026	0.115	2.11	97.54	0.01	0	0	0.36	2.09
2001	231	23	297	944.609	-246.761	D	8.271	8.223	0.048	4.71	98.55	0.07	0	0	0.11	1.26
2001	232	23	1	955.838	-260.274	D	6.964	6.964	0	1.98	0	0	0	0	0	0
2001	233	23	177	947.449	-251.993	D	6.865	6.865	0	1.79	33.06	0	0	0	0.27	18.2

Appendix M
Mammoth Cave
MC 2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	234	23	119	945.479	-254.084	D	6.797	6.786	0.011	1.63	98.8	0	0	0	0.23	0.97
2001	235	23	9	954.269	-259.534	D	7.187	7.167	0.02	2.4	95.04	0	0	0	0.42	4.54
2001	236	23	1	955.838	-260.274	D	7.982	7.962	0.019	4.11	97.06	0.01	0	0	0.24	2.69
2001	237	23	172	943.804	-252.427	D	7.138	7.124	0.014	2.31	98.2	0	0	0	0.18	1.62
2001	238	23	297	944.609	-246.761	D	8.537	8.507	0.031	5.37	98.28	0	0	0	0.25	1.47
2001	239	23	21	963.025	-258.479	D	9.608	9.497	0.111	7.83	98.34	0.06	0	0	0.09	1.51
2001	240	23	1	955.838	-260.274	D	8.001	8.001	0	4.2	0	0	0	0	0	0
2001	241	23	6	960.217	-259.747	D	8.168	8.111	0.057	4.45	98.72	0.03	0	0	0.1	1.15
2001	242	23	292	952.732	-246.719	D	8.236	8.109	0.127	4.44	99.65	0	0	0	0.03	0.32
2001	243	23	297	944.609	-246.761	D	8.45	8.446	0.004	5.22	98.38	0	0	0	0.15	1.45
2001	244	23	275	944.098	-248.678	D	9.322	9.18	0.141	7.01	99.18	0.05	0	0	0.04	0.74
2001	245	23	9	954.269	-259.534	D	6.866	6.864	0.002	1.78	98.09	0.02	0	0	0.12	1.81
2001	246	23	201	945.153	-251.338	D	8.871	8.871	0	6.24	87.77	0	0	0	0.03	0.99
2001	247	23	1	955.838	-260.274	D	8.485	8.485	0	5.31	0	0	0	0	0	0
2001	248	23	1	955.838	-260.274	D	7.517	7.517	0	3.14	0	0	0	0	0	0
2001	249	23	1	955.838	-260.274	D	7.188	7.188	0	2.44	0	0	0	0	0	0
2001	250	23	1	955.838	-260.274	D	7.47	7.47	0	3.04	0	0	0	0	0	0
2001	251	23	1	955.838	-260.274	D	7.607	7.607	0	3.33	0	0	0	0	0	0
2001	252	23	1	955.838	-260.274	D	7.669	7.669	0	3.47	0	0	0	0	0	0
2001	253	23	48	963.533	-256.561	D	8.887	8.745	0.142	5.94	98.85	0.13	0	0	0.03	0.98
2001	254	23	1	955.838	-260.274	D	6.816	6.816	0	1.69	0	0	0	0	0	0
2001	255	23	1	955.838	-260.274	D	6.953	6.953	0	1.96	0	0	0	0	0	0
2001	256	23	1	955.838	-260.274	D	7.244	7.244	0	2.56	0	0	0	0	0	0
2001	257	23	1	955.838	-260.274	D	7.01	7.01	0	2.08	0	0	0	0	0	0
2001	258	23	1	955.838	-260.274	D	6.708	6.708	0	1.47	0	0	0	0	0	0
2001	259	23	1	955.838	-260.274	D	6.716	6.716	0	1.49	0	0	0	0	0	0
2001	260	23	297	944.609	-246.761	D	6.87	6.87	0	1.8	64.75	0	0	0	12.84	21.79
2001	261	23	302	963.548	-244.486	D	7.628	7.627	0.001	3.38	75.73	0	0	0	7.16	16.96
2001	262	23	297	944.609	-246.761	D	9.311	9.228	0.083	7.13	99.13	0.03	0	0	0.08	0.76
2001	263	23	21	963.025	-258.479	D	9.318	9.263	0.055	7.22	99.2	0.06	0	0	0.03	0.7
2001	264	23	64	950.912	-256.222	D	7.12	7.055	0.065	2.17	96.21	0.03	0	0	0.44	3.31
2001	265	23	8	961.676	-259.571	D	7.268	7.244	0.024	2.56	94.73	0.01	0	0	0.22	5.04
2001	266	23	297	944.609	-246.761	D	7.394	7.393	0.001	2.87	93.21	0	0	0	1.82	5.09
2001	267	23	287	963.77	-246.317	D	8.625	8.32	0.306	4.93	99.53	0.02	0	0	0.03	0.42
2001	268	23	1	955.838	-260.274	D	6.766	6.766	0	1.59	0	0	0	0	0	0
2001	269	23	1	955.838	-260.274	D	6.543	6.543	0	1.15	0	0	0	0	0	0
2001	270	23	1	955.838	-260.274	D	6.615	6.615	0	1.29	0	0	0	0	0	0
2001	271	23	1	955.838	-260.274	D	6.843	6.843	0	1.74	0	0	0	0	0	0
2001	272	23	1	955.838	-260.274	D	6.971	6.971	0	2	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	273	23	1	955.838	-260.274	D	7.355	7.355	0	2.79	0	0	0	0	0	0
2001	274	23	1	955.838	-260.274	D	6.919	6.919	0	1.89	0	0	0	0	0	0
2001	275	23	1	955.838	-260.274	D	7.312	7.308	0.004	2.7	50.71	0.15	0	0	1.54	47.57
2001	276	23	302	963.548	-244.486	D	7.306	7.272	0.034	2.62	92.97	0.01	0	0	0.33	6.7
2001	277	23	1	955.838	-260.274	D	7.837	7.837	0	3.83	0	0	0	0	0	0
2001	278	23	297	944.609	-246.761	D	7.678	7.674	0.004	3.48	99.01	0.1	0	0	0.07	0.79
2001	279	23	119	945.479	-254.084	D	8.845	8.67	0.174	5.76	98.84	0.17	0	0	0.02	0.97
2001	280	23	1	955.838	-260.274	D	6.504	6.504	0	1.07	0	0	0	0	0	0
2001	281	23	1	955.838	-260.274	D	6.505	6.505	0	1.08	0	0	0	0	0	0
2001	282	23	1	955.838	-260.274	D	6.547	6.547	0	1.16	0	0	0	0	0	0
2001	283	23	1	955.838	-260.274	D	6.658	6.658	0	1.38	0	0	0	0	0	0
2001	284	23	1	955.838	-260.274	D	7.682	7.682	0	3.5	0	0	0	0	0	0
2001	285	23	1	955.838	-260.274	D	9.717	9.717	0	8.41	0	0	0	0	0	0
2001	286	23	1	955.838	-260.274	D	9.566	9.566	0	8.01	0	0	0	0	0	0
2001	287	23	2	956.568	-260.187	D	8.865	8.82	0.045	6.12	99.02	0.17	0	0	0.09	0.71
2001	288	23	8	961.676	-259.571	D	6.783	6.783	0	1.62	70.84	0.06	0	0	2.44	25.49
2001	289	23	6	960.217	-259.747	D	7.203	7.203	0	2.48	77.99	2.31	0	0	0.12	19.53
2001	290	23	1	955.838	-260.274	D	6.542	6.542	0	1.15	0	0	0	0	0	0
2001	291	23	1	955.838	-260.274	D	6.518	6.518	0	1.1	0	0	0	0	0	0
2001	292	23	297	944.609	-246.761	D	6.59	6.59	0	1.24	35.25	0	0	0	9.59	38.92
2001	293	23	300	962.092	-244.663	D	6.974	6.948	0.025	1.95	93.29	0.08	0	0	1.05	5.58
2001	294	23	274	963.153	-247.32	D	7.287	7.287	0	2.65	51.2	0	0	0	0.06	0.43
2001	295	23	1	955.838	-260.274	D	8.044	8.044	0	4.3	0	0	0	0	0	0
2001	296	23	1	955.838	-260.274	D	8.705	8.705	0	5.84	0	0	0	0	0	0
2001	297	23	1	955.838	-260.274	D	9.069	9.069	0	6.73	0	0	0	0	0	0
2001	298	23	9	954.269	-259.534	D	8.579	8.565	0.014	5.51	93.82	0.19	0	0	0.27	5.72
2001	299	23	1	955.838	-260.274	D	6.473	6.473	0	1.01	0	0	0	0	0	0
2001	300	23	1	955.838	-260.274	D	6.499	6.499	0	1.07	0	0	0	0	0	0
2001	301	23	1	955.838	-260.274	D	6.509	6.509	0	1.08	0	0	0	0	0	0
2001	302	23	1	955.838	-260.274	D	6.496	6.496	0	1.06	0	0	0	0	0	0
2001	303	23	1	955.838	-260.274	D	6.497	6.497	0	1.06	0	0	0	0	0	0
2001	304	23	1	955.838	-260.274	D	6.494	6.494	0	1.06	0	0	0	0	0	0
2001	305	23	1	955.838	-260.274	D	6.665	6.665	0	1.39	0	0	0	0	0	0
2001	306	23	1	955.838	-260.274	D	8.952	8.952	0	6.44	0	0	0	0	0	0
2001	307	23	172	943.804	-252.427	D	8.78	8.656	0.123	5.72	99.24	0.1	0	0	0.04	0.62
2001	308	23	1	955.838	-260.274	D	6.553	6.553	0	1.17	0	0	0	0	0	0
2001	309	23	1	955.838	-260.274	D	6.696	6.696	0	1.45	0	0	0	0	0	0
2001	310	23	1	955.838	-260.274	D	6.484	6.484	0	1.04	0	0	0	0	0	0
2001	311	23	1	955.838	-260.274	D	6.477	6.477	0	1.02	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	312	23	290	946.175	-247.503	D	6.538	6.522	0.016	1.11	85.89	0.09	0	0	1.25	12.76
2001	313	23	21	963.025	-258.479	D	6.913	6.913	0	1.88	57.16	0.07	0	0	0.61	42.24
2001	314	23	172	943.804	-252.427	D	6.606	6.557	0.049	1.18	91.56	0.03	0	0	1.09	7.32
2001	315	23	5	959.487	-259.835	D	6.917	6.902	0.015	1.86	89.44	0.1	0	0	0.27	10.19
2001	316	23	1	955.838	-260.274	D	6.597	6.597	0	1.25	0	0	0	0	0	0
2001	317	23	1	955.838	-260.274	D	6.535	6.535	0	1.13	0	0	0	0	0	0
2001	318	23	1	955.838	-260.274	D	6.569	6.569	0	1.2	0	0	0	0	0	0
2001	319	23	297	944.609	-246.761	D	6.617	6.617	0	1.29	52.47	0	0	0	17.03	30.17
2001	320	23	297	944.609	-246.761	D	6.874	6.864	0.01	1.78	95.63	0.02	0	0	0.81	3.53
2001	321	23	1	955.838	-260.274	D	7.099	7.097	0.003	2.26	96.69	0.01	0	0	0.1	3.12
2001	322	23	1	955.838	-260.274	D	7.437	7.437	0	2.97	0	0	0	0	0	0
2001	323	23	300	962.092	-244.663	D	8.722	8.629	0.092	5.66	99.36	0.1	0	0	0.05	0.49
2001	324	23	21	963.025	-258.479	D	7.287	7.276	0.011	2.63	99.39	0.11	0	0	0.03	0.47
2001	325	23	1	955.838	-260.274	D	6.485	6.485	0	1.04	0	0	0	0	0	0
2001	326	23	297	944.609	-246.761	D	6.533	6.532	0.001	1.13	96.13	0.07	0	0	0.25	3.62
2001	327	23	1	955.838	-260.274	D	7.441	7.441	0	2.97	0	0	0	0	0	0
2001	328	23	1	955.838	-260.274	D	10.097	10.097	0	9.44	0	0	0	0	0	0
2001	329	23	297	944.609	-246.761	D	9.125	9.1	0.025	6.81	94.59	0.02	0	0	0.53	4.87
2001	330	23	302	963.548	-244.486	D	7.233	7.204	0.028	2.48	94.01	0.07	0	0	0.22	5.7
2001	331	23	297	944.609	-246.761	D	9.596	9.549	0.047	7.96	96.84	0.09	0	0	0.23	2.83
2001	332	23	6	960.217	-259.747	D	9.4	9.33	0.069	7.4	97.74	0.09	0	0	0.1	2.06
2001	333	23	297	944.609	-246.761	D	10.218	10.218	0	9.78	98.13	0.19	0	0	0.01	0.84
2001	334	23	119	945.479	-254.084	D	8.111	8.111	0	4.45	80.74	0.25	0	0	0.05	7.95
2001	335	23	297	944.609	-246.761	D	6.99	6.98	0.009	2.02	94.09	0.01	0	0	0.93	4.97
2001	336	23	8	961.676	-259.571	D	6.873	6.864	0.008	1.78	88.39	0.12	0	0	0.27	11.21
2001	337	23	201	945.153	-251.338	D	6.639	6.639	0	1.34	47.55	0.55	0	0	0.27	41.93
2001	338	23	1	955.838	-260.274	D	6.902	6.902	0	1.86	0	0	0	0	0	0
2001	339	23	1	955.838	-260.274	D	6.707	6.707	0	1.47	0	0	0	0	0	0
2001	340	23	297	944.609	-246.761	D	9.343	9.342	0.001	7.43	92.37	0	0	0	2.73	5.05
2001	341	23	119	945.479	-254.084	D	9.838	9.762	0.076	8.53	98.06	0.2	0	0	0.24	1.5
2001	342	23	297	944.609	-246.761	D	9.694	9.683	0.011	8.32	99.21	0.1	0	0	0.03	0.65
2001	343	23	296	963.659	-245.401	D	7.437	7.437	0	2.97	99.33	0.04	0	0	0.01	0.65
2001	344	23	1	955.838	-260.274	D	6.657	6.657	0	1.37	0	0	0	0	0	0
2001	345	23	1	955.838	-260.274	D	7.693	7.693	0	3.52	0	0	0	0	0	0
2001	346	23	1	955.838	-260.274	D	8.05	8.05	0	4.31	0	0	0	0	0	0
2001	347	23	297	944.609	-246.761	D	10.353	10.218	0.135	9.78	99.28	0.06	0	0	0.07	0.58
2001	348	23	297	944.609	-246.761	D	9.487	9.402	0.085	7.58	99.12	0.16	0	0	0.03	0.69
2001	349	23	6	960.217	-259.747	D	6.896	6.896	0	1.85	77.63	0	0	0	3.62	18.61
2001	350	23	1	955.838	-260.274	D	7.309	7.309	0	2.7	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2001 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	351	23	1	955.838	-260.274	D	8.91	8.841	0.069	6.17	99.45	0.14	0	0	0.02	0.38
2001	352	23	21	963.025	-258.479	D	8.818	8.805	0.013	6.08	99.36	0.15	0	0	0.04	0.44
2001	353	23	297	944.609	-246.761	D	6.642	6.636	0.006	1.33	74.35	0.33	0	0	0.87	24.46
2001	354	23	1	955.838	-260.274	D	6.576	6.576	0	1.22	0	0	0	0	0	0
2001	355	23	3	958.027	-260.011	D	6.492	6.472	0.019	1.01	51.56	0.66	0	0	4.72	43.05
2001	356	23	172	943.804	-252.427	D	6.523	6.519	0.004	1.1	91.01	0.08	0	0	0.24	8.67
2001	357	23	8	961.676	-259.571	D	8.284	8.263	0.021	4.8	96.69	0.45	0	0	0.24	2.62
2001	358	23	1	955.838	-260.274	D	6.539	6.539	0	1.14	0	0	0	0	0	0
2001	359	23	1	955.838	-260.274	D	6.506	6.506	0	1.08	0	0	0	0	0	0
2001	360	23	7	960.946	-259.659	D	6.523	6.521	0.002	1.11	66.76	0.62	0	0	1.86	30.7
2001	361	23	290	946.175	-247.503	D	6.688	6.679	0.009	1.42	66.04	0.43	0	0	2.62	30.91
2001	362	23	8	961.676	-259.571	D	6.779	6.762	0.017	1.58	66.54	0.81	0	0	1.67	30.99
2001	363	23	200	964.214	-249.977	D	7.479	7.47	0.009	3.04	74.31	0.31	0	0	1.72	23.65
2001	364	23	1	955.838	-260.274	D	6.534	6.534	0	1.13	0	0	0	0	0	0
2001	365	23	1	955.838	-260.274	D	6.549	6.549	0	1.16	0	0	0	0	0	0
									0.634							

Appendix M
Mammoth Cave
MC 2002 M2

NORANDA									DELTA		% of Modeled Extinction by Species					
YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	1	23	1	955.838	-260.274	D	7.121	7.121	0	2.305	0	0	0	0	0	0
2002	2	23	1	955.838	-260.274	D	7.031	7.031	0	2.122	0	0	0	0	0	0
2002	3	23	1	955.838	-260.274	D	7.181	7.181	0	2.43	0	0	0	0	0	0
2002	4	23	172	943.804	-252.427	D	7.318	7.316	0.002	2.712	95.45	0.1	0	0	0.42	4.01
2002	5	23	300	962.092	-244.663	D	6.768	6.765	0.003	1.586	96.47	0.09	0	0	0.27	3.18
2002	6	23	119	945.479	-254.084	D	9.158	9.139	0.019	6.91	98.29	0.16	0	0	0.35	1.19
2002	7	23	1	955.838	-260.274	D	9.043	9.043	0	6.668	0	0	0	0	0	0
2002	8	23	48	963.533	-256.561	D	8.419	8.413	0.006	5.146	96.24	0.56	0	0	0.34	2.84
2002	9	23	1	955.838	-260.274	D	7.465	7.465	0	3.027	0	0	0	0	0	0
2002	10	23	297	944.609	-246.761	D	9.847	9.703	0.144	8.371	99.16	0.1	0	0	0.06	0.68
2002	11	23	8	961.676	-259.571	D	9.876	9.755	0.121	8.509	98.77	0.21	0	0	0.03	0.98
2002	12	23	9	954.269	-259.534	D	9.289	9.146	0.143	6.926	99.01	0.12	0	0	0.11	0.76
2002	13	23	302	963.548	-244.486	D	8.411	8.379	0.032	5.065	97.53	0.15	0	0	0.07	2.24
2002	14	23	297	944.609	-246.761	D	7.201	7.198	0.003	2.466	87.08	0.11	0	0	1.29	11.54
2002	15	23	21	963.025	-258.479	D	7.034	7.034	0	2.127	91.07	0.16	0	0	0.22	8.82
2002	16	23	1	955.838	-260.274	D	6.664	6.664	0	1.386	0	0	0	0	0	0
2002	17	23	302	963.548	-244.486	D	6.958	6.951	0.007	1.958	73.95	0.7	0	0	2.49	22.87
2002	18	23	1	955.838	-260.274	D	9.044	9.044	0	6.671	0	0	0	0	0	0
2002	19	23	1	955.838	-260.274	D	9.071	9.071	0	6.739	0	0	0	0	0	0
2002	20	23	1	955.838	-260.274	D	8.57	8.57	0	5.517	0	0	0	0	0	0
2002	21	23	297	944.609	-246.761	D	8.224	8.209	0.015	4.672	94.25	0.14	0	0	0.42	5.19
2002	22	23	172	943.804	-252.427	D	7.051	7.039	0.012	2.138	94.97	0.1	0	0	0.3	4.62
2002	23	23	1	955.838	-260.274	D	9.886	9.886	0	8.864	0	0	0	0	0	0
2002	24	23	21	963.025	-258.479	D	10.102	10.049	0.053	9.31	95.67	0.56	0	0	0.35	3.42
2002	25	23	1	955.838	-260.274	D	8.632	8.632	0	5.664	0	0	0	0	0	0
2002	26	23	297	944.609	-246.761	D	6.752	6.751	0.001	1.558	93.43	0.17	0	0	0.56	5.76
2002	27	23	1	955.838	-260.274	D	8.327	8.327	0	4.945	0	0	0	0	0	0
2002	28	23	1	955.838	-260.274	D	8.78	8.78	0	6.022	0	0	0	0	0	0
2002	29	23	1	955.838	-260.274	D	10.161	10.161	0	9.619	0	0	0	0	0	0
2002	30	23	297	944.609	-246.761	D	10.252	10.218	0.035	9.779	98.83	0.29	0	0	0.05	0.82
2002	31	23	297	944.609	-246.761	D	9.613	9.61	0.003	8.124	99.51	0.1	0	0	0.01	0.38
2002	32	23	297	944.609	-246.761	D	8.654	8.648	0.006	5.702	86.15	1.12	0	0	1.26	11.48
2002	33	23	1	955.838	-260.274	D	6.894	6.894	0	1.844	0	0	0	0	0	0
2002	34	23	172	943.804	-252.427	D	6.888	6.816	0.072	1.687	96.1	0.08	0	0	0.62	3.2
2002	35	23	21	963.025	-258.479	D	8.302	8.263	0.039	4.796	94.65	0.3	0	0	0.17	4.88
2002	36	23	1	955.838	-260.274	D	6.742	6.742	0	1.539	0	0	0	0	0	0
2002	37	23	1	955.838	-260.274	D	6.926	6.926	0	1.909	0	0	0	0	0	0
2002	38	23	1	955.838	-260.274	D	9.543	9.543	0	7.949	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	39	23	172	943.804	-252.427	D	8.594	8.552	0.042	5.473	98.08	0.06	0	0	0.14	1.73
2002	40	23	300	962.092	-244.663	D	7.338	7.31	0.028	2.699	98.86	0.05	0	0	0.03	1.06
2002	41	23	6	960.217	-259.747	D	8.006	7.993	0.012	4.183	94.29	0.11	0	0	0.51	5.11
2002	42	23	1	955.838	-260.274	D	7.74	7.74	0	3.621	0	0	0	0	0	0
2002	43	23	297	944.609	-246.761	D	6.848	6.834	0.014	1.723	89.43	0.16	0	0	0.75	9.67
2002	44	23	8	961.676	-259.571	D	6.801	6.801	0	1.657	36.49	1.09	0	0	0.97	63.02
2002	45	23	1	955.838	-260.274	D	6.598	6.598	0	1.257	0	0	0	0	0	0
2002	46	23	297	944.609	-246.761	D	6.671	6.669	0.002	1.396	73.87	0.05	0	0	3.59	22.45
2002	47	23	8	961.676	-259.571	D	6.964	6.951	0.012	1.96	70.75	0.12	0	0	1.63	27.49
2002	48	23	8	961.676	-259.571	D	6.687	6.687	0	1.431	76.97	0.23	0	0	0.43	22.27
2002	49	23	1	955.838	-260.274	D	6.573	6.573	0	1.207	0	0	0	0	0	0
2002	50	23	1	955.838	-260.274	D	6.592	6.592	0	1.245	0	0	0	0	0	0
2002	51	23	297	944.609	-246.761	D	8.743	8.717	0.026	5.869	98.16	0.06	0	0	0.15	1.63
2002	52	23	8	961.676	-259.571	D	8.568	8.499	0.069	5.348	90.13	1.16	0	0	0.58	8.13
2002	53	23	1	955.838	-260.274	D	7.455	7.455	0	3.005	0	0	0	0	0	0
2002	54	23	1	955.838	-260.274	D	7.568	7.568	0	3.248	0	0	0	0	0	0
2002	55	23	1	955.838	-260.274	D	6.532	6.532	0	1.129	0	0	0	0	0	0
2002	56	23	1	955.838	-260.274	D	6.666	6.666	0	1.389	0	0	0	0	0	0
2002	57	23	297	944.609	-246.761	D	8.674	8.635	0.04	5.67	97.34	0.26	0	0	0.24	2.16
2002	58	23	1	955.838	-260.274	D	7.436	7.436	0	2.965	0	0	0	0	0	0
2002	59	23	8	961.676	-259.571	D	6.952	6.949	0.003	1.955	84.42	0.63	0	0	1.17	13.78
2002	60	23	300	962.092	-244.663	D	6.543	6.543	0	1.149	77.28	0.04	0	0	5.41	16.19
2002	61	23	1	955.838	-260.274	D	8.459	8.459	0	5.253	0	0	0	0	0	0
2002	62	23	186	954.01	-251.209	D	8.372	8.28	0.092	4.836	99.39	0.08	0	0	0.05	0.48
2002	63	23	144	944.641	-253.256	D	7.068	7.067	0	2.196	83.24	0.32	0	0	0.93	15.44
2002	64	23	160	956.307	-251.861	D	6.698	6.695	0.003	1.448	84.8	0.31	0	0	0.29	14.62
2002	65	23	1	955.838	-260.274	D	6.627	6.627	0	1.313	0	0	0	0	0	0
2002	66	23	1	955.838	-260.274	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2002	67	23	1	955.838	-260.274	D	6.657	6.657	0	1.372	0	0	0	0	0	0
2002	68	23	290	946.175	-247.503	D	7.899	7.884	0.015	3.939	98.33	0.1	0	0	0.1	1.47
2002	69	23	1	955.838	-260.274	D	6.807	6.807	0	1.668	0	0	0	0	0	0
2002	70	23	1	955.838	-260.274	D	6.577	6.577	0	1.215	0	0	0	0	0	0
2002	71	23	1	955.838	-260.274	D	9.098	9.098	0	6.807	0	0	0	0	0	0
2002	72	23	172	943.804	-252.427	D	9.383	9.382	0.001	7.528	98.93	0.04	0	0	0.17	0.78
2002	73	23	172	943.804	-252.427	D	8.897	8.884	0.013	6.274	99.66	0.02	0	0	0.02	0.3
2002	74	23	1	955.838	-260.274	D	7.251	7.251	0	2.574	0	0	0	0	0	0
2002	75	23	172	943.804	-252.427	D	9.546	9.467	0.08	7.749	99.16	0.1	0	0	0.09	0.65
2002	76	23	21	963.025	-258.479	D	9.189	9.168	0.021	6.983	99.32	0.05	0	0	0.02	0.6
2002	77	23	172	943.804	-252.427	D	9.652	9.411	0.241	7.605	99.82	0.01	0	0	0.03	0.14

