

Appendix B

2011 Ozone Season Day Emissions Inventory Documentation

2011 Ozone Season Day Emissions Inventory Summary for the Missouri Portion of the 2008 St. Louis Ozone Nonattainment Area

Table B-1 displays the 2011 anthropogenic emissions inventory summary for the Missouri counties in the 2008 St. Louis ozone nonattainment area in tons per ozone season day. The anthropogenic source categories include point, area, onroad mobile, and nonroad sources. Additional details regarding the development the 2011 ozone season day anthropogenic emissions inventory for the Missouri counties in the St. Louis nonattainment area can be found in sections B-2 through B-7.

Table B-1 2011 Anthropogenic Emissions Inventory Summary for the Missouri Portion of the Nonattainment Area (tons/ozone season day)

County Name	Source Category	CO	NO _x	VOC
Franklin County	Point Sources	7.55	27.75	2.52
Jefferson County		7.23	16.66	1.63
St. Charles County		2.82	25.04	3.34
St. Louis County		17.68	16.74	3.5
St. Louis City		7.36	4.49	3.59
Totals *		42.65	90.69	14.58
Franklin County	Area Sources	3.03	0.49	3.36
Jefferson County		8.14	0.62	7.48
St. Charles County		1.35	0.68	11.21
St. Louis County		4.72	2.65	38.68
St. Louis City		1.76	1.16	12.04
Totals *		19.01	5.6	72.77
Franklin County	Onroad Mobile Sources	21.18	7.83	2.40
Jefferson County		34.91	12.45	4.24
St. Charles County		56.63	21.04	6.73
St. Louis County		176.34	66.34	20.17
St. Louis City		42.14	16.55	4.46
Totals *		331.20	124.20	38.00
Franklin County	Nonroad Sources	18.55	5.72	3.31
Jefferson County		28.68	3.33	3.12
St. Charles County		62.81	8.34	6.23
St. Louis County		315.24	23.85	22.99
St. Louis City		48.14	6.31	3.38
Totals *		473.42	47.55	39.03
Grand Total *		866.28	268.04	164.38

* Note: Figures may not total exactly due to rounding.

Table B-2 displays the 2011 emissions inventory summary for the biogenic and wildfire (event) source categories in the Missouri portion of the 2008 St. Louis ozone nonattainment area in tons per ozone season day. Event emissions include wild fire emissions, prescribed burning and agricultural burning; however, when annual emissions from these three event source categories are temporally allocated to ozone season day emissions, only wild fire emissions are projected to occur during the high ozone season. Additional details regarding the development the 2011 ozone season day biogenic and wildfire emissions inventory for the Missouri counties in the St. Louis nonattainment area can be found in section B-6.

Table B-2 2011 Wildfire and Biogenic Emissions Inventory Summary for the Missouri Portion of the Nonattainment Area (tons/ozone season day)

County Name	Source Category	CO	NO _x	VOC
Franklin County	Wild Fires (Event)	0.40	0.00	0.09
Jefferson County		0.28	0.00	0.07
St. Charles County		0.01	0.00	0.00
St. Louis County		0.01	0.00	0.00
St. Louis City		0.00	0.00	0.00
Totals *		0.69	0.01	0.16
Franklin County	Biogenic Sources	11.58	1.09	126.84
Jefferson County		9.29	0.51	104.17
St. Charles County		7.09	1.05	65.94
St. Louis County		5.55	0.68	60.84
St. Louis City		1.03	0.13	10.93
Totals *		34.55	3.47	368.71

* Note: Figures may not total exactly due to rounding.

B-2 2011 Point Source Emissions

The 2011 point source emissions by county for the Missouri portion of the 2008 St. Louis ozone nonattainment area are summarized below in Table B-3. The emissions are based on actual ozone season emissions reported by facilities located in the St. Louis nonattainment area and are given in units of tons/average ozone season day.

Table B-3 2011 Point Source Emissions Inventory Summary for the Missouri Portion of the St. Louis Ozone Nonattainment Area (tons/ozone season day)

County Name	CO	NO_x	VOC
Franklin County	7.55	27.75	2.52
Jefferson County	7.23	16.66	1.63
St. Charles County	2.82	25.04	3.34
St. Louis County	17.68	16.74	3.5
St. Louis City	7.36	4.49	3.59
Totals	42.65	90.69	14.58

EPA's 2011 National Emissions Inventory (NEI) includes point source emissions for aircraft takeoffs and landings. However, in this document these are classified as nonroad source emissions. Therefore, the emissions for aircraft takeoffs and landings are not included in the total point source emissions listed above in Table B-3. The SCC codes for the aircraft categories are listed in Table B-7, and the emissions from these categories are included in Table B-18, to be included as nonroad source emissions.

**Table B-4 2011 Point Source Emissions by Facility for the Missouri Portion of the St. Louis Ozone Nonattainment Area
(tons/ozone season day)**

FIPS	Plant ID	Facility Site Name	CO (tons/ozone season day)	NO_x (tons/ozone season day)	VOC (tons/ozone season day)
071	0003	AMEREN MISSOURI – LABADIE PLANT	7.54655	27.71852	0.90532
071	0013	SPORLAN DIVISION PLANT #1	0.00161	0.00192	0.04552
071	0014	CANAM STEEL CORP	-	0.00601	0.18059
071	0020	STEELWELD EQUIPMENT CO INC	0.00042	0.00050	0.02101
071	0031	GRAPHIC PACKAGING INTERNATIONAL	-	-	0.10302
071	0068	MERAMEC INDUSTRIES INC	0.00011	0.00050	0.20540
071	0080	SPARTAN SHOWCASE INC	-	-	0.03872
071	0087	BULL MOOSE TUBE COMPANY	0.00083	0.00143	0.10022
071	0131	SULLIVAN PRECISION METAL FINISHING INC	-	-	0.01369
071	0132	SPORLAN VALVE DIVISION	-	-	0.09218
071	0151	AEROFIL TECHNOLOGY INC	0.00010	0.00050	0.12041
071	0153	MAGNET LLC	-	-	0.03066
071	0154	PRECISION STONE FABRICATORS	-	-	-
071	0155	EATON FUNERAL HOME	-	-	-
071	0157	PLAZE INCORPORATED	0.00126	0.00600	0.24811
071	0173	HENNIGES AUTOMOTIVE SEALING SYSTEMS NA	-	0.00140	0.02092
071	0178	SPORLAN VALVE DIVISION	-	-	0.06077
071	0181	CG POWER SYSTEMS USA INC	0.00130	0.00650	0.14223
071	0195	AMTECO INC	-	-	0.06274
071	0205	TRUE MANUFACTURING COMPANY	-	-	0.07050
071	0230	PLAZE, INC	0.00168	0.00200	0.05639
Franklin County Totals			7.55	27.75	2.52
099	0002	RIVER CEMENT CO. DBA BUZZI UNICEM USA	3.21133	5.57373	0.52559
099	0003	DOE RUN COMPANY	0.04941	0.02645	0.00468
099	0007	FRED WEBER INC	0.03623	0.19085	0.00354
099	0011	UNION PACIFIC RAILROAD CO	0.00480	0.00641	0.12168
099	0012	TRAUTMAN QUARRY	-	-	-
099	0014	DOW CHEMICAL COMPANY, THE	-	-	0.00335
099	0016	AMEREN MISSOURI – RUSH ISLAND PLANT	3.67401	10.18312	0.44058
099	0044	METAL CONTAINER CORPORATION	0.04959	0.05903	0.27132
099	0052	ENGINEERED COIL COMPANY	-	-	0.01837

FIPS	Plant ID	Facility Site Name	CO (tons/ozone season day)	NO_x (tons/ozone season day)	VOC (tons/ozone season day)
099	0068	SAINT-GOBAIN CONTAINERS INC	0.02509	0.29422	0.07256
099	0072	SHAPIRO BROTHERS INC	0.03461	0.13030	0.00366
099	0092	MASTERCHEM INDUSTRIES INC	-	-	-
099	0098	FRED WEBER INC	0.00600	0.00617	0.00052
099	0103	BUSSEN QUARRIES INC	-	-	-
099	0111	CARONDELET CORPORATION	0.00747	0.01425	0.10006
099	0114	AERO METAL FINISHING	-	0.00592	0.00596
099	0116	SINCLAIR & RUSH	0.13246	0.17064	0.05719
Jefferson County Totals			7.23	16.66	1.63
183	0001	AMEREN MISSOURI – SIOUX PLANT	2.42945	24.34778	0.53534
183	0004	FRED WEBER INC	0.11464	0.00717	0.00235
183	0010	BOEING COMPANY	0.00210	0.00250	0.02220
183	0012	MIDWEST PRECISION CASTING COMPANY	-	-	-
183	0019	ST. JOSEPH HEALTH CENTER	0.01024	0.03016	0.00229
183	0023	MAGELLAN TERMINALS HOLDINGS LP	-	-	0.08402
183	0027	MEMC ELECTRONIC MATERIALS INC	0.02567	0.03214	0.01403
183	0029	RECKITT BENCKISER	-	-	0.00594
183	0038	LEONARD'S METAL INC	-	-	0.00883
183	0076	GENERAL MOTORS LLC	0.21983	0.57689	2.10815
183	0077	O'FALLON CASTING LLC	0.00336	0.00400	0.06600
183	0110	ZOLTEK CORPORATION	0.00880	0.03964	0.00239
183	0129	WOODBIDGE CORPORATION	-	-	0.34611
183	0131	SUPERIOR HOME PRODUCTS INC	-	-	0.02789
183	0184	TRUE MANUFACTURING CO	0.00210	0.00250	0.10233
183	0241	PITMAN CREMATION SERVICES	-	-	-
183	6003	LAMI WOOD PRODUCTS	-	-	0.01514
St. Charles County Totals			2.82	25.04	3.34
189	0010	AMEREN MISSOURI – MERAMEC PLANT	12.12538	14.53689	0.32222
189	0020	MONSANTO WORLD HEADQUARTERS	0.01687	0.03635	0.00126
189	0022	ST. JOHNS MERCY MEDICAL CNTR/MAINTENANCE	0.02394	0.02850	0.00237
189	0023	AMEREN MISSOURI	0.00076	0.01100	0.00027
189	0032	MONSANTO	0.06598	0.22951	0.00628
189	0035	ROCKWOOD PIGMENTS NA INC	0.02111	0.03000	0.00181

FIPS	Plant ID	Facility Site Name	CO (tons/ozone season day)	NO_x (tons/ozone season day)	VOC (tons/ozone season day)
189	0040	PACE CONSTRUCTION CO.	0.16299	0.01015	0.00502
189	0042	WASHINGTON UNIVERSITY	0.13510	0.47994	0.03494
189	0057	ST. LOUIS POST-DISPATCH	0.00084	0.00100	0.03506
189	0061	CARAUSTAR INDUSTRIES INC.	-	-	0.07993
189	0064	SUNNEN PRODUCTS COMPANY	0.00168	0.00200	0.02260
189	0065	ST. LOUIS AIRPORT AUTHORITY	0.01742	0.04972	0.04427
189	0069	THE QUIKRETE COMPANIES, INC.	0.00420	0.00500	0.00028
189	0111	MISSOURI ASPHALT PRODUCTS, LLC	0.07635	0.02291	0.00157
189	0140	STOUT MARKETING	0.00234	0.00279	0.03392
189	0141	ENERGY PETROLEUM COMPANY	-	-	0.02155
189	0201	PACE CONSTRUCTION CO	0.09940	0.04125	0.03625
189	0208	PRINTPACK INC	0.01092	0.01300	0.28613
189	0217	METROPOLITAN ST. LOUIS SEWER DISTRICT	0.84692	0.13660	0.04978
189	0226	GREIF-FENTON	0.00630	0.00750	0.17079
189	0230	THE BOEING COMPANY	0.03736	0.07778	0.13709
189	0231	CHRYSLER GROUP LLC	-	-	-
189	0238	ST. LOUIS LITHOGRAPHING COMPANY	-	-	0.06951
189	0281	BFI MISSOURI PASS LANDFILL	0.18000	0.00960	0.00623
189	0282	CENVEO ST. LOUIS	-	-	-
189	0308	IESI MO CHAMP LANDFILL	0.54750	0.02920	0.02625
189	0310	ADVANCED DISPOSAL SERVICES	0.33375	0.01780	0.01175
189	0312	BRIDGETON LANDFILL, LLC	0.59625	0.03180	0.02013
189	0315	FOL TAPE LLC	-	-	0.09862
189	0317	PRO-TECT MFG INC	-	-	0.09000
189	0318	ST. MARYS HEALTH CENTER	0.01092	0.01300	0.00072
189	0326	AIR PRODUCTS-PRISM MEMBRANES	0.00252	0.00300	0.15873
189	0327	CAMIE-CAMPBELL INC	-	-	0.01370
189	1012	BELT SERVICE CORP	-	-	0.16005
189	1015	KV PHARMACEUTICAL COMPANY	-	-	0.10930
189	1029	SSM DEPAUL HEALTH CENTER	0.01848	0.01835	0.00121
189	1047	NESHER PHARMACEUTICALS	-	-	0.14988
189	1065	MISSOURI AIR NATIONAL GUARD	1.26847	0.15057	0.08346
189	1071	INTELLIGRATED	-	0.00482	0.02418
189	1093	BODINE ALUMINUM INC	0.01722	0.03182	0.01034

FIPS	Plant ID	Facility Site Name	CO (tons/ozone season day)	NO _x (tons/ozone season day)	VOC (tons/ozone season day)
189	1097	REICHHOLD, INC	0.01050	0.01250	0.09001
189	1101	ST. LUKE'S HOSPITAL	0.01470	0.01750	0.00096
189	1196	MALLINCKRODT LLC	0.00840	0.01000	0.03222
189	1204	BASF PESTICIDE CONTROL SOLUTIONS	-	-	0.02270
189	1205	MSD, MISSOURI RIVER WWTP	0.02259	0.24356	0.03079
189	1210	MSD, COLDWATER CREEK WWTP	-	-	0.00044
189	1226	SIMPSON CONSTRUCTION MATERIALS LLC	0.13946	0.04135	0.01321
189	1247	QUEST LITHOGRAPHICS LLC	-	-	0.08389
189	1248	FRED WEBER INC. - SOUTH ASPHALT (BATCH)	0.15807	0.01055	0.00324
189	1249	FRED WEBER INC - NORTH ASPHALT H AND B	0.23735	0.03260	0.01048
189	1250	FRED WEBER INC. - NORTH ASPHALT B-G	0.08312	0.00660	0.00003
189	1259	MACLAN INDUSTRIES	-	-	0.01280
189	1269	GLIDEAWAY MFG COMPANY	0.00003	0.00003	0.03085
189	1316	SINCLAIR AND RUSH	-	-	0.04000
189	1470	SOUTHERN GRAPHIC SYSTEMS	-	-	0.05113
189	1474	LACLEDE GAS COMPANY - UGS	0.18278	0.13152	0.02483
189	1481	MANOR CHEMICAL COMPANY INC	-	-	0.03683
189	1489	GKN AEROSPACE NORTH AMERICA, INC.	0.02016	0.01163	0.18336
189	1501	PEERLESS PARK LANDFILL	0.03589	0.00191	0.00134
189	1515	FRED WEBER INC. - CRUSHING PLANT #7	0.00592	0.02748	0.00224
189	1516	J.D. STREETT AND COMPANY INC	-	-	0.04234
189	1520	F AND S PRINTING	-	-	0.19075
189	1521	PACE CONSTRUCTION CO	0.10403	0.06333	0.02749
189	1523	MISSOURI VALLEY ASPHALT LLC	0.00260	0.00110	0.00064
189	1534	A.G. RECYCLING	0.01944	0.09025	0.00716
189	1538	NESHER PHARMACEUTICALS	-	-	0.03819
189	1541	PACKAGING CONCEPTS INC	0.00672	0.00800	0.09571
189	1590	CENVEO - ST. LOUIS	0.00210	0.00250	0.09646
St. Louis County Totals			17.68	16.74	3.50
510	0003	ANHEUSER-BUSCH INC	0.23429	1.42882	0.65663
510	0016	J.D. STREETT	-	-	0.08579
510	0017	MALLINCKRODT LLC	0.11996	0.22153	0.18214
510	0027	PRECOAT METALS	0.03150	0.03750	0.19785

