Missouri
Department of
Natural Resources

Appendix D - On-Road

- Mobile6 vs Mobile 5 National Run Graphs
- 2004 VMT Results for New Budgets
- Cutpoints
- St. Louis Vehicle Registration
- St. Louis SVMT
- Franklin County SVMT
- Mobile 6 Model Inputs (Weather Data)
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- Mobile 6 Input File Used for Franklin County
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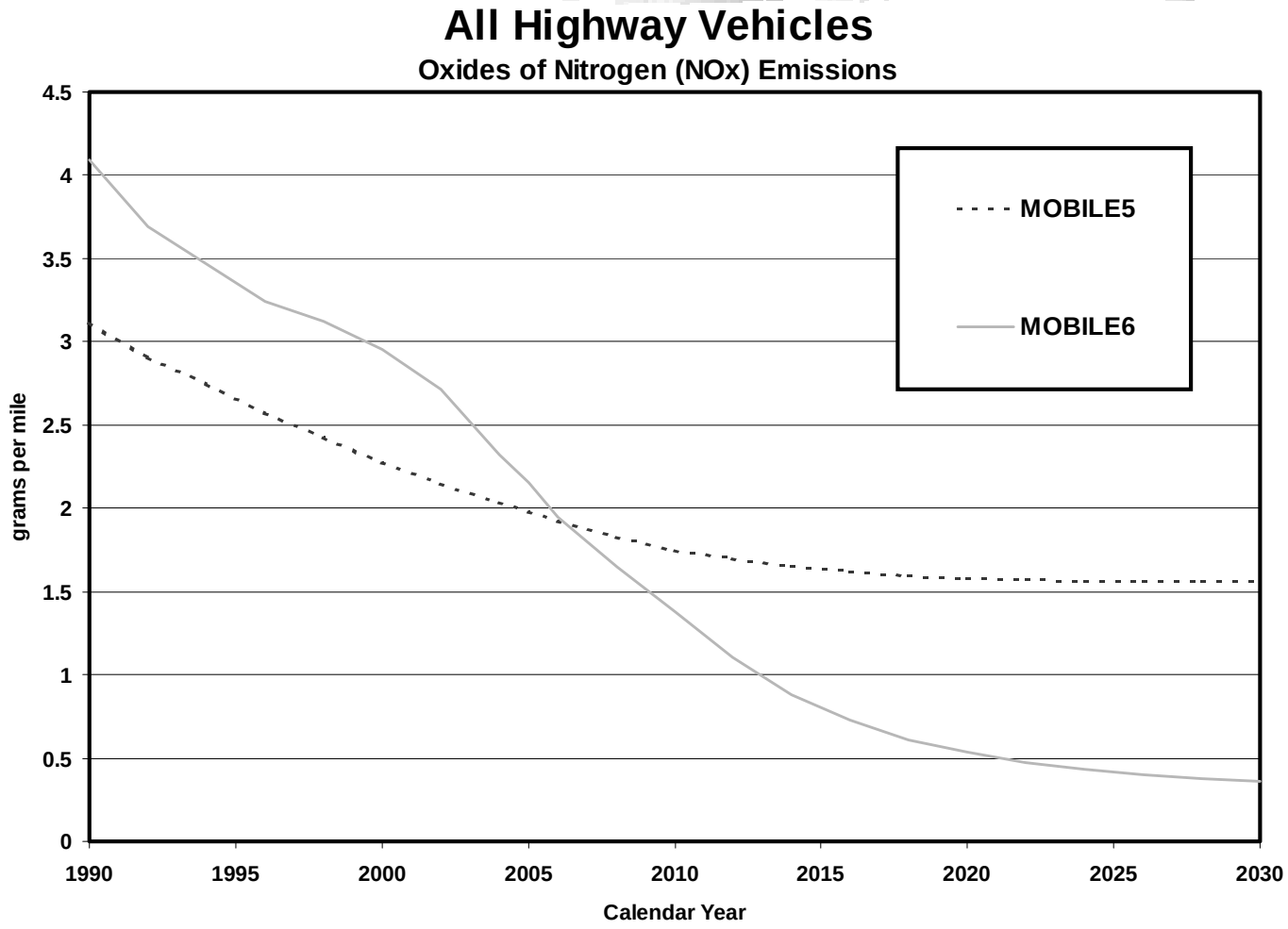
- St. Louis Enhanced Area Mobile Emissions
- Franklin Enhanced Area Mobile Emissions

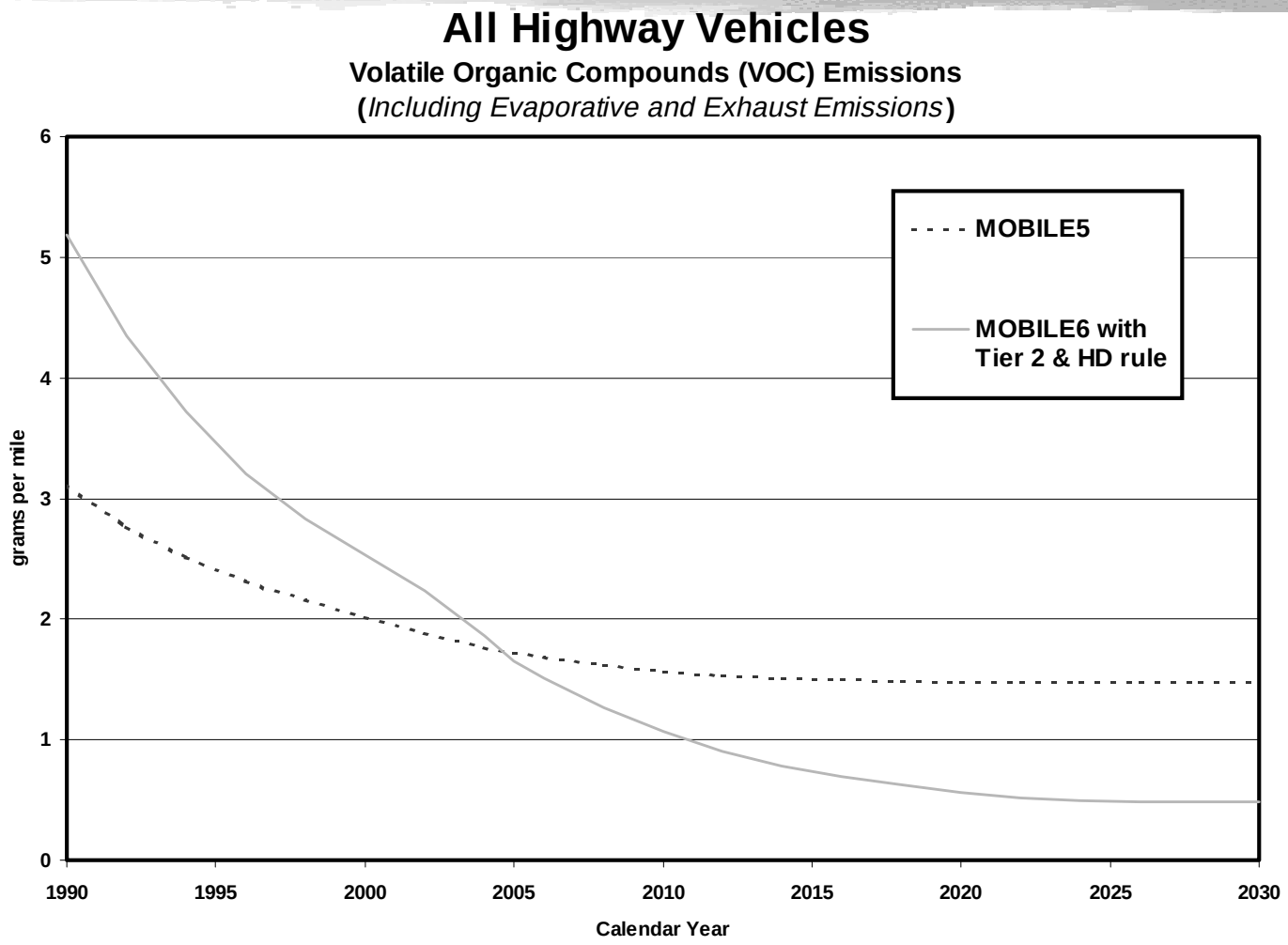
MOBILE6 Vs. MOBILE5

National Run



MOBILE6 Vs. MOBILE5

National Run



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Missouri Department of Natural Resources
Air Pollution Control Program

YEAR 2004 VMT RESULTS FOR NEW BUDGETS

ST LOUIS CITY OP

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	0	0	0	0
5.0	0	786	0	5,811	6,597
10.0	16,667	52,604	1,449	435,489	506,209
15.0	4,917	116,969	428	207,800	330,114
20.0	9,996	800,386	869	0	811,251
25.0	79,420	1,363,399	6,906	0	1,449,725
30.0	49,220	102,341	4,280	0	155,841
35.0	151,988	84,766	13,216	0	249,970
40.0	519,534	0	45,177	0	564,711
45.0	1,282,638	0	111,534	0	1,394,172
50.0	306,449	0	26,648	0	333,097
55.0	0	0	0	0	0
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	2,420,829	2,521,251	210,507	649,100	6,012,194

ST LOUIS CITY TOTAL

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	0	0	0	0
5.0	18,446	7,585	1,604	9,871	39,110
10.0	24,038	136,991	2,090	739,827	905,036
15.0	23,036	408,912	2,003	353,020	788,974
20.0	84,842	1,541,783	7,378	0	1,641,381
25.0	315,722	2,071,961	27,454	0	2,442,591
30.0	380,299	337,760	33,069	0	784,197
35.0	436,651	112,812	37,970	0	625,403
40.0	742,098	0	64,530	0	871,158
45.0	1,428,710	0	124,236	0	1,677,182
50.0	346,066	0	30,093	0	406,252
55.0	0	0	0	0	0
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	3,799,908	4,617,804	330,427	1,102,718	10,181,284

ST LOUIS COUNTY OP

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	0	0	0	0
5.0	3,228	11,387	281	0	14,896
10.0	1,527	78,688	133	0	80,348
15.0	0	233,125	0	2,958,471	3,191,596
20.0	20,542	947,671	1,786	0	969,999
25.0	92,307	3,491,230	8,027	0	3,591,564
30.0	85,736	2,060,783	7,455	811,490	2,965,464
35.0	197,530	865,936	17,177	0	1,080,643
40.0	1,436,224	1,032,761	124,889	113,573	2,707,447
45.0	4,676,373	66,971	406,641	0	5,149,985
50.0	2,495,914	667,011	217,036	0	3,379,961
55.0	175,101	0	15,226	0	190,327
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	9,184,482	9,455,563	798,651	3,883,534	23,322,230

ST LOUIS COUNTY TOTAL

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	11,964	0	0	11,964
5.0	4,807	119,423	418	0	124,648
10.0	6,944	405,960	604	0	413,508
15.0	33,927	969,012	2,950	4,988,292	5,994,181
20.0	186,202	2,311,795	16,192	0	2,514,189
25.0	768,064	5,449,275	66,788	0	6,284,127
30.0	1,363,260	3,437,095	118,544	1,368,257	6,287,156
35.0	1,307,627	1,503,742	113,707	0	2,925,076
40.0	2,279,696	1,338,911	198,234	191,496	4,008,337
45.0	5,320,576	303,995	462,659	0	6,087,230
50.0	2,835,133	728,141	246,533	0	3,809,807
55.0	376,090	58,798	32,704	0	467,592
60.0	14,620	0	1,271	0	15,891
65.0	0	0	0	0	0
TOTAL	14,496,946	16,638,111	1,260,604	6,548,045	38,943,706

ST CHARLES COUNTY OP

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	0	0	0	0
5.0	0	13,062	0	0	13,062
10.0	6,986	24,385	608	0	31,979
15.0	0	91,785	0	331,720	423,505
20.0	10,250	326,341	891	0	337,482
25.0	45,649	511,419	3,969	0	561,037
30.0	25,665	494,987	2,232	176,547	699,431
35.0	0	560,391	0	0	560,391
40.0	29,660	529,743	2,579	91,241	653,223
45.0	199,954	231,228	17,387	0	448,569
50.0	1,113,354	290,704	96,813	0	1,500,871
55.0	0	0	0	0	0
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	1,431,517	3,074,045	124,480	599,508	5,229,550

ST CHARLES COUNTY TOTAL

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	4,928	0	0	4,928
5.0	0	35,601	0	0	35,601
10.0	11,966	80,429	1,140	0	93,534
15.0	9,518	284,437	906	562,826	857,688
20.0	68,538	614,113	6,527	0	689,179
25.0	135,636	943,422	12,918	0	1,091,976
30.0	180,604	977,213	17,200	299,545	1,474,563
35.0	136,571	859,103	13,007	0	1,008,681
40.0	207,421	673,614	18,037	154,808	1,053,880
45.0	285,450	424,285	24,822	0	734,557
50.0	1,143,398	388,748	99,426	0	1,631,572
55.0	70,701	25,630	6,148	0	102,479
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	2,249,805	5,311,523	200,131	1,017,179	8,778,638

JEFFERSON COUNTY OP

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	0	0	0	0
5.0	0	1,062	0	0	1,062
10.0	0	0	0	0	0
15.0	0	88,750	0	11,287	100,037
20.0	0	164,158	0	0	164,158
25.0	0	276,588	0	0	276,588
30.0	0	254,109	0	405,695	659,804
35.0	0	264,753	0	0	264,753
40.0	0	232,960	0	493,838	726,798
45.0	68,477	551,099	5,955	0	625,531
50.0	761,433	92,496	66,212	0	920,141
55.0	196,156	0	17,057	0	213,213
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	1,026,067	1,925,975	89,223	910,820	3,952,085

JEFFERSON COUNTY TOTAL

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	1,495	0	0	1,495
5.0	0	65,830	0	0	65,830
10.0	0	57,924	0	0	57,924
15.0	37,231	225,376	3,238	19,002	284,847
20.0	112,525	399,199	9,785	0	521,509
25.0	73,640	439,540	6,404	0	519,584
30.0	28,081	410,447	2,442	682,969	1,123,939
35.0	46,960	393,705	4,083	0	444,748
40.0	59,167	453,730	5,145	831,353	1,349,395
45.0	193,206	566,178	16,801	0	776,185
50.0	826,760	92,496	71,892	0	991,148
55.0	196,156	0	17,057	0	213,213
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	1,573,727	3,105,920	136,846	1,533,324	6,349,817