Appendix M
Mammoth Cave
MC 2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	78	23	1	955.838	-260.274	D	9.94	9.923	0.017	8.965	99.88	0	0	0	0.01	0.1
2002	79	23	119	945.479	-254.084	D	9.712	9.711	0.001	8.392	98.56	0	0	0	0.45	0.74
2002	80	23	1	955.838	-260.274	D	9.133	9.133	0	6.894	0	0	0	0	0	0
2002	81	23	1	955.838	-260.274	D	6.943	6.943	0	1.942	0	0	0	0	0	0
2002	82	23	275	944.098	-248.678	D	6.634	6.616	0.017	1.293	87.55	0.11	0	0	2.02	10.32
2002	83	23	302	963.548	-244.486	D	6.559	6.556	0.003	1.174	91.95	0.06	0	0	0.35	7.64
2002	84	23	275	944.098	-248.678	D	8.054	8.049	0.005	4.308	99.61	0	0	0	0.09	0.28
2002	85	23	172	943.804	-252.427	D	9.609	9.598	0.011	8.092	98.66	0	0	0	0.13	1.19
2002	86	23	1	955.838	-260.274	D	7.517	7.517	0	3.137	0	0	0	0	0	0
2002	87	23	1	955.838	-260.274	D	7.042	7.042	0	2.143	0	0	0	0	0	0
2002	88	23	1	955.838	-260.274	D	7.001	7.001	0	2.061	0	0	0	0	0	0
2002	89	23	297	944.609	-246.761	D	9.193	9.158	0.034	6.958	98.85	0.09	0	0	0.05	1.01
2002	90	23	1	955.838	-260.274	D	8.453	8.453	0	5.24	0	0	0	0	0	0
2002	91	23	1	955.838	-260.274	D	7.093	7.093	0	2.249	0	0	0	0	0	0
2002	92	23	1	955.838	-260.274	D	7.012	7.012	0	2.082	0	0	0	0	0	0
2002	93	23	297	944.609	-246.761	D	7.883	7.869	0.014	3.906	98.54	0.09	0	0	0.03	1.34
2002	94	23	1	955.838	-260.274	D	7.837	7.837	0	3.835	0	0	0	0	0	0
2002	95	23	1	955.838	-260.274	D	7.386	7.386	0	2.858	0	0	0	0	0	0
2002	96	23	1	955.838	-260.274	D	6.595	6.595	0	1.25	0	0	0	0	0	0
2002	97	23	1	955.838	-260.274	D	6.554	6.554	0	1.172	0	0	0	0	0	0
2002	98	23	1	955.838	-260.274	D	6.879	6.879	0	1.814	0	0	0	0	0	0
2002	99	23	172	943.804	-252.427	D	9.28	9.27	0.01	7.241	97.21	0.13	0	0	0.17	2.49
2002	100	23	1	955.838	-260.274	D	7.506	7.506	0	3.115	0	0	0	0	0	0
2002	101	23	1	955.838	-260.274	D	6.881	6.881	0	1.818	0	0	0	0	0	0
2002	102	23	1	955.838	-260.274	D	8.527	8.527	0	5.413	0	0	0	0	0	0
2002	103	23	297	944.609	-246.761	D	8.563	8.563	0	5.5	71.64	0.54	0	0	0.63	25
2002	104	23	297	944.609	-246.761	D	8.986	8.982	0.004	6.517	98.32	0.06	0	0	0.24	1.36
2002	105	23	1	955.838	-260.274	D	8.946	8.946	0	6.427	0	0	0	0	0	0
2002	106	23	1	955.838	-260.274	D	7.383	7.383	0	2.851	0	0	0	0	0	0
2002	107	23	1	955.838	-260.274	D	7.75	7.75	0	3.641	0	0	0	0	0	0
2002	108	23	1	955.838	-260.274	D	7.74	7.74	0	3.621	0	0	0	0	0	0
2002	109	23	297	944.609	-246.761	D	7.372	7.372	0	2.829	61.8	0	0	0	9.39	28.88
2002	110	23	172	943.804	-252.427	D	8.282	8.205	0.077	4.663	98.7	0.03	0	0	0.18	1.08
2002	111	23	144	944.641	-253.256	D	8.913	8.693	0.22	5.81	99.62	0.02	0	0	0.03	0.33
2002	112	23	302	963.548	-244.486	D	7.526	7.514	0.013	3.13	96.6	0.08	0	0	0.12	3.21
2002	113	23	1	955.838	-260.274	D	6.638	6.638	0	1.336	0	0	0	0	0	0
2002	114	23	1	955.838	-260.274	D	7.612	7.612	0	3.342	0	0	0	0	0	0
2002	115	23	302	963.548	-244.486	D	8.037	8.034	0.003	4.275	95.56	0.28	0	0	0.35	3.81
2002	116	23	1	955.838	-260.274	D	6.533	6.533	0	1.13	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	117	23	1	955.838	-260.274	D	7.832	7.832	0	3.823	0	0	0	0	0	0
2002	118	23	297	944.609	-246.761	D	8.558	8.552	0.006	5.474	94.96	0	0	0	0.36	4.66
2002	119	23	1	955.838	-260.274	D	6.796	6.796	0	1.647	0	0	0	0	0	0
2002	120	23	297	944.609	-246.761	D	6.656	6.656	0	1.37	51.87	0	0	0	15.84	31.73
2002	121	23	292	952.732	-246.719	D	9.557	9.557	0	7.985	77.45	0	0	0	3.93	18.04
2002	122	23	8	961.676	-259.571	D	9.861	9.824	0.037	8.697	97.09	0.22	0	0	0.24	2.45
2002	123	23	1	955.838	-260.274	D	7.522	7.522	0	3.149	0	0	0	0	0	0
2002	124	23	1	955.838	-260.274	D	6.692	6.692	0	1.441	0	0	0	0	0	0
2002	125	23	1	955.838	-260.274	D	6.717	6.717	0	1.491	0	0	0	0	0	0
2002	126	23	1	955.838	-260.274	D	6.997	6.997	0	2.051	0	0	0	0	0	0
2002	127	23	297	944.609	-246.761	D	8.645	8.607	0.038	5.603	97.99	0	0	0	0.29	1.72
2002	128	23	302	963.548	-244.486	D	8.903	8.791	0.112	6.048	98.66	0.03	0	0	0.09	1.22
2002	129	23	172	943.804	-252.427	D	7.965	7.932	0.033	4.046	97.68	0.09	0	0	0.17	2.05
2002	130	23	8	961.676	-259.571	D	6.968	6.968	0	1.993	95.08	0.05	0	0	0.45	4.43
2002	131	23	1	955.838	-260.274	D	6.757	6.757	0	1.569	0	0	0	0	0	0
2002	132	23	1	955.838	-260.274	D	8.555	8.555	0	5.481	0	0	0	0	0	0
2002	133	23	297	944.609	-246.761	D	9.258	9.228	0.03	7.136	98.25	0.18	0	0	0.19	1.37
2002	134	23	1	955.838	-260.274	D	7.198	7.198	0	2.466	0	0	0	0	0	0
2002	135	23	254	944.206	-249.594	D	6.74	6.74	0	1.537	72.92	0	0	0	2.19	7.61
2002	136	23	275	944.098	-248.678	D	6.805	6.805	0	1.666	79.31	0	0	0	2.21	17.7
2002	137	23	301	962.82	-244.575	D	8.964	8.961	0.002	6.466	98.6	0.07	0	0	0.25	0.96
2002	138	23	302	963.548	-244.486	D	8.37	8.362	0.008	5.026	99.67	0	0	0	0.01	0.31
2002	139	23	1	955.838	-260.274	D	7.13	7.13	0	2.324	0	0	0	0	0	0
2002	140	23	1	955.838	-260.274	D	6.626	6.626	0	1.312	0	0	0	0	0	0
2002	141	23	1	955.838	-260.274	D	6.718	6.718	0	1.493	0	0	0	0	0	0
2002	142	23	1	955.838	-260.274	D	6.623	6.623	0	1.306	0	0	0	0	0	0
2002	143	23	1	955.838	-260.274	D	6.664	6.664	0	1.386	0	0	0	0	0	0
2002	144	23	297	944.609	-246.761	D	6.838	6.838	0	1.731	52.52	0	0	0	9.88	29.36
2002	145	23	297	944.609	-246.761	D	6.995	6.995	0	2.048	61.32	0	0	0	8.13	27.02
2002	146	23	78	961.123	-254.995	D	8.841	8.689	0.153	5.8	98.45	0.06	0	0	0.32	1.17
2002	147	23	287	963.77	-246.317	D	8.748	8.69	0.057	5.804	99.1	0.02	0	0	0.1	0.78
2002	148	23	297	944.609	-246.761	D	7.945	7.944	0.001	4.073	98.45	0	0	0	0.04	1.39
2002	149	23	1	955.838	-260.274	D	7.791	7.791	0	3.731	0	0	0	0	0	0
2002	150	23	1	955.838	-260.274	D	8.266	8.266	0	4.803	0	0	0	0	0	0
2002	151	23	297	944.609	-246.761	D	8.099	8.067	0.033	4.348	98.18	0	0	0	0.24	1.58
2002	152	23	1	955.838	-260.274	D	7.741	7.397	0.344	2.882	97.95	0.01	0	0	0.19	1.84
2002	153	23	3	958.027	-260.011	D	7.947	7.837	0.11	3.834	94.8	0.03	0	0	0.37	4.8
2002	154	23	297	944.609	-246.761	D	7.886	7.82	0.066	3.796	96.73	0	0	0	0.22	3.05
2002	155	23	302	963.548	-244.486	D	7.379	7.377	0.002	2.839	98.29	0	0	0	0.37	1.33

Appendix M
Mammoth Cave
MC 2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	156	23	297	944.609	-246.761	D	7.878	7.873	0.005	3.913	98.46	0.05	0	0	0.19	1.31
2002	157	23	297	944.609	-246.761	D	9.831	9.504	0.327	7.847	99.21	0.08	0	0	0.06	0.65
2002	158	23	1	955.838	-260.274	D	8.494	8.494	0	5.335	0	0	0	0	0	0
2002	159	23	1	955.838	-260.274	D	8.096	8.096	0	4.413	0	0	0	0	0	0
2002	160	23	1	955.838	-260.274	D	6.985	6.985	0	2.028	0	0	0	0	0	0
2002	161	23	1	955.838	-260.274	D	6.735	6.735	0	1.525	0	0	0	0	0	0
2002	162	23	1	955.838	-260.274	D	6.723	6.723	0	1.502	0	0	0	0	0	0
2002	163	23	297	944.609	-246.761	D	7.347	7.343	0.004	2.768	95.15	0	0	0	0.66	4.18
2002	164	23	297	944.609	-246.761	D	9.158	8.851	0.307	6.194	98.69	0.02	0	0	0.17	1.11
2002	165	23	21	963.025	-258.479	D	8.438	8.436	0.002	5.2	98.47	0.01	0	0	0.12	1.4
2002	166	23	1	955.838	-260.274	D	6.794	6.794	0	1.643	0	0	0	0	0	0
2002	167	23	1	955.838	-260.274	D	6.748	6.748	0	1.552	86.54	0	0	0	0.47	6.89
2002	168	23	1	955.838	-260.274	D	7.002	7.001	0	2.061	86.06	0.02	0	0	0.34	13.54
2002	169	23	1	955.838	-260.274	D	6.562	6.562	0	1.187	0	0	0	0	0	0
2002	170	23	1	955.838	-260.274	D	6.775	6.775	0	1.606	0	0	0	0	0	0
2002	171	23	1	955.838	-260.274	D	6.659	6.659	0	1.377	0	0	0	0	0	0
2002	172	23	1	955.838	-260.274	D	6.808	6.808	0	1.67	0	0	0	0	0	0
2002	173	23	1	955.838	-260.274	D	6.654	6.654	0	1.367	0	0	0	0	0	0
2002	174	23	1	955.838	-260.274	D	6.693	6.693	0	1.443	0	0	0	0	0	0
2002	175	23	1	955.838	-260.274	D	7.734	7.734	0	3.606	0	0	0	0	0	0
2002	176	23	1	955.838	-260.274	D	7.504	7.504	0	3.109	0	0	0	0	0	0
2002	177	23	1	955.838	-260.274	D	8.294	8.294	0	4.868	0	0	0	0	0	0
2002	178	23	297	944.609	-246.761	D	9.02	9.02	0	6.612	91.45	0.07	0	0	0.16	13.98
2002	179	23	297	944.609	-246.761	D	9.272	9.197	0.075	7.056	97.87	0.15	0	0	0.3	1.68
2002	180	23	297	944.609	-246.761	D	8.508	8.274	0.234	4.822	99.48	0	0	0	0.08	0.44
2002	181	23	302	963.548	-244.486	D	7.425	7.316	0.109	2.712	99.16	0	0	0	0.08	0.76
2002	182	23	172	943.804	-252.427	D	7.569	7.463	0.106	3.023	98.86	0	0	0	0.16	0.98
2002	183	23	172	943.804	-252.427	D	7.229	7.202	0.028	2.472	98.95	0	0	0	0.11	0.94
2002	184	23	172	943.804	-252.427	D	7.258	7.255	0.003	2.583	98.9	0	0	0	0.11	0.97
2002	185	23	172	943.804	-252.427	D	7.318	7.317	0.001	2.714	99.36	0	0	0	0.04	0.57
2002	186	23	1	955.838	-260.274	D	6.911	6.911	0	1.878	0	0	0	0	0	0
2002	187	23	1	955.838	-260.274	D	7.19	7.19	0	2.449	0	0	0	0	0	0
2002	188	23	1	955.838	-260.274	D	6.668	6.668	0	1.393	0	0	0	0	0	0
2002	189	23	1	955.838	-260.274	D	6.791	6.791	0	1.636	0	0	0	0	0	0
2002	190	23	49	953.21	-256.876	D	8.135	8.135	0	4.503	54.99	0	0	0	3.42	7.31
2002	191	23	9	954.269	-259.534	D	8.769	8.488	0.281	5.321	99.16	0.02	0	0	0.09	0.72
2002	192	23	21	963.025	-258.479	D	8.911	8.906	0.005	6.33	95.93	0.21	0	0	0.07	3.76
2002	193	23	177	947.449	-251.993	D	6.898	6.898	0	1.852	42.06	0.01	0	0	0.07	10.21
2002	194	23	1	955.838	-260.274	D	9.797	9.797	0	8.621	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	195	23	1	955.838	-260.274	D	9.106	9.106	0	6.825	0	0	0	0	0	0
2002	196	23	1	955.838	-260.274	D	7.26	7.26	0	2.593	0	0	0	0	0	0
2002	197	23	119	945.479	-254.084	D	7.088	7.088	0	2.237	60.37	0.03	0	0	1.04	13.33
2002	198	23	297	944.609	-246.761	D	8.877	8.218	**0.659**	4.692	99.01	0.01	0	0	0.15	0.83
2002	199	23	302	963.548	-244.486	D	9.078	8.86	0.218	6.217	98.95	0.02	0	0	0.11	0.92
2002	200	23	8	961.676	-259.571	D	8.933	8.635	0.299	5.67	97.98	0.06	0	0	0.09	1.86
2002	201	23	8	961.676	-259.571	D	8.072	7.989	0.084	4.172	97.78	0.01	0	0	0.1	2.12
2002	202	23	119	945.479	-254.084	D	7.807	7.797	0.01	3.746	97.49	0	0	0	0.28	2.23
2002	203	23	275	944.098	-248.678	D	7.551	7.288	0.263	2.652	98.16	0.01	0	0	0.27	1.56
2002	204	23	119	945.479	-254.084	D	9.122	8.581	**0.541**	5.542	99.07	0.02	0	0	0.1	0.8
2002	205	23	9	954.269	-259.534	D	9.343	9.184	0.159	7.023	99.83	0	0	0	0.01	0.16
2002	206	23	9	954.269	-259.534	D	7.598	7.593	0.004	3.302	99.6	0	0	0	0.02	0.38
2002	207	23	297	944.609	-246.761	D	7.79	7.762	0.028	3.669	96.81	0	0	0	0.58	2.6
2002	208	23	302	963.548	-244.486	D	8.339	8.339	0.001	4.972	94.42	0	0	0	0.4	5.23
2002	209	23	1	955.838	-260.274	D	7.604	7.604	0	3.325	0	0	0	0	0	0
2002	210	23	1	955.838	-260.274	D	7.479	7.479	0	3.056	0	0	0	0	0	0
2002	211	23	2	956.568	-260.187	D	8.164	8.092	0.072	4.405	98.78	0.01	0	0	0.25	0.97
2002	212	23	1	955.838	-260.274	D	8.954	8.878	0.076	6.26	98.3	0.1	0	0	0.14	1.46
2002	213	23	9	954.269	-259.534	D	7.067	7.058	0.009	2.176	98.68	0	0	0	0.11	1.2
2002	214	23	297	944.609	-246.761	D	6.72	6.719	0.001	1.495	97.63	0	0	0	0.22	2.05
2002	215	23	275	944.098	-248.678	D	6.699	6.698	0.001	1.454	97.86	0	0	0	0.27	1.89
2002	216	23	254	944.206	-249.594	D	6.753	6.753	0	1.562	97.73	0	0	0	0.16	1.81
2002	217	23	275	944.098	-248.678	D	7.024	7.024	0	2.107	97.44	0	0	0	0.16	1.44
2002	218	23	172	943.804	-252.427	D	7.507	7.506	0	3.114	99.65	0	0	0	0.02	0.51
2002	219	23	1	955.838	-260.274	D	6.739	6.739	0	1.533	0	0	0	0	0	0
2002	220	23	1	955.838	-260.274	D	6.594	6.594	0	1.249	0	0	0	0	0	0
2002	221	23	1	955.838	-260.274	D	6.624	6.624	0	1.308	0	0	0	0	0	0
2002	222	23	297	944.609	-246.761	D	6.612	6.607	0.005	1.275	95.56	0	0	0	1.28	3.12
2002	223	23	297	944.609	-246.761	D	8.866	8.742	0.124	5.93	98.42	0.04	0	0	0.14	1.4
2002	224	23	297	944.609	-246.761	D	7.753	7.734	0.019	3.607	98.29	0.01	0	0	0.13	1.57
2002	225	23	1	955.838	-260.274	D	6.66	6.66	0	1.378	0	0	0	0	0	0
2002	226	23	1	955.838	-260.274	D	7.874	7.874	0	3.916	0	0	0	0	0	0
2002	227	23	297	944.609	-246.761	D	9.343	9.342	0	7.427	87.93	0.01	0	0	3.95	6.85
2002	228	23	1	955.838	-260.274	D	8.622	8.622	0	5.64	0	0	0	0	0	0
2002	229	23	1	955.838	-260.274	D	9.14	9.14	0	6.911	0	0	0	0	0	0
2002	230	23	297	944.609	-246.761	D	8.982	8.936	0.046	6.403	98.41	0.01	0	0	0.2	1.39
2002	231	23	296	963.659	-245.401	D	9.252	8.853	0.399	6.199	99.04	0.05	0	0	0.06	0.85
2002	232	23	172	943.804	-252.427	D	8.778	8.342	0.436	4.979	99.3	0.01	0	0	0.04	0.65
2002	233	23	9	954.269	-259.534	D	7.317	7.31	0.007	2.7	97.92	0	0	0	0.06	2