FIPS	Plant ID	Facility Site Name	CO (tons/ozone season day)	NO_x (tons/ozone season day)	VOC (tons/ozone season day)
510	0031	ADM GRAIN COMPANY	0.00126	0.00150	0.00008
510	0035	BUCKEYE TERMINALS LLC	-	-	0.08275
510	0036	BUCKEYE TERMINALS LLC	0.00659	0.00785	0.00609
510	0038	TRIGEN-ST. LOUIS ENERGY CORP	0.06846	0.09080	0.00501
510	0040	WASHINGTON UNIV MEDICAL SCHOOL	0.02682	0.11721	0.00818
510	0047	FRED WEBER INC	0.02597	0.00231	0.00054
510	0053	METROPOLITAN ST. LOUIS SEWER DISTRICT	5.41682	0.92459	0.26332
510	0057	PROCTER AND GAMBLE	0.09201	0.10960	0.01218
510	0063	THE DIAL CORPORATION	0.00336	0.00400	0.00022
510	0066	ELEMENTIS SPECIALTIES INC	0.01134	0.01350	0.20137
510	0070	ICL PERFORMANCE PRODUCTS LP	0.06566	0.02414	0.00332
510	0096	ELANTAS PDG, INC.	0.01066	0.01411	0.02059
510	0097	U S PAINT CORPORATION	-	-	0.08453
510	0106	UNIVERSAL PRINTING CO INC	0.00257	0.00307	0.00947
510	0118	JW ALUMINUM	0.03583	0.06000	0.77336
510	0161	POLY ONE CORPORATION	-	-	0.00106
510	0162	MARQUETTE TOOL AND DIE	-	-	0.02000
510	0175	ST. LOUIS METALLIZING COMPANY			0.01000
510	0179	ITALGRANI ELEVATOR USA	0.00126	0.00150	0.00008
510	0200	ST. ALEXIUS HOSPITAL	-	-	-
510	0204	BARNES JEWISH HOSPITAL	0.02177	0.09837	0.00615
510	0269	SENSIENT COLORS LLC	0.00420	0.00507	0.00029
510	0391	HERMANN OAK LEATHER CO	-	-	0.02863
510	0405	ABLE RACK CO	-	-	0.00380
510	0468	LANGE-STEGMANN COMPANY	0.00462	0.00550	0.00031
510	0561	INDUSTRIAL CONTAINER SERVICES - MO, LLC	-	-	0.04877
510	0671	HAMMERTS IRON WORKS	-	-	-
510	0697	SIGMA - ALDRICH MFG LLC	0.02268	0.02475	0.02637
510	0746	PEPSI BEVERAGES COMPANY	0.00210	0.00250	0.00014
510	0808	CHEMISPHERE CORPORATION	-	-	0.03758
510	0809	PQ CORPORATION (THE)	0.02633	0.25462	0.01180
510	0938	INTERSTATE BRANDS CORP	0.00798	0.01130	0.19091
510	1011	MICROFINISH IPC LLC	-	-	-
510	1055	GOODWIN PRINTING CO.	-	-	0.03282

FIPS	Plant ID	Facility Site Name	CO (tons/ozone season day)	NO_x (tons/ozone season day)	VOC (tons/ozone season day)
510	1077	MID-WEST INDUSTRIAL CHEMICAL	-	-	0.01980
510	1088	SCHAEFFER MFG	-	-	0.01229
510	1093	BRENNTAG MID-SOUTH INC	-	-	0.01521
510	1123	U. S. RINGBINDER LP	-	-	0.01909
510	1216	U S POLYMERS-ACCUREZ, LLC	0.00038	0.00063	0.01316
510	1270	HUMANE SOCIETY OF MISSOURI	0.00014	0.00205	0.00578
510	1280	ST. LOUIS POST DISPATCH	0.00042	0.00050	0.00003
510	1370	NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY	0.00233	0.00502	0.00036
510	1407	SOUTHERN METAL PROCESSING	0.00610	0.01525	0.00324
510	1423	NEXEO SOLUTIONS, LLC	-	-	0.02848
510	1460	ALLIED HEALTH CARE PRODUCTS	-	-	0.00985
510	1505	ENERGY CENTER (THE)	0.01326	0.01804	0.00107
510	1518	NIES/ARTCRAFT	0.00071	0.00085	0.25041
510	1556	CONNECTOR CASTINGS	-	0.00050	0.00327
510	1642	J S ALBERICI CONSTRUCTION	-	-	0.02719
510	1761	NESTLE PURINA PETCARE COMPANY	0.07727	0.30690	0.00958
510	2111	ADVERTISERS DISPLAY AND EXHIBIT INC	-	-	0.00344
510	2300	SUPERIOR SOLVENT AND CHEMICAL	-	-	0.00902
510	2378	HERTZ ST. LOUIS ONE, LLC	0.98526	0.63879	0.00847
510	2433	NEW WORLD PASTA	0.00924	0.01100	0.00061
510	2545	SOUTHWESTERN BELL TELEPHONE COMPANY	-	-	-
510	2662	BKEP MATERIALS, LLC	0.00068	0.00080	0.00047
510	2664	TRIAD MANUFACTURING	-	-	0.10392
510	2711	ST. LOUIS UNIVERSITY	0.01638	0.01950	0.00107
510	2833	WASHINGTON UNIVERSITY	0.00252	0.00300	0.00017
510	2939	KINDER MORGAN TRANSMIX CO	0.00504	0.00600	0.03520
St. Louis City Totals			7.36	4.49	3.59
Grand Totals			42.65	90.69	14.58

B-3 2011 Area Source Emissions

The 2011 area source emissions by county and ozone season day for the Missouri portion of the 2008 St. Louis ozone nonattainment area are summarized below in Table B-5. The annual area source emissions were based the 2011 NEI, and those emissions were used to estimate ozone season day emissions.

Area source ozone season day emissions were calculated from emission modeling clearing house (EMCH) temporal allocation profiles that are SCC-specific. Ozone season day emissions are typical of a Tuesday in July. See section B-7 for the temporal allocation method and table.

Table B-5 summarizes the area source emissions in tons per ozone season day. Due to the methods that are used to calculate the emissions for the commercial marine and rail categories, these categories are included as area source emissions in the NEI. However, in this document these categories are classified as nonroad sources. Therefore, the emissions for rail and commercial marine sources are not included in the total area source emissions listed in Table B-5. The source classification codes for the rail and marine categories are listed in Table B-7, and the emissions from these categories are listed in Table B-18, to be included as nonroad source emissions.

Table B-5 2011 Area Source Emissions Inventory Summary for the Missouri Portion of the St. Louis Ozone Nonattainment Area (tons/ozone season day)

County Name	CO	NO _x	VOC
Franklin County	3.03	0.49	3.36
Jefferson County	8.14	0.62	7.48
St. Charles County	1.35	0.68	11.21
St. Louis County	4.72	2.65	38.68
St. Louis City	1.76	1.16	12.04
Totals	19.01	5.6	72.77

Table B-6 displays the 2011 area source emissions for each area source SCC for all counties in the St. Louis ozone nonattainment area, and emissions are listed in tons/ozone season day.

Table B-6 2011 Area Source Emissions by SCC in the Missouri Portion of the St. Louis Ozone Nonattainment Area (tons/ozone season day)

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29071	2102001000	-	-	-
29071	2102002000	-	-	-
29071	2102004001	0.00065109	0.00260436	0.00002604
29071	2102004002	0.01692835	0.07865169	0.00002604
29071	2102005000	0.00019938	0.00219312	0.00001117
29071	2102006000	0.08728063	0.10390532	0.00571478
29071	2102007000	0.00276066	0.00492900	0.00018012
29071	2102008000	0.05853911	0.02146432	0.00165861
29071	2102011000	0.00006221	0.00024896	0.00000245
29071	2103001000	-	-	-
29071	2103002000	-	-	-
29071	2103004001	0.00002561	0.00010243	0.00000174
29071	2103004002	0.00066581	0.00309346	0.00000174
29071	2103005000	0.00000766	0.00008428	0.00000173
29071	2103006000	0.04127141	0.04913260	0.00270230
29071	2103007000	0.00053562	0.00095632	0.00003495
29071	2103008000	0.01586826	0.00581836	0.00044960
29071	2103011000	0.00001540	0.00006191	0.00000106
29071	2104001000	-	-	-
29071	2104002000	-	-	-
29071	2104004000	0.00010197	0.00036710	0.00001428
29071	2104005000	-	-	-
29071	2104006000	0.00109833	0.00258109	0.00015102
29071	2104007000	0.02493118	0.08791523	0.00342273
29071	2104008100	0.08543520	0.00149081	0.01083708
29071	2104008210	0.05403906	0.00065559	0.01240931
29071	2104008220	0.01052131	0.00017037	0.00089670
29071	2104008230	0.00259569	0.00004973	0.00037294
29071	2104008310	0.04250494	0.00051566	0.00976065
29071	2104008320	0.00827087	0.00013393	0.00070490
29071	2104008330	0.00205373	0.00003934	0.00029508
29071	2104008400	0.00060969	0.00014571	0.00000157
29071	2104008510	0.01430807	0.00014350	0.00091958
29071	2104008610	0.03548389	0.00018149	0.00664337
29071	2104008700	0.00476583	0.00008316	0.00060452
29071	2104009000	0.00179320	0.00011016	0.00056715
29071	2104011000	0.00161684	0.00582064	0.00022636
29071	2294000000	-	-	-
29071	2296000000	-	-	-
29071	2302002100	0.00590727	-	0.00167782
29071	2302002200	0.01878814	-	0.00577278
29071	2302003000	-	-	0.00175467
29071	2302003100	0.00176568	-	0.00082712
29071	2302003200	-	-	0.00003223
29071	2306000000	0.02705168	0.01531366	0.00635429
29071	2310000220	-	-	-

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29071	2310000330	-	-	-
29071	2310000550	-	-	-
29071	2310000660	-	-	-
29071	2310010100	-	-	-
29071	2310010200	-	-	-
29071	2310010300	-	-	-
29071	2310011000	-	-	-
29071	2310011201	-	-	-
29071	2310011501	-	-	-
29071	2310011502	-	-	-
29071	2310011503	-	-	-
29071	2310011505	-	-	-
29071	2310021010	-	-	-
29071	2310021030	-	-	-
29071	2310021100	-	-	-
29071	2310021202	-	-	-
29071	2310021209	-	-	-
29071	2310021251	-	-	-
29071	2310021300	-	-	-
29071	2310021302	-	-	-
29071	2310021309	-	-	-
29071	2310021351	-	-	-
29071	2310021400	-	-	-
29071	2310021501	-	-	-
29071	2310021502	-	-	-
29071	2310021503	-	-	-
29071	2310021505	-	-	-
29071	2310021506	-	-	-
29071	2310021603	-	-	-
29071	2310111100	-	-	-
29071	2310111401	-	-	-
29071	2310111700	-	-	-
29071	2310121100	-	-	-
29071	2310121401	-	-	-
29071	2310121700	-	-	-
29071	2311010000	-	-	-
29071	2311020000	-	-	-
29071	2311030000	-	-	-
29071	2325000000	-	-	-
29071	2401001000	-	-	0.33250108
29071	2401005000	-	-	0.06712829
29071	2401008000	-	-	0.00064078
29071	2401015000	-	-	0.00190088
29071	2401020000	-	-	0.09282204
29071	2401025000	-	-	-
29071	2401030000	-	-	-
29071	2401055000	-	-	0.07068244
29071	2401065000	-	-	0.01283506

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29071	2401070000	-	-	0.03753027
29071	2401075000	-	-	0.00198384
29071	2401085000	-	-	-
29071	2401090000	-	-	0.02186568
29071	2401100000	-	-	0.08518882
29071	2401200000	-	-	0.00903977
29071	2415000000	-	-	0.26041724
29071	2420000000	-	-	0.00081378
29071	2425000000	-	-	0.11040604
29071	2460100000	-	-	0.26442169
29071	2460200000	-	-	0.25050505
29071	2460400000	-	-	0.18926990
29071	2460500000	-	-	0.13221071
29071	2460600000	-	-	0.07932637
29071	2460800000	-	-	0.24772145
29071	2460900000	-	-	0.00974184
29071	2461021000	-	-	0.10204574
29071	2461022000	-	-	0.05335358
29071	2461850001	-	-	0.06126745
29071	2461850002	-	-	0.00002423
29071	2461850003	-	-	0.00000110
29071	2461850004	-	-	0.00001597
29071	2461850005	-	-	0.08305866
29071	2461850006	-	-	0.01160460
29071	2461850009	-	-	0.00265993
29071	2461850051	-	-	0.00035547
29071	2461850052	-	-	0.00037314
29071	2461850053	-	-	0.00000805
29071	2461850054	-	-	0.00053851
29071	2461850055	-	-	0.00014434
29071	2461850056	-	-	0.00012626
29071	2461850099	-	-	0.00204767
29071	2501011011	-	-	0.04226469
29071	2501011012	-	-	0.08252025
29071	2501011013	-	-	0.00961821
29071	2501011014	-	-	0.00326636
29071	2501011015	-	-	0.00026893
29071	2501012011	-	-	0.00134994
29071	2501012012	-	-	0.00263571
29071	2501012013	-	-	0.01312072
29071	2501012014	-	-	0.00629500
29071	2501012015	-	-	0.00051744
29071	2501050120	-	-	0.01925845
29071	2501055120	-	-	0.01498555
29071	2501060051	-	-	-
29071	2501060052	-	-	-
29071	2501060053	-	-	0.05580918
29071	2501060101	-	-	0.05504129

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29071	2501060102	-	-	0.00614312
29071	2501060103	-	-	0.02720526
29071	2501060201	-	-	0.07894023
29071	2501070100	-	-	0.00911146
29071	2501080050	-	-	0.03158800
29071	2501080100	-	-	0.00163908
29071	2505030120	-	-	0.00516269
29071	2505040120	-	-	0.01636210
29071	2610000100	0.03937495	0.00217968	0.00984372
29071	2610000400	0.04921848	0.00175781	0.00667966
29071	2610000500	1.72144575	0.05092759	0.11814543
29071	2610030000	0.65315936	0.04610551	0.06577722
29071	2630020000	-	-	0.00524949
29071	2801000003	-	-	-
29071	2801700001	-	-	-
29071	2801700002	-	-	-
29071	2801700003	-	-	-
29071	2801700004	-	-	-
29071	2801700005	-	-	-
29071	2801700006	-	-	-
29071	2801700007	-	-	-
29071	2801700010	-	-	-
29071	2801700011	-	-	-
29071	2801700012	-	-	-
29071	2801700013	-	-	-
29071	2801700014	-	-	-
29071	2801700015	-	-	-
29071	2801700099	-	-	-
29071	2805001100	-	-	-
29071	2805001200	-	-	-
29071	2805001300	-	-	-
29071	2805002000	-	-	-
29071	2805003100	-	-	-
29071	2805007100	-	-	-
29071	2805007300	-	-	-
29071	2805009100	-	-	-
29071	2805009200	-	-	-
29071	2805009300	-	-	-
29071	2805010100	-	-	-
29071	2805010200	-	-	-
29071	2805010300	-	-	-
29071	2805018000	-	-	-
29071	2805019100	-	-	-
29071	2805019200	-	-	-
29071	2805019300	-	-	-
29071	2805021100	-	-	-
29071	2805021200	-	-	-
29071	2805021300	-	-	-