FRANKLIN COUNTY OP

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	0	0	0	0
5.0	0	2,124	0	0	2,124
10.0	0	5,614	0	0	5,614
15.0	0	25,997	0	45,536	71,533
20.0	0	89,641	0	0	89,641
25.0	4,406	171,902	383	0	176,691
30.0	3,540	233,679	308	138,990	376,517
35.0	0	556,972	0	0	556,972
40.0	0	0	0	317,482	317,482
45.0	0	0	0	0	0
50.0	262,394	0	22,817	0	285,211
55.0	617,084	0	53,660	0	670,744
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	887,425	1,085,929	77,167	502,008	2,552,529

FRANKLIN COUNTY TOTAL

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	1,497	0	0	1,497
5.0	0	17,851	0	0	17,851
10.0	0	22,115	0	0	22,115
15.0	32,743	92,850	2,847	76,147	204,587
20.0	48,215	218,737	4,193	0	271,145
25.0	30,898	357,693	2,687	0	391,278
30.0	31,306	390,158	2,722	232,423	656,609
35.0	5,077	700,640	441	0	706,158
40.0	28,880	0	2,511	530,902	562,293
45.0	156,621	0	13,619	0	170,240
50.0	280,278	0	24,372	0	304,650
55.0	737,807	0	64,157	0	801,964
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	1,351,824	1,801,541	117,550	839,472	4,110,387

Missouri Department of Natural Resources
Air Pollution Control Program

YEAR 2004 VMT RESULTS FOR NEW BUDGETS

ST LOUIS CITY AM

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	0	0	0	0
5.0	7,620	103	663	1,544	9,930
10.0	4,032	8,639	299	115,732	128,701
15.0	5,144	68,751	447	55,223	129,565
20.0	63,014	143,686	5,480	0	212,180
25.0	85,998	350,253	7,478	0	443,729
30.0	115,125	212,660	10,011	0	337,796
35.0	94,579	26,838	8,224	0	129,641
40.0	75,165	0	6,536	0	81,701
45.0	42,624	0	3,706	0	46,330
50.0	33,236	0	2,890	0	36,126
55.0	0	0	0	0	0
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	526,536	810,930	45,734	172,499	1,555,699

ST LOUIS CITY PM

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	0	0	0	0
5.0	10,826	6,696	941	2,516	20,979
10.0	3,937	75,748	342	188,606	268,633
15.0	12,975	223,192	1,128	89,997	327,292
20.0	11,832	597,711	1,029	0	610,572
25.0	150,304	358,309	13,070	0	521,683
30.0	215,953	22,759	18,779	0	257,491
35.0	190,085	1,208	16,529	0	207,822
40.0	147,399	0	12,817	0	160,216
45.0	103,448	0	8,996	0	112,444
50.0	6,381	0	555	0	6,936
55.0	0	0	0	0	0
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	853,140	1,285,623	74,186	281,119	2,494,068

ST LOUIS COUNTY AM

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	0	0	0	0
5.0	0	8,796	0	0	8,796
10.0	811	79,362	70	0	80,243
15.0	10,920	215,186	950	760,675	987,731
20.0	14,009	363,005	1,218	0	378,232
25.0	249,742	568,561	21,717	0	840,020
30.0	372,817	786,335	32,419	208,648	1,400,219
35.0	386,813	379,654	33,636	0	800,103
40.0	264,995	152,072	23,043	29,202	469,312
45.0	266,778	108,499	23,198	0	398,475
50.0	238,459	18,669	20,736	0	277,864
55.0	181,121	58,798	15,750	0	255,669
60.0	14,620	0	1,271	0	15,891
65.0	0	0	0	0	0
TOTAL	2,001,086	2,738,937	174,007	998,525	5,912,555

ST LOUIS COUNTY PM

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	11,964	0	0	11,964
5.0	1,579	99,240	137	0	100,956
10.0	4,606	247,910	401	0	252,917
15.0	23,006	520,701	2,001	1,269,146	1,814,854
20.0	151,652	1,001,119	13,187	0	1,165,958
25.0	426,014	1,389,484	37,045	0	1,852,543
30.0	904,707	589,977	78,670	348,119	1,921,473
35.0	723,284	258,152	62,894	0	1,044,330
40.0	578,477	154,078	50,302	48,721	831,578
45.0	377,425	128,525	32,820	0	538,770
50.0	100,759	42,461	8,762	0	151,982
55.0	19,868	0	1,728	0	21,596
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	3,311,378	4,443,611	287,946	1,665,986	9,708,921

ST CHARLES COUNTY AM

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	0	0	0	0
5.0	0	3,262	0	0	3,262
10.0	0	12,241	0	0	12,241
15.0	1,177	49,941	102	88,793	140,013
20.0	2,612	85,615	227	0	88,454
25.0	15,225	133,806	1,324	0	150,355
30.0	44,438	208,422	3,864	47,257	303,981
35.0	84,132	148,159	7,316	0	239,607
40.0	45,883	71,380	3,990	24,423	145,676
45.0	33,096	84,673	2,878	0	120,647
50.0	30,044	42,489	2,613	0	75,146
55.0	70,701	25,630	6,148	0	102,479
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	327,308	865,618	28,462	160,473	1,381,861

ST CHARLES COUNTY PM

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	4,928	0	0	4,928
5.0	0	19,277	0	0	19,277
10.0	6,119	43,803	532	0	50,454
15.0	9,248	142,711	804	142,313	295,076
20.0	62,204	202,157	5,409	0	269,770
25.0	87,681	298,197	7,624	0	393,502
30.0	127,702	273,804	11,104	75,741	488,351
35.0	65,446	150,553	5,691	0	221,690
40.0	131,878	72,491	11,468	39,144	254,981
45.0	52,400	108,384	4,557	0	165,341
50.0	0	55,555	0	0	55,555
55.0	0	0	0	0	0
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	542,678	1,371,860	47,189	257,198	2,218,925

JEFFERSON COUNTY AM

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	1,495	0	0	1,495
5.0	0	33,013	0	0	33,013
10.0	0	29,219	0	0	29,219
15.0	37,231	61,906	3,238	3,007	105,382
20.0	60,470	101,990	5,258	0	167,718
25.0	0	89,441	0	0	89,441
30.0	28,081	28,179	2,442	108,065	166,767
35.0	0	57,690	0	0	57,690
40.0	12,925	71,394	1,124	131,543	216,986
45.0	35,567	3,422	3,093	0	42,082
50.0	36,061	0	3,136	0	39,197
55.0	0	0	0	0	0
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	210,336	477,749	18,290	242,615	948,990

JEFFERSON COUNTY PM

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	0	0	0	0
5.0	0	31,755	0	0	31,755
10.0	0	28,705	0	0	28,705
15.0	0	74,720	0	4,708	79,428
20.0	61,109	133,051	4,527	0	198,686
25.0	73,640	73,511	6,404	0	153,555
30.0	0	128,159	0	169,209	297,368
35.0	46,960	71,262	4,083	0	122,305
40.0	46,242	149,376	4,021	205,972	405,611
45.0	89,162	11,657	7,753	0	108,572
50.0	29,265	0	2,545	0	31,810
55.0	0	0	0	0	0
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	346,378	702,196	29,333	379,889	1,457,795

FRANKLIN COUNTY AM

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	470	0	0	470
5.0	0	6,412	0	0	6,412
10.0	0	7,793	0	0	7,793
15.0	32,743	30,644	2,847	11,731	77,965
20.0	897	69,993	78	0	70,968
25.0	22,240	50,162	1,934	0	74,336
30.0	171	54,446	15	35,806	90,438
35.0	5,077	56,880	441	0	62,398
40.0	21,905	0	1,905	81,789	105,599
45.0	42,602	0	3,704	0	46,306
50.0	3,509	0	305	0	3,814
55.0	45,236	0	3,934	0	49,170
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	174,380	276,800	15,163	129,326	595,669

FRANKLIN COUNTY PM

SPEED	INTERSTATES	ARTERIALS	RAMPS	LOCALS	TOTAL
2.5	0	1,027	0	0	1,027
5.0	0	9,315	0	0	9,315
10.0	0	8,708	0	0	8,708
15.0	0	36,209	0	18,880	55,089
20.0	47,318	59,103	4,115	0	110,536
25.0	4,252	135,629	370	0	140,251
30.0	27,594	102,033	2,400	57,627	189,654
35.0	0	86,788	0	0	86,788
40.0	6,975	0	606	131,631	139,212
45.0	114,019	0	9,915	0	123,934
50.0	14,375	0	1,250	0	15,625
55.0	75,486	0	6,564	0	82,050
60.0	0	0	0	0	0
65.0	0	0	0	0	0
TOTAL	290,020	438,812	25,219	208,138	962,189

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* External data file CUTPOINT.D (SEE P. 16&17 OF EPA REPORT M6.IM.001)
*
I/M CUTPOINTS
* Block 1 (LDGV, LDGT1)
  1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200
  1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200
  1.200   1.200   1.200   1.200   1.200
 20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000
 20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000
 20.000  20.000  20.000  20.000  20.000
  3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000
  3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000
  3.000   3.000   3.000   3.000   3.000

* Block 2 (LDGT2, LDGT3)
  1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200
  1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200
  1.200   1.200   1.200   1.200   1.200
 20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000
 20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000
 20.000  20.000  20.000  20.000  20.000
  3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000
  3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000
  3.000   3.000   3.000   3.000   3.000

* Block 3 (LDGT4)
  1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200
  1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200
  1.200   1.200   1.200   1.200   1.200
 20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000
 20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000
 20.000  20.000  20.000  20.000  20.000
  3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000
  3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000
  3.000   3.000   3.000   3.000   3.000

* Block 4 (HDGV)
  1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200
  1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200   1.200
  1.200   1.200   1.200   1.200   1.200
 20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000
 20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000  20.000
 20.000  20.000  20.000  20.000  20.000
  3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000
  3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000   3.000
  3.000   3.000   3.000   3.000   3.000
```


Return to Appendix

```
REG DIST
*
* This file contains the combined St. Louis vehicle registration for
* LDGV, LDGT1 & 2, and LDGT3 & 4 with the default MOBILE6 values for the
distribution of
* vehicles by age for July of any calendar year.  The St. Louis data is from July
2002.
* There are sixteeen (16) sets of values representing 16 combined gasoline/diesel
vehicle class
* distributions.  These distributions are split for gasoline and diesel
* using the separate input (or default) values for diesel sales fractions.
* Each distribution contains 25 values which represent the fraction of
* all vehicles in that class (gasoline and diesel) of that age in July.
* The first number is for age 1 (calendar year minus model year plus one)
* and the last number is for age 25.  The last age includes all vehicles
* of age 25 or older.  The first number in each distribution is an integer
* which indicates which of the 16 vehicle classes are represented by the
* distribution.  The sixteen vehicle classes are:
*
*  1  LDV    Light-Duty Vehicles (Passenger Cars)
*  2  LDT1   Light-Duty Trucks 1 (0-6,000 lbs. GVWR, 0-3750 lbs. LVW)
*  3  LDT2   Light Duty Trucks 2 (0-6,001 lbs. GVWR, 3751-5750 lbs. LVW)
*  4  LDT3   Light Duty Trucks 3 (6,001-8500 lbs. GVWR, 0-3750 lbs. LVW)
*  5  LDT4   Light Duty Trucks 4 (6,001-8500 lbs. GVWR, 3751-5750 lbs. LVW)
*  6  HDV2B  Class 2b Heavy Duty Vehicles (8501-10,000 lbs. GVWR)
*  7  HDV3   Class 3 Heavy Duty Vehicles (10,001-14,000 lbs. GVWR)
*  8  HDV4   Class 4 Heavy Duty Vehicles (14,001-16,000 lbs. GVWR)
*  9  HDV5   Class 5 Heavy Duty Vehicles (16,001-19,500 lbs. GVWR)
* 10  HDV6   Class 6 Heavy Duty Vehicles (19,501-26,000 lbs. GVWR)
* 11  HDV7   Class 7 Heavy Duty Vehicles (26,001-33,000 lbs. GVWR)
* 12  HDV8A  Class 8a Heavy Duty Vehicles (33,001-60,000 lbs. GVWR)
* 13  HDV8B  Class 8b Heavy Duty Vehicles (>60,000 lbs. GVWR)
* 14  HDBS   School Busses
* 15  HDBT   Transit and Urban Busses
* 16  MC     Motorcycles (All)
*
* The 25 age values are arranged in two rows of 10 values followed by a row
* with the last 5 values.  Comments (such as this one) are indicated by
* an asterisk in the first column. Empty rows are ignored.  Values are
* read "free format," meaning any number may appear in any row with as
* many characters as needed (including a decimal) as long as 25 values
* follow the initial integer value separated by a space.
*
* If all 28 vehicle classes do not need to be altered from the default
* values, then only the vehicle classes that need to be changed need to
* be included in this file.  The order in which the vehicle classes are
* read does not matter, however each vehicle class set must contain 25
* values and be in the proper age order.
*
* LDV
 1 0.0484 0.0757 0.0819 0.0822 0.0735 0.0682 0.0611 0.0662 0.0565 0.0525
   0.0468 0.0438 0.0400 0.0382 0.0330 0.0267 0.0235 0.0190 0.0135 0.0079
   0.0046 0.0036 0.0031 0.0046 0.0253
* LDT1
 2 0.0331 0.0648 0.0678 0.0747 0.0736 0.0676 0.0527 0.0563 0.0639 0.0482
   0.0438 0.0428 0.0346 0.0399 0.0384 0.0334 0.0324 0.0239 0.0182 0.0118
   0.0089 0.0067 0.0053 0.0109 0.0465
* LDT2
 3 0.0331 0.0648 0.0678 0.0747 0.0736 0.0676 0.0527 0.0563 0.0639 0.0482
   0.0438 0.0428 0.0346 0.0399 0.0384 0.0334 0.0324 0.0239 0.0182 0.0118
   0.0089 0.0067 0.0053 0.0109 0.0465
* LDT3
 4 0.0495 0.0846 0.0839 0.0822 0.0566 0.0694 0.0535 0.0620 0.0511 0.0360
```