Appendix M
Mammoth Cave
MC 2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	234	23	275	944.098	-248.678	D	6.759	6.752	0.008	1.56	98.04	0	0	0	0.07	1.88
2002	235	23	297	944.609	-246.761	D	7.384	7.384	0	2.854	90.67	0	0	0	3.01	6.76
2002	236	23	1	955.838	-260.274	D	9.198	9.028	0.17	6.631	99.1	0.03	0	0	0.1	0.78
2002	237	23	8	961.676	-259.571	D	7.757	7.745	0.012	3.632	98.46	0	0	0	0.1	1.46
2002	238	23	1	955.838	-260.274	D	7.439	7.439	0	2.971	0	0	0	0	0	0
2002	239	23	1	955.838	-260.274	D	7.325	7.325	0	2.73	0	0	0	0	0	0
2002	240	23	1	955.838	-260.274	D	8.66	8.66	0	5.73	0	0	0	0	0	0
2002	241	23	1	955.838	-260.274	D	7.533	7.533	0	3.173	0	0	0	0	0	0
2002	242	23	1	955.838	-260.274	D	7.238	7.238	0	2.548	0	0	0	0	0	0
2002	243	23	1	955.838	-260.274	D	6.76	6.76	0	1.575	0	0	0	0	0	0
2002	244	23	1	955.838	-260.274	D	7.088	7.088	0	2.239	0	0	0	0	0	0
2002	245	23	297	944.609	-246.761	D	7.338	7.313	0.025	2.705	97.91	0	0	0	0.35	1.74
2002	246	23	297	944.609	-246.761	D	6.936	6.918	0.017	1.893	95.78	0	0	0	0.68	3.52
2002	247	23	165	959.952	-251.422	D	6.977	6.957	0.02	1.97	93.41	0	0	0	0.26	6.31
2002	248	23	1	955.838	-260.274	D	6.553	6.553	0	1.168	0	0	0	0	0	0
2002	249	23	1	955.838	-260.274	D	6.614	6.614	0	1.288	0	0	0	0	0	0
2002	250	23	1	955.838	-260.274	D	6.777	6.777	0	1.61	0	0	0	0	0	0
2002	251	23	1	955.838	-260.274	D	6.628	6.628	0	1.316	0	0	0	0	0	0
2002	252	23	1	955.838	-260.274	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	253	23	1	955.838	-260.274	D	6.513	6.513	0	1.091	0	0	0	0	0	0
2002	254	23	1	955.838	-260.274	D	6.807	6.807	0	1.67	0	0	0	0	0	0
2002	255	23	1	955.838	-260.274	D	6.568	6.568	0	1.199	0	0	0	0	0	0
2002	256	23	1	955.838	-260.274	D	6.848	6.848	0	1.752	0	0	0	0	0	0
2002	257	23	1	955.838	-260.274	D	7.456	7.456	0	3.006	0	0	0	0	0	0
2002	258	23	119	945.479	-254.084	D	8.626	8.597	0.028	5.581	97.58	0	0	0	0.48	1.94
2002	259	23	1	955.838	-260.274	D	8.812	8.638	0.174	5.678	98.9	0.04	0	0	0.07	1
2002	260	23	5	959.487	-259.835	D	7.493	7.468	0.025	3.033	97.44	0.01	0	0	0.08	2.46
2002	261	23	297	944.609	-246.761	D	8.513	8.509	0.005	5.37	99.36	0.02	0	0	0.02	0.58
2002	262	23	1	955.838	-260.274	D	8.73	8.73	0	5.9	0	0	0	0	0	0
2002	263	23	297	944.609	-246.761	D	8.304	8.303	0	4.889	98.02	0.02	0	0	0.64	1.47
2002	264	23	21	963.025	-258.479	D	9.709	9.311	0.397	7.347	99.42	0.06	0	0	0.06	0.46
2002	265	23	287	963.77	-246.317	D	8.146	8.023	0.123	4.249	99.44	0.01	0	0	0.04	0.51
2002	266	23	8	961.676	-259.571	D	7.112	7.112	0	2.287	75.63	0.01	0	0	0.76	13.41
2002	267	23	1	955.838	-260.274	D	6.594	6.594	0	1.248	0	0	0	0	0	0
2002	268	23	1	955.838	-260.274	D	6.709	6.709	0	1.474	0	0	0	0	0	0
2002	269	23	1	955.838	-260.274	D	9.8	9.8	0	8.63	0	0	0	0	0	0
2002	270	23	1	955.838	-260.274	D	9.763	9.763	0	8.533	0	0	0	0	0	0
2002	271	23	1	955.838	-260.274	D	8.694	8.694	0	5.812	0	0	0	0	0	0
2002	272	23	1	955.838	-260.274	D	7.259	7.259	0	2.592	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	273	23	1	955.838	-260.274	D	7.49	7.49	0	3.081	0	0	0	0	0	0
2002	274	23	1	955.838	-260.274	D	8.92	8.92	0	6.363	0	0	0	0	0	0
2002	275	23	1	955.838	-260.274	D	8.978	8.978	0	6.508	0	0	0	0	0	0
2002	276	23	1	955.838	-260.274	D	7.716	7.716	0	3.568	0	0	0	0	0	0
2002	277	23	297	944.609	-246.761	D	8.137	8.128	0.009	4.487	98.53	0.03	0	0	0.16	1.29
2002	278	23	6	960.217	-259.747	D	8.267	8.191	0.076	4.631	98	0.03	0	0	0.23	1.73
2002	279	23	297	944.609	-246.761	D	7.026	7.025	0.001	2.109	92.2	0	0	0	2.15	5.72
2002	280	23	119	945.479	-254.084	D	7.197	7.169	0.028	2.404	96.39	0.05	0	0	0.21	3.35
2002	281	23	1	955.838	-260.274	D	6.576	6.576	0	1.214	0	0	0	0	0	0
2002	282	23	1	955.838	-260.274	D	7.13	7.13	0	2.325	0	0	0	0	0	0
2002	283	23	1	955.838	-260.274	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2002	284	23	172	943.804	-252.427	D	9.786	9.786	0	8.593	99.79	0	0	0	0.02	0.09
2002	285	23	172	943.804	-252.427	D	9.732	9.622	0.11	8.156	99.33	0.05	0	0	0.06	0.56
2002	286	23	172	943.804	-252.427	D	8.994	8.665	0.329	5.743	99.47	0.07	0	0	0.02	0.44
2002	287	23	1	955.838	-260.274	D	6.588	6.588	0	1.237	0	0	0	0	0	0
2002	288	23	1	955.838	-260.274	D	8.454	8.454	0	5.242	0	0	0	0	0	0
2002	289	23	1	955.838	-260.274	D	7.081	7.081	0	2.223	0	0	0	0	0	0
2002	290	23	1	955.838	-260.274	D	6.562	6.562	0	1.187	0	0	0	0	0	0
2002	291	23	48	963.533	-256.561	D	6.601	6.597	0.004	1.254	75.33	0.45	0	0	4.54	19.66
2002	292	23	297	944.609	-246.761	D	8.323	8.309	0.013	4.904	99.59	0.06	0	0	0.05	0.3
2002	293	23	172	943.804	-252.427	D	9.293	9.18	0.114	7.012	99.55	0.06	0	0	0.02	0.36
2002	294	23	8	961.676	-259.571	D	6.894	6.894	0.001	1.844	98.21	0.05	0	0	0.18	1.6
2002	295	23	1	955.838	-260.274	D	6.634	6.634	0	1.327	0	0	0	0	0	0
2002	296	23	1	955.838	-260.274	D	6.651	6.651	0	1.361	0	0	0	0	0	0
2002	297	23	1	955.838	-260.274	D	6.715	6.715	0	1.486	0	0	0	0	0	0
2002	298	23	275	944.098	-248.678	D	8.963	8.963	0	6.47	69.42	3.19	0	0	0.11	5.97
2002	299	23	302	963.548	-244.486	D	9.441	9.225	0.215	7.127	98.37	0.35	0	0	0.05	1.24
2002	300	23	8	961.676	-259.571	D	7.5	7.5	0	3.1	79.62	0.48	0	0	1.64	11.24
2002	301	23	119	945.479	-254.084	D	9.267	9.267	0	7.235	92.75	0	0	0	0.72	3.21
2002	302	23	119	945.479	-254.084	D	9.594	9.594	0	8.083	80.7	0	0	0	0.28	2.61
2002	303	23	48	963.533	-256.561	D	8.73	8.73	0	5.899	91.7	0	0	0	3.16	5.04
2002	304	23	1	955.838	-260.274	D	7.853	7.853	0	3.869	0	0	0	0	0	0
2002	305	23	1	955.838	-260.274	D	8.121	8.121	0	4.47	0	0	0	0	0	0
2002	306	23	1	955.838	-260.274	D	6.565	6.565	0	1.193	0	0	0	0	0	0
2002	307	23	275	944.098	-248.678	D	6.794	6.782	0.011	1.62	98.45	0.11	0	0	0.16	1.29
2002	308	23	297	944.609	-246.761	D	10.537	9.34	**1.197**	7.42	99.48	0.08	0	0	0.04	0.4
2002	309	23	172	943.804	-252.427	D	9.61	9.409	0.201	7.599	99.57	0.05	0	0	0.02	0.37
2002	310	23	119	945.479	-254.084	D	8.441	8.387	0.054	5.085	99.48	0.08	0	0	0.01	0.43
2002	311	23	172	943.804	-252.427	D	8.099	8.099	0	4.421	95.61	0.01	0	0	0.25	3.99

Appendix M
Mammoth Cave
MC 2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	312	23	297	944.609	-246.761	D	6.801	6.798	0.003	1.651	97.96	0.02	0	0	0.07	1.94
2002	313	23	1	955.838	-260.274	D	6.882	6.882	0	1.82	0	0	0	0	0	0
2002	314	23	1	955.838	-260.274	D	8.096	8.096	0	4.414	0	0	0	0	0	0
2002	315	23	298	945.337	-246.674	D	8.249	8.219	0.03	4.694	98.38	0.13	0	0	0.06	1.43
2002	316	23	1	955.838	-260.274	D	7.176	7.176	0	2.419	0	0	0	0	0	0
2002	317	23	1	955.838	-260.274	D	6.984	6.984	0	2.026	0	0	0	0	0	0
2002	318	23	297	944.609	-246.761	D	6.93	6.921	0.009	1.899	95.86	0.02	0	0	0.78	3.33
2002	319	23	172	943.804	-252.427	D	8.641	8.641	0	5.686	98.16	0.16	0	0	0.14	1.12
2002	320	23	119	945.479	-254.084	D	9.437	9.437	0	7.671	98.83	0.16	0	0	0.09	0.96
2002	321	23	1	955.838	-260.274	D	8.142	8.142	0	4.52	0	0	0	0	0	0
2002	322	23	204	947.34	-251.078	D	7.545	7.536	0.008	3.179	95.11	0.31	0	0	0.45	4.12
2002	323	23	3	958.027	-260.011	D	7.895	7.868	0.027	3.903	95.94	0.54	0	0	0.38	3.13
2002	324	23	9	954.269	-259.534	D	7.122	7.101	0.021	2.264	98.1	0.07	0	0	0.06	1.76
2002	325	23	285	962.313	-246.493	D	7.77	7.704	0.066	3.542	94.29	0.25	0	0	0.69	4.77
2002	326	23	1	955.838	-260.274	D	7.495	7.495	0	3.09	0	0	0	0	0	0
2002	327	23	3	958.027	-260.011	D	6.776	6.775	0.001	1.605	94.8	0.04	0	0	0.43	4.64
2002	328	23	295	962.931	-245.49	D	6.674	6.673	0.001	1.405	73.32	0.02	0	0	9.03	17.53
2002	329	23	172	943.804	-252.427	D	7.102	7.1	0.003	2.262	91.64	0.01	0	0	1.18	7.13
2002	330	23	3	958.027	-260.011	D	9.572	9.572	0	8.025	87.99	0	0	0	0.98	6.73
2002	331	23	1	955.838	-260.274	D	9.13	9.13	0	6.886	0	0	0	0	0	0
2002	332	23	119	945.479	-254.084	D	6.92	6.92	0	1.896	91.19	0.08	0	0	0.21	5.23
2002	333	23	297	944.609	-246.761	D	6.8	6.794	0.006	1.643	87.22	0.26	0	0	1.37	11.15
2002	334	23	8	961.676	-259.571	D	6.983	6.974	0.009	2.006	65.37	0.84	0	0	3.04	30.73
2002	335	23	1	955.838	-260.274	D	6.593	6.593	0	1.247	0	0	0	0	0	0
2002	336	23	297	944.609	-246.761	D	6.514	6.51	0.004	1.086	78.21	0.36	0	0	1.39	20.06
2002	337	23	119	945.479	-254.084	D	7.025	7.019	0.006	2.097	77.13	0.26	0	0	0.7	21.89
2002	338	23	1	955.838	-260.274	D	8.31	8.31	0	4.906	0	0	0	0	0	0
2002	339	23	1	955.838	-260.274	D	9.492	9.492	0	7.814	0	0	0	0	0	0
2002	340	23	1	955.838	-260.274	D	7.848	7.848	0	3.858	0	0	0	0	0	0
2002	341	23	297	944.609	-246.761	D	7.639	7.62	0.019	3.36	95.27	0.31	0	0	0.23	4.17
2002	342	23	172	943.804	-252.427	D	8.067	7.959	0.108	4.106	98.91	0.02	0	0	0.22	0.85
2002	343	23	6	960.217	-259.747	D	7.708	7.682	0.026	3.493	99.67	0.01	0	0	0.02	0.3
2002	344	23	1	955.838	-260.274	D	8.116	8.116	0	4.461	0	0	0	0	0	0
2002	345	23	1	955.838	-260.274	D	10.176	10.176	0	9.662	0	0	0	0	0	0
2002	346	23	275	944.098	-248.678	D	9.907	9.876	0.031	8.836	98.69	0.19	0	0	0.13	0.98
2002	347	23	275	944.098	-248.678	D	10.06	10.058	0.001	9.335	98.17	0.22	0	0	0.08	1.42
2002	348	23	1	955.838	-260.274	D	9.07	9.07	0	6.736	0	0	0	0	0	0
2002	349	23	3	958.027	-260.011	D	8.908	8.846	0.061	6.183	98.23	0.32	0	0	0.13	1.32
2002	350	23	8	961.676	-259.571	D	10.249	9.648	**0.601**	8.225	99.21	0.06	0	0	0.15	0.58

Appendix M
Mammoth Cave
MC 2002 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	351	23	297	944.609	-246.761	D	9.781	9.485	0.296	7.796	99.76	0.01	0	0	0.01	0.22
2002	352	23	1	955.838	-260.274	D	7.237	7.237	0	2.546	0	0	0	0	0	0
2002	353	23	1	955.838	-260.274	D	8.404	8.404	0	5.124	0	0	0	0	0	0
2002	354	23	8	961.676	-259.571	D	8.959	8.947	0.012	6.431	86.01	0.27	0	0	1	12.71
2002	355	23	297	944.609	-246.761	D	7.257	7.208	0.049	2.485	70.71	0.65	0	0	1.97	26.66
2002	356	23	8	961.676	-259.571	D	7.412	7.401	0.011	2.89	91.49	0.42	0	0	0.38	7.71
2002	357	23	1	955.838	-260.274	D	7.073	7.073	0	2.207	0	0	0	0	0	0
2002	358	23	1	955.838	-260.274	D	9.363	9.363	0	7.48	0	0	0	0	0	0
2002	359	23	1	955.838	-260.274	D	8.999	8.999	0	6.56	0	0	0	0	0	0
2002	360	23	1	955.838	-260.274	D	7.552	7.552	0	3.212	0	0	0	0	0	0
2002	361	23	172	943.804	-252.427	D	8.283	8.283	0.001	4.843	88.05	0.93	0	0	0.43	10.34
2002	362	23	290	946.175	-247.503	D	8.512	8.186	0.326	4.618	98.7	0.11	0	0	0.17	1.02
2002	363	23	297	944.609	-246.761	D	7.407	7.407	0.001	2.903	72.07	0.02	0	0	6.27	21.58
2002	364	23	1	955.838	-260.274	D	7.556	7.556	0	3.221	0	0	0	0	0	0
2002	365	23	1	955.838	-260.274	D	8.267	8.267	0	4.806	0	0	0	0	0	0
									1.197							

Appendix M
Mammoth Cave
MC 2003 M2

NORANDA									DELTA		% of Modeled Extinction by Species					
YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	1	23	1	955.838	-260.274	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2003	2	23	1	955.838	-260.274	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2003	3	23	159	955.578	-251.949	D	8.918	8.918	0	6.358	47.26	0	0	0	1.66	2.58
2003	4	23	119	945.479	-254.084	D	7.909	7.906	0.002	3.987	97.84	0.11	0	0	0.16	1.86
2003	5	23	227	964.103	-249.062	D	8.726	8.577	0.149	5.533	98.91	0.08	0	0	0.15	0.85
2003	6	23	33	962.185	-257.652	D	9.037	9.037	0	6.654	57	4.81	0	0	0.02	16.68
2003	7	23	297	944.609	-246.761	D	8.135	8.126	0.009	4.483	97.14	0.12	0	0	0.07	2.67
2003	8	23	8	961.676	-259.571	D	7.706	7.64	0.066	3.404	94.24	0.07	0	0	0.41	5.27
2003	9	23	8	961.676	-259.571	D	7.799	7.784	0.014	3.718	59.29	2.6	0	0	2.54	35.56
2003	10	23	1	955.838	-260.274	D	7.506	7.506	0	3.113	0	0	0	0	0	0
2003	11	23	1	955.838	-260.274	D	7.068	7.068	0	2.197	0	0	0	0	0	0
2003	12	23	1	955.838	-260.274	D	6.642	6.642	0	1.343	0	0	0	0	0	0
2003	13	23	297	944.609	-246.761	D	6.785	6.747	0.038	1.55	86.15	0.45	0	0	0.66	12.75
2003	14	23	9	954.269	-259.534	D	8.782	8.568	0.214	5.511	98.13	0.17	0	0	0.17	1.52
2003	15	23	1	955.838	-260.274	D	7.471	7.471	0	3.039	0	0	0	0	0	0
2003	16	23	1	955.838	-260.274	D	7.326	7.326	0	2.732	0	0	0	0	0	0
2003	17	23	1	955.838	-260.274	D	8.874	8.874	0	6.252	0	0	0	0	0	0
2003	18	23	21	963.025	-258.479	D	7.705	7.703	0.002	3.539	97.73	0.27	0	0	0.14	1.8
2003	19	23	297	944.609	-246.761	D	9.119	9.059	0.06	6.709	96.64	0.16	0	0	0.24	2.96
2003	20	23	5	959.487	-259.835	D	7.31	7.275	0.035	2.625	77.44	0.73	0	0	1.52	20.31
2003	21	23	1	955.838	-260.274	D	7.461	7.406	0.055	2.901	96.24	0.2	0	0	0.15	3.41
2003	22	23	1	955.838	-260.274	D	7.563	7.563	0	3.236	0	0	0	0	0	0
2003	23	23	1	955.838	-260.274	D	7.681	7.681	0	3.491	0	0	0	0	0	0
2003	24	23	1	955.838	-260.274	D	7.423	7.423	0	2.936	0	0	0	0	0	0
2003	25	23	297	944.609	-246.761	D	6.94	6.86	0.08	1.775	92.78	0.21	0	0	0.86	6.15
2003	26	23	290	946.175	-247.503	D	7.409	7.375	0.034	2.836	90.54	0.34	0	0	1.05	8.07
2003	27	23	1	955.838	-260.274	D	7.363	7.363	0	2.81	0	0	0	0	0	0
2003	28	23	1	955.838	-260.274	D	6.9	6.9	0	1.856	0	0	0	0	0	0
2003	29	23	172	943.804	-252.427	D	9.678	9.675	0.003	8.296	99.35	0.02	0	0	0.12	0.47
2003	30	23	1	955.838	-260.274	D	9.253	9.253	0	7.199	0	0	0	0	0	0
2003	31	23	1	955.838	-260.274	D	8.53	8.53	0	5.421	0	0	0	0	0	0
2003	32	23	1	955.838	-260.274	D	9.424	9.349	0.075	7.444	98.64	0.15	0	0	0.1	1.11
2003	33	23	297	944.609	-246.761	D	8.589	8.555	0.034	5.48	99.08	0.1	0	0	0.02	0.79
2003	34	23	1	955.838	-260.274	D	7.806	7.806	0	3.765	0	0	0	0	0	0
2003	35	23	297	944.609	-246.761	D	8.171	8.166	0.005	4.574	94.1	0.45	0	0	0.59	4.87
2003	36	23	1	955.838	-260.274	D	7.153	7.153	0	2.372	0	0	0	0	0	0
2003	37	23	1	955.838	-260.274	D	7.339	7.339	0	2.76	0	0	0	0	0	0
2003	38	23	1	955.838	-260.274	D	9.465	9.465	0	7.745	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	39	23	297	944.609	-246.761	D	8.137	8.134	0.004	4.5	97.37	0.09	0	0	0.18	2.38
2003	40	23	297	944.609	-246.761	D	7.2	7.158	0.042	2.382	94.15	0.07	0	0	1.34	4.44
2003	41	23	302	963.548	-244.486	D	9.711	9.568	0.143	8.014	99.07	0.16	0	0	0.08	0.69
2003	42	23	300	962.092	-244.663	D	9.656	9.591	0.065	8.073	94.83	0.22	0	0	0.22	4.73
2003	43	23	8	961.676	-259.571	D	7.813	7.812	0.001	3.778	77.73	1.49	0	0	0.8	19.94
2003	44	23	297	944.609	-246.761	D	6.834	6.824	0.009	1.704	96.3	0.05	0	0	0.58	3.06
2003	45	23	297	944.609	-246.761	D	8.993	8.958	0.036	6.457	98.69	0.08	0	0	0.09	1.13
2003	46	23	1	955.838	-260.274	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2003	47	23	1	955.838	-260.274	D	10.218	10.218	0	9.779	0	0	0	0	0	0
2003	48	23	1	955.838	-260.274	D	8.967	8.967	0	6.481	0	0	0	0	0	0
2003	49	23	297	944.609	-246.761	D	8.595	8.57	0.025	5.515	98.53	0.1	0	0	0.16	1.2
2003	50	23	200	964.214	-249.977	D	8.574	8.567	0.008	5.508	94.35	0.94	0	0	0.21	4.49
2003	51	23	290	946.175	-247.503	D	9.571	9.571	0	8.021	93.09	0.01	0	0	2.48	3.96
2003	52	23	1	955.838	-260.274	D	9.469	9.469	0	7.754	0	0	0	0	0	0
2003	53	23	1	955.838	-260.274	D	10.155	10.155	0	9.603	0	0	0	0	0	0
2003	54	23	1	955.838	-260.274	D	8.606	8.606	0	5.601	0	0	0	0	0	0
2003	55	23	6	960.217	-259.747	D	8.402	8.402	0	5.119	52.64	0	0	0	6.74	13.47
2003	56	23	30	959.996	-257.917	D	7.38	7.38	0	2.846	18.52	0	0	0	0.44	3.64
2003	57	23	1	955.838	-260.274	D	7.711	7.711	0	3.557	0	0	0	0	0	0
2003	58	23	1	955.838	-260.274	D	9.81	9.81	0	8.658	0	0	0	0	0	0
2003	59	23	1	955.838	-260.274	D	9.644	9.644	0	8.213	0	0	0	0	0	0
2003	60	23	297	944.609	-246.761	D	7.787	7.786	0.001	3.721	91.12	0	0	0	2.87	6.01
2003	61	23	172	943.804	-252.427	D	9.879	9.332	**0.547**	7.401	99.62	0.06	0	0	0.02	0.3
2003	62	23	1	955.838	-260.274	D	7.38	7.38	0	2.847	0	0	0	0	0	0
2003	63	23	1	955.838	-260.274	D	6.768	6.768	0	1.591	0	0	0	0	0	0
2003	64	23	172	943.804	-252.427	D	9.551	9.434	0.117	7.664	99.17	0.08	0	0	0.08	0.66
2003	65	23	1	955.838	-260.274	D	9.398	9.2	0.198	7.064	99.45	0.09	0	0	0.02	0.45
2003	66	23	1	955.838	-260.274	D	8.691	8.691	0	5.805	0	0	0	0	0	0
2003	67	23	1	955.838	-260.274	D	6.844	6.844	0	1.742	0	0	0	0	0	0
2003	68	23	5	959.487	-259.835	D	7.979	7.966	0.014	4.12	94.81	0.43	0	0	0.4	4.37
2003	69	23	1	955.838	-260.274	D	6.863	6.863	0	1.782	0	0	0	0	0	0
2003	70	23	119	945.479	-254.084	D	6.551	6.551	0	1.166	75.69	0	0	0	7.36	19.84
2003	71	23	297	944.609	-246.761	D	6.883	6.881	0.002	1.817	66.7	0.01	0	0	11.35	21.9
2003	72	23	201	945.153	-251.338	D	7.777	7.719	0.058	3.574	98.96	0.03	0	0	0.08	0.93
2003	73	23	1	955.838	-260.274	D	8.914	8.914	0	6.348	98.77	0	0	0	0.01	0.28
2003	74	23	1	955.838	-260.274	D	8.043	8.043	0	4.294	0	0	0	0	0	0
2003	75	23	1	955.838	-260.274	D	8.48	8.48	0	5.304	0	0	0	0	0	0
2003	76	23	1	955.838	-260.274	D	8.12	8.12	0	4.468	0	0	0	0	0	0
2003	77	23	1	955.838	-260.274	D	8.521	8.521	0	5.4	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	78	23	1	955.838	-260.274	D	9.308	9.308	0	7.339	0	0	0	0	0	0
2003	79	23	1	955.838	-260.274	D	8.503	8.503	0	5.358	0	0	0	0	0	0
2003	80	23	119	945.479	-254.084	D	8.724	8.69	0.034	5.804	96.82	0.09	0	0	0.39	2.7
2003	81	23	21	963.025	-258.479	D	7.46	7.46	0	3.015	49.23	3.37	0	0	0.08	47.38
2003	82	23	172	943.804	-252.427	D	6.618	6.612	0.006	1.283	94.55	0.01	0	0	0.77	4.64
2003	83	23	8	961.676	-259.571	D	6.644	6.608	0.036	1.277	87.81	0.05	0	0	1.02	11.11
2003	84	23	297	944.609	-246.761	D	6.989	6.989	0	2.036	86.26	0.25	0	0	0.95	12.05
2003	85	23	8	961.676	-259.571	D	8.621	8.58	0.041	5.54	97.85	0.25	0	0	0.05	1.84
2003	86	23	9	954.269	-259.534	D	7.033	7.032	0.001	2.124	97.87	0.06	0	0	0.06	2.03
2003	87	23	1	955.838	-260.274	D	7.178	7.178	0	2.424	0	0	0	0	0	0
2003	88	23	5	959.487	-259.835	D	8.371	8.344	0.026	4.985	98.32	0.13	0	0	0.05	1.51
2003	89	23	1	955.838	-260.274	D	7.624	7.624	0	3.368	0	0	0	0	0	0
2003	90	23	297	944.609	-246.761	D	7.04	7.039	0.001	2.138	88.57	0.02	0	0	1.44	9.97
2003	91	23	302	963.548	-244.486	D	6.55	6.549	0	1.162	89.2	0.05	0	0	0.97	10.01
2003	92	23	1	955.838	-260.274	D	6.784	6.784	0	1.623	0	0	0	0	0	0
2003	93	23	1	955.838	-260.274	D	6.921	6.921	0	1.897	0	0	0	0	0	0
2003	94	23	1	955.838	-260.274	D	6.957	6.957	0	1.971	0	0	0	0	0	0
2003	95	23	302	963.548	-244.486	D	8.295	8.286	0.009	4.849	93.78	0.41	0	0	0.59	5.21
2003	96	23	1	955.838	-260.274	D	7.489	7.489	0	3.078	0	0	0	0	0	0
2003	97	23	275	944.098	-248.678	D	9.573	9.517	0.056	7.88	99.62	0	0	0	0.09	0.28
2003	98	23	1	955.838	-260.274	D	9.388	9.174	0.215	6.997	99.88	0	0	0	0.01	0.1
2003	99	23	1	955.838	-260.274	D	10.113	10.113	0	9.486	0	0	0	0	0	0
2003	100	23	1	955.838	-260.274	D	9.706	9.706	0	8.379	0	0	0	0	0	0
2003	101	23	1	955.838	-260.274	D	7.068	7.068	0	2.197	0	0	0	0	0	0
2003	102	23	1	955.838	-260.274	D	6.568	6.568	0	1.198	0	0	0	0	0	0
2003	103	23	1	955.838	-260.274	D	6.608	6.608	0	1.277	0	0	0	0	0	0
2003	104	23	8	961.676	-259.571	D	6.713	6.708	0.005	1.473	95.61	0.01	0	0	0.45	3.92
2003	105	23	296	963.659	-245.401	D	7.206	7.206	0	2.481	73.72	0.01	0	0	0.46	18.91
2003	106	23	1	955.838	-260.274	D	7.317	7.317	0	2.712	0	0	0	0	0	0
2003	107	23	31	960.725	-257.829	D	7.724	7.71	0.014	3.555	92.54	0.02	0	0	0.55	6.88
2003	108	23	302	963.548	-244.486	D	8.064	8.063	0	4.34	77.92	1.02	0	0	0.29	20.4
2003	109	23	143	962.978	-251.984	D	7.831	7.831	0	3.822	89.93	0.16	0	0	0.18	7.23
2003	110	23	1	955.838	-260.274	D	7.279	7.279	0	2.634	0	0	0	0	0	0
2003	111	23	1	955.838	-260.274	D	8.721	8.712	0.009	5.857	87.53	0.16	0	0	1.46	10.85
2003	112	23	21	963.025	-258.479	D	7.673	7.672	0.001	3.472	81.56	0.06	0	0	1.49	16.93
2003	113	23	1	955.838	-260.274	D	6.902	6.902	0	1.861	0	0	0	0	0	0
2003	114	23	1	955.838	-260.274	D	6.879	6.879	0	1.813	0	0	0	0	0	0
2003	115	23	1	955.838	-260.274	D	9.478	9.478	0	7.778	0	0	0	0	0	0
2003	116	23	1	955.838	-260.274	D	8.895	8.895	0	6.301	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	117	23	1	955.838	-260.274	D	6.72	6.72	0	1.496	0	0	0	0	0	0
2003	118	23	1	955.838	-260.274	D	6.81	6.81	0	1.675	0	0	0	0	0	0
2003	119	23	302	963.548	-244.486	D	7.493	7.466	0.027	3.029	95.94	0.06	0	0	0.98	3.03
2003	120	23	297	944.609	-246.761	D	7.442	7.435	0.007	2.962	98.3	0	0	0	0.14	1.55
2003	121	23	297	944.609	-246.761	D	7.585	7.584	0.001	3.281	97.41	0.01	0	0	0.46	2.23
2003	122	23	8	961.676	-259.571	D	9.315	9.24	0.075	7.165	98.01	0.21	0	0	0.3	1.48
2003	123	23	1	955.838	-260.274	D	8.839	8.839	0	6.164	0	0	0	0	0	0
2003	124	23	1	955.838	-260.274	D	7.485	7.485	0	3.069	0	0	0	0	0	0
2003	125	23	1	955.838	-260.274	D	8.499	8.499	0	5.347	0	0	0	0	0	0
2003	126	23	297	944.609	-246.761	D	9.87	9.87	0	8.819	88.96	0	0	0	2.82	4.72
2003	127	23	288	944.718	-247.676	D	9.336	9.336	0	7.412	91.06	0	0	0	2.88	5.43
2003	128	23	9	954.269	-259.534	D	9.223	9.054	0.169	6.697	98.98	0.08	0	0	0.13	0.82
2003	129	23	302	963.548	-244.486	D	8.675	8.675	0	5.766	97.07	0	0	0	0.61	2.55
2003	130	23	1	955.838	-260.274	D	8.308	8.308	0	4.902	0	0	0	0	0	0
2003	131	23	8	961.676	-259.571	D	8.097	8.089	0.008	4.399	89.24	0.21	0	0	0.51	10.05
2003	132	23	8	961.676	-259.571	D	6.606	6.604	0.001	1.269	85.77	0.01	0	0	1.5	12.71
2003	133	23	1	955.838	-260.274	D	6.614	6.614	0	1.288	0	0	0	0	0	0
2003	134	23	297	944.609	-246.761	D	6.843	6.832	0.011	1.72	96.3	0.01	0	0	0.29	3.4
2003	135	23	302	963.548	-244.486	D	8.942	8.769	0.173	5.995	98.24	0.19	0	0	0.23	1.34
2003	136	23	6	960.217	-259.747	D	8.381	8.203	0.178	4.659	99.43	0.02	0	0	0.05	0.49
2003	137	23	297	944.609	-246.761	D	9.177	9.165	0.012	6.975	99.17	0.02	0	0	0.06	0.75
2003	138	23	1	955.838	-260.274	D	9.009	9.009	0	6.585	0	0	0	0	0	0
2003	139	23	1	955.838	-260.274	D	8.693	8.693	0	5.81	0	0	0	0	0	0
2003	140	23	172	943.804	-252.427	D	9.061	8.905	0.156	6.327	99.42	0.01	0	0	0.11	0.46
2003	141	23	1	955.838	-260.274	D	9.468	9.296	0.172	7.308	99.64	0.03	0	0	0.03	0.3
2003	142	23	1	955.838	-260.274	D	7.287	7.287	0	2.65	96.15	0	0	0	0.59	4.76
2003	143	23	1	955.838	-260.274	D	6.912	6.912	0	1.879	0	0	0	0	0	0
2003	144	23	1	955.838	-260.274	D	6.666	6.666	0	1.389	0	0	0	0	0	0
2003	145	23	6	960.217	-259.747	D	7.419	7.419	0	2.928	21.69	0	0	0	4.15	6.67
2003	146	23	3	958.027	-260.011	D	9.044	9.044	0	6.672	53.6	0	0	0	0.74	1.3
2003	147	23	1	955.838	-260.274	D	7.389	7.389	0	2.865	0	0	0	0	0	0
2003	148	23	8	961.676	-259.571	D	6.904	6.904	0	1.863	85.82	0	0	0	1.42	12.66
2003	149	23	8	961.676	-259.571	D	7.743	7.743	0	3.627	74.52	0.01	0	0	1.93	23.34
2003	150	23	172	943.804	-252.427	D	6.923	6.923	0	1.901	104.43	0	0	0	0.35	1.14
2003	151	23	48	963.533	-256.561	D	7.34	7.32	0.02	2.72	91.9	0.2	0	0	0.8	7.1
2003	152	23	1	955.838	-260.274	D	7.97	7.97	0	4.129	0	0	0	0	0	0
2003	153	23	1	955.838	-260.274	D	6.813	6.813	0	1.682	0	0	0	0	0	0
2003	154	23	297	944.609	-246.761	D	8.834	8.765	0.069	5.985	98.17	0.03	0	0	0.13	1.67
2003	155	23	21	963.025	-258.479	D	8.321	8.296	0.025	4.872	99.13	0.02	0	0	0.03	0.81