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29071	2805022100	-	-	-
29071	2805022200	-	-	-
29071	2805022300	-	-	-
29071	2805023100	-	-	-
29071	2805023200	-	-	-
29071	2805023300	-	-	-
29071	2805030000	-	-	-
29071	2805030007	-	-	-
29071	2805030008	-	-	-
29071	2805035000	-	-	-
29071	2805039100	-	-	-
29071	2805039200	-	-	-
29071	2805039300	-	-	-
29071	2805040000	-	-	-
29071	2805045000	-	-	-
29071	2805047100	-	-	-
29071	2805047300	-	-	-
29071	2805053100	-	-	-
29071	2810060100	0.00000027	0.00003373	0.00000027
29071	2810060200	-	-	-
Franklin County Total		3.03	0.49	3.36
29099	2102001000	-	-	-
29099	2102002000	-	-	-
29099	2102004001	0.00036290	0.00145161	0.00001452
29099	2102004002	0.00943542	0.04383850	0.00001452
29099	2102005000	0.00011113	0.00122239	0.00000622
29099	2102006000	0.04864802	0.05791438	0.00318528
29099	2102007000	0.00153872	0.00274730	0.00010039
29099	2102008000	0.03262832	0.01196366	0.00092447
29099	2102011000	0.00003467	0.00013877	0.00000137
29099	2103001000	-	-	-
29099	2103002000	-	-	-
29099	2103004001	0.00004011	0.00016045	0.00000273
29099	2103004002	0.00104294	0.00484567	0.00000273
29099	2103005000	0.00001200	0.00013202	0.00000271
29099	2103006000	0.06464841	0.07696255	0.00423293
29099	2103007000	0.00083901	0.00149801	0.00005474
29099	2103008000	0.02485635	0.00911401	0.00070427
29099	2103011000	0.00002412	0.00009697	0.00000166
29099	2104001000	-	-	-
29099	2104002000	-	-	-
29099	2104004000	0.00004840	0.00017426	0.00000678
29099	2104005000	-	-	-
29099	2104006000	0.00613115	0.01440821	0.00084303
29099	2104007000	0.03426766	0.12083853	0.00470451
29099	2104008100	0.18048709	0.00314944	0.02289401
29099	2104008210	0.11416064	0.00138497	0.02621535
29099	2104008220	0.02221003	0.00035965	0.00189291

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29099	2104008230	0.00548943	0.00010516	0.00078871
29099	2104008310	0.08978439	0.00108924	0.02061776
29099	2104008320	0.01747591	0.00028299	0.00148942
29099	2104008330	0.00430487	0.00008247	0.00061852
29099	2104008400	0.00127421	0.00030453	0.00000329
29099	2104008510	-	-	-
29099	2104008610	-	-	-
29099	2104008700	0.01014965	0.00017711	0.00128744
29099	2104009000	0.00373859	0.00022967	0.00118243
29099	2104011000	0.00076749	0.00276295	0.00010745
29099	2294000000	-	-	-
29099	2296000000	-	-	-
29099	2302002100	0.01273118	-	0.00361600
29099	2302002200	0.04049168	-	0.01244136
29099	2302003000	-	-	0.00378161
29099	2302003100	0.00380536	-	0.00178259
29099	2302003200	-	-	0.00006945
29099	2306000000	0.01271517	0.00590371	0.00145762
29099	2310000220	-	-	-
29099	2310000330	-	-	-
29099	2310000550	-	-	-
29099	2310000660	-	-	-
29099	2310010100	-	-	-
29099	2310010200	-	-	-
29099	2310010300	-	-	-
29099	2310011000	-	-	-
29099	2310011201	-	-	-
29099	2310011501	-	-	-
29099	2310011502	-	-	-
29099	2310011503	-	-	-
29099	2310011505	-	-	-
29099	2310021010	-	-	-
29099	2310021030	-	-	-
29099	2310021100	-	-	-
29099	2310021202	-	-	-
29099	2310021209	-	-	-
29099	2310021251	-	-	-
29099	2310021300	-	-	-
29099	2310021302	-	-	-
29099	2310021309	-	-	-
29099	2310021351	-	-	-
29099	2310021400	-	-	-
29099	2310021501	-	-	-
29099	2310021502	-	-	-
29099	2310021503	-	-	-
29099	2310021505	-	-	-
29099	2310021506	-	-	-
29099	2310021603	-	-	-

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29099	2310111100	-	-	-
29099	2310111401	-	-	-
29099	2310111700	-	-	-
29099	2310121100	-	-	-
29099	2310121401	-	-	-
29099	2310121700	-	-	-
29099	2311010000	-	-	-
29099	2311020000	-	-	-
29099	2311030000	-	-	-
29099	2325000000	-	-	-
29099	2401001000	-	-	0.71659848
29099	2401005000	-	-	0.09971866
29099	2401008000	-	-	0.00061183
29099	2401015000	-	-	0.00059636
29099	2401020000	-	-	0.06536062
29099	2401030000	-	-	-
29099	2401040000	-	-	-
29099	2401055000	-	-	0.00385821
29099	2401060000	-	-	0.00094264
29099	2401070000	-	-	0.00670343
29099	2401075000	-	-	0.00068017
29099	2401080000	-	-	0.00231385
29099	2401085000	-	-	-
29099	2401090000	-	-	0.03318437
29099	2401100000	-	-	0.18359711
29099	2401200000	-	-	0.01948226
29099	2415000000	-	-	0.17574452
29099	2420000000	-	-	0.00429678
29099	2425000000	-	-	0.01696415
29099	2460100000	-	-	0.56987479
29099	2460200000	-	-	0.53988044
29099	2460400000	-	-	0.40791024
29099	2460500000	-	-	0.28493671
29099	2460600000	-	-	0.17096257
29099	2460800000	-	-	0.53388266
29099	2460900000	-	-	0.02099536
29099	2461021000	-	-	0.18497901
29099	2461022000	-	-	0.09671446
29099	2461850001	-	-	0.01266586
29099	2461850002	-	-	0.00001304
29099	2461850003	-	-	0.00000039
29099	2461850004	-	-	0.00001065
29099	2461850005	-	-	0.01875520
29099	2461850006	-	-	0.00424734
29099	2461850009	-	-	0.00035986
29099	2461850051	-	-	0.00007349
29099	2461850052	-	-	0.00020092
29099	2461850053	-	-	0.00000288

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29099	2461850054	-	-	0.00035900
29099	2461850055	-	-	0.00003259
29099	2461850056	-	-	0.00002844
29099	2461850099	-	-	0.00065704
29099	2501011011	-	-	0.09220252
29099	2501011012	-	-	0.18002203
29099	2501011013	-	-	0.02098263
29099	2501011014	-	-	0.00712572
29099	2501011015	-	-	0.00058668
29099	2501012011	-	-	0.00294497
29099	2501012012	-	-	0.00574994
29099	2501012013	-	-	0.02862366
29099	2501012014	-	-	0.01373284
29099	2501012015	-	-	0.00112882
29099	2501050120	-	-	0.21850815
29099	2501055120	-	-	0.17002739
29099	2501060051	-	-	-
29099	2501060052	-	-	1.42813356
29099	2501060053	-	-	-
29099	2501060101	-	-	0.05317641
29099	2501060102	-	-	0.00959863
29099	2501060103	-	-	0.04220655
29099	2501060201	-	-	0.13931370
29099	2501070100	-	-	0.01080307
29099	2501080050	-	-	0.00430592
29099	2501080100	-	-	0.00022343
29099	2505030120	-	-	0.00911113
29099	2505040120	-	-	0.18564601
29099	2610000100	0.04608823	0.00255132	0.01152206
29099	2610000400	0.05761043	0.00205751	0.00781855
29099	2610000500	6.52981096	0.19323414	0.44831088
29099	2610030000	0.76452541	0.05396652	0.07699226
29099	2630020000	-	-	0.01132531
29099	2801000003	-	-	-
29099	2801700001	-	-	-
29099	2801700002	-	-	-
29099	2801700003	-	-	-
29099	2801700004	-	-	-
29099	2801700005	-	-	-
29099	2801700006	-	-	-
29099	2801700007	-	-	-
29099	2801700010	-	-	-
29099	2801700011	-	-	-
29099	2801700012	-	-	-
29099	2801700013	-	-	-
29099	2801700014	-	-	-
29099	2801700015	-	-	-
29099	2801700099	-	-	-

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29099	2805001100	-	-	-
29099	2805001200	-	-	-
29099	2805001300	-	-	-
29099	2805002000	-	-	-
29099	2805003100	-	-	-
29099	2805007100	-	-	-
29099	2805007300	-	-	-
29099	2805009100	-	-	-
29099	2805009200	-	-	-
29099	2805009300	-	-	-
29099	2805010100	-	-	-
29099	2805010200	-	-	-
29099	2805010300	-	-	-
29099	2805018000	-	-	-
29099	2805019100	-	-	-
29099	2805019200	-	-	-
29099	2805019300	-	-	-
29099	2805021100	-	-	-
29099	2805021200	-	-	-
29099	2805021300	-	-	-
29099	2805022100	-	-	-
29099	2805022200	-	-	-
29099	2805022300	-	-	-
29099	2805023100	-	-	-
29099	2805023200	-	-	-
29099	2805023300	-	-	-
29099	2805030000	-	-	-
29099	2805030007	-	-	-
29099	2805030008	-	-	-
29099	2805035000	-	-	-
29099	2805039100	-	-	-
29099	2805039200	-	-	-
29099	2805039300	-	-	-
29099	2805040000	-	-	-
29099	2805045000	-	-	-
29099	2805047100	-	-	-
29099	2805047300	-	-	-
29099	2805053100	-	-	-
29099	2810060100	-	-	-
29099	2810060200	0.00102184	0.00438520	0.00438520
Jefferson County Total		8.14	0.62	7.48
29183	2102001000	-	-	-
29183	2102002000	-	-	-
29183	2102004001	0.00084377	0.00337509	0.00003375
29183	2102004002	0.02193800	0.10192738	0.00003375
29183	2102005000	0.00025838	0.00284215	0.00001447
29183	2102006000	0.11310965	0.13465438	0.00740601
29183	2102007000	0.00357762	0.00638767	0.00023342

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29183	2102008000	0.07586267	0.02781632	0.00214944
29183	2102011000	0.00008062	0.00032264	0.00000318
29183	2103001000	-	-	-
29183	2103002000	-	-	-
29183	2103004001	0.00011374	0.00045497	0.00000773
29183	2103004002	0.00295728	0.01373998	0.00000773
29183	2103005000	0.00003403	0.00037434	0.00000769
29183	2103006000	0.18331261	0.21822809	0.01200257
29183	2103007000	0.00237903	0.00424763	0.00015522
29183	2103008000	0.07048081	0.02584297	0.00199696
29183	2103011000	0.00006838	0.00027496	0.00000470
29183	2104001000	-	-	-
29183	2104002000	-	-	-
29183	2104004000	0.00002513	0.00009047	0.00000352
29183	2104005000	-	-	-
29183	2104006000	0.01923700	0.04520700	0.00264510
29183	2104007000	0.02032828	0.07168394	0.00279082
29183	2104008100	0.29217606	0.00509839	0.03706139
29183	2104008210	0.18475023	0.00224133	0.04242529
29183	2104008220	0.03594174	0.00058201	0.00306322
29183	2104008230	0.00887858	0.00017009	0.00127566
29183	2104008310	0.14537138	0.00176360	0.03338254
29183	2104008320	0.02828517	0.00045803	0.00241066
29183	2104008330	0.00698619	0.00013384	0.00100376
29183	2104008400	0.00203926	0.00048737	0.00000526
29183	2104008510	-	-	-
29183	2104008610	-	-	-
29183	2104008700	0.01615356	0.00028187	0.00204901
29183	2104009000	0.00614573	0.00037755	0.00194377
29183	2104011000	0.00039845	0.00143444	0.00005578
29183	2294000000	-	-	-
29183	2296000000	-	-	-
29183	2302002100	0.02098176	-	0.00595941
29183	2302002200	0.06673269	-	0.02050407
29183	2302003000	-	-	0.00623231
29183	2302003100	0.00627147	-	0.00293781
29183	2302003200	-	-	0.00011446
29183	2306000000	0.01533395	0.00609568	0.00198253
29183	2310000220	-	-	-
29183	2310000330	-	-	-
29183	2310000550	-	-	-
29183	2310000660	-	-	-
29183	2310010100	-	-	-
29183	2310010200	-	-	-
29183	2310010300	-	-	-
29183	2310011000	-	-	-
29183	2310011201	-	-	-
29183	2310011501	-	-	-

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29183	2310011502	-	-	-
29183	2310011503	-	-	-
29183	2310011505	-	-	-
29183	2310021010	-	-	-
29183	2310021030	-	-	-
29183	2310021100	-	-	-
29183	2310021202	-	-	-
29183	2310021209	-	-	-
29183	2310021251	-	-	-
29183	2310021300	-	-	-
29183	2310021302	-	-	-
29183	2310021309	-	-	-
29183	2310021351	-	-	-
29183	2310021400	-	-	-
29183	2310021501	-	-	-
29183	2310021502	-	-	-
29183	2310021503	-	-	-
29183	2310021505	-	-	-
29183	2310021506	-	-	-
29183	2310021603	-	-	-
29183	2310111100	-	-	-
29183	2310111401	-	-	-
29183	2310111700	-	-	-
29183	2310121100	-	-	-
29183	2310121401	-	-	-
29183	2310121700	-	-	-
29183	2311010000	-	-	-
29183	2311020000	-	-	-
29183	2311030000	-	-	-
29183	2325000000	-	-	-
29183	2401001000	-	-	1.18099758
29183	2401005000	-	-	0.22151033
29183	2401008000	-	-	0.00077953
29183	2401015000	-	-	0.00059636
29183	2401020000	-	-	0.01595372
29183	2401025000	-	-	0.00364055
29183	2401030000	-	-	0.09965696
29183	2401055000	-	-	0.07616394
29183	2401070000	-	-	-
29183	2401075000	-	-	-
29183	2401080000	-	-	0.00231385
29183	2401085000	-	-	-
29183	2401090000	-	-	0.07572875
29183	2401100000	-	-	0.30257903
29183	2401200000	-	-	0.03210789
29183	2415000000	-	-	0.43155441
29183	2420000000	-	-	0.02447861
29183	2425000000	-	-	0.22891297

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29183	2460100000	-	-	0.93918756
29183	2460200000	-	-	0.88975599
29183	2460400000	-	-	0.67226063
29183	2460500000	-	-	0.46959378
29183	2460600000	-	-	0.28175545
29183	2460800000	-	-	0.87986940
29183	2460900000	-	-	0.03460169
29183	2461021000	-	-	0.20566873
29183	2461022000	-	-	0.10753179
29183	2461850001	-	-	0.12430224
29183	2461850002	-	-	0.00002153
29183	2461850003	-	-	0.00000164
29183	2461850004	-	-	0.00029907
29183	2461850005	-	-	0.14944619
29183	2461850006	-	-	0.00653914
29183	2461850009	-	-	0.00114552
29183	2461850051	-	-	0.00072120
29183	2461850052	-	-	0.00033166
29183	2461850053	-	-	0.00001196
29183	2461850054	-	-	0.01008191
29183	2461850055	-	-	0.00025972
29183	2461850056	-	-	0.00016288
29183	2461850099	-	-	0.00126899
29183	2501011011	-	-	0.18524808
29183	2501011012	-	-	0.36169010
29183	2501011013	-	-	0.04215718
29183	2501011014	-	-	0.01431663
29183	2501011015	-	-	0.00117873
29183	2501012011	-	-	0.00591687
29183	2501012012	-	-	0.01155247
29183	2501012013	-	-	0.05750896
29183	2501012014	-	-	0.02759140
29183	2501012015	-	-	0.00226797
29183	2501050120	-	-	0.11228889
29183	2501060051	-	-	-
29183	2501060052	-	-	2.18074843
29183	2501060053	-	-	-
29183	2501060101	-	-	0.01963606
29183	2501060102	-	-	0.01598858
29183	2501060103	-	-	0.07182518
29183	2501060201	-	-	0.21273088
29183	2501070100	-	-	0.01623079
29183	2501080050	-	-	0.07349534
29183	2501080100	-	-	0.00381362
29183	2505030120	-	-	0.01391258
29183	2505040120	-	-	0.09540133
29183	2610000500	-	-	-
29183	2630020000	-	-	0.01817882