```
   0.0329 0.0277 0.0336 0.0360 0.0335 0.0244 0.0272 0.0259 0.0191 0.0121
   0.0099 0.0079 0.0086 0.0164 0.0558
* LDT4
 5 0.0495 0.0846 0.0839 0.0822 0.0566 0.0694 0.0535 0.0620 0.0511 0.0360
   0.0329 0.0277 0.0336 0.0360 0.0335 0.0244 0.0272 0.0259 0.0191 0.0121
   0.0099 0.0079 0.0086 0.0164 0.0558
* HDV2B
 6 0.0503 0.0916 0.0833 0.0758 0.0690 0.0627 0.0571 0.0519 0.0472 0.0430
   0.0391 0.0356 0.0324 0.0294 0.0268 0.0244 0.0222 0.0202 0.0184 0.0167
   0.0152 0.0138 0.0126 0.0114 0.0499
* HDV3
 7 0.0503 0.0916 0.0833 0.0758 0.0690 0.0627 0.0571 0.0519 0.0472 0.0430
   0.0391 0.0356 0.0324 0.0294 0.0268 0.0244 0.0222 0.0202 0.0184 0.0167
   0.0152 0.0138 0.0126 0.0114 0.0499
* HDV4
 8 0.0388 0.0726 0.0679 0.0635 0.0594 0.0556 0.0520 0.0486 0.0455 0.0425
   0.0398 0.0372 0.0348 0.0326 0.0304 0.0285 0.0266 0.0249 0.0233 0.0218
   0.0204 0.0191 0.0178 0.0167 0.0797
* HDV5
 9 0.0388 0.0726 0.0679 0.0635 0.0594 0.0556 0.0520 0.0486 0.0455 0.0425
   0.0398 0.0372 0.0348 0.0326 0.0304 0.0285 0.0266 0.0249 0.0233 0.0218
   0.0204 0.0191 0.0178 0.0167 0.0797
* HDV6
10 0.0388 0.0726 0.0679 0.0635 0.0594 0.0556 0.0520 0.0486 0.0455 0.0425
   0.0398 0.0372 0.0348 0.0326 0.0304 0.0285 0.0266 0.0249 0.0233 0.0218
   0.0204 0.0191 0.0178 0.0167 0.0797
* HDV7
11 0.0388 0.0726 0.0679 0.0635 0.0594 0.0556 0.0520 0.0486 0.0455 0.0425
   0.0398 0.0372 0.0348 0.0326 0.0304 0.0285 0.0266 0.0249 0.0233 0.0218
   0.0204 0.0191 0.0178 0.0167 0.0797
* HDV8a
12 0.0388 0.0726 0.0679 0.0635 0.0594 0.0556 0.0520 0.0486 0.0455 0.0425
   0.0398 0.0372 0.0348 0.0326 0.0304 0.0285 0.0266 0.0249 0.0233 0.0218
   0.0204 0.0191 0.0178 0.0167 0.0797
* HDV8b
13 0.0388 0.0726 0.0679 0.0635 0.0594 0.0556 0.0520 0.0486 0.0455 0.0425
   0.0398 0.0372 0.0348 0.0326 0.0304 0.0285 0.0266 0.0249 0.0233 0.0218
   0.0204 0.0191 0.0178 0.0167 0.0797
* HDBS
14 0.0393 0.0734 0.0686 0.0641 0.0599 0.0559 0.0522 0.0488 0.0456 0.0426
   0.0398 0.0372 0.0347 0.0324 0.0303 0.0283 0.0264 0.0247 0.0231 0.0216
   0.0201 0.0188 0.0176 0.0165 0.0781
* HDBT
15 0.0307 0.0614 0.0614 0.0614 0.0614 0.0614 0.0614 0.0614 0.0614 0.0613
   0.0611 0.0607 0.0595 0.0568 0.0511 0.0406 0.0254 0.0121 0.0099 0.0081
   0.0066 0.0054 0.0044 0.0037 0.0114
* Motorcycles
16 0.1440 0.1680 0.1350 0.1090 0.0880 0.0700 0.0560 0.0450 0.0360 0.0290
   0.0230 0.0970 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
   0.0000 0.0000 0.0000 0.0000 0.0000
```


Return to Appendix

```
SPEED VMT
1 1  0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 2  0.0000 0.0025 0.0016 0.0165 0.0266 0.1232 0.1758 0.1884 0.1347 0.1271 0.1008
0.0981 0.0048 0.0000
1 3  0.0000 0.0025 0.0016 0.0165 0.0266 0.1232 0.1758 0.1884 0.1347 0.1271 0.1008
0.0981 0.0048 0.0000
1 4  0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 5  0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 6  0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 7  0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 8  0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 9  0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 10 0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 11 0.0000 0.0025 0.0029 0.0091 0.0546 0.1337 0.2553 0.1959 0.1730 0.1295 0.0243
0.0191 0.0000 0.0000
1 12 0.0000 0.0025 0.0029 0.0091 0.0546 0.1337 0.2553 0.1959 0.1730 0.1295 0.0243
0.0191 0.0000 0.0000
1 13 0.0000 0.0025 0.0029 0.0091 0.0546 0.1337 0.2553 0.1959 0.1730 0.1295 0.0243
0.0191 0.0000 0.0000
1 14 0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 15 0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 16 0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 17 0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 18 0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 19 0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 20 0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 21 0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 22 0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 23 0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
1 24 0.0000 0.0002 0.0018 0.0004 0.0029 0.0159 0.0118 0.0251 0.1426 0.4423 0.3001
0.0569 0.0000 0.0000
2 1  0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 2  0.0001 0.0040 0.0230 0.0777 0.1411 0.2350 0.2689 0.1303 0.0476 0.0412 0.0130
0.0180 0.0000 0.0000
2 3  0.0001 0.0040 0.0230 0.0777 0.1411 0.2350 0.2689 0.1303 0.0476 0.0412 0.0130
0.0180 0.0000 0.0000
2 4  0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 5  0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 6  0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 7  0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
```

```
2 8  0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 9  0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 10 0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 11 0.0024 0.0178 0.0499 0.1224 0.2467 0.2893 0.1311 0.0659 0.0300 0.0314 0.0130
0.0000 0.0000 0.0000
2 12 0.0024 0.0178 0.0499 0.1224 0.2467 0.2893 0.1311 0.0659 0.0300 0.0314 0.0130
0.0000 0.0000 0.0000
2 13 0.0024 0.0178 0.0499 0.1224 0.2467 0.2893 0.1311 0.0659 0.0300 0.0314 0.0130
0.0000 0.0000 0.0000
2 14 0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 15 0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 16 0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 17 0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 18 0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 19 0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 20 0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 21 0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 22 0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 23 0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000
2 24 0.0000 0.0017 0.0100 0.0290 0.1341 0.3432 0.1792 0.1282 0.0968 0.0185 0.0593
0.0000 0.0000 0.0000

* THIS IS FOR THE ST. LOUIS AREA, BUT DISCLUDING THE VMT FOR FRANKLIN COUNTY
*
* Comments are not allowed before the end of the data!
*
* Fraction of vehicle miles traveled within an hour within an average speed bins by
hour of the day.
* The first hour is 6 a.m.
*
* Freeways
* Hr   2.5    5.0   10.0   15.0   20.0   25.0   30.0   35.0   40.0   45.0   50.0
55.0   60.0   65.0+
*
* Arterial and Collector Roadways
* Hr   2.5    5.0   10.0   15.0   20.0   25.0   30.0   35.0   40.0   45.0   50.0
55.0   60.0   65.0+
```


Return to Appendix

```
SPEED VMT
1 1  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 2  0.0000 0.0000 0.0000 0.1770 0.2875 0.0000 0.1335 0.0000 0.0614 0.1691 0.1714
0.0000 0.0000 0.0000
1 3  0.0000 0.0000 0.0000 0.1770 0.2875 0.0000 0.1335 0.0000 0.0614 0.1691 0.1714
0.0000 0.0000 0.0000
1 4  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 5  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 6  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 7  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 8  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 9  0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 10 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 11 0.0000 0.0000 0.0000 0.0000 0.1764 0.2126 0.0000 0.1356 0.1335 0.2574 0.0845
0.0000 0.0000 0.0000
1 12 0.0000 0.0000 0.0000 0.0000 0.1764 0.2126 0.0000 0.1356 0.1335 0.2574 0.0845
0.0000 0.0000 0.0000
1 13 0.0000 0.0000 0.0000 0.0000 0.1764 0.2126 0.0000 0.1356 0.1335 0.2574 0.0845
0.0000 0.0000 0.0000
1 14 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 15 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 16 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 17 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 18 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 19 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 20 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 21 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 22 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 23 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
1 24 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0667 0.7421
0.1912 0.0000 0.0000
2 1  0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 2  0.0031 0.0691 0.0612 0.1296 0.2135 0.1872 0.0590 0.1208 0.1494 0.0072 0.0000
0.0000 0.0000 0.0000
2 3  0.0031 0.0691 0.0612 0.1296 0.2135 0.1872 0.0590 0.1208 0.1494 0.0072 0.0000
0.0000 0.0000 0.0000
2 4  0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 5  0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 6  0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 7  0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
```

```
2 8  0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 9  0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 10 0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 11 0.0000 0.0452 0.0409 0.1064 0.1895 0.1047 0.1825 0.1015 0.2127 0.0166 0.0000
0.0000 0.0000 0.0000
2 12 0.0000 0.0452 0.0409 0.1064 0.1895 0.1047 0.1825 0.1015 0.2127 0.0166 0.0000
0.0000 0.0000 0.0000
2 13 0.0000 0.0452 0.0409 0.1064 0.1895 0.1047 0.1825 0.1015 0.2127 0.0166 0.0000
0.0000 0.0000 0.0000
2 14 0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 15 0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 16 0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 17 0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 18 0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 19 0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 20 0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 21 0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 22 0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 23 0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000
2 24 0.0000 0.0006 0.0000 0.0461 0.0852 0.1436 0.1319 0.1375 0.1210 0.2861 0.0480
0.0000 0.0000 0.0000

* THIS IS FOR FRANKLIN COUNTY ONLY
*
* Comments are not allowed before the end of the data!
*
* Fraction of vehicle miles traveled within an hour within an average speed bins by
hour of the day.
* The first hour is 6 a.m.
*
* Freeways
* Hr   2.5    5.0   10.0   15.0   20.0   25.0   30.0   35.0   40.0   45.0   50.0
55.0   60.0   65.0+
*
* Arterial and Collector Roadways
* Hr   2.5    5.0   10.0   15.0   20.0   25.0   30.0   35.0   40.0   45.0   50.0
55.0   60.0   65.0+
```


Return to Appendix

Missouri Department of Natural Resources
Air Pollution Control Program

MOBILE 6 MODEL INPUTS (WEATHER DATA)
10 DAYS WITH HIGHEST OZONE CONCENTRATION
LAMBERT INTERNATIONAL AIRPORT, ST. LOUIS, MO

DATE	HIGHEST OZONE PPM	MIN. TEMP IN CELSIUS	MAX. TEMP IN CELSIUS	MIN. TEMP IN FAHR.	MAX. TEMP IN FAHR.	LOWEST HUMIDITY RATIO	RELATIVE HUMIDITY	TEMPERATURE IN FAHR.	STATION PRESSURE
7/25/1999	0.126	26	37	79	99	88.49	34	97	29.34
8/16/1999	0.126	17	33	63	91	60.40	29	90	29.53
8/17/1999	0.136	22	32	72	90	70.99	34	90	29.50
8/28/1999	0.124	21	33	70	91	88.57	45	88	29.51
9/1/1999	0.127	16	33	61	91	64.18	81	61	29.50
9/2/1999	0.124	23	34	73	93	92.31	44	90	29.47
9/4/1999	0.149	19	34	66	93	75.74	33	93	29.35
8/23/2000	0.125	26	34	79	93	102.64	63	82	29.51
8/30/2000	0.124	25	34	77	93	139.44	100	77	29.39
7/23/2001	0.139	26	37	79	99	114.04	41	99	29.08
AVERAGE OF TEN DAYS				72	93				
7/29/1999	0.124	27	39	81	102	105.98	65	82	29.20

HUMIDITY RATIO SHOWN IS THE LOWEST CALCULATED VALUE FOR THAT DAY USING SAME TIME OF DAY R.H. AND TEMP.

THE LOWEST HUMIDITY RATIO SHOULD BE DETERMINED INDIVIDUALLY FOR EACH OF THE 10 DAYS AND THE LOWEST OF THESE RATIOS SHOULD BE USED AS INPUT IN MOBILE 6.

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Appendix

APPENDIX

MOBILE6 INPUT FILE USED FOR ST. LOUIS AREA

```
MOBILE6 INPUT FILE

POLLUTANTS         : HC NOX

RUN DATA

MIN/MAX TEMP       : 72. 93.
FUEL RVP           : 7.0
ABSOLUTE HUMIDITY  : 60.4
REG DIST           : C:\VREGSTL.D
SPEED VMT          : C:\STLOSVMT.DEF

SCENARIO REC       : ST. LOUIS ENHANCED AREA - NO ADDED CONTROLS
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2000

SCENARIO REC       : ST. LOUIS ENHANCED AREA - NO ADDED CONTROLS
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2004

SCENARIO REC       : ST. LOUIS ENHANCED AREA - NO ADDED CONTROLS
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2007

SCENARIO REC       : ST. LOUIS ENHANCED AREA - NO ADDED CONTROLS
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2014

END OF RUN

* ------------------------------------------------------------------------------

MIN/MAX TEMP       : 72. 93.
FUEL RVP           : 7.0
ABSOLUTE HUMIDITY  : 60.4
REG DIST           : C:\VREGSTL.D
SPEED VMT          : C:\STLOSVMT.DEF

ANTI-TAMP PROGRAM  : 83 71 20 22222 11111111 1 12 096. 22112122
* Basic I/M program for calendar years 1983-1989.  Enhanced area.
I/M PROGRAM        : 1 1983 1989 1 TRM IDLE
I/M MODEL YEARS    : 1 1971 1999
I/M VEHICLES       : 1 22222 11111111 1
I/M STRINGENCY     : 1 20.0
I/M COMPLIANCE     : 1 96.0
I/M WAIVER RATES   : 1 3.0 3.0
I/M EFFECTIVENESS  : 0.50 0.50 0.00
NO I/M TTC CREDITS : 1
```

```
SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF ANTI-TAMP AND I/M IN
1983
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2000

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF ANTI-TAMP AND I/M IN
1983
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2004

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF ANTI-TAMP AND I/M IN
1983
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2007

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF ANTI-TAMP AND I/M IN
1983
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2014

END OF RUN

* ---------------------------------------------------------------------------

MIN/MAX TEMP       : 72. 93.
FUEL RVP           : 7.0
ABSOLUTE HUMIDITY  : 60.4
REG DIST           : C:\VREGSTL.D
SPEED VMT          : C:\STLOSVMT.DEF

ANTI-TAMP PROGRAM  : 83 71 20 22222 11111111 1 12 096. 22112122
* Basic I/M program for calendar years 1983-1989.  Enhanced area.
I/M PROGRAM        : 1 1983 1989 1 TRM IDLE
I/M MODEL YEARS    : 1 1971 1999
I/M VEHICLES       : 1 22222 11111111 1
I/M STRINGENCY     : 1 20.0
I/M COMPLIANCE     : 1 96.0
I/M WAIVER RATES   : 1 3.0 3.0
I/M EFFECTIVENESS  : 0.50 0.50 0.00
NO I/M TTC CREDITS : 1

STAGE II REFUELING : 89 1 97. 97.