Appendix M
Mammoth Cave
MC 2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	156	23	1	955.838	-260.274	D	7.214	7.214	0	2.497	0	0	0	0	0	0
2003	157	23	1	955.838	-260.274	D	6.974	6.974	0	2.005	0	0	0	0	0	0
2003	158	23	144	944.641	-253.256	D	9.509	9.509	0	7.859	85.33	0	0	0	2.2	5.42
2003	159	23	1	955.838	-260.274	D	8.65	8.57	0.08	5.515	97.3	0.01	0	0	0.54	2.15
2003	160	23	3	958.027	-260.011	D	6.923	6.904	0.019	1.863	93.48	0.02	0	0	0.79	5.72
2003	161	23	1	955.838	-260.274	D	6.784	6.757	0.027	1.569	93.07	0.01	0	0	0.65	6.28
2003	162	23	1	955.838	-260.274	D	8.376	8.376	0	5.059	0	0	0	0	0	0
2003	163	23	297	944.609	-246.761	D	9.307	9.186	0.121	7.028	97.86	0.03	0	0	0.11	1.99
2003	164	23	297	944.609	-246.761	D	8.562	8.546	0.016	5.459	98.1	0	0	0	0.08	1.82
2003	165	23	297	944.609	-246.761	D	8.611	8.546	0.065	5.458	99.58	0	0	0	0.08	0.34
2003	166	23	171	964.325	-250.892	D	8.691	8.516	0.175	5.388	99.26	0.01	0	0	0.06	0.67
2003	167	23	1	955.838	-260.274	D	8.592	8.528	0.064	5.417	99.44	0.03	0	0	0.04	0.49
2003	168	23	8	961.676	-259.571	D	8.664	8.642	0.023	5.687	99.61	0.02	0	0	0.02	0.33
2003	169	23	293	961.474	-245.666	D	7.867	7.867	0	3.901	85.71	0	0	0	0.85	5.51
2003	170	23	1	955.838	-260.274	D	8.654	8.654	0	5.718	0	0	0	0	0	0
2003	171	23	1	955.838	-260.274	D	8.171	8.171	0	4.584	0	0	0	0	0	0
2003	172	23	1	955.838	-260.274	D	6.641	6.641	0	1.341	0	0	0	0	0	0
2003	173	23	1	955.838	-260.274	D	6.602	6.602	0	1.265	0	0	0	0	0	0
2003	174	23	1	955.838	-260.274	D	6.639	6.639	0	1.336	0	0	0	0	0	0
2003	175	23	1	955.838	-260.274	D	6.704	6.704	0	1.466	0	0	0	0	0	0
2003	176	23	1	955.838	-260.274	D	6.805	6.805	0	1.665	0	0	0	0	0	0
2003	177	23	297	944.609	-246.761	D	7.389	7.388	0.001	2.864	98.39	0.03	0	0	0.32	1.18
2003	178	23	1	955.838	-260.274	D	8.626	8.553	0.073	5.475	99.43	0.06	0	0	0.04	0.47
2003	179	23	3	958.027	-260.011	D	6.645	6.645	0	1.348	87.71	0.04	0	0	0.61	7.6
2003	180	23	6	960.217	-259.747	D	6.645	6.645	0	1.349	81.31	0.01	0	0	0.78	13.56
2003	181	23	288	944.718	-247.676	D	7.209	7.209	0	2.488	82.49	0	0	0	5.96	11.29
2003	182	23	149	948.287	-252.822	D	8.609	8.609	0	5.609	42.66	0	0	0	1.74	3.42
2003	183	23	1	955.838	-260.274	D	8.095	8.095	0	4.412	0	0	0	0	0	0
2003	184	23	1	955.838	-260.274	D	7.426	7.426	0	2.942	0	0	0	0	0	0
2003	185	23	297	944.609	-246.761	D	6.984	6.974	0.011	2.005	98.42	0	0	0	0.1	1.47
2003	186	23	188	955.468	-251.034	D	7.459	7.459	0	3.013	64.87	0	0	0	1.9	3.18
2003	187	23	1	955.838	-260.274	D	8.565	8.565	0	5.504	0	0	0	0	0	0
2003	188	23	302	963.548	-244.486	D	8.937	8.919	0.018	6.361	97.49	0.08	0	0	0.57	1.86
2003	189	23	302	963.548	-244.486	D	8.543	8.519	0.025	5.394	96.82	0.08	0	0	0.48	2.62
2003	190	23	297	944.609	-246.761	D	7.853	7.852	0	3.867	98.56	0	0	0	0.31	0.93
2003	191	23	171	964.325	-250.892	D	9.471	9.437	0.035	7.67	98.36	0.01	0	0	0.2	1.43
2003	192	23	1	955.838	-260.274	D	8.765	8.765	0	5.985	0	0	0	0	0	0
2003	193	23	302	963.548	-244.486	D	7.113	7.086	0.026	2.234	95.6	0	0	0	0.4	3.99
2003	194	23	34	962.914	-257.564	D	7.446	7.446	0	2.986	70.24	0.03	0	0	0.59	24

Appendix M
Mammoth Cave
MC 2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	195	23	1	955.838	-260.274	D	8.344	8.333	0.011	4.958	98.92	0.01	0	0	0.18	0.88
2003	196	23	8	961.676	-259.571	D	7.215	7.175	0.04	2.417	99.23	0	0	0	0.07	0.69
2003	197	23	3	958.027	-260.011	D	8.304	8.262	0.042	4.794	95.8	0.08	0	0	0.96	3.15
2003	198	23	1	955.838	-260.274	D	7.455	7.455	0	3.004	0	0	0	0	0	0
2003	199	23	1	955.838	-260.274	D	6.976	6.976	0	2.009	0	0	0	0	0	0
2003	200	23	1	955.838	-260.274	D	8.444	8.44	0.004	5.209	99.71	0	0	0	0.03	0.23
2003	201	23	1	955.838	-260.274	D	7.777	7.777	0	3.702	0	0	0	0	0	0
2003	202	23	297	944.609	-246.761	D	7.998	7.987	0.01	4.169	99.15	0.01	0	0	0.11	0.73
2003	203	23	297	944.609	-246.761	D	9.348	9.284	0.065	7.276	99.15	0.04	0	0	0.06	0.75
2003	204	23	1	955.838	-260.274	D	8.544	8.544	0	5.455	0	0	0	0	0	0
2003	205	23	1	955.838	-260.274	D	8.161	8.161	0	4.561	0	0	0	0	0	0
2003	206	23	1	955.838	-260.274	D	6.787	6.787	0	1.63	0	0	0	0	0	0
2003	207	23	1	955.838	-260.274	D	6.973	6.973	0	2.003	0	0	0	0	0	0
2003	208	23	1	955.838	-260.274	D	7.671	7.671	0	3.469	0	0	0	0	0	0
2003	209	23	297	944.609	-246.761	D	7.568	7.492	0.076	3.084	96.97	0.01	0	0	0.37	2.66
2003	210	23	21	963.025	-258.479	D	9.19	9.066	0.125	6.725	98.76	0.1	0	0	0.04	1.09
2003	211	23	1	955.838	-260.274	D	7.175	7.175	0	2.417	0	0	0	0	0	0
2003	212	23	9	954.269	-259.534	D	8.358	8.189	0.17	4.626	99.38	0.01	0	0	0.07	0.54
2003	213	23	9	954.269	-259.534	D	8.639	8.495	0.144	5.338	99.43	0.01	0	0	0.06	0.5
2003	214	23	299	946.066	-246.588	D	8.081	7.811	0.269	3.778	98.45	0.03	0	0	0.14	1.38
2003	215	23	172	943.804	-252.427	D	8.701	8.573	0.127	5.524	98.89	0.04	0	0	0.22	0.84
2003	216	23	297	944.609	-246.761	D	8.114	8.04	0.074	4.289	98.82	0.03	0	0	0.21	0.94
2003	217	23	1	955.838	-260.274	D	8.075	7.773	0.302	3.694	98.88	0.03	0	0	0.08	1.01
2003	218	23	8	961.676	-259.571	D	7.072	7.072	0	2.205	31.96	0.01	0	0	2.57	9.47
2003	219	23	1	955.838	-260.274	D	8.11	8.11	0	4.446	0	0	0	0	0	0
2003	220	23	1	955.838	-260.274	D	7.724	7.724	0	3.585	0	0	0	0	0	0
2003	221	23	1	955.838	-260.274	D	7.706	7.706	0	3.545	0	0	0	0	0	0
2003	222	23	1	955.838	-260.274	D	8.556	8.556	0	5.483	0	0	0	0	0	0
2003	223	23	1	955.838	-260.274	D	7.884	7.884	0	3.937	0	0	0	0	0	0
2003	224	23	1	955.838	-260.274	D	8.494	8.494	0	5.337	0	0	0	0	0	0
2003	225	23	1	955.838	-260.274	D	7.635	7.635	0	3.392	0	0	0	0	0	0
2003	226	23	1	955.838	-260.274	D	7.821	7.821	0	3.799	0	0	0	0	0	0
2003	227	23	275	944.098	-248.678	D	7.742	7.74	0.002	3.62	98.06	0	0	0	0.37	1.56
2003	228	23	119	945.479	-254.084	D	7.822	7.796	0.026	3.744	99.09	0	0	0	0.05	0.86
2003	229	23	119	945.479	-254.084	D	7.628	7.628	0	3.375	8.7	0	0	0	0.24	2.19
2003	230	23	1	955.838	-260.274	D	8.609	8.609	0	5.61	0	0	0	0	0	0
2003	231	23	1	955.838	-260.274	D	7.266	7.266	0	2.606	0	0	0	0	0	0
2003	232	23	1	955.838	-260.274	D	7.122	7.122	0	2.307	0	0	0	0	0	0
2003	233	23	275	944.098	-248.678	D	7.192	7.18	0.012	2.428	98.06	0	0	0	0.24	1.69

Appendix M
Mammoth Cave
MC 2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	234	23	297	944.609	-246.761	D	8.29	8.033	0.257	4.271	98.77	0.01	0	0	0.18	1.04
2003	235	23	34	962.914	-257.564	D	8.582	8.447	0.136	5.224	98.38	0.01	0	0	0.05	1.56
2003	236	23	1	955.838	-260.274	D	6.998	6.998	0	2.053	0	0	0	0	0	0
2003	237	23	1	955.838	-260.274	D	6.762	6.762	0	1.58	0	0	0	0	0	0
2003	238	23	1	955.838	-260.274	D	6.942	6.942	0	1.94	0	0	0	0	0	0
2003	239	23	297	944.609	-246.761	D	7.83	7.779	0.051	3.705	99.25	0	0	0	0.11	0.64
2003	240	23	119	945.479	-254.084	D	9.41	8.973	0.437	6.494	98.7	0.04	0	0	0.08	1.18
2003	241	23	1	955.838	-260.274	D	8.494	8.494	0	5.335	0	0	0	0	0	0
2003	242	23	297	944.609	-246.761	D	9.618	9.475	0.143	7.771	98.64	0.04	0	0	0.29	1.03
2003	243	23	297	944.609	-246.761	D	9.275	9.162	0.113	6.968	99.48	0.02	0	0	0.05	0.44
2003	244	23	1	955.838	-260.274	D	9.065	9.065	0	6.724	0	0	0	0	0	0
2003	245	23	298	945.337	-246.674	D	10.148	10.1	0.048	9.449	98.75	0.09	0	0	0.12	1.02
2003	246	23	297	944.609	-246.761	D	10.24	10.218	0.022	9.779	99.48	0	0	0	0.15	0.35
2003	247	23	172	943.804	-252.427	D	9.184	9.114	0.07	6.847	99.5	0	0	0	0.07	0.43
2003	248	23	1	955.838	-260.274	D	7.433	7.433	0	2.959	0	0	0	0	0	0
2003	249	23	1	955.838	-260.274	D	7.193	7.193	0	2.455	0	0	0	0	0	0
2003	250	23	1	955.838	-260.274	D	7.079	7.079	0	2.219	0	0	0	0	0	0
2003	251	23	1	955.838	-260.274	D	7.396	7.396	0	2.879	0	0	0	0	0	0
2003	252	23	1	955.838	-260.274	D	7.104	7.104	0	2.271	0	0	0	0	0	0
2003	253	23	1	955.838	-260.274	D	6.982	6.982	0	2.022	0	0	0	0	0	0
2003	254	23	1	955.838	-260.274	D	7.139	7.139	0	2.342	0	0	0	0	0	0
2003	255	23	1	955.838	-260.274	D	6.853	6.853	0	1.762	0	0	0	0	0	0
2003	256	23	1	955.838	-260.274	D	6.867	6.867	0	1.789	0	0	0	0	0	0
2003	257	23	172	943.804	-252.427	D	7.971	7.967	0.004	4.123	98.2	0	0	0	0.22	1.58
2003	258	23	5	959.487	-259.835	D	8.61	8.559	0.051	5.489	97.56	0.07	0	0	0.07	2.3
2003	259	23	1	955.838	-260.274	D	6.641	6.641	0	1.341	0	0	0	0	0	0
2003	260	23	1	955.838	-260.274	D	6.71	6.71	0	1.477	0	0	0	0	0	0
2003	261	23	1	955.838	-260.274	D	6.869	6.869	0	1.794	0	0	0	0	0	0
2003	262	23	1	955.838	-260.274	D	7.146	7.138	0.008	2.34	99.1	0	0	0	0.17	0.73
2003	263	23	2	956.568	-260.187	D	7.41	7.41	0	2.908	76.46	0	0	0	0.35	13.23
2003	264	23	1	955.838	-260.274	D	6.853	6.853	0	1.762	0	0	0	0	0	0
2003	265	23	1	955.838	-260.274	D	9.361	9.361	0	7.475	0	0	0	0	0	0
2003	266	23	1	955.838	-260.274	D	7.891	7.891	0	3.954	0	0	0	0	0	0
2003	267	23	297	944.609	-246.761	D	6.816	6.815	0.001	1.686	95.15	0	0	0	0.47	4.32
2003	268	23	172	943.804	-252.427	D	7.129	7.117	0.011	2.298	96.3	0.02	0	0	0.45	3.23
2003	269	23	6	960.217	-259.747	D	6.974	6.946	0.028	1.948	98.11	0	0	0	0.15	1.74
2003	270	23	21	963.025	-258.479	D	8.652	8.61	0.042	5.611	98.71	0.09	0	0	0.13	1.07
2003	271	23	1	955.838	-260.274	D	7.242	7.242	0	2.557	0	0	0	0	0	0
2003	272	23	1	955.838	-260.274	D	7.071	7.071	0	2.203	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	273	23	1	955.838	-260.274	D	6.565	6.565	0	1.193	0	0	0	0	0	0
2003	274	23	1	955.838	-260.274	D	8.586	8.586	0	5.553	0	0	0	0	0	0
2003	275	23	1	955.838	-260.274	D	6.585	6.585	0	1.231	0	0	0	0	0	0
2003	276	23	177	947.449	-251.993	D	6.502	6.502	0	1.07	11.05	0	0	0	15.57	27.15
2003	277	23	8	961.676	-259.571	D	6.643	6.629	0.014	1.317	75.21	0.08	0	0	2.55	22.16
2003	278	23	1	955.838	-260.274	D	6.607	6.607	0	1.275	0	0	0	0	0	0
2003	279	23	297	944.609	-246.761	D	7.909	7.862	0.047	3.889	97.14	0.14	0	0	0.17	2.54
2003	280	23	300	962.092	-244.663	D	6.947	6.93	0.017	1.917	96.19	0.01	0	0	0.15	3.64
2003	281	23	172	943.804	-252.427	D	6.796	6.795	0.001	1.645	95.08	0	0	0	0.1	4.66
2003	282	23	159	955.578	-251.949	D	6.828	6.828	0	1.712	12.82	0	0	0	0.03	4.42
2003	283	23	1	955.838	-260.274	D	7.64	7.64	0	3.403	0	0	0	0	0	0
2003	284	23	1	955.838	-260.274	D	7.336	7.336	0	2.754	0	0	0	0	0	0
2003	285	23	172	943.804	-252.427	D	8.322	8.288	0.034	4.855	99.14	0.02	0	0	0.16	0.67
2003	286	23	8	961.676	-259.571	D	7.03	7.028	0.002	2.115	99.33	0	0	0	0.06	0.6
2003	287	23	297	944.609	-246.761	D	8.447	8.432	0.015	5.19	98.33	0.16	0	0	0.18	1.33
2003	288	23	1	955.838	-260.274	D	7.539	7.539	0	3.184	0	0	0	0	0	0
2003	289	23	297	944.609	-246.761	D	6.675	6.649	0.026	1.356	91.51	0.06	0	0	0.66	7.77
2003	290	23	275	944.098	-248.678	D	8.578	8.578	0.001	5.534	92.74	0	0	0	1.5	5.59
2003	291	23	31	960.725	-257.829	D	8.988	8.988	0	6.532	92.82	0	0	0	0.56	6.26
2003	292	23	271	960.967	-247.585	D	6.908	6.835	0.073	1.726	95.06	0.03	0	0	0.85	4.07
2003	293	23	8	961.676	-259.571	D	6.843	6.826	0.017	1.708	91.78	0.01	0	0	0.26	7.93
2003	294	23	8	961.676	-259.571	D	7.925	7.887	0.038	3.945	92.16	0.53	0	0	0.48	6.82
2003	295	23	1	955.838	-260.274	D	6.622	6.622	0	1.304	0	0	0	0	0	0
2003	296	23	119	945.479	-254.084	D	6.59	6.589	0.001	1.239	96.53	0	0	0	1.04	2.47
2003	297	23	1	955.838	-260.274	D	6.66	6.66	0	1.378	0	0	0	0	0	0
2003	298	23	1	955.838	-260.274	D	6.831	6.831	0	1.716	0	0	0	0	0	0
2003	299	23	297	944.609	-246.761	D	9.21	9.123	0.087	6.87	98.74	0.18	0	0	0.04	1.04
2003	300	23	48	963.533	-256.561	D	7.415	7.415	0	2.92	88.77	0.01	0	0	3.58	6.04
2003	301	23	297	944.609	-246.761	D	7.192	7.187	0.005	2.442	93.63	0.15	0	0	0.73	5.47
2003	302	23	241	954.519	-249.29	D	8.89	8.851	0.039	6.194	98.78	0.12	0	0	0.05	1.05
2003	303	23	99	948.505	-254.653	D	6.737	6.737	0	1.53	0.33	1.89	0	0	0	98.04
2003	304	23	1	955.838	-260.274	D	6.981	6.981	0	2.02	0	0	0	0	0	0
2003	305	23	297	944.609	-246.761	D	7.123	7.111	0.012	2.286	93.69	0.04	0	0	0.43	5.84
2003	306	23	297	944.609	-246.761	D	7.367	7.364	0.004	2.811	95.81	0.01	0	0	0.05	4.13
2003	307	23	300	962.092	-244.663	D	7.303	7.303	0	2.685	50.06	0.01	0	0	18.15	30.11
2003	308	23	1	955.838	-260.274	D	7.192	7.192	0	2.452	0	0	0	0	0	0
2003	309	23	9	954.269	-259.534	D	9.026	8.863	0.162	6.225	99.57	0.01	0	0	0.08	0.33
2003	310	23	21	963.025	-258.479	D	9.432	9.281	0.151	7.269	99.81	0.01	0	0	0.01	0.17
2003	311	23	34	962.914	-257.564	D	8.363	8.363	0	5.029	95.49	0	0	0	0	0.06