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29183	2801000003	-	-	-
29183	2801700001	-	-	-
29183	2801700002	-	-	-
29183	2801700003	-	-	-
29183	2801700004	-	-	-
29183	2801700005	-	-	-
29183	2801700006	-	-	-
29183	2801700007	-	-	-
29183	2801700010	-	-	-
29183	2801700011	-	-	-
29183	2801700012	-	-	-
29183	2801700013	-	-	-
29183	2801700014	-	-	-
29183	2801700015	-	-	-
29183	2801700099	-	-	-
29183	2805001100	-	-	-
29183	2805001200	-	-	-
29183	2805001300	-	-	-
29183	2805002000	-	-	-
29183	2805003100	-	-	-
29183	2805007100	-	-	-
29183	2805007300	-	-	-
29183	2805018000	-	-	-
29183	2805019100	-	-	-
29183	2805019200	-	-	-
29183	2805019300	-	-	-
29183	2805021100	-	-	-
29183	2805021200	-	-	-
29183	2805021300	-	-	-
29183	2805022100	-	-	-
29183	2805022200	-	-	-
29183	2805022300	-	-	-
29183	2805023100	-	-	-
29183	2805023200	-	-	-
29183	2805023300	-	-	-
29183	2805030000	-	-	-
29183	2805030007	-	-	-
29183	2805030008	-	-	-
29183	2805035000	-	-	-
29183	2805039100	-	-	-
29183	2805039200	-	-	-
29183	2805039300	-	-	-
29183	2805040000	-	-	-
29183	2805045000	-	-	-
29183	2805047100	-	-	-
29183	2805047300	-	-	-
29183	2805053100	-	-	-
29183	2810060100	0.00055535	0.00067081	0.00001264

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29183	2810060200	0.00050489	0.00061952	0.00175573
St. Charles County Total		1.35	0.68	11.21
29189	2102001000	-	-	-
29189	2102002000	-	-	-
29189	2102004001	0.00311153	0.01244614	0.00012446
29189	2102004002	0.08089970	0.37587256	0.00012446
29189	2102005000	0.00095280	0.01048083	0.00005336
29189	2102006000	0.41710867	0.49655875	0.02731076
29189	2102007000	0.01319308	0.02355550	0.00086078
29189	2102008000	0.27975550	0.10257692	0.00792640
29189	2102011000	0.00029729	0.00118978	0.00001172
29189	2103001000	-	-	-
29189	2103002000	-	-	-
29189	2103004001	0.00054974	0.00219896	0.00003738
29189	2103004002	0.01429318	0.06640832	0.00003738
29189	2103005000	0.00016448	0.00180927	0.00003717
29189	2103006000	0.88598724	1.05474511	0.05801107
29189	2103007000	0.01149836	0.02052971	0.00075021
29189	2103008000	0.34064815	0.12490449	0.00965171
29189	2103011000	0.00033052	0.00132896	0.00002272
29189	2104001000	-	-	-
29189	2104002000	-	-	-
29189	2104004000	0.00004203	0.00015131	0.00000588
29189	2104005000	-	-	-
29189	2104006000	0.09277417	0.21801946	0.01275646
29189	2104007000	0.01388132	0.04895000	0.00190573
29189	2104008100	0.86590811	0.01510980	0.10983658
29189	2104008210	0.54757352	0.00664301	0.12574271
29189	2104008220	0.10655547	0.00172547	0.00908144
29189	2104008230	0.02632685	0.00050435	0.00378260
29189	2104008310	0.43080196	0.00522637	0.09892764
29189	2104008320	0.08384079	0.00135765	0.00714552
29189	2104008330	0.02073140	0.00039715	0.00297865
29189	2104008400	0.00641284	0.00153263	0.00001654
29189	2104008510	-	-	-
29189	2104008610	-	-	-
29189	2104008700	0.04716465	0.00082301	0.00598263
29189	2104009000	0.01852741	0.00113819	0.00585980
29189	2104011000	0.00066644	0.00239917	0.00009330
29189	2294000000	-	-	-
29189	2296000000	-	-	-
29189	2302002100	0.05814329	-	0.01651431
29189	2302002200	0.18492584	-	0.05681978
29189	2302003000	-	-	0.01727062
29189	2302003100	0.01737909	-	0.00814109
29189	2302003200	-	-	0.00031720
29189	2306000000	0.14881113	0.05267317	0.02399685
29189	2310000220	-	-	-

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29189	2310000330	-	-	-
29189	2310000550	-	-	-
29189	2310000660	-	-	-
29189	2310010100	-	-	-
29189	2310010200	-	-	-
29189	2310010300	-	-	-
29189	2310011000	-	-	-
29189	2310011201	-	-	-
29189	2310011501	-	-	-
29189	2310011502	-	-	-
29189	2310011503	-	-	-
29189	2310011505	-	-	-
29189	2310021010	-	-	-
29189	2310021030	-	-	-
29189	2310021100	-	-	-
29189	2310021202	-	-	-
29189	2310021209	-	-	-
29189	2310021251	-	-	-
29189	2310021300	-	-	-
29189	2310021302	-	-	-
29189	2310021309	-	-	-
29189	2310021351	-	-	-
29189	2310021400	-	-	-
29189	2310021501	-	-	-
29189	2310021502	-	-	-
29189	2310021503	-	-	-
29189	2310021505	-	-	-
29189	2310021506	-	-	-
29189	2310021603	-	-	-
29189	2310111100	-	-	-
29189	2310111401	-	-	-
29189	2310111700	-	-	-
29189	2310121100	-	-	-
29189	2310121401	-	-	-
29189	2310121700	-	-	-
29189	2311010000	-	-	-
29189	2311020000	-	-	-
29189	2311030000	-	-	-
29189	2325000000	-	-	-
29189	2401001000	-	-	3.27270462
29189	2401005000	-	-	1.04964312
29189	2401008000	-	-	0.00193489
29189	2401015000	-	-	0.01072641
29189	2401020000	-	-	0.31916569
29189	2401025000	-	-	0.20346329
29189	2401030000	-	-	0.04637228
29189	2401040000	-	-	-
29189	2401055000	-	-	0.18024117

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29189	2401065000	-	-	0.00080802
29189	2401070000	-	-	0.05329055
29189	2401075000	-	-	-
29189	2401085000	-	-	-
29189	2401090000	-	-	0.33588935
29189	2401100000	-	-	0.83848754
29189	2401200000	-	-	0.08897563
29189	2415000000	-	-	1.23471659
29189	2420000000	-	-	0.13137720
29189	2425000000	-	-	1.00894989
29189	2460100000	-	-	2.60261371
29189	2460200000	-	-	2.46564126
29189	2460400000	-	-	1.86292956
29189	2460500000	-	-	1.30130823
29189	2460600000	-	-	0.78078549
29189	2460800000	-	-	2.43824403
29189	2460900000	-	-	0.09588593
29189	2461021000	-	-	0.87810154
29189	2461022000	-	-	0.45910650
29189	2461850001	-	-	0.01119310
29189	2461850002	-	-	0.00000430
29189	2461850003	-	-	0.00000003
29189	2461850004	-	-	0.00003822
29189	2461850005	-	-	0.02113680
29189	2461850006	-	-	0.00175799
29189	2461850009	-	-	0.00017836
29189	2461850051	-	-	0.00006494
29189	2461850052	-	-	0.00006621
29189	2461850053	-	-	0.00000020
29189	2461850054	-	-	0.00128831
29189	2461850055	-	-	0.00003673
29189	2461850056	-	-	0.00004738
29189	2461850099	-	-	0.00083307
29189	2501011011	-	-	1.06166334
29189	2501011012	-	-	2.07286257
29189	2501011013	-	-	0.24160438
29189	2501011014	-	-	0.08204937
29189	2501011015	-	-	0.00675532
29189	2501012011	-	-	0.03390977
29189	2501012012	-	-	0.06620779
29189	2501012013	-	-	0.32958679
29189	2501012014	-	-	0.15812674
29189	2501012015	-	-	0.01299781
29189	2501055120	-	-	0.45104512
29189	2501060051	-	-	-
29189	2501060052	-	-	9.79584085
29189	2501060053	-	-	-
29189	2501060101	-	-	0.03406143

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29189	2501060102	-	-	0.05246337
29189	2501060103	-	-	0.23228685
29189	2501060201	-	-	0.95557928
29189	2501070100	-	-	0.07193460
29189	2501080050	-	-	0.15149491
29189	2501080100	-	-	0.00786098
29189	2505030120	-	-	0.06249476
29189	2505040120	-	-	0.49247829
29189	2610000500	-	-	-
29189	2801000003	-	-	-
29189	2801700001	-	-	-
29189	2801700002	-	-	-
29189	2801700003	-	-	-
29189	2801700004	-	-	-
29189	2801700005	-	-	-
29189	2801700006	-	-	-
29189	2801700007	-	-	-
29189	2801700010	-	-	-
29189	2801700011	-	-	-
29189	2801700012	-	-	-
29189	2801700013	-	-	-
29189	2801700014	-	-	-
29189	2801700015	-	-	-
29189	2801700099	-	-	-
29189	2805001100	-	-	-
29189	2805001200	-	-	-
29189	2805001300	-	-	-
29189	2805002000	-	-	-
29189	2805007100	-	-	-
29189	2805007300	-	-	-
29189	2805010100	-	-	-
29189	2805010200	-	-	-
29189	2805010300	-	-	-
29189	2805030008	-	-	-
29189	2805035000	-	-	-
29189	2805039100	-	-	-
29189	2805039200	-	-	-
29189	2805039300	-	-	-
29189	2805045000	-	-	-
29189	2805047100	-	-	-
29189	2805047300	-	-	-
29189	2805053100	-	-	-
29189	2810060100	0.00047445	0.00057290	0.00004690
29189	2810060200	0.00011793	0.00014261	0.00001179
St. Louis County Total		4.72	2.65	38.68
29510	2102001000	-	-	-
29510	2102002000	-	-	-
29510	2102004001	0.00151400	0.00605599	0.00006056

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29510	2102004002	0.03936390	0.18289080	0.00006056
29510	2102005000	0.00046361	0.00509972	0.00002596
29510	2102006000	0.20295573	0.24161371	0.01328876
29510	2102007000	0.00641944	0.01146154	0.00041883
29510	2102008000	0.13612232	0.04991158	0.00385681
29510	2102011000	0.00014466	0.00057892	0.00000570
29510	2103001000	-	-	-
29510	2103002000	-	-	-
29510	2103004001	0.00023524	0.00094095	0.00001600
29510	2103004002	0.00611618	0.02841664	0.00001600
29510	2103005000	0.00007038	0.00077420	0.00001591
29510	2103006000	0.37912104	0.45133433	0.02482333
29510	2103007000	0.00492026	0.00878484	0.00032102
29510	2103008000	0.14576641	0.05344772	0.00413005
29510	2103011000	0.00014143	0.00056867	0.00000972
29510	2104001000	-	-	-
29510	2104002000	-	-	-
29510	2104004000	0.00003364	0.00012111	0.00000471
29510	2104005000	-	-	-
29510	2104006000	0.03397340	0.07983745	0.00467134
29510	2104007000	0.00702414	0.02476935	0.00096433
29510	2104008100	0.28701628	0.00500833	0.03640664
29510	2104008210	0.18152988	0.00220227	0.04168564
29510	2104008220	0.03531524	0.00057187	0.00300983
29510	2104008230	0.00873291	0.00016730	0.00125473
29510	2104008310	0.14282039	0.00173266	0.03279677
29510	2104008320	0.02781386	0.00045040	0.00237051
29510	2104008330	0.00687006	0.00013161	0.00098708
29510	2104008400	0.00232518	0.00055570	0.00000600
29510	2104008510	-	-	-
29510	2104008610	-	-	-
29510	2104008700	0.01477276	0.00025778	0.00187386
29510	2104009000	0.00650068	0.00039935	0.00205601
29510	2104011000	0.00053340	0.00192026	0.00007468
29510	2294000000	-	-	-
29510	2296000000	-	-	-
29510	2302002100	0.01858426	-	0.00527845
29510	2302002200	0.05910754	-	0.01816118
29510	2302003000	-	-	0.00552017
29510	2302003100	0.00555484	-	0.00260213
29510	2302003200	-	-	0.00010139
29510	2310000220	-	-	-
29510	2310000330	-	-	-
29510	2310000550	-	-	-
29510	2310000660	-	-	-
29510	2310010100	-	-	-
29510	2310010200	-	-	-
29510	2310010300	-	-	-

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29510	2310011000	-	-	-
29510	2310011201	-	-	-
29510	2310011501	-	-	-
29510	2310011502	-	-	-
29510	2310011503	-	-	-
29510	2310011505	-	-	-
29510	2310021010	-	-	-
29510	2310021030	-	-	-
29510	2310021100	-	-	-
29510	2310021202	-	-	-
29510	2310021209	-	-	-
29510	2310021251	-	-	-
29510	2310021300	-	-	-
29510	2310021302	-	-	-
29510	2310021309	-	-	-
29510	2310021351	-	-	-
29510	2310021400	-	-	-
29510	2310021501	-	-	-
29510	2310021502	-	-	-
29510	2310021503	-	-	-
29510	2310021505	-	-	-
29510	2310021506	-	-	-
29510	2310021603	-	-	-
29510	2310111100	-	-	-
29510	2310111401	-	-	-
29510	2310111700	-	-	-
29510	2310121100	-	-	-
29510	2310121401	-	-	-
29510	2310121700	-	-	-
29510	2311010000	-	-	-
29510	2311020000	-	-	-
29510	2311030000	-	-	-
29510	2325000000	-	-	-
29510	2401001000	-	-	1.04605023
29510	2401005000	-	-	0.09662132
29510	2401008000	-	-	0.00045771
29510	2401015000	-	-	0.01025119
29510	2401020000	-	-	0.27436655
29510	2401025000	-	-	0.14408253
29510	2401030000	-	-	0.00066412
29510	2401055000	-	-	0.03977631
29510	2401065000	-	-	0.01283506
29510	2401070000	-	-	0.01916638
29510	2401075000	-	-	0.00011336
29510	2401080000	-	-	0.04647287
29510	2401085000	-	-	-
29510	2401090000	-	-	0.12411979
29510	2401100000	-	-	0.26800366

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29510	2401200000	-	-	0.02843909
29510	2415000000	-	-	0.66642649
29510	2420000000	-	-	0.03554606
29510	2425000000	-	-	0.35986250
29510	2460100000	-	-	0.83187077
29510	2460200000	-	-	0.78808730
29510	2460400000	-	-	0.59544416
29510	2460500000	-	-	0.41593470
29510	2460600000	-	-	0.24956164
29510	2460800000	-	-	0.77933061
29510	2460900000	-	-	0.03064788
29510	2461021000	-	-	0.31800595
29510	2461022000	-	-	0.16626630
29510	2501011011	-	-	0.16442673
29510	2501011012	-	-	0.32103853
29510	2501011013	-	-	0.03741875
29510	2501011014	-	-	0.01270749
29510	2501011015	-	-	0.00104624
29510	2501012011	-	-	0.00525182
29510	2501012012	-	-	0.01025400
29510	2501012013	-	-	0.05104497
29510	2501012014	-	-	0.02449008
29510	2501012015	-	-	0.00201305
29510	2501055120	-	-	0.46757670
29510	2501060051	-	-	-
29510	2501060052	-	-	2.50389866
29510	2501060053	-	-	-
29510	2501060101	-	-	0.00778860
29510	2501060102	-	-	0.01349293
29510	2501060103	-	-	0.05942923
29510	2501060201	-	-	0.24425415
29510	2501070100	-	-	0.02114784
29510	2501080050	-	-	0.00199212
29510	2501080100	-	-	0.00010337
29510	2505030120	-	-	0.01597421
29510	2505040120	-	-	0.51052646
29510	2610000500	-	-	-
29510	2801000003	-	-	-
29510	2801700001	-	-	-
29510	2801700002	-	-	-
29510	2801700003	-	-	-
29510	2801700004	-	-	-
29510	2801700005	-	-	-
29510	2801700006	-	-	-
29510	2801700007	-	-	-
29510	2801700010	-	-	-
29510	2801700011	-	-	-
29510	2801700012	-	-	-