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF STAGE II REFUELING IN
1989
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2000

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF STAGE II REFUELING IN
1989
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2004

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF STAGE II REFUELING IN
1989
EVALUATION MONTH   : 7
```

```
CALENDAR YEAR      : 2007

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF STAGE II REFUELING IN
1989
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2014

END OF RUN

* ------------------------------------------------------------------------------


MIN/MAX TEMP       : 72. 93.
FUEL RVP           : 7.0
ABSOLUTE HUMIDITY  : 60.4
REG DIST           : C:\VREGSTL.D
SPEED VMT          : C:\STLOSVMT.DEF

ANTI-TAMP PROGRAM  : 83 71 20 22222 11111111 1 12 096. 22112122
* Basic I/M program for calendar years 1983-1989.  Enhanced area.
I/M PROGRAM        : 1 1983 1989 1 TRM IDLE
I/M MODEL YEARS    : 1 1971 1999
I/M VEHICLES       : 1 22222 11111111 1
I/M STRINGENCY     : 1 20.0
I/M COMPLIANCE     : 1 96.0
I/M WAIVER RATES   : 1 3.0 3.0
I/M EFFECTIVENESS  : 0.50 0.50 0.00
NO I/M TTC CREDITS : 1
STAGE II REFUELING : 89 1 97. 97.

* Basic I/M program for calendar years 1990-1999. Enhanced area.
I/M PROGRAM        : 2 1990 1999 1 TRC IDLE
I/M MODEL YEARS    : 2 1971 1999
I/M VEHICLES       : 2 22222 11111111 1
I/M STRINGENCY     : 2 20.0
I/M COMPLIANCE     : 2 96.0
I/M WAIVER RATES   : 2 3.0 3.0
I/M EFFECTIVENESS  : 0.50 0.50 0.00
NO I/M TTC CREDITS : 2

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF REVISED I/M PROGRAM
IN 1990
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2000

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF REVISED I/M PROGRAM
IN 1990
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2004

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF REVISED I/M PROGRAM
IN 1990
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2007

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF REVISED I/M PROGRAM
IN 1990
```

```
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2014

END OF RUN

* ------------------------------------------------------------------------------


MIN/MAX TEMP       : 72. 93.
FUEL RVP           : 7.0
ABSOLUTE HUMIDITY  : 60.4
REG DIST           : C:\VREGSTL.D
SPEED VMT          : C:\STLOSVMT.DEF

ANTI-TAMP PROGRAM  : 83 71 20 22222 11111111 1 12 096. 22112122
STAGE II REFUELING : 89 1 97. 97.
* Basic I/M program for calendar years 1983-1989.  Enhanced area.
I/M PROGRAM        : 1 1983 1989 1 TRM IDLE
I/M MODEL YEARS    : 1 1971 1999
I/M VEHICLES       : 1 22222 11111111 1
I/M STRINGENCY     : 1 20.0
I/M COMPLIANCE     : 1 96.0
I/M WAIVER RATES   : 1 3.0 3.0
I/M EFFECTIVENESS  : 0.50 0.50 0.00
NO I/M TTC CREDITS : 1
* Basic I/M program for calendar years 1990-1999. Enhanced area.
I/M PROGRAM        : 2 1990 1999 1 TRC IDLE
I/M MODEL YEARS    : 2 1971 1999
I/M VEHICLES       : 2 22222 11111111 1
I/M STRINGENCY     : 2 20.0
I/M COMPLIANCE     : 2 96.0
I/M WAIVER RATES   : 2 3.0 3.0
I/M EFFECTIVENESS  : 0.50 0.50 0.00
NO I/M TTC CREDITS : 2

FUEL PROGRAM       : 2 S

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF RFG IN 1999
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2000

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF RFG IN 1999
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2004

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF RFG IN 1999
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2007

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF RFG IN 1999
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2014

END OF RUN

* ------------------------------------------------------------------------------
```

```
MIN/MAX TEMP       : 72. 93.
FUEL RVP           : 7.0
ABSOLUTE HUMIDITY  : 60.4
REG DIST           : C:\VREGSTL.D
SPEED VMT          : C:\STLOSVMT.DEF

ANTI-TAMP PROGRAM  : 83 71 20 22222 11111111 1 12 096. 22112122
STAGE II REFUELING : 89 1 97. 97.
* Basic I/M program for calendar years 1983-1989.  Enhanced area.
I/M PROGRAM        : 1 1983 1989 1 TRM IDLE
I/M MODEL YEARS    : 1 1971 1999
I/M VEHICLES       : 1 22222 11111111 1
I/M STRINGENCY     : 1 20.0
I/M COMPLIANCE     : 1 96.0
I/M WAIVER RATES   : 1 3.0 3.0
I/M EFFECTIVENESS  : 0.50 0.50 0.00
NO I/M TTC CREDITS : 1
* Basic I/M program for calendar years 1990-1999. Enhanced area.
I/M PROGRAM        : 2 1990 1999 1 TRC IDLE
I/M MODEL YEARS    : 2 1971 1999
I/M VEHICLES       : 2 22222 11111111 1
I/M STRINGENCY     : 2 20.0
I/M COMPLIANCE     : 2 96.0
I/M WAIVER RATES   : 2 3.0 3.0
I/M EFFECTIVENESS  : 0.50 0.50 0.00
NO I/M TTC CREDITS : 2

FUEL PROGRAM       : 2 S

* Enhanced I/M program beginning in year 2000.
I/M PROGRAM        : 3 2000 2004 2 T/O IM240
I/M MODEL YEARS    : 3 1981 2020
I/M VEHICLES       : 3 22222 11111111 1
I/M STRINGENCY     : 3 20.0
I/M COMPLIANCE     : 3 96.0
I/M WAIVER RATES   : 3 20.0 20.0
I/M CUTPOINTS      : 3 C:\CUTPOINT.D

* I/M program for testing gas caps.
I/M PROGRAM        : 4 2000 2020 2 T/O GC
I/M MODEL YEARS    : 4 1981 2020
I/M VEHICLES       : 4 22222 11111111 1
I/M STRINGENCY     : 4 20.0
I/M COMPLIANCE     : 4 96.0
I/M WAIVER RATES   : 4 8.0 8.0

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF I/M 240 AND T/O GC IN
2000
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2000

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF I/M 240 AND T/O GC IN
2000
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2004
```

```
SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF I/M 240 AND T/O GC IN
2000
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2007

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF I/M 240 AND T/O GC IN
2000
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2014

END OF RUN

* ------------------------------------------------------------------------------

MIN/MAX TEMP       : 72. 93.
FUEL RVP           : 7.0
ABSOLUTE HUMIDITY  : 60.4
REG DIST           : C:\VREGSTL.D
SPEED VMT          : C:\STLOSVMT.DEF

ANTI-TAMP PROGRAM  : 83 71 20 22222 11111111 1 12 096. 22112122
STAGE II REFUELING : 89 1 97. 97.
* Basic I/M program for calendar years 1983-1989.  Enhanced area.
I/M PROGRAM        : 1 1983 1989 1 TRM IDLE
I/M MODEL YEARS    : 1 1971 1999
I/M VEHICLES       : 1 22222 11111111 1
I/M STRINGENCY     : 1 20.0
I/M COMPLIANCE     : 1 96.0
I/M WAIVER RATES   : 1 3.0 3.0
I/M EFFECTIVENESS  : 0.50 0.50 0.00
NO I/M TTC CREDITS : 1
* Basic I/M program for calendar years 1990-1999. Enhanced area.
I/M PROGRAM        : 2 1990 1999 1 TRC IDLE
I/M MODEL YEARS    : 2 1971 1999
I/M VEHICLES       : 2 22222 11111111 1
I/M STRINGENCY     : 2 20.0
I/M COMPLIANCE     : 2 96.0
I/M WAIVER RATES   : 2 3.0 3.0
I/M EFFECTIVENESS  : 0.50 0.50 0.00
NO I/M TTC CREDITS : 2

FUEL PROGRAM       : 2 S

* Enhanced I/M program beginning in year 2000.
I/M PROGRAM        : 3 2000 2004 2 T/O IM240
I/M MODEL YEARS    : 3 1981 2020
I/M VEHICLES       : 3 22222 11111111 1
I/M STRINGENCY     : 3 20.0
I/M COMPLIANCE     : 3 96.0
I/M WAIVER RATES   : 3 20.0 20.0
I/M CUTPOINTS      : 3 C:\CUTPOINT.D
* I/M program for testing gas caps.
I/M PROGRAM        : 4 2000 2020 2 T/O GC
I/M MODEL YEARS    : 4 1981 2020
I/M VEHICLES       : 4 22222 11111111 1
I/M STRINGENCY     : 4 20.0
I/M COMPLIANCE     : 4 96.0
```

```
I/M WAIVER RATES   : 4 8.0 8.0

* Enhanced I/M program beginning in year 2005 with On Board Diagnostics (OBD).
I/M PROGRAM        : 5 2005 2020 2 T/O OBD I/M
I/M MODEL YEARS    : 5 1996 2020
I/M VEHICLES       : 5 22222 11111111 1
I/M STRINGENCY     : 5 20.0
I/M COMPLIANCE     : 5 96.0
I/M WAIVER RATES   : 5 8.0 8.0

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF OBD PROGRAM IN 2005
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2000

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF OBD PROGRAM IN 2005
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2004

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF OBD PROGRAM IN 2005
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2007

SCENARIO REC       : ST. LOUIS ENHANCED AREA - ADDITION OF OBD PROGRAM IN 2005
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2014

END OF RUN
```

MOBILE6 INPUT FILE USED FOR FRANKLIN COUNTY

```
MOBILE6 INPUT FILE

POLLUTANTS         : HC NOX

RUN DATA

MIN/MAX TEMP       : 72. 93.
FUEL RVP           : 7.0
ABSOLUTE HUMIDITY  : 60.4
REG DIST           : C:\VREGSTL.D
SPEED VMT          : C:\FRCOSVMT.DEF

SCENARIO REC       : FRANKLIN COUNTY - NO ADDED CONTROLS
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2000

SCENARIO REC       : FRANKLIN COUNTY - NO ADDED CONTROLS
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2004

SCENARIO REC       : FRANKLIN COUNTY - NO ADDED CONTROLS
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2007
```

```
SCENARIO REC       : FRANKLIN COUNTY - NO ADDED CONTROLS
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2014

END OF RUN

* ------------------------------------------------------------------------------

MIN/MAX TEMP       : 72. 93.
FUEL RVP           : 7.0
ABSOLUTE HUMIDITY  : 60.4
REG DIST           : C:\VREGSTL.D
SPEED VMT          : C:\FRCOSVMT.DEF

FUEL PROGRAM       : 2 S

SCENARIO REC       : FRANKLIN COUNTY - ADDITION OF RFG FUEL PROGRAM IN 1999
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2000

SCENARIO REC       : FRANKLIN COUNTY - ADDITION OF RFG FUEL PROGRAM IN 1999
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2004

SCENARIO REC       : FRANKLIN COUNTY - ADDITION OF RFG FUEL PROGRAM IN 1999
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2007

SCENARIO REC       : FRANKLIN COUNTY - ADDITION OF RFG FUEL PROGRAM IN 1999
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2014

END OF RUN

* ------------------------------------------------------------------------------

MIN/MAX TEMP       : 72. 93.
FUEL RVP           : 7.0
ABSOLUTE HUMIDITY  : 60.4
REG DIST           : C:\VREGSTL.D
SPEED VMT          : C:\FRCOSVMT.DEF

FUEL PROGRAM       : 2 S

* Basic I/M program for calendar years 2000-2020 for Franklin County.
I/M PROGRAM        : 1 2000 2020 2 T/O IDLE
I/M MODEL YEARS    : 1 1971 2020
I/M VEHICLES       : 1 22222 11111111 1
I/M STRINGENCY     : 1 20.0
I/M COMPLIANCE     : 1 96.0
I/M WAIVER RATES   : 1 3.0 3.0

SCENARIO REC       : FRANKLIN COUNTY - BASIC I/M PROGRAM BEGINNING IN 2000
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2000

SCENARIO REC       : FRANKLIN COUNTY - BASIC I/M PROGRAM BEGINNING IN 2000
```

```
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2004

SCENARIO REC       : FRANKLIN COUNTY - BASIC I/M PROGRAM BEGINNING IN 2000
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2007

SCENARIO REC       : FRANKLIN COUNTY - BASIC I/M PROGRAM BEGINNING IN 2000
EVALUATION MONTH   : 7
CALENDAR YEAR      : 2014

END OF RUN
```

MOBILE5b INPUT FILE USED FOR ST. LOUIS AREA

Base-Case Scenario, No Controls Added