Appendix M
Mammoth Cave
MC 2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	312	23	1	955.838	-260.274	D	6.813	6.813	0	1.681	0	0	0	0	0	0
2003	313	23	1	955.838	-260.274	D	6.578	6.578	0	1.218	0	0	0	0	0	0
2003	314	23	1	955.838	-260.274	D	6.801	6.801	0	1.658	0	0	0	0	0	0
2003	315	23	1	955.838	-260.274	D	6.924	6.924	0	1.903	0	0	0	0	0	0
2003	316	23	22	954.159	-258.619	D	8.48	8.443	0.036	5.216	98.31	0.04	0	0	0.19	1.46
2003	317	23	3	958.027	-260.011	D	6.896	6.896	0	1.849	25.14	0.27	0	0	0.04	7.01
2003	318	23	1	955.838	-260.274	D	6.506	6.506	0	1.078	0	0	0	0	0	0
2003	319	23	1	955.838	-260.274	D	8.492	8.492	0	5.33	0	0	0	0	0	0
2003	320	23	254	944.206	-249.594	D	9.588	9.588	0	8.067	100.44	0	0	0	0.03	0.23
2003	321	23	290	946.175	-247.503	D	8.583	8.583	0	5.546	93.95	0	0	0	2.3	3.72
2003	322	23	1	955.838	-260.274	D	8.803	8.803	0	6.076	0	0	0	0	0	0
2003	323	23	172	943.804	-252.427	D	9.235	9.233	0.002	7.148	99.27	0.01	0	0	0.1	0.54
2003	324	23	172	943.804	-252.427	D	7.085	7.084	0	2.23	48.19	0.28	0	0	1.08	50.37
2003	325	23	297	944.609	-246.761	D	7.283	7.279	0.003	2.635	81.32	0.09	0	0	0.23	18.36
2003	326	23	1	955.838	-260.274	D	7.719	7.719	0	3.575	0	0	0	0	0	0
2003	327	23	1	955.838	-260.274	D	7.79	7.79	0	3.731	0	0	0	0	0	0
2003	328	23	297	944.609	-246.761	D	8.162	8.141	0.021	4.516	96.85	0.29	0	0	0.28	2.58
2003	329	23	1	955.838	-260.274	D	7.218	7.218	0	2.505	0	0	0	0	0	0
2003	330	23	1	955.838	-260.274	D	6.917	6.917	0	1.89	0	0	0	0	0	0
2003	331	23	275	944.098	-248.678	D	8.603	8.603	0	5.594	60.46	0	0	0	3.25	5.13
2003	332	23	119	945.479	-254.084	D	8.84	8.84	0	6.167	91.81	0.01	0	0	2.97	5.19
2003	333	23	172	943.804	-252.427	D	7.808	7.807	0.002	3.767	78.77	0.64	0	0	0.55	20.03
2003	334	23	301	962.82	-244.575	D	7.408	7.401	0.007	2.891	94.83	0.21	0	0	0.09	4.85
2003	335	23	285	962.313	-246.493	D	7.062	7.055	0.007	2.17	79.66	0.79	0	0	2.03	17.51
2003	336	23	1	955.838	-260.274	D	6.532	6.532	0	1.128	0	0	0	0	0	0
2003	337	23	1	955.838	-260.274	D	6.585	6.585	0	1.232	0	0	0	0	0	0
2003	338	23	1	955.838	-260.274	D	9.664	9.664	0	8.266	0	0	0	0	0	0
2003	339	23	8	961.676	-259.571	D	9.432	9.358	0.075	7.466	99.25	0.18	0	0	0.03	0.54
2003	340	23	1	955.838	-260.274	D	8.504	8.504	0	5.36	0	0	0	0	0	0
2003	341	23	1	955.838	-260.274	D	7.15	7.15	0	2.366	0	0	0	0	0	0
2003	342	23	1	955.838	-260.274	D	7.337	7.337	0	2.755	0	0	0	0	0	0
2003	343	23	1	955.838	-260.274	D	7.388	7.388	0	2.862	0	0	0	0	0	0
2003	344	23	297	944.609	-246.761	D	8.685	8.68	0.004	5.78	98.64	0.02	0	0	0.17	1.18
2003	345	23	47	962.803	-256.649	D	8.499	8.474	0.025	5.288	97.71	0.14	0	0	0.19	1.96
2003	346	23	1	955.838	-260.274	D	7.466	7.466	0	3.028	0	0	0	0	0	0
2003	347	23	1	955.838	-260.274	D	8.365	8.365	0	5.034	0	0	0	0	0	0
2003	348	23	3	958.027	-260.011	D	9.738	9.738	0	8.464	51.19	0.01	0	0	6.3	10.35
2003	349	23	172	943.804	-252.427	D	9.577	9.507	0.07	7.854	98.76	0.11	0	0	0.1	1.02
2003	350	23	9	954.269	-259.534	D	8.553	8.506	0.047	5.364	98.9	0.12	0	0	0.19	0.79

Appendix M
Mammoth Cave
MC 2003 M2

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	351	23	21	963.025	-258.479	D	8.106	8.105	0.001	4.434	98.74	0.17	0	0	0.07	0.97
2003	352	23	302	963.548	-244.486	D	8.799	8.727	0.071	5.894	95.37	0.37	0	0	0.44	3.82
2003	353	23	1	955.838	-260.274	D	9.199	9.199	0	7.061	0	0	0	0	0	0
2003	354	23	1	955.838	-260.274	D	7.769	7.769	0	3.684	0	0	0	0	0	0
2003	355	23	297	944.609	-246.761	D	6.932	6.932	0	1.921	53.68	1.99	0	0	1.29	43.07
2003	356	23	1	955.838	-260.274	D	7.503	7.503	0	3.108	0	0	0	0	0	0
2003	357	23	9	954.269	-259.534	D	8.867	8.542	0.325	5.45	98.89	0.13	0	0	0.11	0.87
2003	358	23	21	963.025	-258.479	D	8.42	8.397	0.023	5.107	98.97	0.17	0	0	0.06	0.8
2003	359	23	1	955.838	-260.274	D	7.559	7.559	0	3.228	0	0	0	0	0	0
2003	360	23	1	955.838	-260.274	D	6.933	6.933	0	1.923	0	0	0	0	0	0
2003	361	23	1	955.838	-260.274	D	6.898	6.898	0	1.852	0	0	0	0	0	0
2003	362	23	1	955.838	-260.274	D	7.136	7.136	0	2.337	0	0	0	0	0	0
2003	363	23	297	944.609	-246.761	D	8.313	8.292	0.021	4.864	99.3	0.08	0	0	0.07	0.54
2003	364	23	9	954.269	-259.534	D	7.886	7.742	0.144	3.625	99.46	0.09	0	0	0.04	0.41
									0.547							

Appendix M
Mammoth Cave
MC 2001 M6

NORANDA									DELTA		% of Modeled Extinction by Species					
YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	1	23	1	955.838	-260.274	D	7.641	7.641	0	3.404	0	0	0	0	0	0
2001	2	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	3	23	297	944.609	-246.761	D	7.761	7.639	0.122	3.4	98.55	0.06	0	0	0.16	1.23
2001	4	23	300	962.092	-244.663	D	7.745	7.639	0.107	3.4	96.08	0.17	0	0	0.37	3.38
2001	5	23	48	963.533	-256.561	D	7.649	7.639	0.01	3.4	86.25	0.48	0	0	0.82	12.45
2001	6	23	144	944.641	-253.256	D	7.639	7.639	0	3.4	44.51	4.03	0	0	0.27	46.5
2001	7	23	297	944.609	-246.761	D	7.66	7.639	0.021	3.4	92.62	0.35	0	0	0.5	6.52
2001	8	23	21	963.025	-258.479	D	7.64	7.639	0.001	3.4	85.83	1	0	0	0.2	12.98
2001	9	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	10	23	297	944.609	-246.761	D	7.639	7.639	0	3.4	94.21	0.16	0	0	0.73	2.94
2001	11	23	297	944.609	-246.761	D	7.639	7.639	0	3.4	94.22	0.17	0	0	1.38	4.44
2001	12	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	13	23	172	943.804	-252.427	D	7.639	7.639	0	3.4	100.04	0.01	0	0	0.1	0.35
2001	14	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	15	23	290	946.175	-247.503	D	7.662	7.639	0.023	3.4	83.26	1.41	0	0	0.95	14.38
2001	16	23	7	960.946	-259.659	D	7.639	7.639	0	3.4	42.41	1.41	0	0	0.39	26.29
2001	17	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	18	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	19	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	20	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	21	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	22	23	297	944.609	-246.761	D	7.651	7.639	0.012	3.4	98.71	0.08	0	0	0.09	1.13
2001	23	23	297	944.609	-246.761	D	7.641	7.639	0.003	3.4	96.62	0.07	0	0	0.39	2.92
2001	24	23	297	944.609	-246.761	D	7.672	7.639	0.033	3.4	93.28	0.28	0	0	0.23	6.2
2001	25	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	26	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	27	23	172	943.804	-252.427	D	7.644	7.639	0.005	3.4	80.14	0.59	0	0	1.2	18.06
2001	28	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	10.39	0	0	0	2.55	3.98
2001	29	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	11.23	0	0	0	2.56	3.99
2001	30	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	31	23	8	961.676	-259.571	D	7.644	7.639	0.005	3.4	76.22	0.5	0	0	3.04	20.26
2001	32	23	1	955.838	-260.274	D	7.505	7.505	0	3.112	0	0	0	0	0	0
2001	33	23	65	951.641	-256.135	D	7.557	7.5	0.058	3.1	90.58	0.34	0	0	0.68	8.4
2001	34	23	172	943.804	-252.427	D	7.5	7.5	0	3.1	57.78	4.14	0	0	0.51	37.97
2001	35	23	297	944.609	-246.761	D	7.5	7.5	0.001	3.1	87.62	0.56	0	0	0.6	11.36
2001	36	23	1	955.838	-260.274	D	7.505	7.5	0.005	3.1	87.96	0.3	0	0	0.56	11.18
2001	37	23	297	944.609	-246.761	D	7.51	7.5	0.011	3.1	92.33	0.14	0	0	0.68	6.87
2001	38	23	172	943.804	-252.427	D	7.513	7.5	0.014	3.1	91	0.16	0	0	0.37	8.47

Appendix M
Mammoth Cave
MC 2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	39	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	40	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	41	23	9	954.269	-259.534	D	7.504	7.5	0.005	3.1	94.95	0.13	0	0	0.39	4.53
2001	42	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	43	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	44	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	45	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	46	23	8	961.676	-259.571	D	7.511	7.5	0.011	3.1	90.95	0.57	0	0	1.04	7.45
2001	47	23	1	955.838	-260.274	D	7.518	7.5	0.018	3.1	98.13	0.18	0	0	0.09	1.61
2001	48	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	49	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	50	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	51	23	297	944.609	-246.761	D	7.509	7.5	0.01	3.1	93.62	0.02	0	0	0.63	5.74
2001	52	23	6	960.217	-259.747	D	7.51	7.5	0.011	3.1	87.5	0.11	0	0	0.94	11.46
2001	53	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	54	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	55	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	56	23	3	958.027	-260.011	D	7.509	7.5	0.01	3.1	93.25	0.02	0	0	0.43	6.31
2001	57	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	58	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	59	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2001	60	23	1	955.838	-260.274	D	7.409	7.409	0	2.908	0	0	0	0	0	0
2001	61	23	2	956.568	-260.187	D	7.416	7.406	0.01	2.9	90.44	0.24	0	0	0.73	8.62
2001	62	23	8	961.676	-259.571	D	7.408	7.406	0.003	2.9	97.41	0.04	0	0	0.06	2.58
2001	63	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	97.9	0	0	0	0.39	2.06
2001	64	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	65	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	66	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	67	23	204	947.34	-251.078	D	7.432	7.406	0.026	2.9	93.46	0.24	0	0	0.89	5.42
2001	68	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	69	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	70	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	71	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	72	23	8	961.676	-259.571	D	7.415	7.406	0.01	2.9	83.62	0.12	0	0	1.73	14.55
2001	73	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	93.72	0.07	0	0	0.14	7.64
2001	74	23	172	943.804	-252.427	D	7.408	7.406	0.003	2.9	96.85	0.05	0	0	0.03	3.11
2001	75	23	297	944.609	-246.761	D	7.422	7.406	0.016	2.9	93.53	0.09	0	0	0.48	5.91
2001	76	23	21	963.025	-258.479	D	7.406	7.406	0.001	2.9	85.72	0.42	0	0	0.48	13.47
2001	77	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	78	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	79	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	80	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	81	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	82	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	83	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	63.91	0.01	0	0	21.28	41.77
2001	84	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	85	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	86	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	87	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	88	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	89	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2001	90	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	94.75	0	0	0	5.42	9.8
2001	91	23	8	961.676	-259.571	D	7.324	7.269	0.055	2.612	95.93	0.14	0	0	0.26	3.67
2001	92	23	204	947.34	-251.078	D	7.265	7.263	0.002	2.6	91.16	0.05	0	0	2.49	6.4
2001	93	23	204	947.34	-251.078	D	7.263	7.263	0	2.6	95.56	0	0	0	8.99	14.08
2001	94	23	3	958.027	-260.011	D	7.263	7.263	0	2.6	86.97	0	0	0	5.4	9.25
2001	95	23	204	947.34	-251.078	D	7.263	7.263	0	2.6	88.47	0	0	0	3.75	8.06
2001	96	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	97	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	98	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	99	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	100	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	101	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	102	23	297	944.609	-246.761	D	7.264	7.263	0.002	2.6	92.96	0	0	0	0.83	6.26
2001	103	23	297	944.609	-246.761	D	7.312	7.263	0.049	2.6	93.16	0.02	0	0	0.73	6.1
2001	104	23	172	943.804	-252.427	D	7.317	7.263	0.054	2.6	97.48	0	0	0	0.36	2.16
2001	105	23	300	962.092	-244.663	D	7.315	7.263	0.052	2.6	97.16	0.02	0	0	0.19	2.63
2001	106	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	107	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	108	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	109	23	8	961.676	-259.571	D	7.307	7.263	0.045	2.6	95.4	0.14	0	0	0.38	4.09
2001	110	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	111	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	112	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	113	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	114	23	297	944.609	-246.761	D	7.264	7.263	0.001	2.6	87.98	0.22	0	0	2.54	9.21
2001	115	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	116	23	297	944.609	-246.761	D	7.263	7.263	0	2.6	84.31	0	0	0	5.06	11.61

Appendix M
Mammoth Cave
MC 2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	117	23	302	963.548	-244.486	D	7.271	7.263	0.008	2.6	92.26	0.02	0	0	1.38	6.35
2001	118	23	9	954.269	-259.534	D	7.314	7.263	0.051	2.6	99.04	0	0	0	0.06	0.91
2001	119	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2001	120	23	119	945.479	-254.084	D	7.263	7.263	0	2.6	105.05	0	0	0	5.04	10.5
2001	121	23	1	955.838	-260.274	D	7.535	7.535	0	3.175	0	0	0	0	0	0
2001	122	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	123	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	124	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	125	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	126	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	127	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	128	23	8	961.676	-259.571	D	7.581	7.546	0.034	3.2	96.34	0.13	0	0	0.26	3.27
2001	129	23	1	955.838	-260.274	D	7.549	7.546	0.003	3.2	98.15	0.01	0	0	0.33	1.58
2001	130	23	297	944.609	-246.761	D	7.689	7.546	0.143	3.2	98.57	0	0	0	0.25	1.18
2001	131	23	298	945.337	-246.674	D	7.573	7.546	0.027	3.2	97.81	0	0	0	0.35	1.85
2001	132	23	297	944.609	-246.761	D	7.558	7.546	0.012	3.2	94.41	0.07	0	0	0.43	5.09
2001	133	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	134	23	1	955.838	-260.274	D	7.557	7.546	0.011	3.2	96.55	0	0	0	0.65	2.8
2001	135	23	297	944.609	-246.761	D	7.593	7.546	0.047	3.2	97.44	0	0	0	0.33	2.24
2001	136	23	297	944.609	-246.761	D	7.567	7.546	0.021	3.2	96.12	0	0	0	0.6	3.29
2001	137	23	297	944.609	-246.761	D	7.55	7.546	0.004	3.2	92.21	0	0	0	1.66	6.16
2001	138	23	297	944.609	-246.761	D	7.546	7.546	0	3.2	80.87	0	0	0	3.8	15.8
2001	139	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	140	23	8	961.676	-259.571	D	7.566	7.546	0.02	3.2	98.86	0	0	0	0.11	1.03
2001	141	23	48	963.533	-256.561	D	7.586	7.546	0.04	3.2	98	0	0	0	0.23	1.76
2001	142	23	8	961.676	-259.571	D	7.575	7.546	0.028	3.2	96.58	0.03	0	0	0.26	3.12
2001	143	23	9	954.269	-259.534	D	7.568	7.546	0.021	3.2	93.74	0.01	0	0	1.02	5.23
2001	144	23	21	963.025	-258.479	D	7.586	7.546	0.04	3.2	95.32	0.01	0	0	0.46	4.22
2001	145	23	49	953.21	-256.876	D	7.626	7.546	0.08	3.2	93.98	0.02	0	0	0.6	5.4
2001	146	23	200	964.214	-249.977	D	7.57	7.546	0.023	3.2	92.89	0.03	0	0	0.93	6.16
2001	147	23	1	955.838	-260.274	D	7.567	7.546	0.021	3.2	92.11	0.02	0	0	1.5	6.39
2001	148	23	1	955.838	-260.274	D	7.549	7.546	0.002	3.2	97.14	0	0	0	0.71	2.17
2001	149	23	8	961.676	-259.571	D	7.548	7.546	0.001	3.2	98.17	0.01	0	0	0.27	1.56
2001	150	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	151	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	152	23	8	961.676	-259.571	D	7.696	7.679	0.017	3.487	96.05	0.16	0	0	0.56	3.23
2001	153	23	8	961.676	-259.571	D	7.703	7.685	0.018	3.5	94.81	0.02	0	0	0.58	4.59
2001	154	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	155	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	83.59	0	0	0	1.5	11.82