County FIPS	SCC	2011 CO Emissions (tons/ozone season day)	2011 NO _x Emissions (tons/ozone season day)	2011 VOC Emissions (tons/ozone season day)
29510	2801700013	-	-	-
29510	2801700014	-	-	-
29510	2801700015	-	-	-
29510	2801700099	-	-	-
29510	2810060100	0.00029125	0.00035131	0.00002934
29510	2810060200	0.00013438	0.00261330	0.00532313
St. Louis City Total		1.76	1.16	12.04
Grand Total		19.01	5.60	72.77

Table B-7 SCC Codes and Descriptions for Commercial Marine, Aircraft, and Rail Categories Not Included in the Total Area Source Emissions

SCC	SCC Level One	SCC Level Two	SCC Level Three	SCC Level Four
2280002100	Mobile Sources	Diesel	Marine Vessels, Commercial	Port emissions
2280002200	Mobile Sources	Diesel	Marine Vessels, Commercial	Underway emissions
2285002006	Mobile Sources	Diesel	Railroad Equipment	Line Haul Locomotives: Class I Operations
2285002007	Mobile Sources	Diesel	Railroad Equipment	Line Haul Locomotives: Class II / III Operations
28500201	Internal Combustion Engines	Railroad Equipment	Diesel	Yard Locomotives
2275001000	Mobile Sources	Military Aircraft	Aircraft	Total
2275020000	Mobile Sources	Commercial Aircraft	Aircraft	Total: All Types
2275050011	Mobile Sources	General Aviation	Aircraft	Piston
2275050012	Mobile Sources	General Aviation	Aircraft	Turbine
2275060011	Mobile Sources	Air Taxi	Aircraft	Piston
2275060012	Mobile Sources	Air Taxi	Aircraft	Turbine
2275070000	Mobile Sources	Aircraft Auxiliary Power Units	Aircraft	Total

B-4 2011 Onroad Mobile Source Emissions

Onroad mobile source emissions were estimated using EPA's MOVES model. The air program updated the MOVES county input databases for the St. Louis nonattainment area counties with local activity data. These updates more accurately reflect Missouri emissions than the data in the 2011 County Databases provided by EPA. The air program updated the following Input Tables using local activity data.

hpmsvtypeyear (VMT data): This table was updated for all five nonattainment area counties. Vehicle miles traveled (VMT) data by county for the State of Missouri was provided by the Missouri Department of Transportation (MoDOT). This county data for the St. Louis nonattainment area was also provided to, and used by, the East/West Gateway Council of Governments, the St. Louis metro area's designated planning organization for Transportation Conformity Purposes. The VMT was distributed to the Vehicle Source Type using a Statewide VMT-Vehicle distribution provided by MoDOT.

roadtypedistribution: This table was updated for all five nonattainment area counties. VMT distribution by road type for the State of Missouri was provided by MoDOT. The same MOVES road type distribution table was used for each county in MoDOT's St. Louis District, which includes all of the Missouri counties in the St. Louis nonattainment area.

sourcetypeagedistribution: This table was updated for all five nonattainment area counties. A list of Vehicle Identification Numbers (VINs), by county, was provided by the Missouri Department of Revenue (DOR). The VINs were decoded into model year and MOBILE6 vehicle classes by ESP Data Solutions, Inc, a private contractor. One specific age distribution input was created to be used for all five nonattainment area counties. This age distribution input was converted to the MOVES format using the EPA provided Mobile6 to MOVES conversion excel workbook.

sourcetypeyear (vehicle populations): This table was updated for all five Missouri counties in the St. Louis nonattainment area. A list of Vehicle Identification Numbers (VINs), by county, was provided by the DOR. The VINs were decoded into model year and MOBILE6 vehicle classes by ESP Data Solutions, Inc, a private contractor. Mobile6 vehicle population counts were created for each county. These county vehicle populations were converted to the MOVES format using the EPA provided Mobile6 to MOVES conversion excel workbook.

imcoverage: This table was updated for all five Missouri counties in the St. Louis nonattainment area. IM data was provided by the air program's I/M Program. The air program used EPA technical guidance on appropriate input assumptions and sources of data for the use of MOVES 2010 in State Implementation Plan (<http://www.epa.gov/otaq/models/moves/420b10023.pdf>). Section 3.10 of this guidance document explains the appropriate assumptions and methods to be used when developing the I/M input table for MOVES 2010. This guidance was followed in the development of the I/M input tables. The following outlines the approach used to develop each parameter of these I/M input tables in MOVES.

Pollutant Process ID

To begin development of the I/M input table, the default data for the I/M input table for St. Louis County was exported from the MOVES county database manager. The default data included four different I/M test types. However, the actual St. Louis area only had two different test types (On-board diagnostics) OBD tests for the exhaust and evaporative systems. In the default I/M input table, these were the only two types of tests that were “turned on” along with the appropriate pollutant process IDs that would be impacted by each test. Therefore, the pollutant process IDs that were included in the default table for the two OBD tests were the same pollutant process IDs used in the I/M input table for the five Missouri counties in the St. Louis nonattainment area. The other two tests included in the default data along with their associated pollutant process IDs were still included in the I/M input table, but they were “turned off”.

Source Type ID

The St. Louis I/M program includes passenger cars and also trucks with a gross vehicle weight rating of 8,500 lbs. or less. Therefore, the three source type IDs included in the I/M input table for the St. Louis nonattainment area are passenger cars, passenger trucks, and light commercial trucks (IDs = 21, 31, and 32).

Inspection Frequency

The St. Louis I/M program requires that emission be tested every two years, so the inspection frequency ID that represents biennial tests (ID = 2) was used in the I/M input table for the OBD tests applicable to the Missouri counties in the St. Louis nonattainment area.

Test Standards

The St. Louis I/M program is a centralized program with OBD tests for exhaust and evaporative systems on the vehicles. Therefore, the test standard IDs for exhaust OBD check and the evaporative system OBD check (IDs = 43 and 51) were used in the I/M input table for the Missouri counties in the St. Louis nonattainment area.

I/M Program ID

This is an arbitrary number developed by the MOVES user to define a unique test given for vehicles within a range of model years. Therefore, I/M program IDs were arbitrarily assigned to the various unique tests within the St. Louis I/M program.

Beginning and Ending Model Years

The St. Louis I/M program applies to gasoline vehicles with a model year of 1996 or later and it also applies to diesel vehicles with a model year of 1997 or later. Since the emissions inspection is required biennially, the ending model year would always be two years less than the emissions inventory year that is being developed. Therefore, for the tests for gasoline vehicles, the beginning model year is 1996 and the ending model year is two years earlier than the year for which MOVES is being run, and for diesel vehicles the beginning model year is 1997 and the ending model year is two years earlier than the year for which MOVES is being run.

Compliance Factor

According to page 39 of the MOVES guidance document the compliance factor is calculated with the following equation:

Compliance Factor = percent compliance rate x (100 – percent waiver rate) x regulatory class coverage adjustment.

Therefore, in order to calculate the compliance factor for each source type included in the I/M program, the compliance rate, waiver rate, and regulatory class coverage adjustment needed to be determined. These three values were determined by the processes described below and then the compliance factors for each source type were calculated with the equation written above.

Compliance Rate

The compliance rate was calculated with the following equation:

Compliance Rate = Number of vehicles that were tested over a two year period (2010 – 2011) / Population of vehicles that is theoretically subject to I/M during the same period.

In order to determine the compliance rate, as it compares to the source type population by model year, the population of vehicles that is theoretically subject to I/M first needed to be determined. In May 2012, the Missouri Department of Revenue (DOR) Vehicle Registration database was queried and a VIN decoder was used to separate the vehicle counts into Mobile 6.2 vehicle classes by model year. In the St. Louis nonattainment area, the Mobile 6.2 vehicle classes that are subject to I/M include 1996 and newer light duty gasoline vehicles, light duty gasoline trucks Class 1, light duty gasoline trucks Class 2, light duty gasoline trucks Class 3, light duty gasoline trucks Class 4, as well as 1997 and newer light duty diesel vehicles, light duty diesel trucks Class 1, light duty diesel trucks Class 2, light duty diesel trucks Class 3, and light duty diesel trucks Class 4. Table B-8 shows the total combined population of these 10 vehicle classes within the appropriate model years for the Missouri counties of the St. Louis nonattainment area according to the May 2012 DOR data.

Table B-8 Vehicles Theoretically Subject to the I/M Program in the St. Louis Nonattainment Area

County	Light Duty Gas (1996 and newer)	Light Duty Diesel (1997 and newer)
Franklin	74,904	398
Jefferson	158,322	553
St Charles	270,453	854
St Louis City	143,503	517
St Louis County	792,960	2,352
Total	1,440,142	4,674
Total Count	1,444,816	

The air program also queried the I/M report generator to determine the total number of vehicles, which had their emissions tested at least once from January 1, 2010 through December 31, 2011. The query also included the total number of vehicles that received waivers during the same time period. Table B-9 was generated with data from this query.

Table B-9 Initially Tested Vehicles that Received a Waiver in the St. Louis I/M Program from January 1, 2010 through December 31, 2011

Model Year	Passenger Car			Truck			Total Initially Tested		
	Test Count	Waivers	% Waivers	Test Count	Waivers	% Waivers	Test Count	Waivers	% Waivers
1996	32015	295	0.92 %	10024	75	0.75 %	42039	370	0.88 %
1997	40698	156	0.38 %	12314	34	0.28 %	53012	190	0.36 %
1998	52841	236	0.45 %	15709	72	0.46 %	68550	308	0.45 %
1999	63520	139	0.22 %	17052	28	0.16 %	80572	167	0.21 %
2000	78614	318	0.40 %	19769	67	0.34 %	98383	385	0.39 %
2001	80007	270	0.34 %	18769	39	0.21 %	98776	309	0.31 %
2002	97599	314	0.32 %	21911	62	0.28 %	119510	376	0.31 %
2003	90007	134	0.15 %	20853	18	0.09 %	110860	152	0.14 %
2004	99537	161	0.16 %	22613	34	0.15 %	122150	195	0.16 %
2005	103390	66	0.06 %	19223	11	0.06 %	122613	77	0.06 %
2006	101753	116	0.11 %	18218	18	0.10 %	119971	134	0.11 %
2007	113181	30	0.03 %	19128	4	0.02 %	132309	34	0.03 %
2008	109592	64	0.06 %	16640	14	0.08 %	126232	78	0.06 %
2009	82184	29	0.04 %	8984	0	0.00 %	91168	29	0.03 %
2010	27720	19	0.07 %	2918	3	0.10 %	30638	22	0.07 %
2011	7060	0	0.00 %	467	0	0.00 %	7527	0	0.00 %
2012	124	0	0.00 %	2	0	0.00 %	126	0	0.00 %
Total	1179842	2347	0.20 %	244594	479	0.20 %	1424436	2826	0.20 %

Using the data from Tables B-8 and B-9, the compliance rate is calculated for the St. Louis I/M Program with the following equation:

$$\text{Compliance Rate: } (1,424,436 / 1,444,816) \times 100\% = 98.59\%$$

Waiver Rate

The waiver rate is the percentage of vehicles that fail an initial I/M test and do not pass a retest, but do receive a certificate of compliance. The waiver rate was determined by dividing the number of vehicles that received waivers from January 1, 2010 through December 31, 2011 by the total number of vehicles that were tested at least once during the same time period. Therefore, the waiver rate was calculated for the St. Louis I/M Program with the following equation:

$$\text{Waiver Rate: } (2,826 / 1,444,816) \times 100\% = 0.20\%$$

Regulatory Class Coverage Adjustment

The regulatory class coverage adjustment is an adjustment that accounts for the fraction of vehicles within a source type that are covered by the I/M program. Since the I/M program in St. Louis exempts vehicles with a gross vehicle weight rating above 8,500 lbs., the compliance factor needs to reflect the percentage of vehicles in the source types subject to I/M that are exempt because of their GVWR. Table A.3 in the Appendix of the MOVES Technical Guidance

Document was used to develop adjustments to the compliance factor to account for this discrepancy. The adjustments are percentages of vehicle miles traveled by the various regulatory weight classes within a source type. The corresponding adjustment factors used for the three source categories are as follow:

- Passenger cars: 100%
- Passenger Trucks: 94%
- Light Commercial Trucks: 88%

Calculating the Compliance Factor

Based on the calculations listed above the compliance factor for each source category impacted by the I/M program in St. Louis is listed below.

- Passenger cars: $98.59\% \times (100\% - 0.20\%) \times 100\% = \mathbf{98.39\%}$
- Passenger Trucks: $98.59\% \times (100\% - 0.20\%) \times 94\% = \mathbf{92.49\%}$
- Light Commercial Trucks: $98.59\% \times (100\% - 0.20\%) \times 88\% = \mathbf{86.59\%}$

All other MOVES input tables used to develop the 2011 onroad mobile source emissions for the Missouri counties in the St. Louis nonattainment area were MOVES default tables.

Once MOVES input tables had been created, the MOVES model runs were set up selecting all available gasoline and diesel fuel vehicle type combinations, all months, days, hours, and all road types. A separate run was set-up for each pollutant and each county. All pollutant processes were selected in each run, except for the VOC emissions from MOVES emission processes 18 and 19 (refueling displacement emissions, and refueling evaporative emissions), which are classified as area source emissions, and are not included in the mobile source emissions inventory (stage II onroad refueling VOC emissions are included in Appendix B-3). The emissions were post aggregated to the month level using MOVES and the emissions from the high ozone season months (June – August) were totaled and divided by 92, the number of days in those months, to give average ozone season day emissions.

Table B-10 summarizes the 2011 ozone season day onroad emissions by county as calculated using MOVES for the Missouri counties located in the St. Louis ozone nonattainment area. Tables B-11 through B-15 provide data used to develop all of the non-default MOVES inputs that were used to create the 2011 onroad mobile source emissions inventory that is summarized in Table B-10.