```
1          PROMPT
2000 NO IM CONTROLS
1          TAMFLG   MOBILE5 TAMPERING RATES
1          SPDFLG   ONE AVERAGE SPEED FOR ALL VEHICLE TYPES
1          VMFLAG   MOBILE5 VMT MIX
3          MYMRFG   INPUT REGISTRATION DISTRIBUTIONS BY AGE
1          NEWFLG   BASIC EXHAUST EMISSION RATES
1          IMFLAG   NO IM PROGRAMS
1          ALHFLG   NO EXHAUST EMISSION FACTOR CORRECTIONS
1          ATPFLG   NO ATP & PRESSURE CHECKS OF EVAP SYSTEM
5          RLFLAG   NO REFUELING EMISSION FACTORS CALCULATED
2          LOCFLG   ONE LAP RECORD FOR ALL SCENARIOS
1          TEMFLG   MOBILE5 TEMPERATURE FACTORS
4          OUTFMT   80 COLUMN
4          PRTFLG   ALL THREE POLLUTANTS CALCULATED
1          IDLFLG   NO IDLE EMISSION FACTORS CALCULATED
3          NMHFLG   VOC HYDROCARBON EMISSION FACTORS
1          HCFLAG   ONLY SUM OF HC EMISSIONS PRINTED IN OUTPUT
0.066 .091 .088 .081 .076 .069 .077 .064 .061 .052   AGE DISTRIBUTION
0.049 .043 .041 .032 .026 .021 .017 .011 .007 .003          |  ldgv 2001
registration data
0.003 .002 .004 .002 .014                                   |
0.057 .082 .086 .075 .077 .060 .066 .068 .050 .046          |  ldgt1 2001
registration data
0.042 .037 .042 .037 .031 .029 .024 .016 .011 .007          |
0.006 .005 .011 .007 .028                                   |
0.057 .082 .086 .075 .077 .060 .066 .068 .050 .046          |  ldgt2 2001
registration data
0.042 .037 .042 .037 .031 .029 .024 .016 .011 .007          |
0.006 .005 .011 .007 .028                                   |
0.047 .081 .083 .050 .074 .054 .067 .045 .033 .026          |  hdgt 2001
registration data
0.027 .030 .033 .038 .030 .033 .032 .026 .014 .013          |
0.013 .014 .020 .016 .099                                   |
0.066 .091 .088 .081 .076 .069 .077 .064 .061 .052          |  lddv 2001
registration data
0.049 .043 .041 .032 .026 .021 .017 .011 .007 .003          |
0.003 .002 .004 .002 .014                                   |
```

```
0.057 .082 .086 .075 .077 .060 .066 .068 .050 .046          |  lddt 2001
registration data
0.042 .037 .042 .037 .031 .029 .024 .016 .011 .007          |
0.006 .005 .011 .007 .028                                   |
0.074 .094 .088 .053 .079 .079 .108 .050 .051 .035          |  hddt 2001
registration data
0.040 .043 .043 .028 .026 .021 .021 .015 .005 .006          |
0.006 .008 .008 .005 .014                                   |
0.085 .099 .089 .067 .055 .053 .044 .036 .035 .023          |  motorcycle 2001
registration data
0.018 .395 .000 .000 .000 .000 .000 .000 .000 .000          |
0.000 .000 .000 .000 .000                                   V
STL NO  IM       B0007400097007.2007.0 95 2 1 1      LAP RECORD
.001 .100 .027 .035 2                                OXY FUEL (W/O RFG)
1 00  2.5 89.0 20.6 27.3 20.6  7                     SCENARIO DESCRIP RECORDS
1 00  2.6 89.0 20.6 27.3 20.6  7                           (SUMMER)
1 00  2.7 89.0 20.6 27.3 20.6  7
(speeds continue to 65mph)
```

MOBILE5b INPUT FILE USED FOR ST. LOUIS AREA

Scenario With All Controls and I/M Program Added

```
1          PROMPT
2000 ENHANCED I/M AREA W/RFG W/CS W/PT W/PICP W/ATP W/WAIVER
1          TAMFLG   MOBILE5 TAMPERING RATES
1          SPDFLG   ONE AVERAGE SPEED FOR ALL VEHICLE TYPES
1          VMFLAG   MOBILE5 VMT MIX
3          MYMRFG   INPUT REGISTRATION DISTRIBUTIONS BY AGE
1          NEWFLG   BASIC EXHAUST EMISSION RATES
6          IMFLAG   TWO IM PROGRAMS
1          ALHFLG   NO EXHAUST EMISSION FACTOR CORRECTIONS
5          ATPFLG   ATP & PRESSURE & PURGE CHECKS OF EVAP SYSTEM
5          RLFLAG   ZERO-OUT REFUELING EMISSIONS
2          LOCFLG   ONE LAP RECORD FOR ALL SCENARIOS
1          TEMFLG   MOBILE5 TEMPERATURE FACTORS
4          OUTFMT   80 COLUMN
4          PRTFLG   ALL THREE POLLUTANTS CALCULATED
1          IDLFLG   NO IDLE EMISSION FACTORS CALCULATED
3          NMHFLG   VOC HYDROCARBON EMISSION FACTORS
1          HCFLAG   ONLY SUM OF HC EMISSIONS PRINTED IN OUTPUT
0.066 .091 .088 .081 .076 .069 .077 .064 .061 .052   AGE DISTRIBUTION
0.049 .043 .041 .032 .026 .021 .017 .011 .007 .003          |  ldgv 2001
registration data
0.003 .002 .004 .002 .014                                   |
0.057 .082 .086 .075 .077 .060 .066 .068 .050 .046          |  ldgt1 2001
registration data
0.042 .037 .042 .037 .031 .029 .024 .016 .011 .007          |
0.006 .005 .011 .007 .028                                   |
0.057 .082 .086 .075 .077 .060 .066 .068 .050 .046          |  ldgt2 2001
registration data
0.042 .037 .042 .037 .031 .029 .024 .016 .011 .007          |
0.006 .005 .011 .007 .028                                   |
0.047 .081 .083 .050 .074 .054 .067 .045 .033 .026          |  hdgt 2001
registration data
0.027 .030 .033 .038 .030 .033 .032 .026 .014 .013          |
```

```
0.013 .014 .020 .016 .099                                   |
0.066 .091 .088 .081 .076 .069 .077 .064 .061 .052          |  lddv 2001
registration data
0.049 .043 .041 .032 .026 .021 .017 .011 .007 .003          |
0.003 .002 .004 .002 .014                                   |
0.057 .082 .086 .075 .077 .060 .066 .068 .050 .046          |  lddt 2001
registration data
0.042 .037 .042 .037 .031 .029 .024 .016 .011 .007          |
0.006 .005 .011 .007 .028                                   |
0.074 .094 .088 .053 .079 .079 .108 .050 .051 .035          |  hddt 2001
registration data
0.040 .043 .043 .028 .026 .021 .021 .015 .005 .006          |
0.006 .008 .008 .005 .014                                   |
0.085 .099 .089 .067 .055 .053 .044 .036 .035 .023          |  motorcycle 2001
registration data
0.018 .395 .000 .000 .000 .000 .000 .000 .000 .000          |
0.000 .000 .000 .000 .000                                   V
2 2 2 2
95 20 71 80 20 20 96. 1 2 2221 1222 220. 1.20 999.   IDLE
95 20 81 20 20 20 96. 1 2 2221 4222 0.80 15.0 2.00   TRANSIENT
P:\Cstec.D
P:\Csim.D
95 81 20 2221 12 088. 22212222                       ATP RECORD
95 81 20 2221 12 096.                                PRESSURE
STL CEN IM240 00 B0007400097007.2007.0 95 2 1 2      LAP RECORD
.001 .100 .027 .035 2
1 96  2.5 89.0 20.6 27.3 20.6  7
1 96  2.6 89.0 20.6 27.3 20.6  7
1 96  2.7 89.0 20.6 27.3 20.6  7
(speeds continue to 65mph)
```

Return to Appendix

```
Missouri Department of Natural Resources
Air Pollution Control Program


*************************************************************************
* MOBILE6 (16-Jan-2002)                                                 *
* Input file: C:\FRANKLIN.IN (file 1, run 1).                           *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\VREGSTL.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: C:\FRCOSVMT.DEF


* # # # # # # # # # # # # # # # # # # # # # # # # # #
* FRANKLIN COUNTY - NO ADDED CONTROLS

* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:  300. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4915    0.2725    0.1065              0.0366    0.0012
0.0019    0.0834    0.0064    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.818     2.397     2.590     2.451     2.746    0.867
1.081     0.846      2.15     2.010
     Composite NOX :      1.376     1.620     1.744     1.655     5.142    1.732
```

```
1.708    17.406      1.15     2.956

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* FRANKLIN COUNTY - NO ADDED CONTROLS

* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2004
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:  121. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4361    0.3110    0.1214              0.0368    0.0007
0.0020    0.0862    0.0059    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.289     1.745     1.950     1.803     1.963    0.688
1.027     0.623      2.14     1.483
     Composite NOX :      1.086     1.399     1.597     1.455     4.560    1.500
1.522    11.956      1.15     2.311

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* FRANKLIN COUNTY - NO ADDED CONTROLS

* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2007
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
```

```
              Fuel Sulfur Content:   33. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3947    0.3405    0.1328              0.0366    0.0005
0.0020    0.0871    0.0057    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.974     1.285     1.442     1.329     1.433    0.469
0.633     0.514      2.13     1.124
     Composite NOX :      0.780     1.093     1.299     1.151     3.296    0.961
1.001     9.173      1.15     1.782

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* FRANKLIN COUNTY - NO ADDED CONTROLS

* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2014
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3169    0.3954    0.1542              0.0369    0.0003
0.0023    0.0886    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.526     0.734     0.856     0.768     0.747    0.116
```

```
0.288     0.340      2.11     0.659
     Composite NOX :      0.429     0.657     0.820     0.703     1.249    0.189
0.383     3.598      1.15     0.894

--------------------------------------------------------------------------------
---------------------------------
*************************************************************************
* MOBILE6 (16-Jan-2002)                                                 *
* Input file: C:\FRANKLIN.IN (file 1, run 2).                           *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\VREGSTL.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: C:\FRCOSVMT.DEF

  M616 Comment:
                User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* FRANKLIN COUNTY - ADDITION OF RFG FUEL PROGRAM IN 1999

* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
               there are no sales for vehicle class HDGV8b

                     Calendar Year:  2000
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  72.0 (F)
               Maximum Temperature:  93.0 (F)
                 Absolute Humidity:   60. grains/lb
                  Nominal Fuel RVP:   7.0 psi
                     Weathered RVP:   6.4 psi
               Fuel Sulfur Content:  150. ppm

               Exhaust I/M Program:  No
                  Evap I/M Program:  No
                       ATP Program:  No
                  Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4915    0.2725    0.1065              0.0366    0.0012
0.0019    0.0834    0.0064    1.0000

--------------------------------------------------------------------------------
---------------------------------
```

```
 Composite Emission Factors (g/mi):
     Composite VOC :      1.655     2.186     2.401     2.246     2.647    0.867
1.081     0.846      2.11     1.848
     Composite NOX :      1.335     1.565     1.692     1.601     4.950    1.732
1.708    17.406      1.15     2.908

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* FRANKLIN COUNTY - ADDITION OF RFG FUEL PROGRAM IN 1999

* File 1, Run 2, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2004
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  120. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4361    0.3110    0.1214              0.0368    0.0007
0.0020    0.0862    0.0059    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.220     1.654     1.845     1.708     1.909    0.688
1.027     0.623      2.11     1.409
     Composite NOX :      1.097     1.414     1.614     1.470     4.468    1.500
1.522    11.956      1.15     2.320

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* FRANKLIN COUNTY - ADDITION OF RFG FUEL PROGRAM IN 1999

* File 1, Run 2, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2007
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
```

```
                Maximum Temperature:  93.0 (F)
                  Absolute Humidity:   60. grains/lb
                   Nominal Fuel RVP:   7.0 psi
                      Weathered RVP:   6.5 psi
                Fuel Sulfur Content:   30. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3947    0.3405    0.1328              0.0366    0.0005
0.0020    0.0871    0.0057    1.0000

-----------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.922     1.216     1.365     1.258     1.385    0.469
0.633     0.514      2.10     1.068
     Composite NOX :      0.783     1.099     1.311     1.158     3.221    0.961
1.001     9.173      1.15     1.784

-----------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* FRANKLIN COUNTY - ADDITION OF RFG FUEL PROGRAM IN 1999

* File 1, Run 2, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
                there are no sales for vehicle class HDGV8b
  M 48 Warning:
                there are no sales for vehicle class LDDT12

                      Calendar Year:  2014
                              Month:  July
                           Altitude:  Low
                Minimum Temperature:  72.0 (F)
                Maximum Temperature:  93.0 (F)
                  Absolute Humidity:   60. grains/lb
                   Nominal Fuel RVP:   7.0 psi
                      Weathered RVP:   6.5 psi
                Fuel Sulfur Content:   30. ppm

                Exhaust I/M Program:  No
                   Evap I/M Program:  No
                        ATP Program:  No
                   Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3169    0.3954    0.1542              0.0369    0.0003
0.0023    0.0886    0.0054    1.0000
```

```
--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.497     0.695     0.809     0.727     0.721    0.116
0.288     0.340      2.08     0.626
     Composite NOX :      0.435     0.665     0.830     0.711     1.222    0.189
0.383     3.598      1.15     0.900

--------------------------------------------------------------------------------
----------------------------------
*************************************************************************
* MOBILE6 (16-Jan-2002)                                                 *
* Input file: C:\FRANKLIN.IN (file 1, run 3).                           *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\VREGSTL.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: C:\FRCOSVMT.DEF

  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* FRANKLIN COUNTY - BASIC I/M PROGRAM BEGINNING IN 2000

* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D

  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.4 psi
              Fuel Sulfur Content:  150. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
```

```
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4915    0.2725    0.1065              0.0366    0.0012
0.0019    0.0834    0.0064    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.573     2.133     2.356     2.196     2.647    0.867
1.081     0.846      2.11     1.789
     Composite NOX :      1.327     1.552     1.681     1.588     4.950    1.732
1.708    17.406      1.15     2.900

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* FRANKLIN COUNTY - BASIC I/M PROGRAM BEGINNING IN 2000

* File 1, Run 3, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2004
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  120. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4361    0.3110    0.1214              0.0368    0.0007
0.0020    0.0862    0.0059    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.155     1.577     1.767     1.630     1.909    0.688
1.027     0.623      2.11     1.347
     Composite NOX :      1.092     1.408     1.608     1.464     4.468    1.500
1.522    11.956      1.15     2.315

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* FRANKLIN COUNTY - BASIC I/M PROGRAM BEGINNING IN 2000

* File 1, Run 3, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2007
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3947    0.3405    0.1328              0.0366    0.0005
0.0020    0.0871    0.0057    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.864     1.143     1.292     1.185     1.385    0.469
0.633     0.514      2.10     1.011
     Composite NOX :      0.781     1.096     1.307     1.155     3.221    0.961
1.001     9.173      1.15     1.781

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* FRANKLIN COUNTY - BASIC I/M PROGRAM BEGINNING IN 2000

* File 1, Run 3, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2014
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
```

```
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3169    0.3954    0.1542              0.0369    0.0003
0.0023    0.0886    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.454     0.631     0.744     0.662     0.721    0.116
0.288     0.340      2.08     0.577
     Composite NOX :      0.434     0.665     0.830     0.711     1.222    0.189
0.383     3.598      1.15     0.900

-------------------------------------------------------------------------------------
----------------------------------
```


Return to Appendix