Appendix M
Mammoth Cave
MC 2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	156	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	157	23	297	944.609	-246.761	D	7.69	7.685	0.005	3.5	97.4	0	0	0	0.82	1.77
2001	158	23	297	944.609	-246.761	D	7.821	7.685	0.136	3.5	98.32	0.03	0	0	0.14	1.51
2001	159	23	8	961.676	-259.571	D	7.689	7.685	0.004	3.5	98.81	0.01	0	0	0.05	1.13
2001	160	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	161	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	162	23	275	944.098	-248.678	D	7.768	7.685	0.083	3.5	98.78	0	0	0	0.19	1.03
2001	163	23	172	943.804	-252.427	D	7.787	7.685	0.102	3.5	98.32	0	0	0	0.13	1.55
2001	164	23	275	944.098	-248.678	D	7.711	7.685	0.026	3.5	98.85	0	0	0	0.07	1.08
2001	165	23	81	963.311	-254.73	D	7.685	7.685	0	3.5	88.31	0.01	0	0	0.14	7.29
2001	166	23	172	943.804	-252.427	D	7.703	7.685	0.019	3.5	98.4	0	0	0	0.17	1.42
2001	167	23	21	963.025	-258.479	D	7.692	7.685	0.007	3.5	98.46	0.01	0	0	0.12	1.41
2001	168	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	169	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	170	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	171	23	297	944.609	-246.761	D	7.773	7.685	0.088	3.5	97.95	0.01	0	0	0.31	1.73
2001	172	23	9	954.269	-259.534	D	7.774	7.685	0.089	3.5	98.94	0.01	0	0	0.07	0.99
2001	173	23	302	963.548	-244.486	D	7.753	7.685	0.069	3.5	98.9	0.01	0	0	0.06	1.03
2001	174	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	175	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	176	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	177	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	178	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	179	23	9	954.269	-259.534	D	7.685	7.685	0	3.5	5.66	0	0	0	0.29	0.47
2001	180	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	181	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	182	23	302	963.548	-244.486	D	7.847	7.772	0.075	3.692	98.5	0	0	0	0.21	1.28
2001	183	23	2	956.568	-260.187	D	7.836	7.776	0.06	3.7	97.62	0.01	0	0	0.09	2.28
2001	184	23	7	960.946	-259.659	D	7.778	7.776	0.001	3.7	98.35	0	0	0	0.08	1.53
2001	185	23	300	962.092	-244.663	D	7.932	7.776	0.156	3.7	98	0.06	0	0	0.19	1.75
2001	186	23	48	963.533	-256.561	D	7.779	7.776	0.003	3.7	98.07	0.01	0	0	0.07	1.89
2001	187	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2001	188	23	297	944.609	-246.761	D	7.806	7.776	0.03	3.7	98.03	0	0	0	0.42	1.55
2001	189	23	302	963.548	-244.486	D	7.81	7.776	0.034	3.7	95.35	0	0	0	0.46	4.18
2001	190	23	3	958.027	-260.011	D	7.796	7.776	0.02	3.7	94.68	0.08	0	0	0.28	4.97
2001	191	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2001	192	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2001	193	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2001	194	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	195	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2001	196	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2001	197	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2001	198	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2001	199	23	297	944.609	-246.761	D	7.804	7.776	0.028	3.7	99.01	0	0	0	0.19	0.8
2001	200	23	172	943.804	-252.427	D	8.128	7.776	0.352	3.7	98.57	0.01	0	0	0.08	1.34
2001	201	23	172	943.804	-252.427	D	7.816	7.776	0.039	3.7	98.64	0.01	0	0	0.08	1.26
2001	202	23	119	945.479	-254.084	D	7.795	7.776	0.019	3.7	98.61	0.01	0	0	0.18	1.19
2001	203	23	275	944.098	-248.678	D	7.785	7.776	0.009	3.7	98.41	0	0	0	0.16	1.43
2001	204	23	297	944.609	-246.761	D	7.779	7.776	0.003	3.7	99.09	0	0	0	0.05	0.85
2001	205	23	297	944.609	-246.761	D	7.782	7.776	0.006	3.7	98.32	0	0	0	0.32	1.39
2001	206	23	297	944.609	-246.761	D	7.782	7.776	0.006	3.7	99.25	0	0	0	0.13	0.61
2001	207	23	297	944.609	-246.761	D	7.964	7.776	0.188	3.7	98.01	0.03	0	0	0.22	1.74
2001	208	23	297	944.609	-246.761	D	7.788	7.776	0.012	3.7	98.75	0.04	0	0	0.04	1.18
2001	209	23	297	944.609	-246.761	D	7.875	7.776	0.099	3.7	99.08	0	0	0	0.16	0.76
2001	210	23	297	944.609	-246.761	D	7.989	7.776	0.213	3.7	98.15	0.04	0	0	0.19	1.63
2001	211	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	93.42	0.03	0	0	0.31	8.36
2001	212	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2001	213	23	1	955.838	-260.274	D	7.863	7.863	0	3.892	0	0	0	0	0	0
2001	214	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	215	23	1	955.838	-260.274	D	7.951	7.867	0.084	3.9	98.99	0	0	0	0.13	0.87
2001	216	23	8	961.676	-259.571	D	7.867	7.867	0	3.9	96.3	0.03	0	0	0.16	3.34
2001	217	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	218	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	219	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	220	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	221	23	297	944.609	-246.761	D	7.968	7.867	0.101	3.9	98.9	0.03	0	0	0.15	0.92
2001	222	23	9	954.269	-259.534	D	8.038	7.867	0.171	3.9	98.4	0.03	0	0	0.09	1.48
2001	223	23	8	961.676	-259.571	D	8.036	7.867	0.169	3.9	99.5	0.01	0	0	0.02	0.47
2001	224	23	8	961.676	-259.571	D	7.887	7.867	0.021	3.9	99.61	0	0	0	0.01	0.38
2001	225	23	8	961.676	-259.571	D	7.869	7.867	0.002	3.9	99.38	0	0	0	0.01	0.61
2001	226	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	227	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	228	23	297	944.609	-246.761	D	7.881	7.867	0.015	3.9	97.42	0.01	0	0	0.33	2.23
2001	229	23	21	963.025	-258.479	D	7.878	7.867	0.011	3.9	97.88	0.01	0	0	0.23	1.88
2001	230	23	302	963.548	-244.486	D	8.003	7.867	0.136	3.9	98.09	0.01	0	0	0.28	1.62
2001	231	23	119	945.479	-254.084	D	7.897	7.867	0.03	3.9	97.8	0.04	0	0	0.18	1.98
2001	232	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	233	23	119	945.479	-254.084	D	7.867	7.867	0	3.9	76.18	0.01	0	0	0.19	12.84

Appendix M
Mammoth Cave
MC 2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	234	23	119	945.479	-254.084	D	7.889	7.867	0.022	3.9	99.45	0	0	0	0.1	0.44
2001	235	23	9	954.269	-259.534	D	7.912	7.867	0.045	3.9	97.92	0	0	0	0.18	1.91
2001	236	23	1	955.838	-260.274	D	7.889	7.867	0.022	3.9	97.4	0.01	0	0	0.21	2.39
2001	237	23	172	943.804	-252.427	D	7.889	7.867	0.022	3.9	98.9	0	0	0	0.11	1
2001	238	23	297	944.609	-246.761	D	7.904	7.867	0.038	3.9	98.52	0	0	0	0.21	1.27
2001	239	23	48	963.533	-256.561	D	7.932	7.867	0.065	3.9	96.76	0.05	0	0	0.18	3.02
2001	240	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	241	23	1	955.838	-260.274	D	7.92	7.867	0.053	3.9	98.58	0.01	0	0	0.11	1.3
2001	242	23	297	944.609	-246.761	D	7.959	7.867	0.092	3.9	99.49	0	0	0	0.04	0.47
2001	243	23	297	944.609	-246.761	D	7.871	7.867	0.004	3.9	98.36	0	0	0	0.15	1.49
2001	244	23	275	944.098	-248.678	D	7.934	7.867	0.068	3.9	98.1	0.04	0	0	0.09	1.77
2001	245	23	9	954.269	-259.534	D	7.871	7.867	0.004	3.9	99.02	0.02	0	0	0.06	0.91
2001	246	23	172	943.804	-252.427	D	7.867	7.867	0	3.9	98.87	0	0	0	0.02	0.72
2001	247	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	248	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	249	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	250	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	251	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	252	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	253	23	48	963.533	-256.561	D	7.93	7.867	0.063	3.9	97.37	0.13	0	0	0.08	2.42
2001	254	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	255	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	256	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	257	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	258	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	259	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	260	23	297	944.609	-246.761	D	7.867	7.867	0	3.9	80.6	0	0	0	7.14	12.12
2001	261	23	302	963.548	-244.486	D	7.868	7.867	0.001	3.9	83.42	0	0	0	4.94	11.7
2001	262	23	297	944.609	-246.761	D	7.914	7.867	0.047	3.9	98.27	0.02	0	0	0.17	1.54
2001	263	23	21	963.025	-258.479	D	7.892	7.867	0.026	3.9	98.11	0.06	0	0	0.09	1.75
2001	264	23	1	955.838	-260.274	D	7.954	7.867	0.087	3.9	97.49	0.03	0	0	0.3	2.18
2001	265	23	8	961.676	-259.571	D	7.896	7.867	0.029	3.9	95.97	0.01	0	0	0.17	3.85
2001	266	23	297	944.609	-246.761	D	7.868	7.867	0.002	3.9	96.39	0	0	0	0.95	2.66
2001	267	23	302	963.548	-244.486	D	8.044	7.867	0.177	3.9	99.19	0.02	0	0	0.05	0.75
2001	268	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	269	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	270	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	271	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	272	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	273	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2001	274	23	1	955.838	-260.274	D	7.648	7.648	0	3.421	0	0	0	0	0	0
2001	275	23	1	955.838	-260.274	D	7.645	7.639	0.007	3.4	70.25	0.11	0	0	0.93	28.69
2001	276	23	297	944.609	-246.761	D	7.693	7.639	0.054	3.4	95.88	0.01	0	0	0.21	3.91
2001	277	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	278	23	297	944.609	-246.761	D	7.64	7.639	0.001	3.4	97.4	0.1	0	0	0.2	2.24
2001	279	23	119	945.479	-254.084	D	7.708	7.639	0.069	3.4	97.05	0.17	0	0	0.05	2.73
2001	280	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	281	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	282	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	283	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	284	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	285	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	286	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	287	23	2	956.568	-260.187	D	7.657	7.639	0.018	3.4	97.61	0.17	0	0	0.26	1.97
2001	288	23	8	961.676	-259.571	D	7.639	7.639	0	3.4	86.15	0.08	0	0	1.22	12.74
2001	289	23	3	958.027	-260.011	D	7.639	7.639	0	3.4	63.86	1.9	0	0	0.2	32.75
2001	290	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	291	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	292	23	297	944.609	-246.761	D	7.639	7.639	0	3.4	58.41	0	0	0	6	24.32
2001	293	23	300	962.092	-244.663	D	7.673	7.639	0.034	3.4	95.34	0.06	0	0	0.73	3.87
2001	294	23	302	963.548	-244.486	D	7.639	7.639	0	3.4	70.22	0	0	0	0.04	0.27
2001	295	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	296	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	297	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	298	23	1	955.838	-260.274	D	7.646	7.639	0.007	3.4	85.69	0.25	0	0	0.63	13.44
2001	299	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	300	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	301	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	302	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	303	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	304	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2001	305	23	1	955.838	-260.274	D	7.55	7.55	0	3.208	0	0	0	0	0	0
2001	306	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	307	23	172	943.804	-252.427	D	7.592	7.546	0.046	3.2	97.92	0.09	0	0	0.13	1.86
2001	308	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	309	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	310	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	311	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	312	23	290	946.175	-247.503	D	7.582	7.546	0.036	3.2	94.28	0.1	0	0	0.5	5.12
2001	313	23	21	963.025	-258.479	D	7.547	7.546	0.001	3.2	74.96	0.08	0	0	0.36	24.54
2001	314	23	172	943.804	-252.427	D	7.666	7.546	0.119	3.2	96.87	0.03	0	0	0.4	2.71
2001	315	23	21	963.025	-258.479	D	7.575	7.546	0.029	3.2	94.93	0.1	0	0	0.13	4.84
2001	316	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	317	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	318	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	319	23	297	944.609	-246.761	D	7.546	7.546	0	3.2	75.73	0	0	0	9.1	16.12
2001	320	23	297	944.609	-246.761	D	7.561	7.546	0.015	3.2	97.3	0.01	0	0	0.5	2.19
2001	321	23	1	955.838	-260.274	D	7.551	7.546	0.005	3.2	98.34	0.01	0	0	0.05	1.62
2001	322	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	323	23	300	962.092	-244.663	D	7.58	7.546	0.034	3.2	98.28	0.09	0	0	0.14	1.49
2001	324	23	21	963.025	-258.479	D	7.55	7.546	0.004	3.2	98.37	0.11	0	0	0.1	1.42
2001	325	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	326	23	297	944.609	-246.761	D	7.55	7.546	0.003	3.2	98.55	0.07	0	0	0.09	1.3
2001	327	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	328	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2001	329	23	297	944.609	-246.761	D	7.589	7.546	0.043	3.2	96.31	0.01	0	0	0.36	3.32
2001	330	23	302	963.548	-244.486	D	7.584	7.546	0.038	3.2	95.65	0.06	0	0	0.16	4.13
2001	331	23	297	944.609	-246.761	D	7.593	7.546	0.047	3.2	96.17	0.07	0	0	0.29	3.48
2001	332	23	8	961.676	-259.571	D	7.602	7.546	0.056	3.2	96.7	0.07	0	0	0.15	3.08
2001	333	23	297	944.609	-246.761	D	7.546	7.546	0	3.2	97.96	0.19	0	0	0.04	2.56
2001	334	23	172	943.804	-252.427	D	7.546	7.546	0	3.2	95.91	0.22	0	0	0.06	8.75
2001	335	23	297	944.609	-246.761	D	7.704	7.679	0.025	3.487	97.92	0.01	0	0	0.32	1.74
2001	336	23	8	961.676	-259.571	D	7.701	7.685	0.016	3.5	94.24	0.12	0	0	0.13	5.51
2001	337	23	144	944.641	-253.256	D	7.685	7.685	0	3.5	73.11	0.77	0	0	0.15	23.91
2001	338	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	339	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	340	23	297	944.609	-246.761	D	7.685	7.685	0	3.5	80.82	0	0	0	6.66	12.35
2001	341	23	119	945.479	-254.084	D	7.722	7.685	0.037	3.5	95.46	0.18	0	0	0.61	3.75
2001	342	23	275	944.098	-248.678	D	7.691	7.685	0.007	3.5	98.49	0.1	0	0	0.07	1.35
2001	343	23	21	963.025	-258.479	D	7.685	7.685	0	3.5	98.53	0.04	0	0	0.02	1.29
2001	344	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	345	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	346	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	347	23	297	944.609	-246.761	D	7.748	7.685	0.063	3.5	98.14	0.06	0	0	0.2	1.6
2001	348	23	297	944.609	-246.761	D	7.723	7.685	0.039	3.5	97.95	0.15	0	0	0.08	1.82
2001	349	23	8	961.676	-259.571	D	7.685	7.685	0	3.5	81.19	0	0	0	2.24	11.47
2001	350	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2001 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2001	351	23	1	955.838	-260.274	D	7.713	7.685	0.028	3.5	98.74	0.14	0	0	0.07	1.05
2001	352	23	21	963.025	-258.479	D	7.69	7.685	0.005	3.5	98.52	0.15	0	0	0.1	1.22
2001	353	23	297	944.609	-246.761	D	7.697	7.685	0.012	3.5	88.34	0.38	0	0	0.39	10.89
2001	354	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	355	23	3	958.027	-260.011	D	7.724	7.685	0.039	3.5	78.13	1	0	0	2.06	18.8
2001	356	23	172	943.804	-252.427	D	7.696	7.685	0.011	3.5	96.93	0.09	0	0	0.08	2.9
2001	357	23	21	963.025	-258.479	D	7.696	7.685	0.011	3.5	94.08	0.4	0	0	0.44	5.07
2001	358	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	359	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	360	23	8	961.676	-259.571	D	7.689	7.685	0.004	3.5	86.94	0.79	0	0	0.7	11.55
2001	361	23	290	946.175	-247.503	D	7.699	7.685	0.014	3.5	79.12	0.51	0	0	1.59	18.78
2001	362	23	8	961.676	-259.571	D	7.717	7.685	0.032	3.5	83.62	0.83	0	0	0.8	14.75
2001	363	23	287	963.77	-246.317	D	7.704	7.685	0.02	3.5	88.13	0.36	0	0	0.73	10.78
2001	364	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2001	365	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
									0.352							

Appendix M
Mammoth Cave
MC 2002 M6

NORANDA									DELTA		% of Modeled Extinction by Species					
YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	1	23	1	955.838	-260.274	D	7.641	7.641	0	3.4	0	0	0	0	0	0
2002	2	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	3	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	4	23	172	943.804	-252.427	D	7.644	7.639	0.005	3.4	98.33	0.11	0	0	0.15	1.43
2002	5	23	300	962.092	-244.663	D	7.645	7.639	0.007	3.4	98.55	0.09	0	0	0.1	1.25
2002	6	23	119	945.479	-254.084	D	7.647	7.639	0.008	3.4	95.55	0.15	0	0	0.98	3.32
2002	7	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	8	23	48	963.533	-256.561	D	7.641	7.639	0.002	3.4	91.28	0.75	0	0	0.85	7.18
2002	9	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	10	23	297	944.609	-246.761	D	7.702	7.639	0.063	3.4	97.81	0.1	0	0	0.17	1.93
2002	11	23	8	961.676	-259.571	D	7.692	7.639	0.053	3.4	96.92	0.21	0	0	0.1	2.78
2002	12	23	3	958.027	-260.011	D	7.717	7.639	0.078	3.4	98.1	0.11	0	0	0.22	1.57
2002	13	23	302	963.548	-244.486	D	7.663	7.639	0.024	3.4	96.47	0.16	0	0	0.1	3.27
2002	14	23	297	944.609	-246.761	D	7.645	7.639	0.006	3.4	94.47	0.09	0	0	0.55	4.9
2002	15	23	21	963.025	-258.479	D	7.64	7.639	0.001	3.4	95.03	0.17	0	0	0.12	4.73
2002	16	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	17	23	302	963.548	-244.486	D	7.649	7.639	0.01	3.4	82.33	0.7	0	0	1.67	15.32
2002	18	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	19	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	20	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	21	23	1	955.838	-260.274	D	7.657	7.639	0.018	3.4	94.91	0.14	0	0	0.35	4.6
2002	22	23	172	943.804	-252.427	D	7.659	7.639	0.02	3.4	97.19	0.09	0	0	0.17	2.55
2002	23	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	24	23	8	961.676	-259.571	D	7.664	7.639	0.025	3.4	89.11	0.53	0	0	0.97	9.39
2002	25	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	26	23	297	944.609	-246.761	D	7.64	7.639	0.002	3.4	95.83	0.17	0	0	0.36	3.72
2002	27	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	28	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	29	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	30	23	297	944.609	-246.761	D	7.655	7.639	0.016	3.4	97.25	0.29	0	0	0.15	2.32
2002	31	23	297	944.609	-246.761	D	7.64	7.639	0.001	3.4	98.77	0.1	0	0	0.03	1.08
2002	32	23	119	945.479	-254.084	D	7.508	7.505	0.003	3.11	68	0.84	0	0	3.06	28.13
2002	33	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2002	34	23	172	943.804	-252.427	D	7.614	7.5	0.114	3.1	97.68	0.07	0	0	0.37	1.88
2002	35	23	171	964.325	-250.892	D	7.538	7.5	0.039	3.1	93.78	0.32	0	0	0.18	5.73
2002	36	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2002	37	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2002	38	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	39	23	172	943.804	-252.427	D	7.569	7.5	0.07	3.1	98.71	0.03	0	0	0.09	1.17
2002	40	23	300	962.092	-244.663	D	7.532	7.5	0.033	3.1	99.05	0.05	0	0	0.03	0.87
2002	41	23	8	961.676	-259.571	D	7.514	7.5	0.014	3.1	94.86	0.11	0	0	0.46	4.59
2002	42	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2002	43	23	297	944.609	-246.761	D	7.524	7.5	0.024	3.1	94.06	0.15	0	0	0.42	5.38
2002	44	23	21	963.025	-258.479	D	7.5	7.5	0	3.1	59.05	1.77	0	0	0.57	37.47
2002	45	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2002	46	23	297	944.609	-246.761	D	7.503	7.5	0.003	3.1	88.27	0.06	0	0	1.61	10.08
2002	47	23	8	961.676	-259.571	D	7.528	7.5	0.028	3.1	87.6	0.15	0	0	0.69	11.57
2002	48	23	8	961.676	-259.571	D	7.5	7.5	0	3.1	90.56	0.27	0	0	0.17	8.96
2002	49	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2002	50	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2002	51	23	297	944.609	-246.761	D	7.513	7.5	0.014	3.1	96.21	0.06	0	0	0.32	3.43
2002	52	23	8	961.676	-259.571	D	7.539	7.5	0.04	3.1	82.32	0.96	0	0	1.11	15.62
2002	53	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2002	54	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2002	55	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2002	56	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2002	57	23	297	944.609	-246.761	D	7.515	7.5	0.015	3.1	92.64	0.25	0	0	0.71	6.4
2002	58	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2002	59	23	8	961.676	-259.571	D	7.505	7.5	0.005	3.1	90.18	0.68	0	0	0.72	8.45
2002	60	23	297	944.609	-246.761	D	7.41	7.409	0	2.91	89.61	0.05	0	0	2.64	7.73
2002	61	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	62	23	172	943.804	-252.427	D	7.442	7.406	0.036	2.9	98.42	0.08	0	0	0.13	1.36
2002	63	23	172	943.804	-252.427	D	7.406	7.406	0	2.9	91.44	0.35	0	0	0.48	7.81
2002	64	23	8	961.676	-259.571	D	7.411	7.406	0.006	2.9	92.2	0.34	0	0	0.13	7.34
2002	65	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	66	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	67	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	68	23	2	956.568	-260.187	D	7.411	7.406	0.006	2.9	95.63	0.09	0	0	0.29	4
2002	69	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	70	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	71	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	72	23	172	943.804	-252.427	D	7.407	7.406	0.001	2.9	98.76	0.05	0	0	0.23	1.06
2002	73	23	275	944.098	-248.678	D	7.411	7.406	0.006	2.9	99.14	0.02	0	0	0.06	0.8
2002	74	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	75	23	172	943.804	-252.427	D	7.435	7.406	0.03	2.9	97.47	0.1	0	0	0.28	2.15
2002	76	23	48	963.533	-256.561	D	7.414	7.406	0.009	2.9	98.11	0.05	0	0	0.08	1.79
2002	77	23	172	943.804	-252.427	D	7.512	7.406	0.107	2.9	99.52	0	0	0	0.09	0.38

Appendix M
Mammoth Cave
MC 2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	78	23	1	955.838	-260.274	D	7.415	7.406	0.009	2.9	99.76	0	0	0	0.02	0.23
2002	79	23	119	945.479	-254.084	D	7.406	7.406	0	2.9	96.51	0	0	0	1.47	2.45
2002	80	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	81	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	82	23	297	944.609	-246.761	D	7.446	7.406	0.041	2.9	95.04	0.12	0	0	0.79	4.06
2002	83	23	302	963.548	-244.486	D	7.413	7.406	0.007	2.9	97	0.06	0	0	0.13	2.82
2002	84	23	275	944.098	-248.678	D	7.407	7.406	0.002	2.9	98.87	0	0	0	0.29	0.87
2002	85	23	172	943.804	-252.427	D	7.41	7.406	0.005	2.9	96.26	0	0	0	0.38	3.4
2002	86	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	87	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	88	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	89	23	297	944.609	-246.761	D	7.418	7.406	0.013	2.9	96.45	0.09	0	0	0.16	3.3
2002	90	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2002	91	23	1	955.838	-260.274	D	7.269	7.269	0	2.61	0	0	0	0	0	0
2002	92	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	93	23	297	944.609	-246.761	D	7.268	7.263	0.005	2.6	96.23	0.08	0	0	0.07	3.61
2002	94	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	95	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	96	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	97	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	98	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	99	23	1	955.838	-260.274	D	7.273	7.263	0.01	2.6	96.81	0.06	0	0	0.23	2.92
2002	100	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	101	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	102	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	103	23	297	944.609	-246.761	D	7.263	7.263	0	2.6	72.61	0.54	0	0	0.84	33.33
2002	104	23	297	944.609	-246.761	D	7.265	7.263	0.002	2.6	95.77	0.06	0	0	0.62	3.6
2002	105	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	106	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	107	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	108	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	109	23	297	944.609	-246.761	D	7.263	7.263	0	2.6	72.06	0	0	0	7.3	22.46
2002	110	23	9	954.269	-259.534	D	7.316	7.263	0.053	2.6	98.32	0.01	0	0	0.25	1.43
2002	111	23	119	945.479	-254.084	D	7.34	7.263	0.077	2.6	98.8	0.02	0	0	0.09	1.09
2002	112	23	302	963.548	-244.486	D	7.27	7.263	0.007	2.6	93.43	0.07	0	0	0.24	6.26
2002	113	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	114	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	115	23	302	963.548	-244.486	D	7.264	7.263	0.001	2.6	85.63	0.25	0	0	1.19	12.86
2002	116	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	117	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	118	23	64	950.912	-256.222	D	7.269	7.263	0.006	2.6	94.71	0	0	0	0.38	4.92
2002	119	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2002	120	23	297	944.609	-246.761	D	7.263	7.263	0	2.6	72.57	0	0	0	9.3	18.63
2002	121	23	300	962.092	-244.663	D	7.535	7.535	0	3.18	81.45	0	0	0	3.25	15.01
2002	122	23	8	961.676	-259.571	D	7.562	7.546	0.016	3.2	92.03	0.2	0	0	0.69	7.08
2002	123	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	124	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	125	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	126	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	127	23	297	944.609	-246.761	D	7.583	7.546	0.037	3.2	97.7	0	0	0	0.33	1.96
2002	128	23	302	963.548	-244.486	D	7.601	7.546	0.055	3.2	96.94	0.03	0	0	0.2	2.83
2002	129	23	8	961.676	-259.571	D	7.571	7.546	0.025	3.2	96.41	0.03	0	0	0.28	3.28
2002	130	23	8	961.676	-259.571	D	7.546	7.546	0	3.2	95.71	0.05	0	0	0.42	4.13
2002	131	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	132	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	133	23	297	944.609	-246.761	D	7.558	7.546	0.012	3.2	95.22	0.18	0	0	0.57	4.05
2002	134	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	135	23	172	943.804	-252.427	D	7.546	7.546	0	3.2	93.46	0	0	0	1.17	4.03
2002	136	23	297	944.609	-246.761	D	7.546	7.546	0	3.2	87.87	0	0	0	1.17	9.5
2002	137	23	301	962.82	-244.575	D	7.547	7.546	0.001	3.2	96.39	0.07	0	0	0.75	2.88
2002	138	23	302	963.548	-244.486	D	7.549	7.546	0.003	3.2	99.08	0	0	0	0.04	0.87
2002	139	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	140	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	141	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	142	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	143	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	144	23	297	944.609	-246.761	D	7.546	7.546	0	3.2	81.27	0	0	0	6.04	17.94
2002	145	23	297	944.609	-246.761	D	7.546	7.546	0	3.2	81.56	0	0	0	5.23	17.37
2002	146	23	21	963.025	-258.479	D	7.641	7.546	0.095	3.2	97.25	0.04	0	0	0.6	2.12
2002	147	23	227	964.103	-249.062	D	7.582	7.546	0.035	3.2	98.37	0.01	0	0	0.19	1.43
2002	148	23	297	944.609	-246.761	D	7.547	7.546	0.001	3.2	98.83	0	0	0	0.04	1.18
2002	149	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	150	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	151	23	297	944.609	-246.761	D	7.612	7.546	0.066	3.2	99.05	0	0	0	0.13	0.82
2002	152	23	2	956.568	-260.187	D	8	7.679	0.321	3.49	97.88	0.01	0	0	0.2	1.91
2002	153	23	3	958.027	-260.011	D	7.78	7.685	0.095	3.5	93.86	0.03	0	0	0.43	5.67
2002	154	23	297	944.609	-246.761	D	7.771	7.685	0.086	3.5	97.44	0	0	0	0.17	2.38
2002	155	23	302	963.548	-244.486	D	7.688	7.685	0.003	3.5	98.71	0	0	0	0.28	1.01