Table B-10 2011 Onroad Mobile Source Emissions by County in the St. Louis Ozone Nonattainment Area (tons/ozone season day)

County Name	CO	NO _x	VOC
Franklin County	21.18	7.83	2.40
Jefferson County	34.91	12.45	4.24
St. Charles County	56.63	21.04	6.73
St. Louis County	176.34	66.34	20.17
St. Louis City	42.14	16.55	4.46
Totals	331.20	124.20	38.00

Table B-11 2011 Source Type Population

YearID	SourceTypeName	SourceTypeID	Source Type Population by County				
			Franklin	Jefferson	St Charles	St Louis County	St Louis City
2011	Motorcycle	11	3,368	7,328	8,815	14,976	2,508
2011	Passenger Car	21	37,915	83,796	145,332	481,522	98,950
2011	Passenger Truck	31	41,877	77,459	113,499	293,099	51,907
2011	Light Commercial Truck	32	15,212	26,534	36,424	93,509	17,566
2011	Refuse Truck	41	12	44	40	77	28
2011	Single Unit Short-haul Truck	42	36	132	121	230	83
2011	Single Unit Long-haul Truck	43	258	490	507	1,994	322
2011	Motor Home	51	21	17	16	46	16
2011	School Bus	52	685	746	828	2,951	984
2011	Transit Bus	53	51	55	61	223	73
2011	Intercity Bus	54	39	62	74	309	111
2011	Combination Short-haul Truck	61	349	284	273	696	241
2011	Combination Long-haul Truck	62	287	223	211	461	160

Table B-12 2011 Annual VMT by HPMS Vehicle Type

HPMSVtypeID	HPMSVtypeName	YearID	HPMSBaseYearVMT by County				
			Franklin	Jefferson	St. Charles	St. Louis	St. Louis City
10	Motorcycles	2011	9,402,900	14,491,100	24,790,800	80,646,400	20,723,500
20	Passenger Cars	2011	665,927,000	1,026,280,000	1,755,720,000	5,711,490,000	1,467,660,000
30	Other 2 axle-4 tire vehicles	2011	255,497,000	393,754,000	673,620,000	2,191,340,000	563,101,000
40	Buses	2011	4,851,600	7,476,950	12,791,300	41,611,000	10,692,600
50	Single Unit Trucks	2011	43,124,400	66,460,400	113,698,000	369,868,000	95,043,800
60	Combination Trucks	2011	121,424,000	187,130,000	320,135,000	1,041,420,000	267,612,000

Table B-13 Age Distribution by Source Type

AgeID	Source Type ID												
	11	21	31	32	41	42	43	51	52	53	54	61	62
0	0.0437	0.0634	0.0754994	0.0730922	0.0353	0.0353	0.0131157	0.0699563	0.0722387	0.0712437	0.0767933	0.070089	0.0700695
1	0.0377	0.0543	0.055495	0.05233	0.0254	0.0254	0.00556123	0.0345334	0.0348023	0.0353845	0.0333208	0.0341839	0.0337198
2	0.0786	0.0517	0.0378512	0.0368159	0.0128	0.0128	0.0369075	0.0335694	0.0353931	0.0354001	0.0367028	0.0332622	0.0327233
3	0.0928	0.0676	0.0657843	0.0659449	0.0177	0.0177	0.0674814	0.0450761	0.046131	0.0463597	0.0462448	0.0447794	0.0443175
4	0.0883	0.067	0.0606961	0.0604728	0.0389	0.0389	0.102261	0.130919	0.125325	0.126948	0.11659	0.130993	0.131549
5	0.0922	0.0667	0.0729758	0.0731956	0.0358	0.0358	0.0583784	0.069198	0.0760405	0.0767451	0.0789749	0.0676988	0.0652376
6	0.0702	0.0625	0.0746245	0.0731668	0.0221	0.0221	0.101702	0.0745635	0.072262	0.0733365	0.0674894	0.0743837	0.0743462
7	0.0624	0.0663	0.06945	0.0698834	0.0483	0.0483	0.117222	0.0655977	0.0568399	0.0578963	0.0474337	0.0664944	0.0683516
8	0.0666	0.0585	0.0671688	0.0671701	0.0568	0.0568	0.0751798	0.0647841	0.0548821	0.0562506	0.043743	0.0657076	0.0676931
9	0.0647	0.0693	0.0725558	0.071398	0.0257	0.0257	0.03851	0.0359123	0.0390661	0.0404876	0.0372438	0.0346524	0.0327981
10	0.0447	0.0573	0.0570976	0.0580126	0.032	0.032	0.0454963	0.0464053	0.0473284	0.0470494	0.0488094	0.0463963	0.046309
11	0.0421	0.0619	0.0530737	0.0546137	0.0419	0.0419	0.0647217	0.0760194	0.0616443	0.0612408	0.0523838	0.078603	0.0830581
12	0.0294	0.0464	0.0425809	0.0442593	0.0274	0.0274	0.0364442	0.0462603	0.0403742	0.039892	0.0374992	0.0474828	0.0495153
13	0.0258	0.0432	0.0376641	0.0367205	0.0202	0.0202	0.0250172	0.0329887	0.0300616	0.0298984	0.0284107	0.0335568	0.0345171
14	0.0176	0.0317	0.0276796	0.0292686	0.0193	0.0193	0.0226796	0.0286598	0.0346049	0.034717	0.0385967	0.0276185	0.0258107
15	0.0195	0.0282	0.0245116	0.0254385	0.0347	0.0347	0.0287746	0.0203365	0.025282	0.0252651	0.0289182	0.0195287	0.0180985
16	0.0137	0.0234	0.0181966	0.0194762	0.0301	0.0301	0.02054	0.0211695	0.0239684	0.0233927	0.0276531	0.0210102	0.0205771
17	0.0137	0.0203	0.0182143	0.0188362	0.0464	0.0464	0.0161092	0.0154848	0.0138635	0.0137987	0.012868	0.0157885	0.0163062
18	0.0108	0.0128	0.0110033	0.0112755	0.0459	0.0459	0.0104185	0.0128252	0.0138876	0.0137768	0.014966	0.0127116	0.0124797
19	0.0085	0.0125	0.0106089	0.0107185	0.0288	0.0288	0.00957892	0.00960533	0.00866861	0.00870015	0.00789284	0.0097454	0.0099997
20	0.0057	0.0078	0.00699207	0.00710837	0.0518	0.0518	0.00899488	0.00894388	0.0111119	0.0112144	0.0123824	0.00853451	0.00783743
21	0.0069	0.0074	0.00701561	0.00722442	0.0639	0.0639	0.0147649	0.00980085	0.014371	0.0134822	0.0202525	0.00950936	0.00876332
22	0.0051	0.0048	0.00708294	0.00720967	0.0392	0.0392	0.0162974	0.0107765	0.013405	0.0125415	0.0177943	0.0107962	0.0106038
23	0.0055	0.0043	0.00968463	0.00942128	0.0603	0.0603	0.00219043	0.00872934	0.0105431	0.00994061	0.0135956	0.00874497	0.00861485
24	0.00593137	0.00385208	0.0117369	0.0112228	0.0927574	0.0927574	0.000937131	0.00736488	0.00869688	0.00808993	0.0114157	0.00746131	0.0074733
25	0.00639658	0.00345083	0.00284412	0.00302786	0.0465426	0.0465426	0.000774663	0.00416412	0.00658159	0.00599327	0.0100354	0.00407108	0.00375386
26	0.00689827	0.00309136	0.000595516	0.000777315	0	0	0.000717907	0.00269594	0.0053876	0.00479226	0.00906118	0.00256107	0.00216833
27	0.00743931	0.000305728	0.000342063	0.000471563	0	0	0.000476073	0.00162332	0.00320526	0.00274239	0.00569006	0.0016031	0.00144695
28	0.00802279	0	0.000252993	0.000328952	0	0	0.0000259143	0.000789098	0.000543994	0.000526158	0.000416207	0.000839395	0.000923189
29	0.00865202	0	0.000202389	0.00023225	0	0	0.000012914	0.000548271	0.000356843	0.000350507	0.00023539	0.000583497	0.000643822
30	0.0104597	0	0.000519132	0.000886124	0	0	0.0587084	0.0106991	0.0131328	0.0125435	0.0165867	0.0106091	0.0102937

TableB-14 Inspection and Maintenance Data for 2011 (MOVES Inputs for 2011 Onroad Mobile Source Emissions)

Pol Process ID	State ID	Year ID	Source Type ID	Fuel Type ID	IM Program ID	Inspect Freq.	Test Standards ID	Beg Model Year ID	End Model Year ID	Use IM Y/N	Compliance Factor
101	29	2011	21	1	1	1	11	1971	1995	N	93.12
101	29	2011	21	1	10	2	51	1996	2009	Y	98.39
101	29	2011	31	1	1	1	11	1971	1995	N	93.12
101	29	2011	31	1	10	2	51	1996	2009	Y	92.49
101	29	2011	32	1	1	1	11	1971	1995	N	93.12
101	29	2011	32	1	10	2	51	1996	2009	Y	86.59
102	29	2011	21	1	1	1	11	1971	1995	N	93.12
102	29	2011	21	1	10	2	51	1996	2009	Y	98.39
102	29	2011	31	1	1	1	11	1971	1995	N	93.12
102	29	2011	31	1	10	2	51	1996	2009	Y	92.49
102	29	2011	32	1	1	1	11	1971	1995	N	93.12
102	29	2011	32	1	10	2	51	1996	2009	Y	86.59
112	29	2011	21	1	7	1	41	1971	1995	N	93.12
112	29	2011	21	1	8	2	43	1996	2009	Y	98.39
112	29	2011	31	1	7	1	41	1971	1995	N	93.12
112	29	2011	31	1	8	2	43	1996	2009	Y	92.49
112	29	2011	32	1	7	1	41	1971	1995	N	93.12
112	29	2011	32	1	8	2	43	1996	2009	Y	86.59
113	29	2011	21	1	7	1	41	1971	1995	N	93.12
113	29	2011	21	1	8	2	43	1996	2009	Y	98.39
113	29	2011	31	1	7	1	41	1971	1995	N	93.12
113	29	2011	31	1	8	2	43	1996	2009	Y	92.49
113	29	2011	32	1	7	1	41	1971	1995	N	93.12
113	29	2011	32	1	8	2	43	1996	2009	Y	86.59
201	29	2011	21	1	1	1	11	1971	1995	N	93.12
201	29	2011	21	1	10	2	51	1996	2009	Y	98.39
201	29	2011	31	1	1	1	11	1971	1995	N	93.12
201	29	2011	31	1	10	2	51	1996	2009	Y	92.49
201	29	2011	32	1	1	1	11	1971	1995	N	93.12
201	29	2011	32	1	10	2	51	1996	2009	Y	86.59

Pol Process ID	State ID	Year ID	Source Type ID	Fuel Type ID	IM Program ID	Inspect Freq.	Test Standards ID	Beg Model Year ID	End Model Year ID	Use IM Y/N	Compliance Factor
202	29	2011	21	1	1	1	11	1971	1995	N	93.12
202	29	2011	21	1	10	2	51	1996	2009	Y	98.39
202	29	2011	31	1	1	1	11	1971	1995	N	93.12
202	29	2011	31	1	10	2	51	1996	2009	Y	92.49
202	29	2011	32	1	1	1	11	1971	1995	N	93.12
202	29	2011	32	1	10	2	51	1996	2009	Y	86.59
301	29	2011	21	1	10	2	51	1996	2009	Y	98.39
301	29	2011	31	1	10	2	51	1996	2009	Y	92.49
301	29	2011	32	1	10	2	51	1996	2009	Y	86.59
302	29	2011	21	1	10	2	51	1996	2009	Y	98.39
302	29	2011	31	1	10	2	51	1996	2009	Y	92.49
302	29	2011	32	1	10	2	51	1996	2009	Y	86.59

Table B-15 Road Type Distribution (Used for All Nonattainment Area Counties)

Source Type ID	Road Type ID	Road Type VMT Fraction
11	1	0
11	2	0.017287
11	3	0.074576
11	4	0.616846
11	5	0.291291
21	1	0
21	2	0.017287
21	3	0.074576
21	4	0.616846
21	5	0.291291
31	1	0
31	2	0.017287
31	3	0.074576
31	4	0.616846
31	5	0.291291
32	1	0
32	2	0.017287
32	3	0.074576
32	4	0.616846
32	5	0.291291
41	1	0
41	2	0.017287
41	3	0.074576
41	4	0.616846
41	5	0.291291
42	1	0
42	2	0.017287
42	3	0.074576
42	4	0.616846
42	5	0.291291
43	1	0
43	2	0.017287
43	3	0.074576
43	4	0.616846
43	5	0.291291

Source Type ID	Road Type ID	Road Type VMT Fraction
51	1	0
51	2	0.017287
51	3	0.074576
51	4	0.616846
51	5	0.291291
52	1	0
52	2	0.017287
52	3	0.074576
52	4	0.616846
52	5	0.291291
53	1	0
53	2	0.017287
53	3	0.074576
53	4	0.616846
53	5	0.291291
54	1	0
54	2	0.017287
54	3	0.074576
54	4	0.616846
54	5	0.291291
61	1	0
61	2	0.017287
61	3	0.074576
61	4	0.616846
61	5	0.291291
62	1	0
62	2	0.017287
62	3	0.074576
62	4	0.616846
62	5	0.291291

B-5 2011 Nonroad Source Emissions

The 2011 nonroad source emissions were calculated for the Missouri counties in the St. Louis nonattainment area using the NONROAD 2008a model. The NONROAD2008a model provides the emissions for all nonroad source categories except aircraft, commercial marine vessel, and railroad locomotive.

In running the NONROAD model, the user must specify a modeling scenario by the inventory year, geographic area (nation, state, county), period (annual, seasonal, monthly, daily), and the equipment categories. For all other required variables, the NONROAD model provides default input values. For the following modeling exercises, fuel parameters (Reid Vapor Pressure (RVP), oxygen weight, sulfur content, ethanol volume and market percentage) and temperatures for each Missouri county in the nonattainment area were obtained from the national county database.

For modeling ozone precursor pollutants, temperatures and fuel characteristics representative of each county during an ozone summer weekday, were entered into NONROAD2008a and modeled to calculate an ozone season weekday emissions for nonroad sources. Minimum, maximum, and average temperatures for a typical summer season were obtained from the national county data base. All input data for the NONROAD 2008a model that was used to develop the 2011 nonroad emissions is included in Table B-16.

Table B-16 NONROAD Model Temperature & Fuel Characteristic Input Values by County

County	Season	Oxygen Weight %	RVP (psi)	Gasoline Sulfur %	Ethanol Volume %	Ethanol Market Share %	Diesel Sulfur	Marine Diesel Sulfur %	CNG/LPG Sulfur %	Temperatures		
										Min.	Max.	Avg.
Franklin	Summer	3.5	7	0.0049	10	100	0.0355	0.0402	0.003	61.8	90	75.9
Jefferson	Summer	3.5	7	0.0049	10	100	0.0355	0.0402	0.003	61	88.6	74.8
St. Charles	Summer	3.5	7	0.0049	10	100	0.0355	0.0402	0.003	62.2	89.2	75.7
St. Louis	Summer	3.5	7	0.0049	10	100	0.0355	0.0402	0.003	64.1	89.5	76.8
St. Louis City	Summer	3.5	7	0.0049	10	100	0.0355	0.0402	0.003	65.1	89.8	77.5

The data generated by the NONROAD model for the 2011 nonroad source emissions for the Missouri counties in the St. Louis ozone nonattainment area are summarized in Table B-17 in units of tons/ozone season day.

As stated in sections B-2 and B-3, EPA lists emissions data in the NEI for aircraft takeoffs and landings in the point source inventory and they include emissions data for commercial marine and locomotives in the non-point inventory. However, in this plan, these sources are classified as nonroad source emissions. Therefore, 2011 annual emissions data from the 2011 NEI for aircraft, marine, and rail emissions were converted to ozone season day emissions using the temporal allocation profile table listed in section B-7, and these emissions were added to the nonroad source category. The 2011 emissions for aircraft, marine, and rail sources are summarized by county in Table B-18. The total 2011 nonroad source emissions by county are listed in Table B-19.

**Table B-17 2011 Emissions by County in the St. Louis Ozone Nonattainment Area
Calculated with NONROAD 2008a (Excludes Aircraft, Marine and Rail
Emissions)
(Tons per Ozone Season Day)**

County Name	CO	NO _x	VOC
Franklin County	17.96	2.57	3.15
Jefferson County	28.57	2.64	3.09
St. Charles County	62.13	6.91	6.15
St. Louis County	308.04	18.62	22.39
St. Louis City	47.51	2.37	3.19
Totals	464.21	33.11	37.97

**Table B-18 2011 Aircraft, Marine and Rail Emissions by County in the St. Louis Ozone
Nonattainment Area (Tons per Ozone Season Day)**

County Name	CO	NO _x	VOC
Franklin County	0.59	3.15	0.16
Jefferson County	0.11	0.69	0.03
St. Charles County	0.68	1.43	0.08
St. Louis County	7.20	5.23	0.60
St. Louis City	0.63	3.94	0.19
Totals	9.21	14.44	1.06

**Table B-19 Total 2011 Nonroad Source Emissions by County in the St. Louis Ozone
Nonattainment Area (Tons per Ozone Season Day)
(Missouri Counties Only)**

County Name	CO	NO _x	VOC
Franklin County	18.55	5.72	3.31
Jefferson County	28.68	3.33	3.12
St. Charles County	62.81	8.34	6.23
St. Louis County	315.24	23.85	22.99
St. Louis City	48.14	6.31	3.38
Totals	473.42	47.55	39.03

B-6 2011 Event and Biogenic Source Emissions

The 2011 event (wildfire) and biogenic source emissions by county for the Missouri counties in the 2008 St. Louis ozone nonattainment area are summarized below in Table B-20. The annual event and biogenic source emissions were extracted from the EPA’s 2011 NEI for the counties located in the nonattainment area. The emissions in Table B-20 are given in tons/ozone season day. In order to calculate the ozone season day emissions for wildfires, EMCH temporal allocation profiles that are SCC-specific were applied to the annual emissions from this source category for a Tuesday in July. See section B-7 for the temporal allocation method and table.