```
*************************************************************************
* MOBILE6 (16-Jan-2002)                                                 *
* Input file: C:\ENHANCED.IN (file 1, run 1).                           *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\VREGSTL.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: C:\STLOSVMT.DEF


* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - NO ADDED CONTROLS

* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:  300. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4915    0.2725    0.1065              0.0366    0.0012
0.0019    0.0834    0.0064    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.827     2.412     2.606     2.466     2.801    0.885
1.103     0.876      2.17     2.025
     Composite NOX :      1.379     1.616     1.741     1.651     5.032    1.684
1.661    17.038      1.12     2.921

-------------------------------------------------------------------------------------
----------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - NO ADDED CONTROLS

* File 1, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2004
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:  121. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
                GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4361    0.3110    0.1214              0.0368    0.0007
0.0020    0.0862    0.0059    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.297     1.757     1.962     1.814     1.997    0.702
1.047     0.645      2.16     1.494
     Composite NOX :      1.087     1.395     1.594     1.451     4.463    1.460
1.480    11.647      1.12     2.280

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - NO ADDED CONTROLS

* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2007
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:   33. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
```

```
                    ATP Program:  No
              Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3947    0.3405    0.1328              0.0366    0.0005
0.0020    0.0871    0.0057    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.981     1.293     1.451     1.337     1.455    0.479
0.647     0.531      2.15     1.133
     Composite NOX :      0.780     1.090     1.297     1.148     3.225    0.935
0.973     8.930      1.12     1.757

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - NO ADDED CONTROLS

* File 1, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2014
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3169    0.3954    0.1542              0.0369    0.0003
0.0023    0.0886    0.0054    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.529     0.737     0.861     0.772     0.756    0.119
0.295     0.351      2.13     0.663
     Composite NOX :      0.430     0.655     0.819     0.701     1.223    0.184
0.373     3.502      1.12     0.884
```

```
--------------------------------------------------------------------------------
----------------------------------
*************************************************************************
* MOBILE6 (16-Jan-2002)                                                 *
* Input file: C:\ENHANCED.IN (file 1, run 2).                           *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\VREGSTL.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: C:\STLOSVMT.DEF


* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF ANTI-TAMP AND I/M IN 1983

* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D

  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:  300. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4915    0.2725    0.1065              0.0366    0.0012
0.0019    0.0834    0.0064    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.795     2.271     2.481     2.330     2.801    0.885
1.103     0.876      2.17     1.958
```

```
     Composite NOX :      1.356     1.515     1.652     1.553     5.032    1.684
1.661    17.038      1.12     2.873

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF ANTI-TAMP AND I/M IN 1983

* File 1, Run 2, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2004
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:  121. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4361    0.3110    0.1214              0.0368    0.0007
0.0020    0.0862    0.0059    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.283     1.693     1.902     1.751     1.997    0.702
1.047     0.645      2.16     1.461
     Composite NOX :      1.075     1.334     1.544     1.393     4.463    1.460
1.480    11.647      1.12     2.250

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF ANTI-TAMP AND I/M IN 1983

* File 1, Run 2, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2007
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
```

```
                 Weathered RVP:   6.7 psi
           Fuel Sulfur Content:   33. ppm

           Exhaust I/M Program:  Yes
              Evap I/M Program:  No
                   ATP Program:  Yes
              Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3947    0.3405    0.1328              0.0366    0.0005
0.0020    0.0871    0.0057    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.975     1.262     1.419     1.306     1.455    0.479
0.647     0.531      2.15     1.116
     Composite NOX :      0.775     1.055     1.264     1.113     3.225    0.935
0.973     8.930      1.12     1.738

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF ANTI-TAMP AND I/M IN 1983

* File 1, Run 2, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
           there are no sales for vehicle class HDGV8b
  M 48 Warning:
           there are no sales for vehicle class LDDT12

                 Calendar Year:  2014
                         Month:  July
                      Altitude:  Low
           Minimum Temperature:  72.0 (F)
           Maximum Temperature:  93.0 (F)
             Absolute Humidity:   60. grains/lb
              Nominal Fuel RVP:   7.0 psi
                 Weathered RVP:   6.7 psi
           Fuel Sulfur Content:   30. ppm

           Exhaust I/M Program:  Yes
              Evap I/M Program:  No
                   ATP Program:  Yes
              Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3169    0.3954    0.1542              0.0369    0.0003
0.0023    0.0886    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
```

```
     Composite VOC :      0.529     0.734     0.856     0.769     0.756    0.119
0.295     0.351      2.13     0.661
     Composite NOX :      0.429     0.652     0.813     0.697     1.223    0.184
0.373     3.502      1.12     0.881

-------------------------------------------------------------------------------
---------------------------------
*************************************************************************
* MOBILE6 (16-Jan-2002)                                                 *
* Input file: C:\ENHANCED.IN (file 1, run 3).                           *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\VREGSTL.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: C:\STLOSVMT.DEF

  M601 Comment:
              User has enabled STAGE II REFUELING.


* # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF STAGE II REFUELING IN 1989

* File 1, Run 3, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D

  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:  300. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
```

```
   VMT Distribution:    0.4915    0.2725    0.1065              0.0366    0.0012
0.0019    0.0834    0.0064    1.0000

--------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.687     2.114     2.259     2.155     2.461    0.885
1.103     0.876      2.17     1.826
     Composite NOX :      1.356     1.515     1.652     1.553     5.032    1.684
1.661    17.038      1.12     2.873

--------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF STAGE II REFUELING IN 1989

* File 1, Run 3, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2004
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:  121. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4361    0.3110    0.1214              0.0368    0.0007
0.0020    0.0862    0.0059    1.0000

--------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.223     1.580     1.690     1.610     1.666    0.702
1.047     0.645      2.16     1.362
     Composite NOX :      1.075     1.334     1.544     1.393     4.463    1.460
1.480    11.647      1.12     2.250

--------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF STAGE II REFUELING IN 1989

* File 1, Run 3, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
```

```
                    Calendar Year:  2007
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  72.0 (F)
             Maximum Temperature:  93.0 (F)
               Absolute Humidity:   60. grains/lb
                Nominal Fuel RVP:   7.0 psi
                   Weathered RVP:   6.7 psi
             Fuel Sulfur Content:   33. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  No
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3947    0.3405    0.1328              0.0366    0.0005
0.0020    0.0871    0.0057    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.938     1.189     1.276     1.214     1.206    0.479
0.647     0.531      2.15     1.049
     Composite NOX :      0.775     1.055     1.264     1.113     3.225    0.935
0.973     8.930      1.12     1.738

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF STAGE II REFUELING IN 1989

* File 1, Run 3, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                    Calendar Year:  2014
                            Month:  July
                         Altitude:  Low
             Minimum Temperature:  72.0 (F)
             Maximum Temperature:  93.0 (F)
               Absolute Humidity:   60. grains/lb
                Nominal Fuel RVP:   7.0 psi
                   Weathered RVP:   6.7 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  Yes
                Evap I/M Program:  No
                     ATP Program:  Yes
                Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
```

```
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3169    0.3954    0.1542              0.0369    0.0003
0.0023    0.0886    0.0054    1.0000

-------------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.520     0.708     0.804     0.735     0.627    0.119
0.295     0.351      2.13     0.635
     Composite NOX :      0.429     0.652     0.813     0.697     1.223    0.184
0.373     3.502      1.12     0.881

-------------------------------------------------------------------------------------
---------------------------------
*************************************************************************
* MOBILE6 (16-Jan-2002)                                                 *
* Input file: C:\ENHANCED.IN (file 1, run 4).                           *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\VREGSTL.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: C:\STLOSVMT.DEF

  M601 Comment:
               User has enabled STAGE II REFUELING.


* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF REVISED I/M PROGRAM IN 1990

* File 1, Run 4, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D

  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:  300. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
```

```
                    ATP Program:  Yes
              Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4915    0.2725    0.1065              0.0366    0.0012
0.0019    0.0834    0.0064    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.687     2.114     2.259     2.154     2.461    0.885
1.103     0.876      2.17     1.826
     Composite NOX :      1.356     1.515     1.652     1.553     5.032    1.684
1.661    17.038      1.12     2.873

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF REVISED I/M PROGRAM IN 1990

* File 1, Run 4, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2004
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:  121. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4361    0.3110    0.1214              0.0368    0.0007
0.0020    0.0862    0.0059    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.223     1.580     1.690     1.610     1.666    0.702
1.047     0.645      2.16     1.362
     Composite NOX :      1.075     1.334     1.544     1.393     4.463    1.460
1.480    11.647      1.12     2.250

--------------------------------------------------------------------------------
----------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF REVISED I/M PROGRAM IN 1990

* File 1, Run 4, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2007
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:   33. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3947    0.3405    0.1328              0.0366    0.0005
0.0020    0.0871    0.0057    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.938     1.189     1.276     1.214     1.206    0.479
0.647     0.531      2.15     1.049
     Composite NOX :      0.775     1.055     1.264     1.113     3.225    0.935
0.973     8.930      1.12     1.738

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF REVISED I/M PROGRAM IN 1990

* File 1, Run 4, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2014
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.7 psi
              Fuel Sulfur Content:   30. ppm
```

```
              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
                      ATP Program:  Yes
                 Reformulated Gas:  No

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
             GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3169    0.3954    0.1542              0.0369    0.0003
0.0023    0.0886    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.520     0.708     0.804     0.735     0.627    0.119
0.295     0.351      2.13     0.635
     Composite NOX :      0.429     0.652     0.813     0.697     1.223    0.184
0.373     3.502      1.12     0.881

-------------------------------------------------------------------------------------
----------------------------------
*****************************************************************************
* MOBILE6 (16-Jan-2002)                                                     *
* Input file: C:\ENHANCED.IN (file 1, run 5).                               *
*****************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\VREGSTL.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: C:\STLOSVMT.DEF

  M601 Comment:
               User has enabled STAGE II REFUELING.

  M616 Comment:
               User has supplied post-1999 sulfur levels.

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF RFG IN 1999

* File 1, Run 5, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D

  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2000
                            Month:  July
```

```
                    Altitude:  Low
Minimum Temperature:  72.0 (F)
Maximum Temperature:  93.0 (F)
  Absolute Humidity:   60. grains/lb
   Nominal Fuel RVP:   7.0 psi
      Weathered RVP:   6.4 psi
Fuel Sulfur Content:  150. ppm

Exhaust I/M Program:  Yes
   Evap I/M Program:  No
        ATP Program:  Yes
   Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4915    0.2725    0.1065              0.0366    0.0012
0.0019    0.0834    0.0064    1.0000

-----------------------------------------------------------------------------------------
-----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.535     1.933     2.097     1.980     2.375    0.885
1.103     0.876      2.12     1.681
     Composite NOX :      1.315     1.462     1.600     1.501     4.844    1.684
1.661    17.038      1.12     2.825

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* # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF RFG IN 1999

* File 1, Run 5, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2004
                            Month:  July
                    Altitude:  Low
Minimum Temperature:  72.0 (F)
Maximum Temperature:  93.0 (F)
  Absolute Humidity:   60. grains/lb
   Nominal Fuel RVP:   7.0 psi
      Weathered RVP:   6.5 psi
Fuel Sulfur Content:  120. ppm

Exhaust I/M Program:  Yes
   Evap I/M Program:  No
        ATP Program:  Yes
   Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4361    0.3110    0.1214              0.0368    0.0007
0.0020    0.0862    0.0059    1.0000
```

```
--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.156     1.497     1.596     1.525     1.620    0.702
1.047     0.645      2.13     1.294
     Composite NOX :      1.086     1.348     1.561     1.408     4.373    1.460
1.480    11.647      1.12     2.257

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF RFG IN 1999

* File 1, Run 5, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2007
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  No
                      ATP Program:  Yes
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV         MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3947    0.3405    0.1328              0.0366    0.0005
0.0020    0.0871    0.0057    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.887     1.126     1.207     1.149     1.164    0.479
0.647     0.531      2.12     0.996
     Composite NOX :      0.778     1.060     1.275     1.121     3.152    0.935
0.973     8.930      1.12     1.740

--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF RFG IN 1999

* File 1, Run 5, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
```

```
                    Calendar Year:  2014
                            Month:  July
                         Altitude:  Low
               Minimum Temperature:  72.0 (F)
               Maximum Temperature:  93.0 (F)
                 Absolute Humidity:   60. grains/lb
                  Nominal Fuel RVP:   7.0 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:   30. ppm

               Exhaust I/M Program:  Yes
                  Evap I/M Program:  No
                       ATP Program:  Yes
                  Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                          ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3169    0.3954    0.1542              0.0369    0.0003
0.0023    0.0886    0.0054    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.492     0.669     0.759     0.695     0.605    0.119
0.295     0.351      2.10     0.603
     Composite NOX :      0.435     0.660     0.824     0.706     1.196    0.184
0.373     3.502      1.12     0.887

-------------------------------------------------------------------------------------
----------------------------------
*************************************************************************
* MOBILE6 (16-Jan-2002)                                                 *
* Input file: C:\ENHANCED.IN (file 1, run 6).                           *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\VREGSTL.D
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                 1.00     MYR sum not = 1. (will normalize)

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: C:\STLOSVMT.DEF

  M601 Comment:
               User has enabled STAGE II REFUELING.

  M616 Comment:
               User has supplied post-1999 sulfur levels.