Appendix M
Mammoth Cave
MC 2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	156	23	297	944.609	-246.761	D	7.687	7.685	0.002	3.5	96.02	0.05	0	0	0.49	3.43
2002	157	23	297	944.609	-246.761	D	7.828	7.685	0.143	3.5	97.96	0.08	0	0	0.16	1.81
2002	158	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	159	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	160	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	161	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	162	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	163	23	297	944.609	-246.761	D	7.69	7.685	0.005	3.5	96.59	0	0	0	0.47	2.95
2002	164	23	302	963.548	-244.486	D	7.884	7.685	0.199	3.5	97.78	0.02	0	0	0.31	1.9
2002	165	23	21	963.025	-258.479	D	7.686	7.685	0.001	3.5	96.38	0.01	0	0	0.29	3.26
2002	166	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	167	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	97.24	0	0	0	0.17	2.55
2002	168	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	93.31	0.01	0	0	0.16	6.33
2002	169	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	170	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	171	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	172	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	173	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	174	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	175	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	176	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	177	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	178	23	297	944.609	-246.761	D	7.685	7.685	0	3.5	70.4	0.05	0	0	0.16	13.98
2002	179	23	297	944.609	-246.761	D	7.724	7.685	0.039	3.5	95.47	0.12	0	0	0.66	3.75
2002	180	23	297	944.609	-246.761	D	7.873	7.685	0.188	3.5	99.31	0	0	0	0.11	0.58
2002	181	23	302	963.548	-244.486	D	7.803	7.685	0.118	3.5	99.25	0	0	0	0.07	0.68
2002	182	23	172	943.804	-252.427	D	7.901	7.772	0.129	3.69	99.1	0	0	0	0.13	0.78
2002	183	23	172	943.804	-252.427	D	7.813	7.776	0.036	3.7	99.24	0	0	0	0.08	0.68
2002	184	23	172	943.804	-252.427	D	7.781	7.776	0.004	3.7	99.29	0	0	0	0.07	0.63
2002	185	23	172	943.804	-252.427	D	7.777	7.776	0.001	3.7	99.35	0	0	0	0.04	0.54
2002	186	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2002	187	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2002	188	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2002	189	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2002	190	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	83.72	0	0	0	3.02	6.46
2002	191	23	1	955.838	-260.274	D	7.981	7.776	0.205	3.7	98.77	0.01	0	0	0.14	1.08
2002	192	23	21	963.025	-258.479	D	7.779	7.776	0.003	3.7	93.19	0.15	0	0	0.13	6.49
2002	193	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	56.39	0.01	0	0	0.06	8.57
2002	194	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	195	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2002	196	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2002	197	23	119	945.479	-254.084	D	7.776	7.776	0	3.7	90.32	0.05	0	0	0.78	10
2002	198	23	297	944.609	-246.761	D	8.321	7.776	**0.545**	3.7	98.75	0.01	0	0	0.19	1.06
2002	199	23	8	961.676	-259.571	D	7.969	7.776	0.192	3.7	98.67	0.01	0	0	0.16	1.16
2002	200	23	1	955.838	-260.274	D	7.994	7.776	0.218	3.7	96.95	0.03	0	0	0.14	2.88
2002	201	23	8	961.676	-259.571	D	7.852	7.776	0.076	3.7	97.51	0.01	0	0	0.11	2.38
2002	202	23	119	945.479	-254.084	D	7.791	7.776	0.015	3.7	98.26	0	0	0	0.2	1.54
2002	203	23	297	944.609	-246.761	D	8.219	7.776	0.443	3.7	98.96	0	0	0	0.15	0.88
2002	204	23	172	943.804	-252.427	D	8.145	7.776	0.369	3.7	98.55	0.01	0	0	0.16	1.28
2002	205	23	119	945.479	-254.084	D	7.863	7.776	0.086	3.7	99.62	0	0	0	0.03	0.35
2002	206	23	9	954.269	-259.534	D	7.78	7.776	0.004	3.7	99.63	0	0	0	0.02	0.37
2002	207	23	297	944.609	-246.761	D	7.819	7.776	0.043	3.7	97.9	0	0	0	0.38	1.71
2002	208	23	302	963.548	-244.486	D	7.777	7.776	0.001	3.7	95.43	0	0	0	0.32	4.23
2002	209	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2002	210	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2002	211	23	1	955.838	-260.274	D	7.856	7.776	0.08	3.7	98.86	0	0	0	0.23	0.9
2002	212	23	1	955.838	-260.274	D	7.824	7.776	0.048	3.7	97.07	0.07	0	0	0.24	2.62
2002	213	23	9	954.269	-259.534	D	7.877	7.863	0.014	3.89	99.2	0	0	0	0.07	0.72
2002	214	23	297	944.609	-246.761	D	7.87	7.867	0.003	3.9	99.02	0	0	0	0.09	0.86
2002	215	23	275	944.098	-248.678	D	7.868	7.867	0.001	3.9	99.21	0	0	0	0.1	0.67
2002	216	23	275	944.098	-248.678	D	7.867	7.867	0	3.9	99.41	0	0	0	0.05	0.62
2002	217	23	275	944.098	-248.678	D	7.867	7.867	0	3.9	99.03	0	0	0	0.05	0.5
2002	218	23	172	943.804	-252.427	D	7.867	7.867	0	3.9	99.62	0	0	0	0.02	0.39
2002	219	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	220	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	221	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	222	23	297	944.609	-246.761	D	7.879	7.867	0.012	3.9	98.51	0	0	0	0.43	1.05
2002	223	23	297	944.609	-246.761	D	7.931	7.867	0.064	3.9	96.71	0.04	0	0	0.29	2.96
2002	224	23	297	944.609	-246.761	D	7.886	7.867	0.019	3.9	98.31	0.01	0	0	0.13	1.56
2002	225	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	226	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	227	23	297	944.609	-246.761	D	7.867	7.867	0	3.9	74.18	0	0	0	8.36	14.49
2002	228	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	229	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	230	23	297	944.609	-246.761	D	7.926	7.867	0.059	3.9	98.63	0	0	0	0.17	1.2
2002	231	23	302	963.548	-244.486	D	8.093	7.867	0.226	3.9	98.17	0.04	0	0	0.12	1.67
2002	232	23	172	943.804	-252.427	D	8.124	7.867	0.257	3.9	98.75	0.01	0	0	0.07	1.17
2002	233	23	119	945.479	-254.084	D	7.875	7.867	0.008	3.9	98.25	0	0	0	0.05	1.68

Appendix M
Mammoth Cave
MC 2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	234	23	275	944.098	-248.678	D	7.882	7.867	0.015	3.9	99.13	0	0	0	0.03	0.84
2002	235	23	275	944.098	-248.678	D	7.867	7.867	0	3.9	84.18	0	0	0	4.2	9.44
2002	236	23	1	955.838	-260.274	D	7.999	7.867	0.133	3.9	98.72	0.02	0	0	0.14	1.12
2002	237	23	8	961.676	-259.571	D	7.882	7.867	0.016	3.9	98.79	0	0	0	0.08	1.13
2002	238	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	239	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	240	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	241	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	242	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	243	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	244	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	245	23	297	944.609	-246.761	D	7.913	7.867	0.046	3.9	98.93	0	0	0	0.18	0.89
2002	246	23	297	944.609	-246.761	D	7.896	7.867	0.03	3.9	97.79	0	0	0	0.36	1.85
2002	247	23	297	944.609	-246.761	D	7.901	7.867	0.034	3.9	96.46	0	0	0	0.15	3.39
2002	248	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	249	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	250	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	251	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	252	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	253	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	254	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	255	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	256	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	257	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	258	23	9	954.269	-259.534	D	7.919	7.867	0.052	3.9	98.66	0	0	0	0.28	1.07
2002	259	23	1	955.838	-260.274	D	7.989	7.867	0.123	3.9	98.34	0.02	0	0	0.1	1.53
2002	260	23	8	961.676	-259.571	D	7.898	7.867	0.032	3.9	98.06	0.01	0	0	0.06	1.87
2002	261	23	297	944.609	-246.761	D	7.871	7.867	0.004	3.9	99.29	0.02	0	0	0.03	0.66
2002	262	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	263	23	297	944.609	-246.761	D	7.867	7.867	0	3.9	94.84	0.02	0	0	1.56	3.55
2002	264	23	21	963.025	-258.479	D	8.096	7.867	0.229	3.9	98.9	0.05	0	0	0.13	0.93
2002	265	23	171	964.325	-250.892	D	7.965	7.867	0.099	3.9	99.29	0.01	0	0	0.05	0.65
2002	266	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	89.86	0.01	0	0	0.41	7.18
2002	267	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	268	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	269	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	270	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	271	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	272	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	273	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2002	274	23	1	955.838	-260.274	D	7.648	7.648	0	3.42	0	0	0	0	0	0
2002	275	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	276	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	277	23	297	944.609	-246.761	D	7.643	7.639	0.004	3.4	96.48	0.03	0	0	0.38	3.11
2002	278	23	1	955.838	-260.274	D	7.672	7.639	0.033	3.4	95.09	0.03	0	0	0.57	4.31
2002	279	23	297	944.609	-246.761	D	7.64	7.639	0.002	3.4	96.46	0	0	0	0.98	2.61
2002	280	23	297	944.609	-246.761	D	7.661	7.639	0.022	3.4	96.28	0.04	0	0	0.23	3.45
2002	281	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	282	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	283	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	284	23	172	943.804	-252.427	D	7.639	7.639	0	3.4	99.85	0	0	0	0.04	0.18
2002	285	23	172	943.804	-252.427	D	7.71	7.639	0.071	3.4	98.79	0.04	0	0	0.12	1.06
2002	286	23	172	943.804	-252.427	D	7.778	7.639	0.139	3.4	98.71	0.06	0	0	0.05	1.17
2002	287	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	288	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	289	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	290	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	291	23	47	962.803	-256.649	D	7.646	7.639	0.007	3.4	87.24	0.46	0	0	2.34	9.96
2002	292	23	297	944.609	-246.761	D	7.644	7.639	0.005	3.4	98.94	0.06	0	0	0.13	0.86
2002	293	23	172	943.804	-252.427	D	7.688	7.639	0.049	3.4	98.89	0.06	0	0	0.07	0.98
2002	294	23	8	961.676	-259.571	D	7.64	7.639	0.001	3.4	99.04	0.05	0	0	0.11	1.03
2002	295	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	296	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	297	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	298	23	172	943.804	-252.427	D	7.639	7.639	0	3.4	9.94	2.52	0	0	0.15	10.58
2002	299	23	302	963.548	-244.486	D	7.729	7.639	0.091	3.4	96.06	0.34	0	0	0.13	3.48
2002	300	23	8	961.676	-259.571	D	7.639	7.639	0	3.4	86.37	0.48	0	0	1.64	11.24
2002	301	23	9	954.269	-259.534	D	7.639	7.639	0	3.4	90.91	0	0	0	1.59	7.16
2002	302	23	119	945.479	-254.084	D	7.639	7.639	0	3.4	104.67	0	0	0	0.68	6.32
2002	303	23	48	963.533	-256.561	D	7.639	7.639	0	3.4	80.84	0	0	0	7.78	12.39
2002	304	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2002	305	23	1	955.838	-260.274	D	7.55	7.55	0	3.21	0	0	0	0	0	0
2002	306	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	307	23	275	944.098	-248.678	D	7.556	7.546	0.01	3.2	98.46	0.11	0	0	0.16	1.29
2002	308	23	297	944.609	-246.761	D	8.2	7.546	**0.654**	3.2	98.96	0.07	0	0	0.08	0.9
2002	309	23	119	945.479	-254.084	D	7.685	7.546	0.139	3.2	99.29	0.04	0	0	0.03	0.64
2002	310	23	119	945.479	-254.084	D	7.569	7.546	0.023	3.2	98.82	0.08	0	0	0.01	1.09
2002	311	23	172	943.804	-252.427	D	7.547	7.546	0.001	3.2	98.2	0.01	0	0	0.11	1.74

Appendix M
Mammoth Cave
MC 2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	312	23	297	944.609	-246.761	D	7.553	7.546	0.006	3.2	99.04	0.02	0	0	0.03	0.91
2002	313	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	314	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	315	23	302	963.548	-244.486	D	7.557	7.546	0.011	3.2	95.53	0.13	0	0	0.17	4.17
2002	316	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	317	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	318	23	297	944.609	-246.761	D	7.56	7.546	0.014	3.2	97.55	0.02	0	0	0.46	1.97
2002	319	23	172	943.804	-252.427	D	7.546	7.546	0	3.2	96.6	0.16	0	0	0.43	3.37
2002	320	23	119	945.479	-254.084	D	7.546	7.546	0	3.2	96.56	0.16	0	0	0.26	2.87
2002	321	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	322	23	295	962.931	-245.49	D	7.555	7.546	0.009	3.2	96.07	0.2	0	0	0.39	3.36
2002	323	23	8	961.676	-259.571	D	7.557	7.546	0.011	3.2	90.65	0.49	0	0	0.96	7.92
2002	324	23	119	945.479	-254.084	D	7.57	7.546	0.023	3.2	98.32	0.07	0	0	0.06	1.56
2002	325	23	290	946.175	-247.503	D	7.598	7.546	0.052	3.2	92.46	0.2	0	0	0.89	6.45
2002	326	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	327	23	8	961.676	-259.571	D	7.549	7.546	0.003	3.2	98.23	0.04	0	0	0.15	1.59
2002	328	23	302	963.548	-244.486	D	7.548	7.546	0.002	3.2	89.77	0.03	0	0	3.32	6.88
2002	329	23	172	943.804	-252.427	D	7.55	7.546	0.004	3.2	94.54	0.01	0	0	0.78	4.72
2002	330	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	83.46	0	0	0	2.67	18.45
2002	331	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2002	332	23	172	943.804	-252.427	D	7.546	7.546	0	3.2	101.69	0.09	0	0	0.09	2.16
2002	333	23	297	944.609	-246.761	D	7.557	7.546	0.011	3.2	93.41	0.25	0	0	0.69	5.64
2002	334	23	8	961.676	-259.571	D	7.555	7.546	0.009	3.2	67.39	0.81	0	0	2.87	28.95
2002	335	23	1	955.838	-260.274	D	7.679	7.679	0	3.49	0	0	0	0	0	0
2002	336	23	297	944.609	-246.761	D	7.695	7.685	0.01	3.5	91.71	0.42	0	0	0.51	7.36
2002	337	23	119	945.479	-254.084	D	7.697	7.685	0.012	3.5	89.09	0.29	0	0	0.33	10.28
2002	338	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	339	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	340	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	341	23	297	944.609	-246.761	D	7.703	7.685	0.019	3.5	95.2	0.32	0	0	0.24	4.25
2002	342	23	275	944.098	-248.678	D	7.782	7.685	0.097	3.5	98.74	0.02	0	0	0.26	0.99
2002	343	23	1	955.838	-260.274	D	7.701	7.685	0.016	3.5	99.46	0.01	0	0	0.03	0.5
2002	344	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	345	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	346	23	275	944.098	-248.678	D	7.701	7.685	0.016	3.5	97.2	0.19	0	0	0.31	2.3
2002	347	23	275	944.098	-248.678	D	7.686	7.685	0.001	3.5	97.35	0.2	0	0	0.13	2.33
2002	348	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	349	23	47	962.803	-256.649	D	7.71	7.685	0.025	3.5	95.72	0.31	0	0	0.37	3.6
2002	350	23	8	961.676	-259.571	D	8.014	7.685	0.329	3.5	98.31	0.05	0	0	0.33	1.31

Appendix M
Mammoth Cave
MC 2002 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2002	351	23	297	944.609	-246.761	D	7.898	7.685	0.213	3.5	99.6	0.01	0	0	0.02	0.37
2002	352	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	353	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	354	23	8	961.676	-259.571	D	7.706	7.685	0.021	3.5	90.88	0.31	0	0	0.64	8.17
2002	355	23	297	944.609	-246.761	D	7.747	7.685	0.062	3.5	77.62	0.61	0	0	1.5	20.28
2002	356	23	8	961.676	-259.571	D	7.69	7.685	0.005	3.5	83.51	0.57	0	0	0.75	15.18
2002	357	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	358	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	359	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	360	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	361	23	172	943.804	-252.427	D	7.686	7.685	0.001	3.5	90.55	0.92	0	0	0.34	8.16
2002	362	23	290	946.175	-247.503	D	7.889	7.685	0.204	3.5	97.88	0.1	0	0	0.3	1.73
2002	363	23	297	944.609	-246.761	D	7.686	7.685	0.001	3.5	79.98	0.02	0	0	4.49	15.44
2002	364	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2002	365	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
									0.654							