In order to calculate ozone season day biogenic emissions the monthly emissions were extracted from the 2011 NEI for the months during the high ozone season (June – August), and then summed for each county and divided by 92 (the number of days in those months). The monthly biogenic emissions during the high ozone season from 2011 for the Missouri nonattainment counties are displayed in Table B-21.

Table B-20 2011 Event (Wildfire) and Biogenic Source Emissions by County in the St. Louis Ozone Nonattainment Area (Tons per Ozone Season Day) (Missouri Counties Only)

County Name	Source Category	CO	NO _x	VOC
Franklin County	Event (Wildfires)	0.40	0.00	0.09
Jefferson County		0.28	0.00	0.07
St. Charles County		0.01	0.00	0.00
St. Louis County		0.01	0.00	0.00
St. Louis City		0.00	0.00	0.00
Totals		0.69	0.01	0.16
Franklin County	Biogenic Sources	11.58	1.09	126.84
Jefferson County		9.29	0.51	104.17
St. Charles County		7.09	1.05	65.94
St. Louis County		5.55	0.68	60.84
St. Louis City		1.03	0.13	10.93
Totals		34.55	3.47	368.71

Table B-21 2011 Biogenic Source Emissions by County and High Ozone Season Months in the St. Louis Ozone Nonattainment Area (Missouri Counties Only)

County	Month	CO Emissions	NO _x Emissions	VOC Emissions
Franklin County	June (tons)	311.07	36.93	3,455.48
	July (tons)	412.48	34.69	4,677.48
	August (tons)	342.21	29.11	3,536.77
Franklin County Total (tons/high ozone season)		1,065.76	100.73	11,669.73
Franklin County Total (tons/ozone season day)		11.58	1.09	126.84
Jefferson County	June (tons)	251.96	16.36	2,878.62
	July (tons)	329.3	16.8	3,823.19
	August (tons)	273.01	14.1	2,881.57
Jefferson County Total (tons/high ozone season)		854.27	47.26	9,583.38
Jefferson County Total (tons/ozone season day)		9.29	0.51	104.17
St Charles County	June (tons)	186.57	35.16	1,735.06
	July (tons)	254.98	33.63	2,454.11
	August (tons)	211.05	28	1,876.91
St. Charles County Total (tons/high ozone season)		652.60	96.79	6,066.08
St. Charles County Total (tons/ozone season day)		7.09	1.05	65.94
St Louis County	June (tons)	147.01	20.65	1,630.96
	July (tons)	199.17	22.53	2,245.92
	August (tons)	164.73	19.39	1,720.11
St Louis County Total (tons/high ozone season)		510.91	62.57	5,596.99
St. Louis County Total (tons/ozone season day)		5.55	0.68	60.84
St Louis City	June (tons)	27.22	3.97	298.15
	July (tons)	36.67	4.27	395.49
	August (tons)	30.73	3.82	311.59
St Louis City High Total (tons/high ozone season)		94.62	12.06	1,005.23
St. Louis City Total (tons/ozone season day)		1.03	0.13	10.93
Nonattainment Area Total (tons/high ozone season)		3,178.16	319.41	33,921.41
Nonattainment Area Total (tons/ozone season day)		34.55	3.47	368.71

B-7 Temporal Profile Documentation and Table

The procedures summarized in this appendix are based on the April 29, 2002 memorandum from Gregory Stella, U.S. EPA, "Temporal Allocation of Annual Emissions using EMCH Temporal Profiles." Table B-22 provides all the temporal allocation profiles and corresponding values for a typical Tuesday in July, which were used to convert annual emissions from the area source category as well as nonroad emissions from aircraft, commercial marine, and rail sources into ozone season day emissions. Emissions from these source categories are calculated on an annual basis. They are then allocated to an average Tuesday in July ozone season day emissions through the following calculation steps:

The first step is to allocate annual emissions to a particular month. A monthly profile is selected based on the nonpoint Source Classification Code (SCC). The annual emissions are multiplied by the monthly weight factor from the profile divided by the total weight factor as follows:

$$\text{Monthly Emissions} = \text{Annual Emissions} * (\text{July Profile} / \text{Total Monthly Factor})$$

Next, emissions for an average monthly day are estimated from the monthly total. Because the monthly profiles are not weighted for the specific number of days in each month, an average day per year is used in the calculation as shown below:

$$\begin{aligned} \text{Average Day Emissions} &= \text{Monthly Emissions} / (\text{Days per Year} / \text{Months per Year}) \\ \text{Average Day Emissions} &= \text{Monthly Emissions} / (365/12) \end{aligned}$$

The average day's emissions value is then converted to a specific day of the week. A weekly profile is selected based on a SCC. Using the day-of-week weighting factor from the profile, emissions for this day are calculated with the following equation:

$$\text{Average Tuesday Emissions} = \text{Average Day Emissions} * [(\text{Tuesday Profile} / \text{Total Weekly Factor}) / (\text{Average Day} / \text{Number of Days per Week})]$$

$$\text{Average Tuesday Emissions} = \text{Average Day Emissions} * [(\text{Tuesday Profile} / \text{Total Weekly Factor}) / (1/7)]$$

Example:

St. Louis City (29510) Area Source Fuel Combustion – Industrial Bituminous/Subbituminous Coal Combustion

Annual Emissions of CO: 218.7 tons per year

July Profile: Profile Number 262 includes July Profile 83 and Monthly factor 996

Monthly emissions: $218.7 \text{ tons/year} * (83/996) = 18.2 \text{ tons/month}$

Average July Day Emissions: $18.2 \text{ tons/month} / (365/12) = 0.59 \text{ tons/average day}$

Tuesday Profile: Profile Number 8 includes Tuesday Profile 147 and Weekly factor 1000

Average July Tuesday emissions: $0.59 \text{ tons/avg day} * (147/1000) / (1/7) = 0.59 * 1.029 = 0.61 \text{ tons/day}$

Table B-22 Temporal Allocation Profile Table for an Average Tuesday in July for Area Source Categories (Missouri St. Louis Ozone Nonattainment Area Counties)

State And County FIPS Code	Source Classification Code	Monthly Profile Number	Monthly Weighting Numerator (July)	Monthly Weighting Denominator	Weekly Profile Number	Weekly Weighting Numerator (Tuesday)	Weekly Weighting Denominator	Weight Factor Tuesday
29071	28500201	262	83	996	7	143	1000	1.001
29099	28500201	262	83	996	7	143	1000	1.001
29183	28500201	262	83	996	7	143	1000	1.001
29189	28500201	262	83	996	7	143	1000	1.001
29510	28500201	262	83	996	7	143	1000	1.001
29071	2102001000	262	83	996	8	147	1000	1.029
29099	2102001000	262	83	996	8	147	1000	1.029
29183	2102001000	262	83	996	8	147	1000	1.029
29189	2102001000	262	83	996	8	147	1000	1.029
29510	2102001000	262	83	996	8	147	1000	1.029
29071	2102002000	262	83	996	8	147	1000	1.029
29099	2102002000	262	83	996	8	147	1000	1.029
29183	2102002000	262	83	996	8	147	1000	1.029
29189	2102002000	262	83	996	8	147	1000	1.029
29510	2102002000	262	83	996	8	147	1000	1.029
29071	2102004000	262	83	996	8	147	1000	1.029
29099	2102004000	262	83	996	8	147	1000	1.029
29183	2102004000	262	83	996	8	147	1000	1.029
29189	2102004000	262	83	996	8	147	1000	1.029
29510	2102004000	262	83	996	8	147	1000	1.029
29071	2102004001	262	83	996	7	143	1000	1.001
29071	2102004002	262	83	996	7	143	1000	1.001
29099	2102004001	262	83	996	7	143	1000	1.001
29099	2102004002	262	83	996	7	143	1000	1.001
29183	2102004001	262	83	996	7	143	1000	1.001
29183	2102004002	262	83	996	7	143	1000	1.001
29189	2102004001	262	83	996	7	143	1000	1.001
29189	2102004002	262	83	996	7	143	1000	1.001
29510	2102004001	262	83	996	7	143	1000	1.001
29510	2102004002	262	83	996	7	143	1000	1.001
29071	2102005000	262	83	996	8	147	1000	1.029
29099	2102005000	262	83	996	8	147	1000	1.029
29183	2102005000	262	83	996	8	147	1000	1.029
29189	2102005000	262	83	996	8	147	1000	1.029
29510	2102005000	262	83	996	8	147	1000	1.029
29071	2102006000	262	83	996	8	147	1000	1.029
29099	2102006000	262	83	996	8	147	1000	1.029
29183	2102006000	262	83	996	8	147	1000	1.029
29189	2102006000	262	83	996	8	147	1000	1.029
29510	2102006000	262	83	996	8	147	1000	1.029
29071	2102007000	262	83	996	8	147	1000	1.029
29099	2102007000	262	83	996	8	147	1000	1.029
29183	2102007000	262	83	996	8	147	1000	1.029
29189	2102007000	262	83	996	8	147	1000	1.029
29510	2102007000	262	83	996	8	147	1000	1.029
29071	2102008000	262	83	996	8	147	1000	1.029
29099	2102008000	262	83	996	8	147	1000	1.029
29183	2102008000	262	83	996	8	147	1000	1.029
29189	2102008000	262	83	996	8	147	1000	1.029
29510	2102008000	262	83	996	8	147	1000	1.029
29071	2102011000	262	83	996	8	147	1000	1.029
29099	2102011000	262	83	996	8	147	1000	1.029
29183	2102011000	262	83	996	8	147	1000	1.029
29189	2102011000	262	83	996	8	147	1000	1.029
29510	2102011000	262	83	996	8	147	1000	1.029
29071	2103001000	469	50	999	8	147	1000	1.029
29099	2103001000	469	50	999	8	147	1000	1.029
29183	2103001000	469	50	999	8	147	1000	1.029
29189	2103001000	469	50	999	8	147	1000	1.029
29510	2103001000	469	50	999	8	147	1000	1.029
29071	2103002000	469	50	999	8	147	1000	1.029
29099	2103002000	469	50	999	8	147	1000	1.029
29183	2103002000	469	50	999	8	147	1000	1.029
29189	2103002000	469	50	999	8	147	1000	1.029

State And County FIPS Code	Source Classification Code	Monthly Profile Number	Monthly Weighting Numerator (July)	Monthly Weighting Denominator	Weekly Profile Number	Weekly Weighting Numerator (Tuesday)	Weekly Weighting Denominator	Weight Factor Tuesday
29510	2103002000	469	50	999	8	147	1000	1.029
29071	2103004000	469	50	999	8	147	1000	1.029
29099	2103004000	469	50	999	8	147	1000	1.029
29183	2103004000	469	50	999	8	147	1000	1.029
29189	2103004000	469	50	999	8	147	1000	1.029
29510	2103004000	469	50	999	8	147	1000	1.029
29071	2103004001	469	50	999	8	147	1000	1.029
29071	2103004002	469	50	999	8	147	1000	1.029
29099	2103004001	469	50	999	8	147	1000	1.029
29099	2103004002	469	50	999	8	147	1000	1.029
29183	2103004001	469	50	999	8	147	1000	1.029
29183	2103004002	469	50	999	8	147	1000	1.029
29189	2103004001	469	50	999	8	147	1000	1.029
29189	2103004002	469	50	999	8	147	1000	1.029
29510	2103004001	469	50	999	8	147	1000	1.029
29510	2103004002	469	50	999	8	147	1000	1.029
29071	2103005000	469	50	999	8	147	1000	1.029
29099	2103005000	469	50	999	8	147	1000	1.029
29183	2103005000	469	50	999	8	147	1000	1.029
29189	2103005000	469	50	999	8	147	1000	1.029
29510	2103005000	469	50	999	8	147	1000	1.029
29071	2103006000	469	50	999	8	147	1000	1.029
29099	2103006000	469	50	999	8	147	1000	1.029
29183	2103006000	469	50	999	8	147	1000	1.029
29189	2103006000	469	50	999	8	147	1000	1.029
29510	2103006000	469	50	999	8	147	1000	1.029
29071	2103007000	262	83	996	8	147	1000	1.029
29099	2103007000	262	83	996	8	147	1000	1.029
29183	2103007000	262	83	996	8	147	1000	1.029
29189	2103007000	262	83	996	8	147	1000	1.029
29510	2103007000	262	83	996	8	147	1000	1.029
29071	2103008000	469	50	999	8	147	1000	1.029
29099	2103008000	469	50	999	8	147	1000	1.029
29183	2103008000	469	50	999	8	147	1000	1.029
29189	2103008000	469	50	999	8	147	1000	1.029
29510	2103008000	469	50	999	8	147	1000	1.029
29071	2103011000	262	83	996	8	147	1000	1.029
29099	2103011000	262	83	996	8	147	1000	1.029
29183	2103011000	262	83	996	8	147	1000	1.029
29189	2103011000	262	83	996	8	147	1000	1.029
29510	2103011000	262	83	996	8	147	1000	1.029
29071	2104002000	485	5	1002	7	143	1000	1.001
29099	2104002000	485	5	1002	7	143	1000	1.001
29183	2104002000	485	5	1002	7	143	1000	1.001
29189	2104002000	485	5	1002	7	143	1000	1.001
29510	2104002000	485	5	1002	7	143	1000	1.001
29071	2104004000	485	5	1002	7	143	1000	1.001
29099	2104004000	485	5	1002	7	143	1000	1.001
29183	2104004000	485	5	1002	7	143	1000	1.001
29189	2104004000	485	5	1002	7	143	1000	1.001
29510	2104004000	485	5	1002	7	143	1000	1.001
29071	2104006000	485	5	1002	7	143	1000	1.001
29099	2104006000	485	5	1002	7	143	1000	1.001
29183	2104006000	485	5	1002	7	143	1000	1.001
29189	2104006000	485	5	1002	7	143	1000	1.001
29510	2104006000	485	5	1002	7	143	1000	1.001
29071	2104007000	262	83	996	7	143	1000	1.001
29099	2104007000	262	83	996	7	143	1000	1.001
29183	2104007000	262	83	996	7	143	1000	1.001
29189	2104007000	262	83	996	7	143	1000	1.001
29510	2104007000	262	83	996	7	143	1000	1.001
29071	2104008100	485	5	1002	7	143	1000	1.001
29099	2104008100	485	5	1002	7	143	1000	1.001
29183	2104008100	485	5	1002	7	143	1000	1.001
29189	2104008100	485	5	1002	7	143	1000	1.001
29510	2104008100	485	5	1002	7	143	1000	1.001
29071	2104008210	485	5	1002	7	143	1000	1.001