* Reading non-default I/M CUTPOINTS from the following external
* data file: C:\CUTPOINT.D
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF I/M 240 AND T/O GC IN 2000

* File 1, Run 6, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D

  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.4 psi
              Fuel Sulfur Content:  150. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4915    0.2725    0.1065              0.0366    0.0012
0.0019    0.0834    0.0064    1.0000

--------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.402     1.802     1.973     1.850     2.375    0.885
1.103     0.876      2.12     1.567
     Composite NOX :      1.223     1.404     1.553     1.446     4.844    1.684
1.661    17.038      1.12     2.760

--------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF I/M 240 AND T/O GC IN 2000

* File 1, Run 6, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2004
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  120. ppm
```

```
              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4361    0.3110    0.1214              0.0368    0.0007
0.0020    0.0862    0.0059    1.0000

-------------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.068     1.389     1.483     1.415     1.620    0.702
1.047     0.645      2.13     1.208
     Composite NOX :      1.011     1.282     1.500     1.343     4.373    1.460
1.480    11.647      1.12     2.197

-------------------------------------------------------------------------------------
---------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF I/M 240 AND T/O GC IN 2000

* File 1, Run 6, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2007
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3947    0.3405    0.1328              0.0366    0.0005
0.0020    0.0871    0.0057    1.0000

-------------------------------------------------------------------------------------
---------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.878     1.116     1.197     1.139     1.164    0.479
0.647     0.531      2.12     0.988
     Composite NOX :      0.778     1.060     1.275     1.121     3.152    0.935
0.973     8.930      1.12     1.740
```

```
--------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF I/M 240 AND T/O GC IN 2000

* File 1, Run 6, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2014
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                         ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3169    0.3954    0.1542              0.0369    0.0003
0.0023    0.0886    0.0054    1.0000

--------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      0.487     0.664     0.754     0.689     0.605    0.119
0.295     0.351      2.10     0.599
     Composite NOX :      0.435     0.660     0.824     0.706     1.196    0.184
0.373     3.502      1.12     0.887

--------------------------------------------------------------------------------
----------------------------------
*************************************************************************
* MOBILE6 (16-Jan-2002)                                                 *
* Input file: C:\ENHANCED.IN (file 1, run 7).                           *
*************************************************************************

* Reading Registration Distributions from the following external
* data file: C:\VREGSTL.D
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
                1.00     MYR sum not = 1. (will normalize)
  M 49 Warning:
```

```
                1.00     MYR sum not = 1. (will normalize)

* Reading Hourly, Roadway, and Speed VMT dist. from the following external
* data file: C:\STLOSVMT.DEF

  M601 Comment:
               User has enabled STAGE II REFUELING.

  M616 Comment:
               User has supplied post-1999 sulfur levels.

* Reading non-default I/M CUTPOINTS from the following external
* data file: C:\CUTPOINT.D


* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF OBD PROGRAM IN 2005

* File 1, Run 7, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D

  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2000
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.4 psi
              Fuel Sulfur Content:  150. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4915    0.2725    0.1065              0.0366    0.0012
0.0019    0.0834    0.0064    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.402     1.802     1.973     1.850     2.375    0.885
1.103     0.876      2.12     1.567
     Composite NOX :      1.223     1.404     1.553     1.446     4.844    1.684
1.661    17.038      1.12     2.760

-------------------------------------------------------------------------------------
----------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF OBD PROGRAM IN 2005
```

```
* File 1, Run 7, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2004
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:  120. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
               GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.4361    0.3110    0.1214              0.0368    0.0007
0.0020    0.0862    0.0059    1.0000

-------------------------------------------------------------------------------------
----------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :      1.068     1.389     1.483     1.415     1.620    0.702
1.047     0.645      2.13     1.208
     Composite NOX :      1.011     1.282     1.500     1.343     4.373    1.460
1.480    11.647      1.12     2.197

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* # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF OBD PROGRAM IN 2005

* File 1, Run 7, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2007
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  72.0 (F)
              Maximum Temperature:  93.0 (F)
                Absolute Humidity:   60. grains/lb
                 Nominal Fuel RVP:   7.0 psi
                    Weathered RVP:   6.5 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  Yes
                 Evap I/M Program:  Yes
                      ATP Program:  Yes
                 Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
```

```
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3947    0.3405    0.1328              0.0366    0.0005
0.0020    0.0871    0.0057    1.0000

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 Composite Emission Factors (g/mi):
     Composite VOC :      0.835     1.049     1.133     1.072     1.164    0.479
0.647     0.531      2.12     0.940
     Composite NOX :      0.717     0.966     1.184     1.027     3.152    0.935
0.973     8.930      1.12     1.672

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* # # # # # # # # # # # # # # # # # # # # # # # # # #
* ST. LOUIS ENHANCED AREA - ADDITION OF OBD PROGRAM IN 2005

* File 1, Run 7, Scenario 4.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 48 Warning:
               there are no sales for vehicle class HDGV8b
  M 48 Warning:
               there are no sales for vehicle class LDDT12

                     Calendar Year:  2014
                             Month:  July
                          Altitude:  Low
               Minimum Temperature:  72.0 (F)
               Maximum Temperature:  93.0 (F)
                 Absolute Humidity:   60. grains/lb
                  Nominal Fuel RVP:   7.0 psi
                     Weathered RVP:   6.5 psi
               Fuel Sulfur Content:   30. ppm

               Exhaust I/M Program:  Yes
                  Evap I/M Program:  Yes
                       ATP Program:  Yes
                  Reformulated Gas:  Yes

       Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV
 LDDT      HDDV        MC   All Veh
                GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------
------    ------    ------    ------
   VMT Distribution:    0.3169    0.3954    0.1542              0.0369    0.0003
0.0023    0.0886    0.0054    1.0000

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 Composite Emission Factors (g/mi):
     Composite VOC :      0.421     0.563     0.653     0.588     0.605    0.119
0.295     0.351      2.10     0.522
     Composite NOX :      0.331     0.509     0.682     0.557     1.196    0.184
0.373     3.502      1.12     0.772

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Return to Appendix

Missouri Department of Natural Resources
Air Pollution Control Program

St. Louis Enhanced Area Mobile Emissions

ASSUMPTIONS:

Humidity - 60.4
Temp. Range - 72 to 93
Base Run, no controls added

model year		LDGV 0.4915	LDGT12 0.2725	LDGT34 0.1065	LDGT	HDGV 0.0366	LDDV 0.0012	LDDT 0.0019	HDDV 0.0834	MC 0.006	All Veh 1
2000	VOC	1.827	2.412	2.606	2.466	2.801	0.885	1.103	0.876	2.17	2.025
	NO x	1.379	1.616	1.741	1.651	5.032	1.684	1.661	17.038	1.12	2.921
2004	VOC	1.297	1.757	1.962	1.814	1.997	0.702	1.047	0.645	2.16	1.494
	NO x	1.087	1.395	1.594	1.451	4.463	1.46	1.48	11.647	1.12	2.28
2007	VOC	0.981	1.293	1.451	1.337	1.455	0.479	0.647	0.531	2.15	1.133
	NO x	0.78	1.09	1.297	1.148	3.225	0.935	0.973	8.93	1.12	1.757
2014	VOC	0.529	0.737	0.861	0.772	0.756	0.119	0.295	0.351	2.13	0.663
	NO x	0.43	0.655	0.819	0.701	1.223	0.184	0.373	3.502	1.12	0.884

											Total Emissions in tons per day
2000	VOC	55.24	40.43	17.07	0.00	6.31	0.07	0.13	4.49	0.85	**124.60**
	NO x	41.70	27.09	11.41	0.00	11.33	0.12	0.19	87.42	0.44	**179.70**
2004	VOC	45.15	33.91	14.80	0.00	5.18	0.06	0.14	3.81	0.98	**104.03**
	NO x	37.84	26.92	12.02	0.00	11.57	0.12	0.20	68.80	0.51	**157.99**
2007	VOC	36.56	26.72	11.72	0.00	4.04	0.04	0.09	3.36	1.04	**83.57**
	NO x	29.07	22.52	10.47	0.00	8.95	0.09	0.14	56.47	0.54	**128.26**
2014	VOC	23.12	17.86	8.15	0.00	2.46	0.01	0.05	2.60	1.21	**55.46**
	NO x	18.79	15.87	7.76	0.00	3.98	0.02	0.06	25.97	0.64	**73.08**

Missouri Department of Natural Resources
Air Pollution Control Program

St. Louis Enhanced Area Mobile Emissions

ASSUMPTIONS:

Humidity - 60.4
Temp. Range - 72 to 93
Basic I/M program for calendar years 1983-1989
Anti-Tampering Program - 1983

model year		LDGV 0.4915	LDGT12 0.2725	LDGT34 0.1065	LDGT	HDGV 0.0366	LDDV 0.0012	LDDT 0.0019	HDDV 0.0834	MC 0.006	All Veh 1
2000	VOC	1.795	2.271	2.481	2.33	2.801	0.885	1.103	0.876	2.17	1.958
	NO x	1.356	1.515	1.652	1.553	5.032	1.684	1.661	17.038	1.12	2.873
2004	VOC	1.283	1.693	1.902	1.751	1.997	0.702	1.047	0.645	2.16	1.461
	NO x	1.075	1.334	1.544	1.393	4.463	1.46	1.48	11.647	1.12	2.25
2007	VOC	0.975	1.262	1.419	1.306	1.455	0.479	0.647	0.531	2.15	1.116
	NO x	0.775	1.055	1.264	1.113	3.225	0.935	0.973	8.93	1.12	1.738
2014	VOC	0.529	0.734	0.856	0.769	0.756	0.119	0.295	0.351	2.13	0.661
	NO x	0.429	0.652	0.813	0.697	1.223	0.184	0.373	3.502	1.12	0.881

										Total Emissions in tons per day	
2000	VOC	54.28	38.07	16.26	0.00	6.31	0.07	0.13	4.49	0.85	**120.45**
	NO x	41.00	25.40	10.82	0.00	11.33	0.12	0.19	87.42	0.44	**176.73**
2004	VOC	44.66	32.68	14.35	0.00	5.18	0.06	0.14	3.81	0.98	**101.85**
	NO x	37.42	25.75	11.65	0.00	11.57	0.12	0.20	68.80	0.51	**156.01**
2007	VOC	36.34	26.08	11.46	0.00	4.04	0.04	0.09	3.36	1.04	**82.45**
	NO x	28.88	21.80	10.21	0.00	8.95	0.09	0.14	56.47	0.54	**127.08**
2014	VOC	23.12	17.78	8.11	0.00	2.46	0.01	0.05	2.60	1.21	**55.34**
	NO x	18.75	15.80	7.70	0.00	3.98	0.02	0.06	25.97	0.64	**72.91**

Missouri Department of Natural Resources
Air Pollution Control Program

St. Louis Enhanced Area Mobile Emissions

ASSUMPTIONS:

Humidity - 60.4
Temp. Range - 72 to 93
Basic I/M program for calendar years 1983-1989
Anti-Tampering Program - 1983
Stage II Refueling - 1989

model year		LDGV 0.4915	LDGT12 0.2725	LDGT34 0.1065	LDGT	HDGV 0.0366	LDDV 0.0012	LDDT 0.0019	HDDV 0.0834	MC 0.006	All Veh 1
2000	VOC	1.687	2.114	2.259	2.155	2.461	0.885	1.103	0.876	2.17	1.826
	NO x	1.356	1.515	1.652	1.553	5.032	1.684	1.661	17.038	1.12	2.873
2004	VOC	1.223	1.58	1.69	1.61	1.666	0.702	1.047	0.645	2.16	1.362
	NO x	1.075	1.334	1.544	1.393	4.463	1.46	1.48	11.647	1.12	2.25
2007	VOC	0.938	1.189	1.276	1.214	1.206	0.479	0.647	0.531	2.15	1.049
	NO x	0.775	1.055	1.264	1.113	3.225	0.935	0.973	8.93	1.12	1.738
2014	VOC	0.52	0.708	0.804	0.735	0.627	0.119	0.295	0.351	2.13	0.635
	NO x	0.429	0.652	0.813	0.697	1.223	0.184	0.373	3.502	1.12	0.881

											Total Emissions in tons per day
2000	VOC	51.01	35.44	14.80	0.00	5.54	0.07	0.13	4.49	0.85	**112.33**
	NO x	41.00	25.40	10.82	0.00	11.33	0.12	0.19	87.42	0.44	**176.73**
2004	VOC	42.57	30.49	12.75	0.00	4.32	0.06	0.14	3.81	0.98	**95.13**
	NO x	37.42	25.75	11.65	0.00	11.57	0.12	0.20	68.80	0.51	**156.01**
2007	VOC	34.96	24.57	10.30	0.00	3.35	0.04	0.09	3.36	1.04	**77.72**
	NO x	28.88	21.80	10.21	0.00	8.95	0.09	0.14	56.47	0.54	**127.08**
2014	VOC	22.72	17.15	7.61	0.00	2.04	0.01	0.05	2.60	1.21	**53.41**
	NO x	18.75	15.80	7.70	0.00	3.98	0.02	0.06	25.97	0.64	**72.91**

Missouri Department of Natural Resources
Air Pollution Control Program

St. Louis Enhanced Area Mobile Emissions

ASSUMPTIONS:

Humidity - 60.4
Temp. Range - 72 to 93
Basic I/M program for calendar years 1983-1989
Anti-Tampering Program - 1983
Stage II Refueling - 1989
Revised I/M program added in 1990

model year		LDGV 0.4424	LDGT12 0.3195	LDGT34 0.1099	LDGT	HDGV 0.0361	LDDV 0.0007	LDDT 0.0017	HDDV 0.0839	MC 0.006	All Veh 1
2000	VOC	1.687	2.114	2.259	2.154	2.461	0.885	1.103	0.876	2.17	1.826
	NO x	1.356	1.515	1.652	1.553	5.032	1.684	1.661	17.038	1.12	2.873
2004	VOC	1.223	1.58	1.69	1.61	1.666	0.702	1.047	0.645	2.16	1.362
	NO x	1.075	1.334	1.544	1.393	4.463	1.46	1.48	11.647	1.12	2.25
2007	VOC	0.938	1.189	1.276	1.214	1.206	0.479	0.647	0.531	2.15	1.049
	NO x	0.775	1.055	1.264	1.113	3.225	0.935	0.973	8.93	1.12	1.738
2014	VOC	0.52	0.708	0.804	0.735	0.627	0.119	0.295	0.351	2.13	0.635
	NO x	0.429	0.652	0.813	0.697	1.223	0.184	0.373	3.502	1.12	0.881

											Total Emissions in tons per day
2000	VOC	45.91	41.55	15.27	0.00	5.47	0.04	0.12	4.52	0.79	**113.67**
	NO x	36.91	29.78	11.17	0.00	11.18	0.07	0.17	87.94	0.41	**177.62**
2004	VOC	38.32	35.75	13.15	0.00	4.26	0.03	0.13	3.83	0.90	**96.39**
	NO x	33.68	30.19	12.02	0.00	11.41	0.07	0.18	69.21	0.47	**157.23**
2007	VOC	31.47	28.81	10.63	0.00	3.30	0.03	0.08	3.38	0.96	**78.66**
	NO x	26.00	25.56	10.53	0.00	8.83	0.05	0.13	56.81	0.50	**128.41**
2014	VOC	20.45	20.11	7.86	0.00	2.01	0.01	0.04	2.62	1.12	**54.22**
	NO x	16.87	18.52	7.94	0.00	3.93	0.01	0.06	26.12	0.59	**74.04**

Missouri Department of Natural Resources
Air Pollution Control Program

St. Louis Enhanced Area Mobile Emissions

ASSUMPTIONS:

Humidity - 60.4
Temp. Range - 72 to 93
Basic I/M program for calendar years 1983-1989
Anti-Tampering Program - 1983
Stage II Refueling - 1989
Revised I/M program added in 1990
RFG Added in 1999

model year		LDGV 0.4915	LDGT12 0.2725	LDGT34 0.1065	LDGT	HDGV 0.0366	LDDV 0.0012	LDDT 0.0019	HDDV 0.0834	MC 0.006	All Veh 1
2000	VOC	1.535	1.933	2.097	1.98	2.375	0.885	1.103	0.876	2.12	1.681
	NO x	1.315	1.462	1.6	1.501	4.844	1.684	1.661	17.038	1.12	2.825
2004	VOC	1.156	1.497	1.596	1.525	1.62	0.702	1.047	0.645	2.13	1.294
	NO x	1.086	1.348	1.561	1.408	4.373	1.46	1.48	11.647	1.12	2.257
2007	VOC	0.887	1.126	1.207	1.149	1.164	0.479	0.647	0.531	2.12	0.996
	NO x	0.778	1.06	1.275	1.121	3.152	0.935	0.973	8.93	1.12	1.74
2014	VOC	0.492	0.669	0.759	0.695	0.605	0.119	0.295	0.351	2.1	0.603
	NO x	0.435	0.66	0.824	0.706	1.196	0.184	0.373	3.502	1.12	0.887

											Total Emissions in tons per day
2000	VOC	46.41	32.40	13.74	0.00	5.35	0.07	0.13	4.49	0.83	**103.43**
	NO x	39.76	24.51	10.48	0.00	10.91	0.12	0.19	87.42	0.44	**173.84**
2004	VOC	40.24	28.89	12.04	0.00	4.20	0.06	0.14	3.81	0.97	**90.35**
	NO x	37.81	26.02	11.77	0.00	11.34	0.12	0.20	68.80	0.51	**156.56**
2007	VOC	33.06	23.27	9.75	0.00	3.23	0.04	0.09	3.36	1.03	**73.83**
	NO x	29.00	21.90	10.30	0.00	8.75	0.09	0.14	56.47	0.54	**127.18**
2014	VOC	21.50	16.21	7.19	0.00	1.97	0.01	0.05	2.60	1.19	**50.73**
	NO x	19.01	15.99	7.80	0.00	3.89	0.02	0.06	25.97	0.64	**73.38**

Missouri Department of Natural Resources
Air Pollution Control Program

St. Louis Enhanced Area Mobile Emissions

ASSUMPTIONS:

Humidity - 60.4
Temp. Range - 72 to 93
Basic I/M program for calendar years 1983-1989
Anti-Tampering Program - 1983
Stage II Refueling - 1989
Revised I/M program added in 1990
RFG Added in 1999
Enhanced I/M program beginning in year 2000, addition of I/M 240 and T/O GC

model year		LDGV 0.4915	LDGT12 0.2725	LDGT34 0.1065	LDGT	HDGV 0.0366	LDDV 0.0012	LDDT 0.0019	HDDV 0.0834	MC 0.006	All Veh 1
2000	VOC	1.402	1.802	1.973	1.85	2.375	0.885	1.103	0.876	2.12	1.567
	NO x	1.223	1.404	1.553	1.446	4.844	1.684	1.661	17.038	1.12	2.76
2004	VOC	1.068	1.389	1.483	1.415	1.62	0.702	1.047	0.645	2.13	1.208
	NO x	1.011	1.282	1.5	1.343	4.373	1.46	1.48	11.647	1.12	2.197
2007	VOC	0.878	1.116	1.197	1.139	1.164	0.479	0.647	0.531	2.12	0.988
	NO x	0.778	1.06	1.275	1.121	3.152	0.935	0.973	8.93	1.12	1.74
2014	VOC	0.487	0.664	0.754	0.689	0.605	0.119	0.295	0.351	2.1	0.599
	NO x	0.435	0.66	0.824	0.706	1.196	0.184	0.373	3.502	1.12	0.887

											Total Emissions in tons per day
2000	VOC	42.39	30.21	12.93	0.00	5.35	0.07	0.13	4.49	0.83	**96.40**
	NO x	36.98	23.54	10.18	0.00	10.91	0.12	0.19	87.42	0.44	**169.78**
2004	VOC	37.18	26.81	11.19	0.00	4.20	0.06	0.14	3.81	0.97	**84.35**
	NO x	35.19	24.74	11.31	0.00	11.34	0.12	0.20	68.80	0.51	**152.22**
2007	VOC	32.72	23.06	9.67	0.00	3.23	0.04	0.09	3.36	1.03	**73.20**
	NO x	29.00	21.90	10.30	0.00	8.75	0.09	0.14	56.47	0.54	**127.18**
2014	VOC	21.28	16.09	7.14	0.00	1.97	0.01	0.05	2.60	1.19	**50.34**
	NO x	19.01	15.99	7.80	0.00	3.89	0.02	0.06	25.97	0.64	**73.38**

Missouri Department of Natural Resources
Air Pollution Control Program

St. Louis Enhanced Area Mobile Emissions

ASSUMPTIONS:

Humidity - 60.4
Temp. Range - 72 to 93
Basic I/M program for calendar years 1983-1989
Anti-Tampering Program - 1983
Stage II Refueling - 1989
Revised I/M program added in 1990
RFG Added in 1999
Enhanced I/M program beginning in year 2000, addition of I/M 240 and T/O GC
Enhanced I/M program beginning in year 2005 with On Board Diagnostics

model year		LDGV 0.4915	LDGT12 0.2725	LDGT34 0.1065	LDGT	HDGV 0.0366	LDDV 0.0012	LDDT 0.0019	HDDV 0.0834	MC 0.006	All Veh 1
2000	VOC	1.402	1.802	1.973	1.85	2.375	0.885	1.103	0.876	2.12	1.567
	NO x	1.223	1.404	1.553	1.446	4.844	1.684	1.661	17.038	1.12	2.76
2004	VOC	1.068	1.389	1.483	1.415	1.62	0.702	1.047	0.645	2.13	1.208
	NO x	1.011	1.282	1.5	1.343	4.373	1.46	1.48	11.647	1.12	2.197
2007	VOC	0.835	1.049	1.133	1.072	1.164	0.479	0.647	0.531	2.12	0.94
	NO x	0.717	0.966	1.184	1.027	3.152	0.935	0.973	8.93	1.12	1.672
2014	VOC	0.421	0.563	0.653	0.588	0.605	0.119	0.295	0.351	2.1	0.522
	NO x	0.331	0.509	0.682	0.557	1.196	0.184	0.373	3.502	1.12	0.772

											Total Emissions in tons per day
2000	VOC	42.39	30.21	12.93	0.00	5.35	0.07	0.13	4.49	0.83	**96.40**
	NO x	36.98	23.54	10.18	0.00	10.91	0.12	0.19	87.42	0.44	**169.78**
2004	VOC	37.18	26.81	11.19	0.00	4.20	0.06	0.14	3.81	0.97	**84.35**
	NO x	35.19	24.74	11.31	0.00	11.34	0.12	0.20	68.80	0.51	**152.22**
2007	VOC	31.12	21.68	9.15	0.00	3.23	0.04	0.09	3.36	1.03	**69.70**
	NO x	26.72	19.96	9.56	0.00	8.75	0.09	0.14	56.47	0.54	**122.23**
2014	VOC	18.40	13.64	6.18	0.00	1.97	0.01	0.05	2.60	1.19	**44.05**
	NO x	14.46	12.33	6.46	0.00	3.89	0.02	0.06	25.97	0.64	**63.83**

Return to Appendix

Missouri Department of Natural Resources
Air Pollution Control Program

Franklin County Mobile Emissions

ASSUMPTIONS:

Humidity - 60.4
Temp. Range - 72 to 93
Base Run, no added controls

model year		LDGV 0.4915	LDGT12 0.2725	LDGT34 0.1065	LDGT	HDGV 0.0366	LDDV 0.0012	LDDT 0.0019	HDDV 0.0834	MC 0.006	All Veh 1
2000	VOC	1.818	2.397	2.59	2.451	2.746	0.867	1.081	0.846	2.15	2.01
	NO x	1.376	1.62	1.744	1.655	5.142	1.732	1.708	17.406	1.15	2.956
2004	VOC	1.289	1.745	1.95	1.803	1.963	0.688	1.027	0.623	2.14	1.483
	NO x	1.086	1.399	1.597	1.455	4.56	1.5	1.522	11.956	1.15	2.311
2007	VOC	0.974	1.285	1.442	1.329	1.433	0.469	0.633	0.514	2.13	1.124
	NO x	0.78	1.093	1.299	1.151	3.296	0.961	1.001	9.173	1.15	1.782
2014	VOC	0.526	0.734	0.856	0.768	0.747	0.116	0.288	0.34	2.11	0.659
	NO x	0.429	0.657	0.82	0.703	1.249	0.189	0.383	3.598	1.15	0.894

											Total Emissions in tons per day
2000	VOC	3.69	2.70	1.14	0.00	0.41	0.00	0.01	0.29	0.06	**8.30**
	NO x	2.79	1.82	0.77	0.00	0.78	0.01	0.01	5.99	0.03	**12.20**
2004	VOC	2.87	2.15	0.94	0.00	0.33	0.00	0.01	0.24	0.06	**6.60**
	NO x	2.42	1.73	0.77	0.00	0.76	0.01	0.01	4.52	0.03	**10.25**
2007	VOC	2.32	1.70	0.74	0.00	0.25	0.00	0.01	0.21	0.07	**5.30**
	NO x	1.86	1.44	0.67	0.00	0.59	0.01	0.01	3.71	0.04	**8.32**
2014	VOC	1.47	1.14	0.52	0.00	0.16	0.00	0.00	0.16	0.08	**3.52**
	NO x	1.20	1.02	0.50	0.00	0.26	0.00	0.00	1.71	0.04	**4.73**

Missouri Department of Natural Resources
Air Pollution Control Program

Franklin County Mobile Emissions

ASSUMPTIONS:

Humidity - 60.4
Temp. Range - 72 to 93
RFG Program added in 1999

model year		LDGV 0.4915	LDGT12 0.2725	LDGT34 0.1065	LDGT	HDGV 0.0366	LDDV 0.0012	LDDT 0.0019	HDDV 0.0834	MC 0.006	All Veh 1
2000	VOC	1.655	2.186	2.401	2.246	2.647	0.867	1.081	0.846	2.11	1.848
	NO x	1.335	1.565	1.692	1.601	4.95	1.732	1.708	17.406	1.15	2.908
2004	VOC	1.22	1.654	1.845	1.708	1.909	0.688	1.027	0.623	2.11	1.409
	NO x	1.097	1.414	1.614	1.47	4.468	1.5	1.522	11.956	1.15	2.32
2007	VOC	0.922	1.216	1.365	1.258	1.385	0.469	0.633	0.514	2.1	1.068
	NO x	0.783	1.099	1.311	1.158	3.221	0.961	1.001	9.173	1.15	1.784
2014	VOC	0.497	0.695	0.809	0.727	0.721	0.116	0.288	0.34	2.08	0.626
	NO x	0.435	0.665	0.83	0.711	1.222	0.189	0.383	3.598	1.15	0.9

											Total Emissions in tons per day
2000	VOC	3.36	2.46	1.06	0.00	0.40	0.00	0.01	0.29	0.06	**7.63**
	NO x	2.71	1.76	0.74	0.00	0.75	0.01	0.01	5.99	0.03	**12.01**
2004	VOC	2.72	2.04	0.89	0.00	0.32	0.00	0.01	0.24	0.06	**6.28**
	NO x	2.44	1.75	0.78	0.00	0.74	0.01	0.01	4.52	0.03	**10.28**
2007	VOC	2.20	1.61	0.71	0.00	0.25	0.00	0.01	0.21	0.07	**5.04**
	NO x	1.87	1.45	0.68	0.00	0.57	0.01	0.01	3.71	0.04	**8.33**
2014	VOC	1.39	1.08	0.49	0.00	0.15	0.00	0.00	0.16	0.08	**3.35**
	NO x	1.22	1.03	0.50	0.00	0.25	0.00	0.00	1.71	0.04	**4.76**

Missouri Department of Natural Resources
Air Pollution Control Program

Franklin County Mobile Emissions

ASSUMPTIONS:

Humidity - 60.4
Temp. Range - 72 to 93
RFG Program added in 1999
Basic I/M program for calendar years 2000-2020

model year		LDGV 0.4915	LDGT12 0.2725	LDGT34 0.1065	LDGT	HDGV 0.0366	LDDV 0.0012	LDDT 0.0019	HDDV 0.0834	MC 0.006	All Veh 1
2000	VOC	1.573	2.133	2.356	2.196	2.647	0.867	1.081	0.846	2.11	1.789
	NO x	1.327	1.552	1.681	1.588	4.95	1.732	1.708	17.406	1.15	2.9
2004	VOC	1.155	1.577	1.767	1.63	1.909	0.688	1.027	0.623	2.11	1.347
	NO x	1.092	1.408	1.608	1.464	4.468	1.5	1.522	11.956	1.15	2.315
2007	VOC	0.864	1.143	1.292	1.185	1.385	0.469	0.633	0.514	2.1	1.011
	NO x	0.781	1.096	1.307	1.155	3.221	0.961	1.001	9.173	1.15	1.781
2014	VOC	0.454	0.631	0.744	0.662	0.721	0.116	0.288	0.34	2.08	0.577
	NO x	0.434	0.665	0.83	0.711	1.222	0.189	0.383	3.598	1.15	0.9

											Total Emissions in tons per day
2000	VOC	3.19	2.40	1.04	0.00	0.40	0.00	0.01	0.29	0.06	**7.39**
	NO x	2.69	1.75	0.74	0.00	0.75	0.01	0.01	5.99	0.03	**11.97**
2004	VOC	2.57	1.95	0.85	0.00	0.32	0.00	0.01	0.24	0.06	**6.00**
	NO x	2.43	1.74	0.78	0.00	0.74	0.01	0.01	4.52	0.03	**10.26**
2007	VOC	2.06	1.51	0.67	0.00	0.25	0.00	0.01	0.21	0.07	**4.77**
	NO x	1.86	1.45	0.68	0.00	0.57	0.01	0.01	3.71	0.04	**8.32**
2014	VOC	1.27	0.98	0.45	0.00	0.15	0.00	0.00	0.16	0.08	**3.09**
	NO x	1.21	1.03	0.50	0.00	0.25	0.00	0.00	1.71	0.04	**4.76**

Return to Appendix