Appendix M
Mammoth Cave
MC 2003 M6

NORANDA									DELTA		% of Modeled Extinction by Species					
YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	1	23	1	955.838	-260.274	D	7.641	7.641	0	3.404	0	0	0	0	0	0
2003	2	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	3	23	3	958.027	-260.011	D	7.639	7.639	0	3.4	57.95	0	0	0	5.72	8.9
2003	4	23	9	954.269	-259.534	D	7.642	7.639	0.003	3.4	98.46	0.1	0	0	0.13	1.32
2003	5	23	200	964.214	-249.977	D	7.71	7.639	0.071	3.4	97.58	0.08	0	0	0.35	1.99
2003	6	23	5	959.487	-259.835	D	7.639	7.639	0	3.4	43.03	3.69	0	0	0.03	23.28
2003	7	23	297	944.609	-246.761	D	7.65	7.639	0.011	3.4	97.5	0.11	0	0	0.06	2.33
2003	8	23	8	961.676	-259.571	D	7.724	7.639	0.085	3.4	95.56	0.07	0	0	0.32	4.05
2003	9	23	8	961.676	-259.571	D	7.651	7.639	0.012	3.4	52.92	2.09	0	0	3	41.99
2003	10	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	11	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	12	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	13	23	297	944.609	-246.761	D	7.706	7.639	0.068	3.4	92.74	0.44	0	0	0.34	6.49
2003	14	23	3	958.027	-260.011	D	7.736	7.639	0.098	3.4	95.55	0.24	0	0	0.41	3.79
2003	15	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	16	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	17	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	18	23	21	963.025	-258.479	D	7.642	7.639	0.003	3.4	97.99	0.29	0	0	0.12	1.59
2003	19	23	275	944.098	-248.678	D	7.689	7.639	0.05	3.4	95.43	0.18	0	0	0.33	4.06
2003	20	23	8	961.676	-259.571	D	7.69	7.639	0.051	3.4	85.49	0.76	0	0	0.95	12.8
2003	21	23	1	955.838	-260.274	D	7.702	7.639	0.063	3.4	96.76	0.2	0	0	0.13	2.92
2003	22	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	23	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	24	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	25	23	297	944.609	-246.761	D	7.798	7.639	0.159	3.4	96.55	0.22	0	0	0.39	2.83
2003	26	23	290	946.175	-247.503	D	7.686	7.639	0.047	3.4	93.22	0.31	0	0	0.75	5.72
2003	27	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	28	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	29	23	172	943.804	-252.427	D	7.64	7.639	0.001	3.4	98.3	0.02	0	0	0.35	1.33
2003	30	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	31	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	32	23	1	955.838	-260.274	D	7.535	7.505	0.029	3.112	96.12	0.14	0	0	0.31	3.42
2003	33	23	275	944.098	-248.678	D	7.52	7.5	0.021	3.1	98.41	0.11	0	0	0.04	1.43
2003	34	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	35	23	297	944.609	-246.761	D	7.501	7.5	0.002	3.1	84.18	0.4	0	0	1.67	13.74
2003	36	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	37	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	38	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	39	23	297	944.609	-246.761	D	7.507	7.5	0.007	3.1	98.48	0.08	0	0	0.1	1.35
2003	40	23	297	944.609	-246.761	D	7.556	7.5	0.056	3.1	95.83	0.07	0	0	0.95	3.15
2003	41	23	302	963.548	-244.486	D	7.561	7.5	0.062	3.1	97.62	0.17	0	0	0.23	1.97
2003	42	23	302	963.548	-244.486	D	7.56	7.5	0.061	3.1	93.19	0.29	0	0	0.29	6.24
2003	43	23	8	961.676	-259.571	D	7.5	7.5	0.001	3.1	73.76	1.39	0	0	0.96	23.9
2003	44	23	297	944.609	-246.761	D	7.517	7.5	0.017	3.1	98.13	0.05	0	0	0.29	1.53
2003	45	23	297	944.609	-246.761	D	7.541	7.5	0.041	3.1	98.7	0.08	0	0	0.09	1.13
2003	46	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	47	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	48	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	49	23	297	944.609	-246.761	D	7.524	7.5	0.024	3.1	98.3	0.1	0	0	0.19	1.41
2003	50	23	21	963.025	-258.479	D	7.506	7.5	0.006	3.1	92.72	0.86	0	0	0.25	6.2
2003	51	23	290	946.175	-247.503	D	7.5	7.5	0	3.1	82.56	0.01	0	0	6.95	11.08
2003	52	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	53	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	54	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	55	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	170.94	0.01	0	0	18.34	36.91
2003	56	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	57	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	58	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	59	23	1	955.838	-260.274	D	7.5	7.5	0	3.1	0	0	0	0	0	0
2003	60	23	297	944.609	-246.761	D	7.411	7.409	0.001	2.908	90.88	0	0	0	2.97	6.22
2003	61	23	119	945.479	-254.084	D	7.618	7.406	0.212	2.9	98.94	0.06	0	0	0.05	0.94
2003	62	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2003	63	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2003	64	23	172	943.804	-252.427	D	7.454	7.406	0.048	2.9	97.72	0.08	0	0	0.25	1.95
2003	65	23	1	955.838	-260.274	D	7.477	7.406	0.071	2.9	98.36	0.08	0	0	0.06	1.5
2003	66	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2003	67	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2003	68	23	172	943.804	-252.427	D	7.411	7.406	0.005	2.9	85.27	0.39	0	0	1.27	13.07
2003	69	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2003	70	23	119	945.479	-254.084	D	7.406	7.406	0	2.9	96.23	0	0	0	3.27	8.82
2003	71	23	297	944.609	-246.761	D	7.407	7.406	0.002	2.9	72.79	0.01	0	0	9.32	17.99
2003	72	23	172	943.804	-252.427	D	7.436	7.406	0.031	2.9	97.86	0.03	0	0	0.17	1.95
2003	73	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	100.91	0	0	0	0.02	0.52
2003	74	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2003	75	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2003	76	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2003	77	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	78	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2003	79	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2003	80	23	8	961.676	-259.571	D	7.436	7.406	0.03	2.9	96.28	0.06	0	0	0.45	3.22
2003	81	23	21	963.025	-258.479	D	7.406	7.406	0	2.9	41.14	2.84	0	0	0.09	56.08
2003	82	23	172	943.804	-252.427	D	7.421	7.406	0.015	2.9	97.99	0.01	0	0	0.29	1.73
2003	83	23	8	961.676	-259.571	D	7.475	7.406	0.07	2.9	94.2	0.05	0	0	0.48	5.27
2003	84	23	297	944.609	-246.761	D	7.406	7.406	0	2.9	89.93	0.26	0	0	0.73	9.31
2003	85	23	172	943.804	-252.427	D	7.421	7.406	0.016	2.9	94.12	0.22	0	0	0.16	5.52
2003	86	23	144	944.641	-253.256	D	7.406	7.406	0.001	2.9	98.49	0.03	0	0	0.05	1.7
2003	87	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2003	88	23	119	945.479	-254.084	D	7.416	7.406	0.01	2.9	95.18	0.1	0	0	0.15	4.56
2003	89	23	1	955.838	-260.274	D	7.406	7.406	0	2.9	0	0	0	0	0	0
2003	90	23	297	944.609	-246.761	D	7.408	7.406	0.003	2.9	95.73	0.03	0	0	0.54	3.73
2003	91	23	302	963.548	-244.486	D	7.27	7.269	0.001	2.612	95.73	0.05	0	0	0.37	3.83
2003	92	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	93	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	94	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	95	23	302	963.548	-244.486	D	7.266	7.263	0.003	2.6	80.84	0.36	0	0	1.92	16.89
2003	96	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	97	23	275	944.098	-248.678	D	7.315	7.263	0.053	2.6	99.51	0	0	0	0.12	0.38
2003	98	23	1	955.838	-260.274	D	7.347	7.263	0.084	2.6	99.65	0	0	0	0.03	0.32
2003	99	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	100	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	101	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	102	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	103	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	104	23	8	961.676	-259.571	D	7.27	7.263	0.007	2.6	97.32	0.01	0	0	0.28	2.42
2003	105	23	301	962.82	-244.575	D	7.263	7.263	0	2.6	81.29	0.01	0	0	0.34	13.96
2003	106	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	107	23	8	961.676	-259.571	D	7.28	7.263	0.017	2.6	93.66	0.02	0	0	0.48	5.84
2003	108	23	302	963.548	-244.486	D	7.263	7.263	0	2.6	71.76	0.92	0	0	0.39	27.25
2003	109	23	4	958.757	-259.923	D	7.263	7.263	0	2.6	80.4	0.14	0	0	0.31	12.7
2003	110	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	111	23	1	955.838	-260.274	D	7.272	7.263	0.009	2.6	86.4	0.08	0	0	1.6	11.92
2003	112	23	21	963.025	-258.479	D	7.264	7.263	0.001	2.6	85.6	0.06	0	0	1.16	13.16
2003	113	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	114	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	115	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	116	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	117	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	118	23	1	955.838	-260.274	D	7.263	7.263	0	2.6	0	0	0	0	0	0
2003	119	23	302	963.548	-244.486	D	7.288	7.263	0.025	2.6	95.55	0.03	0	0	1.08	3.35
2003	120	23	302	963.548	-244.486	D	7.268	7.263	0.006	2.6	97.33	0	0	0	0.25	2.41
2003	121	23	297	944.609	-246.761	D	7.535	7.535	0.001	3.175	97.31	0.01	0	0	0.47	2.25
2003	122	23	2	956.568	-260.187	D	7.579	7.546	0.033	3.2	94.85	0.19	0	0	0.83	4.13
2003	123	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	124	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	125	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	126	23	297	944.609	-246.761	D	7.546	7.546	0	3.2	87.77	0	0	0	7.57	12.66
2003	127	23	297	944.609	-246.761	D	7.546	7.546	0	3.2	89.77	0	0	0	5.48	10.34
2003	128	23	302	963.548	-244.486	D	7.623	7.546	0.076	3.2	97.64	0.06	0	0	0.31	2
2003	129	23	302	963.548	-244.486	D	7.546	7.546	0	3.2	98.29	0	0	0	0.39	1.64
2003	130	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	131	23	8	961.676	-259.571	D	7.552	7.546	0.006	3.2	85.02	0.18	0	0	0.71	14.1
2003	132	23	8	961.676	-259.571	D	7.548	7.546	0.002	3.2	93.96	0.02	0	0	0.64	5.39
2003	133	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	134	23	297	944.609	-246.761	D	7.562	7.546	0.015	3.2	97.52	0.01	0	0	0.2	2.28
2003	135	23	302	963.548	-244.486	D	7.627	7.546	0.081	3.2	96.06	0.16	0	0	0.55	3.24
2003	136	23	1	955.838	-260.274	D	7.645	7.546	0.099	3.2	98.92	0.02	0	0	0.1	0.97
2003	137	23	297	944.609	-246.761	D	7.554	7.546	0.008	3.2	98.56	0.01	0	0	0.1	1.34
2003	138	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	139	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	140	23	172	943.804	-252.427	D	7.627	7.546	0.081	3.2	98.72	0.01	0	0	0.24	1.02
2003	141	23	1	955.838	-260.274	D	7.615	7.546	0.069	3.2	99	0.03	0	0	0.09	0.89
2003	142	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	94.98	0	0	0	0.61	4.95
2003	143	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	144	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	145	23	172	943.804	-252.427	D	7.546	7.546	0	3.2	199.03	0	0	0	39.77	65.72
2003	146	23	64	950.912	-256.222	D	7.546	7.546	0	3.2	72.63	0	0	0	3.03	5.82
2003	147	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	148	23	8	961.676	-259.571	D	7.547	7.546	0.001	3.2	94.07	0	0	0	0.61	5.41
2003	149	23	8	961.676	-259.571	D	7.546	7.546	0	3.2	84.48	0.01	0	0	1.27	15.34
2003	150	23	172	943.804	-252.427	D	7.546	7.546	0	3.2	100.72	0	0	0	0.13	0.42
2003	151	23	290	946.175	-247.503	D	7.558	7.546	0.012	3.2	74.32	0.97	0	0	1.38	23.33
2003	152	23	1	955.838	-260.274	D	7.679	7.679	0	3.487	0	0	0	0	0	0
2003	153	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	154	23	297	944.609	-246.761	D	7.759	7.685	0.074	3.5	98.11	0.02	0	0	0.13	1.73
2003	155	23	21	963.025	-258.479	D	7.709	7.685	0.024	3.5	99.03	0.02	0	0	0.03	0.91

Appendix M
Mammoth Cave
MC 2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	156	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	157	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	158	23	144	944.641	-253.256	D	7.685	7.685	0	3.5	94.17	0	0	0	1.99	4.9
2003	159	23	8	961.676	-259.571	D	7.803	7.685	0.118	3.5	98	0	0	0	0.39	1.6
2003	160	23	3	958.027	-260.011	D	7.725	7.685	0.04	3.5	97.09	0.01	0	0	0.35	2.55
2003	161	23	1	955.838	-260.274	D	7.734	7.685	0.049	3.5	96.48	0.01	0	0	0.33	3.19
2003	162	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	163	23	297	944.609	-246.761	D	7.8	7.685	0.116	3.5	97.42	0.02	0	0	0.13	2.43
2003	164	23	297	944.609	-246.761	D	7.704	7.685	0.019	3.5	98.2	0	0	0	0.08	1.72
2003	165	23	297	944.609	-246.761	D	7.751	7.685	0.066	3.5	99.54	0	0	0	0.09	0.37
2003	166	23	171	964.325	-250.892	D	7.796	7.685	0.111	3.5	98.74	0.01	0	0	0.1	1.16
2003	167	23	2	956.568	-260.187	D	7.732	7.685	0.047	3.5	99.19	0.01	0	0	0.07	0.73
2003	168	23	8	961.676	-259.571	D	7.7	7.685	0.015	3.5	99.41	0.01	0	0	0.04	0.55
2003	169	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	96.03	0	0	0	0.78	4.97
2003	170	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	171	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	172	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	173	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	174	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	175	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	176	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	177	23	297	944.609	-246.761	D	7.685	7.685	0	3.5	95.44	0.03	0	0	0.86	3.2
2003	178	23	1	955.838	-260.274	D	7.714	7.685	0.029	3.5	98.53	0.06	0	0	0.11	1.31
2003	179	23	7	960.946	-259.659	D	7.685	7.685	0	3.5	95.01	0.03	0	0	0.28	3.5
2003	180	23	3	958.027	-260.011	D	7.685	7.685	0	3.5	92.44	0.01	0	0	0.38	6.67
2003	181	23	254	944.206	-249.594	D	7.685	7.685	0	3.5	75.84	0	0	0	5.07	9.64
2003	182	23	99	948.505	-254.653	D	7.772	7.772	0	3.692	82.56	0	0	0	4.47	8.8
2003	183	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	184	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	185	23	297	944.609	-246.761	D	7.79	7.776	0.014	3.7	98.91	0	0	0	0.07	1.02
2003	186	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	187	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	188	23	302	963.548	-244.486	D	7.785	7.776	0.009	3.7	94.24	0.07	0	0	1.33	4.35
2003	189	23	297	944.609	-246.761	D	7.793	7.776	0.017	3.7	95	0.04	0	0	0.81	4.16
2003	190	23	297	944.609	-246.761	D	7.777	7.776	0.001	3.7	99.02	0	0	0	0.24	0.7
2003	191	23	297	944.609	-246.761	D	7.808	7.776	0.032	3.7	97.72	0.01	0	0	0.27	2
2003	192	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	193	23	302	963.548	-244.486	D	7.823	7.776	0.046	3.7	97.66	0	0	0	0.21	2.12
2003	194	23	21	963.025	-258.479	D	7.776	7.776	0	3.7	71.59	0.04	0	0	0.49	19.51

Appendix M
Mammoth Cave
MC 2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	195	23	1	955.838	-260.274	D	7.791	7.776	0.014	3.7	99.16	0	0	0	0.14	0.69
2003	196	23	2	956.568	-260.187	D	7.823	7.776	0.046	3.7	99.38	0	0	0	0.06	0.56
2003	197	23	3	958.027	-260.011	D	7.797	7.776	0.021	3.7	91.02	0.07	0	0	2.08	6.82
2003	198	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	199	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	200	23	1	955.838	-260.274	D	7.779	7.776	0.002	3.7	99.49	0	0	0	0.07	0.47
2003	201	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	202	23	297	944.609	-246.761	D	7.785	7.776	0.009	3.7	98.95	0.01	0	0	0.14	0.91
2003	203	23	297	944.609	-246.761	D	7.805	7.776	0.029	3.7	97.86	0.04	0	0	0.15	1.95
2003	204	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	205	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	206	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	207	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	208	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	209	23	297	944.609	-246.761	D	7.879	7.776	0.102	3.7	97.82	0	0	0	0.26	1.91
2003	210	23	21	963.025	-258.479	D	7.841	7.776	0.065	3.7	97.41	0.09	0	0	0.1	2.4
2003	211	23	1	955.838	-260.274	D	7.776	7.776	0	3.7	0	0	0	0	0	0
2003	212	23	119	945.479	-254.084	D	7.896	7.776	0.12	3.7	99.09	0.01	0	0	0.11	0.79
2003	213	23	119	945.479	-254.084	D	8.002	7.863	0.138	3.892	99.36	0.01	0	0	0.07	0.57
2003	214	23	297	944.609	-246.761	D	8.132	7.867	0.265	3.9	98.46	0.01	0	0	0.14	1.38
2003	215	23	21	963.025	-258.479	D	7.974	7.867	0.107	3.9	98.67	0.01	0	0	0.29	1.02
2003	216	23	297	944.609	-246.761	D	7.936	7.867	0.069	3.9	98.74	0.01	0	0	0.23	1.02
2003	217	23	1	955.838	-260.274	D	8.095	7.867	0.228	3.9	98.54	0.02	0	0	0.1	1.34
2003	218	23	8	961.676	-259.571	D	7.867	7.867	0	3.9	58.95	0.01	0	0	2.57	9.47
2003	219	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	220	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	221	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	222	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	223	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	224	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	225	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	226	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	227	23	275	944.098	-248.678	D	7.871	7.867	0.004	3.9	99.22	0	0	0	0.15	0.65
2003	228	23	172	943.804	-252.427	D	7.892	7.867	0.025	3.9	99.08	0	0	0	0.05	0.87
2003	229	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	230	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	231	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	232	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	233	23	275	944.098	-248.678	D	7.891	7.867	0.024	3.9	99.09	0	0	0	0.11	0.8

Appendix M
Mammoth Cave
MC 2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	234	23	297	944.609	-246.761	D	8.117	7.867	0.25	3.9	98.72	0	0	0	0.19	1.09
2003	235	23	9	954.269	-259.534	D	8.001	7.867	0.134	3.9	98.2	0.01	0	0	0.05	1.74
2003	236	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	237	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	238	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	239	23	297	944.609	-246.761	D	7.916	7.867	0.049	3.9	99.23	0	0	0	0.11	0.66
2003	240	23	119	945.479	-254.084	D	8.131	7.867	0.264	3.9	97.62	0.03	0	0	0.15	2.2
2003	241	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	242	23	297	944.609	-246.761	D	7.97	7.867	0.103	3.9	97.83	0.02	0	0	0.47	1.67
2003	243	23	297	944.609	-246.761	D	7.919	7.867	0.052	3.9	98.76	0.02	0	0	0.12	1.09
2003	244	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	245	23	300	962.092	-244.663	D	7.892	7.867	0.025	3.9	97.42	0.08	0	0	0.29	2.21
2003	246	23	297	944.609	-246.761	D	7.878	7.867	0.011	3.9	98.74	0	0	0	0.38	0.88
2003	247	23	172	943.804	-252.427	D	7.899	7.867	0.032	3.9	98.76	0	0	0	0.17	1.06
2003	248	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	249	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	250	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	251	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	252	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	253	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	254	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	255	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	256	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	257	23	172	943.804	-252.427	D	7.874	7.867	0.007	3.9	98.94	0	0	0	0.13	0.93
2003	258	23	8	961.676	-259.571	D	7.912	7.867	0.045	3.9	97.11	0.04	0	0	0.09	2.76
2003	259	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	260	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	261	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	262	23	1	955.838	-260.274	D	7.879	7.867	0.013	3.9	99.45	0	0	0	0.1	0.45
2003	263	23	3	958.027	-260.011	D	7.867	7.867	0	3.9	85.58	0	0	0	0.31	11.85
2003	264	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	265	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	266	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	267	23	297	944.609	-246.761	D	7.869	7.867	0.002	3.9	98.35	0	0	0	0.16	1.48
2003	268	23	119	945.479	-254.084	D	7.882	7.867	0.015	3.9	97.36	0.03	0	0	0.31	2.3
2003	269	23	1	955.838	-260.274	D	7.915	7.867	0.048	3.9	98.97	0	0	0	0.08	0.95
2003	270	23	21	963.025	-258.479	D	7.886	7.867	0.019	3.9	97.02	0.08	0	0	0.32	2.57
2003	271	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	272	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0

Appendix M
Mammoth Cave
MC 2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	273	23	1	955.838	-260.274	D	7.867	7.867	0	3.9	0	0	0	0	0	0
2003	274	23	1	955.838	-260.274	D	7.648	7.648	0	3.421	0	0	0	0	0	0
2003	275	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	276	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	15.34	0	0	0	6.48	11.15
2003	277	23	8	961.676	-259.571	D	7.662	7.639	0.023	3.4	86.35	0.09	0	0	1.4	12.17
2003	278	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	279	23	297	944.609	-246.761	D	7.677	7.639	0.038	3.4	96.53	0.09	0	0	0.22	3.16
2003	280	23	297	944.609	-246.761	D	7.665	7.639	0.026	3.4	97.79	0.01	0	0	0.09	2.11
2003	281	23	172	943.804	-252.427	D	7.641	7.639	0.002	3.4	97.94	0	0	0	0.04	2.08
2003	282	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	34.39	0	0	0	0.03	3.98
2003	283	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	284	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	285	23	9	954.269	-259.534	D	7.667	7.639	0.028	3.4	98.93	0.01	0	0	0.21	0.85
2003	286	23	8	961.676	-259.571	D	7.641	7.639	0.002	3.4	99.44	0	0	0	0.06	0.54
2003	287	23	297	944.609	-246.761	D	7.645	7.639	0.006	3.4	95.63	0.16	0	0	0.49	3.72
2003	288	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	289	23	297	944.609	-246.761	D	7.688	7.639	0.05	3.4	95.92	0.07	0	0	0.31	3.71
2003	290	23	275	944.098	-248.678	D	7.639	7.639	0	3.4	85.45	0	0	0	3.13	11.68
2003	291	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	89.1	0	0	0	0.92	10.27
2003	292	23	48	963.533	-256.561	D	7.768	7.639	0.129	3.4	97.76	0.02	0	0	0.39	1.84
2003	293	23	8	961.676	-259.571	D	7.672	7.639	0.033	3.4	96.21	0.01	0	0	0.12	3.66
2003	294	23	8	961.676	-259.571	D	7.67	7.639	0.031	3.4	90.48	0.28	0	0	0.61	8.63
2003	295	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	296	23	9	954.269	-259.534	D	7.641	7.639	0.002	3.4	98.88	0	0	0	0.34	0.81
2003	297	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	298	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	299	23	297	944.609	-246.761	D	7.681	7.639	0.042	3.4	97.25	0.16	0	0	0.1	2.5
2003	300	23	47	962.803	-256.649	D	7.639	7.639	0	3.4	91.18	0.01	0	0	3.34	5.62
2003	301	23	297	944.609	-246.761	D	7.643	7.639	0.004	3.4	93.2	0.21	0	0	0.78	5.82
2003	302	23	119	945.479	-254.084	D	7.664	7.639	0.025	3.4	97.89	0.11	0	0	0.08	1.92
2003	303	23	119	945.479	-254.084	D	7.639	7.639	0	3.4	1.05	4.45	0	0	0.01	89.7
2003	304	23	1	955.838	-260.274	D	7.639	7.639	0	3.4	0	0	0	0	0	0
2003	305	23	297	944.609	-246.761	D	7.567	7.55	0.017	3.208	95.83	0.03	0	0	0.28	3.87
2003	306	23	297	944.609	-246.761	D	7.551	7.546	0.005	3.2	96.87	0.01	0	0	0.04	3.08
2003	307	23	293	961.474	-245.666	D	7.546	7.546	0	3.2	46.03	0	0	0	22.04	36.4
2003	308	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	309	23	1	955.838	-260.274	D	7.631	7.546	0.084	3.2	99.09	0.01	0	0	0.18	0.73
2003	310	23	21	963.025	-258.479	D	7.626	7.546	0.08	3.2	99.58	0.01	0	0	0.03	0.38
2003	311	23	8	961.676	-259.571	D	7.546	7.546	0	3.2	97.76	0	0	0	0.01	0.2

Appendix M
Mammoth Cave
MC 2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	312	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	313	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	314	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	315	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	316	23	297	944.609	-246.761	D	7.566	7.546	0.02	3.2	96.39	0.04	0	0	0.45	3.12
2003	317	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	318	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	319	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	320	23	172	943.804	-252.427	D	7.546	7.546	0	3.2	100.53	0	0	0	0.04	0.32
2003	321	23	290	946.175	-247.503	D	7.546	7.546	0	3.2	92.48	0	0	0	3.06	4.95
2003	322	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	323	23	172	943.804	-252.427	D	7.547	7.546	0.001	3.2	98.09	0.01	0	0	0.3	1.62
2003	324	23	172	943.804	-252.427	D	7.547	7.546	0	3.2	58.89	0.35	0	0	0.86	40.26
2003	325	23	297	944.609	-246.761	D	7.55	7.546	0.004	3.2	85.94	0.1	0	0	0.18	13.79
2003	326	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	327	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	328	23	297	944.609	-246.761	D	7.554	7.546	0.008	3.2	91.49	0.28	0	0	0.81	7.44
2003	329	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	330	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	331	23	1	955.838	-260.274	D	7.546	7.546	0	3.2	0	0	0	0	0	0
2003	332	23	119	945.479	-254.084	D	7.546	7.546	0	3.2	78.87	0	0	0	7.66	13.36
2003	333	23	172	943.804	-252.427	D	7.548	7.546	0.002	3.2	81.73	0.7	0	0	0.47	17.16
2003	334	23	300	962.092	-244.663	D	7.553	7.546	0.007	3.2	94.69	0.21	0	0	0.09	5
2003	335	23	300	962.092	-244.663	D	7.687	7.679	0.008	3.487	81.06	0.77	0	0	1.97	16.2
2003	336	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	337	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	338	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	339	23	8	961.676	-259.571	D	7.717	7.685	0.032	3.5	98.25	0.17	0	0	0.09	1.49
2003	340	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	341	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	342	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	343	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	344	23	297	944.609	-246.761	D	7.687	7.685	0.002	3.5	97.3	0.01	0	0	0.34	2.32
2003	345	23	28	958.537	-258.093	D	7.699	7.685	0.014	3.5	95.64	0.13	0	0	0.38	3.85
2003	346	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	347	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	348	23	3	958.027	-260.011	D	7.685	7.685	0	3.5	73.9	0.01	0	0	22.05	36.22
2003	349	23	172	943.804	-252.427	D	7.731	7.685	0.046	3.5	97.86	0.1	0	0	0.19	1.85
2003	350	23	119	945.479	-254.084	D	7.704	7.685	0.019	3.5	97.22	0.13	0	0	0.5	2.16

Appendix M
Mammoth Cave
MC 2003 M6

YEAR	DAY	HR	RECEPTOR	COORDINATES	(km)	TYPE	DV(Total)	DV(BKG)	DV	F(RH)	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF
2003	351	23	21	963.025	-258.479	D	7.686	7.685	0.001	3.5	98.07	0.17	0	0	0.11	1.63
2003	352	23	302	963.548	-244.486	D	7.727	7.685	0.043	3.5	91.69	0.37	0	0	0.82	7.13
2003	353	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	354	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	355	23	297	944.609	-246.761	D	7.685	7.685	0	3.5	66.16	2.45	0	0	0.9	30.07
2003	356	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	357	23	9	954.269	-259.534	D	7.815	7.685	0.13	3.5	97.17	0.12	0	0	0.31	2.39
2003	358	23	21	963.025	-258.479	D	7.694	7.685	0.01	3.5	97.56	0.17	0	0	0.15	2.12
2003	359	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	360	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	361	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	362	23	1	955.838	-260.274	D	7.685	7.685	0	3.5	0	0	0	0	0	0
2003	363	23	297	944.609	-246.761	D	7.693	7.685	0.008	3.5	98.24	0.08	0	0	0.2	1.48
2003	364	23	9	954.269	-259.534	D	7.743	7.685	0.058	3.5	98.79	0.09	0	0	0.09	1.02
									0.265							