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29099	2104008210	485	5	1002	7	143	1000	1.001
29183	2104008210	485	5	1002	7	143	1000	1.001
29189	2104008210	485	5	1002	7	143	1000	1.001
29510	2104008210	485	5	1002	7	143	1000	1.001
29071	2104008220	485	5	1002	7	143	1000	1.001
29099	2104008220	485	5	1002	7	143	1000	1.001
29183	2104008220	485	5	1002	7	143	1000	1.001
29189	2104008220	485	5	1002	7	143	1000	1.001
29510	2104008220	485	5	1002	7	143	1000	1.001
29071	2104008230	485	5	1002	7	143	1000	1.001
29099	2104008230	485	5	1002	7	143	1000	1.001
29183	2104008230	485	5	1002	7	143	1000	1.001
29189	2104008230	485	5	1002	7	143	1000	1.001
29510	2104008230	485	5	1002	7	143	1000	1.001
29071	2104008310	485	5	1002	7	143	1000	1.001
29099	2104008310	485	5	1002	7	143	1000	1.001
29183	2104008310	485	5	1002	7	143	1000	1.001
29189	2104008310	485	5	1002	7	143	1000	1.001
29510	2104008310	485	5	1002	7	143	1000	1.001
29071	2104008320	485	5	1002	7	143	1000	1.001
29099	2104008320	485	5	1002	7	143	1000	1.001
29183	2104008320	485	5	1002	7	143	1000	1.001
29189	2104008320	485	5	1002	7	143	1000	1.001
29510	2104008320	485	5	1002	7	143	1000	1.001
29071	2104008330	485	5	1002	7	143	1000	1.001
29099	2104008330	485	5	1002	7	143	1000	1.001
29183	2104008330	485	5	1002	7	143	1000	1.001
29189	2104008330	485	5	1002	7	143	1000	1.001
29510	2104008330	485	5	1002	7	143	1000	1.001
29071	2104008400	485	5	1002	7	143	1000	1.001
29099	2104008400	485	5	1002	7	143	1000	1.001
29183	2104008400	485	5	1002	7	143	1000	1.001
29189	2104008400	485	5	1002	7	143	1000	1.001
29510	2104008400	485	5	1002	7	143	1000	1.001
29071	2104008510	485	5	1002	7	143	1000	1.001
29099	2104008510	485	5	1002	7	143	1000	1.001
29183	2104008510	485	5	1002	7	143	1000	1.001
29189	2104008510	485	5	1002	7	143	1000	1.001
29510	2104008510	485	5	1002	7	143	1000	1.001
29071	2104008610	485	5	1002	7	143	1000	1.001
29099	2104008610	485	5	1002	7	143	1000	1.001
29183	2104008610	485	5	1002	7	143	1000	1.001
29189	2104008610	485	5	1002	7	143	1000	1.001
29510	2104008610	485	5	1002	7	143	1000	1.001
29071	2104008700	262	83	996	7	143	1000	1.001
29099	2104008700	262	83	996	7	143	1000	1.001
29183	2104008700	262	83	996	7	143	1000	1.001
29189	2104008700	262	83	996	7	143	1000	1.001
29510	2104008700	262	83	996	7	143	1000	1.001
29071	2104009000	485	5	1002	7	143	1000	1.001
29099	2104009000	485	5	1002	7	143	1000	1.001
29183	2104009000	485	5	1002	7	143	1000	1.001
29189	2104009000	485	5	1002	7	143	1000	1.001
29510	2104009000	485	5	1002	7	143	1000	1.001
29071	2104011000	262	83	996	7	143	1000	1.001
29099	2104011000	262	83	996	7	143	1000	1.001
29183	2104011000	262	83	996	7	143	1000	1.001
29189	2104011000	262	83	996	7	143	1000	1.001
29510	2104011000	262	83	996	7	143	1000	1.001
29071	2265008005	22	115	1002	7	143	1000	1.001
29099	2265008005	22	115	1002	7	143	1000	1.001
29183	2265008005	22	115	1002	7	143	1000	1.001
29189	2265008005	22	115	1002	7	143	1000	1.001
29510	2265008005	22	115	1002	7	143	1000	1.001
29071	2267008005	262	83	996	7	143	1000	1.001
29099	2267008005	262	83	996	7	143	1000	1.001
29183	2267008005	262	83	996	7	143	1000	1.001

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29189	2267008005	262	83	996	7	143	1000	1.001
29510	2267008005	262	83	996	7	143	1000	1.001
29071	2268008005	262	83	996	7	143	1000	1.001
29099	2268008005	262	83	996	7	143	1000	1.001
29183	2268008005	262	83	996	7	143	1000	1.001
29189	2268008005	262	83	996	7	143	1000	1.001
29510	2268008005	262	83	996	7	143	1000	1.001
29071	2270008005	21	115	999	7	143	1000	1.001
29099	2270008005	21	115	999	7	143	1000	1.001
29183	2270008005	21	115	999	7	143	1000	1.001
29189	2270008005	21	115	999	7	143	1000	1.001
29510	2270008005	21	115	999	7	143	1000	1.001
29099	2275001000	262	83	996	7	143	1000	1.001
29183	2275001000	262	83	996	7	143	1000	1.001
29189	2275001000	262	83	996	7	143	1000	1.001
29510	2275001000	262	83	996	7	143	1000	1.001
29071	2275020000	246	87	1002	7	143	1000	1.001
29099	2275020000	246	87	1002	7	143	1000	1.001
29183	2275020000	246	87	1002	7	143	1000	1.001
29189	2275020000	246	87	1002	7	143	1000	1.001
29510	2275020000	246	87	1002	7	143	1000	1.001
29071	2275050011	262	83	996	7	143	1000	1.001
29099	2275050011	262	83	996	7	143	1000	1.001
29183	2275050011	262	83	996	7	143	1000	1.001
29189	2275050011	262	83	996	7	143	1000	1.001
29510	2275050011	262	83	996	7	143	1000	1.001
29071	2275050012	262	83	996	7	143	1000	1.001
29099	2275050012	262	83	996	7	143	1000	1.001
29183	2275050012	262	83	996	7	143	1000	1.001
29189	2275050012	262	83	996	7	143	1000	1.001
29510	2275050012	262	83	996	7	143	1000	1.001
29071	2275060011	246	87	1002	7	143	1000	1.001
29099	2275060011	246	87	1002	7	143	1000	1.001
29183	2275060011	246	87	1002	7	143	1000	1.001
29189	2275060011	246	87	1002	7	143	1000	1.001
29510	2275060011	246	87	1002	7	143	1000	1.001
29071	2275060012	246	87	1002	7	143	1000	1.001
29099	2275060012	246	87	1002	7	143	1000	1.001
29183	2275060012	246	87	1002	7	143	1000	1.001
29189	2275060012	246	87	1002	7	143	1000	1.001
29510	2275060012	246	87	1002	7	143	1000	1.001
29071	2275070000	246	87	1002	7	143	1000	1.001
29099	2275070000	246	87	1002	7	143	1000	1.001
29183	2275070000	246	87	1002	7	143	1000	1.001
29189	2275070000	246	87	1002	7	143	1000	1.001
29510	2275070000	246	87	1002	7	143	1000	1.001
29071	2285002006	262	83	996	7	143	1000	1.001
29071	2285002007	262	83	996	7	143	1000	1.001
29099	2285002006	262	83	996	7	143	1000	1.001
29099	2285002007	262	83	996	7	143	1000	1.001
29183	2285002006	262	83	996	7	143	1000	1.001
29183	2285002007	262	83	996	7	143	1000	1.001
29189	2285002006	262	83	996	7	143	1000	1.001
29189	2285002007	262	83	996	7	143	1000	1.001
29510	2285002006	262	83	996	7	143	1000	1.001
29510	2285002007	262	83	996	7	143	1000	1.001
29071	2285002010	262	83	996	7	143	1000	1.001
29099	2285002010	262	83	996	7	143	1000	1.001
29183	2285002010	262	83	996	7	143	1000	1.001
29189	2285002010	262	83	996	7	143	1000	1.001
29510	2285002010	262	83	996	7	143	1000	1.001
29071	2302002100	262	83	996	7	143	1000	1.001
29099	2302002100	262	83	996	7	143	1000	1.001
29183	2302002100	262	83	996	7	143	1000	1.001
29189	2302002100	262	83	996	7	143	1000	1.001
29510	2302002100	262	83	996	7	143	1000	1.001
29071	2302002200	262	83	996	7	143	1000	1.001

State And County FIPS Code	Source Classification Code	Monthly Profile Number	Monthly Weighting Numerator (July)	Monthly Weighting Denominator	Weekly Profile Number	Weekly Weighting Numerator (Tuesday)	Weekly Weighting Denominator	Weight Factor Tuesday
29099	2302002200	262	83	996	7	143	1000	1.001
29183	2302002200	262	83	996	7	143	1000	1.001
29189	2302002200	262	83	996	7	143	1000	1.001
29510	2302002200	262	83	996	7	143	1000	1.001
29071	2302003000	262	83	996	7	143	1000	1.001
29099	2302003000	262	83	996	7	143	1000	1.001
29183	2302003000	262	83	996	7	143	1000	1.001
29189	2302003000	262	83	996	7	143	1000	1.001
29510	2302003000	262	83	996	7	143	1000	1.001
29071	2302003100	262	83	996	7	143	1000	1.001
29099	2302003100	262	83	996	7	143	1000	1.001
29183	2302003100	262	83	996	7	143	1000	1.001
29189	2302003100	262	83	996	7	143	1000	1.001
29510	2302003100	262	83	996	7	143	1000	1.001
29071	2302003200	262	83	996	7	143	1000	1.001
29099	2302003200	262	83	996	7	143	1000	1.001
29183	2302003200	262	83	996	7	143	1000	1.001
29189	2302003200	262	83	996	7	143	1000	1.001
29510	2302003200	262	83	996	7	143	1000	1.001
29071	2306000000	262	83	996	7	143	1000	1.001
29099	2306000000	262	83	996	7	143	1000	1.001
29183	2306000000	262	83	996	7	143	1000	1.001
29189	2306000000	262	83	996	7	143	1000	1.001
29510	2306000000	262	83	996	7	143	1000	1.001
29071	2401001000	199	85	999	7	143	1000	1.001
29099	2401001000	199	85	999	7	143	1000	1.001
29183	2401001000	199	85	999	7	143	1000	1.001
29189	2401001000	199	85	999	7	143	1000	1.001
29510	2401001000	199	85	999	7	143	1000	1.001
29071	2401005000	262	83	996	7	143	1000	1.001
29099	2401005000	262	83	996	7	143	1000	1.001
29183	2401005000	262	83	996	7	143	1000	1.001
29189	2401005000	262	83	996	7	143	1000	1.001
29510	2401005000	262	83	996	7	143	1000	1.001
29071	2401008000	262	83	996	7	143	1000	1.001
29099	2401008000	262	83	996	7	143	1000	1.001
29183	2401008000	262	83	996	7	143	1000	1.001
29189	2401008000	262	83	996	7	143	1000	1.001
29510	2401008000	262	83	996	7	143	1000	1.001
29071	2401015000	173	86	1002	7	143	1000	1.001
29099	2401015000	173	86	1002	7	143	1000	1.001
29183	2401015000	173	86	1002	7	143	1000	1.001
29189	2401015000	173	86	1002	7	143	1000	1.001
29510	2401015000	173	86	1002	7	143	1000	1.001
29071	2401020000	287	84	999	7	143	1000	1.001
29099	2401020000	287	84	999	7	143	1000	1.001
29183	2401020000	287	84	999	7	143	1000	1.001
29189	2401020000	287	84	999	7	143	1000	1.001
29510	2401020000	287	84	999	7	143	1000	1.001
29071	2401025000	287	84	999	7	143	1000	1.001
29099	2401025000	287	84	999	7	143	1000	1.001
29183	2401025000	287	84	999	7	143	1000	1.001
29189	2401025000	287	84	999	7	143	1000	1.001
29510	2401025000	287	84	999	7	143	1000	1.001
29071	2401030000	257	84	999	7	143	1000	1.001
29099	2401030000	257	84	999	7	143	1000	1.001
29183	2401030000	257	84	999	7	143	1000	1.001
29189	2401030000	257	84	999	7	143	1000	1.001
29510	2401030000	257	84	999	7	143	1000	1.001
29071	2401040000	253	84	999	7	143	1000	1.001
29099	2401040000	253	84	999	7	143	1000	1.001
29183	2401040000	253	84	999	7	143	1000	1.001
29189	2401040000	253	84	999	7	143	1000	1.001
29510	2401040000	253	84	999	7	143	1000	1.001
29071	2401050000	253	84	999	7	143	1000	1.001
29183	2401050000	253	84	999	7	143	1000	1.001
29189	2401050000	253	84	999	7	143	1000	1.001

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29510	2401050000	253	84	999	7	143	1000	1.001
29071	2401055000	253	84	999	7	143	1000	1.001
29099	2401055000	253	84	999	7	143	1000	1.001
29183	2401055000	253	84	999	7	143	1000	1.001
29189	2401055000	253	84	999	7	143	1000	1.001
29510	2401055000	253	84	999	7	143	1000	1.001
29071	2401060000	262	83	996	7	143	1000	1.001
29099	2401060000	262	83	996	7	143	1000	1.001
29183	2401060000	262	83	996	7	143	1000	1.001
29189	2401060000	262	83	996	7	143	1000	1.001
29510	2401060000	262	83	996	7	143	1000	1.001
29071	2401065000	253	84	999	7	143	1000	1.001
29099	2401065000	253	84	999	7	143	1000	1.001
29183	2401065000	253	84	999	7	143	1000	1.001
29189	2401065000	253	84	999	7	143	1000	1.001
29510	2401065000	253	84	999	7	143	1000	1.001
29071	2401070000	140	87	999	7	143	1000	1.001
29099	2401070000	140	87	999	7	143	1000	1.001
29183	2401070000	140	87	999	7	143	1000	1.001
29189	2401070000	140	87	999	7	143	1000	1.001
29510	2401070000	140	87	999	7	143	1000	1.001
29071	2401075000	169	87	1002	7	143	1000	1.001
29099	2401075000	169	87	1002	7	143	1000	1.001
29183	2401075000	169	87	1002	7	143	1000	1.001
29189	2401075000	169	87	1002	7	143	1000	1.001
29510	2401075000	169	87	1002	7	143	1000	1.001
29071	2401080000	266	84	999	7	143	1000	1.001
29099	2401080000	266	84	999	7	143	1000	1.001
29183	2401080000	266	84	999	7	143	1000	1.001
29189	2401080000	266	84	999	7	143	1000	1.001
29510	2401080000	266	84	999	7	143	1000	1.001
29071	2401085000	169	87	1002	7	143	1000	1.001
29099	2401085000	169	87	1002	7	143	1000	1.001
29183	2401085000	169	87	1002	7	143	1000	1.001
29189	2401085000	169	87	1002	7	143	1000	1.001
29510	2401085000	169	87	1002	7	143	1000	1.001
29071	2401090000	260	85	1005	7	143	1000	1.001
29099	2401090000	260	85	1005	7	143	1000	1.001
29183	2401090000	260	85	1005	7	143	1000	1.001
29189	2401090000	260	85	1005	7	143	1000	1.001
29510	2401090000	260	85	1005	7	143	1000	1.001
29071	2401100000	260	85	1005	7	143	1000	1.001
29099	2401100000	260	85	1005	7	143	1000	1.001
29183	2401100000	260	85	1005	7	143	1000	1.001
29189	2401100000	260	85	1005	7	143	1000	1.001
29510	2401100000	260	85	1005	7	143	1000	1.001
29071	2401200000	260	85	1005	7	143	1000	1.001
29099	2401200000	260	85	1005	7	143	1000	1.001
29183	2401200000	260	85	1005	7	143	1000	1.001
29189	2401200000	260	85	1005	7	143	1000	1.001
29510	2401200000	260	85	1005	7	143	1000	1.001
29071	2415000000	253	84	999	7	143	1000	1.001
29099	2415000000	253	84	999	7	143	1000	1.001
29183	2415000000	253	84	999	7	143	1000	1.001
29189	2415000000	253	84	999	7	143	1000	1.001
29510	2415000000	253	84	999	7	143	1000	1.001
29071	2420000000	199	85	999	7	143	1000	1.001
29099	2420000000	199	85	999	7	143	1000	1.001
29183	2420000000	199	85	999	7	143	1000	1.001
29189	2420000000	199	85	999	7	143	1000	1.001
29510	2420000000	199	85	999	7	143	1000	1.001
29071	2425000000	257	84	999	7	143	1000	1.001
29099	2425000000	257	84	999	7	143	1000	1.001
29183	2425000000	257	84	999	7	143	1000	1.001
29189	2425000000	257	84	999	7	143	1000	1.001
29510	2425000000	257	84	999	7	143	1000	1.001
29071	2460100000	262	83	996	7	143	1000	1.001

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29099	2460100000	262	83	996	7	143	1000	1.001
29183	2460100000	262	83	996	7	143	1000	1.001
29189	2460100000	262	83	996	7	143	1000	1.001
29510	2460100000	262	83	996	7	143	1000	1.001
29071	2460200000	262	83	996	7	143	1000	1.001
29099	2460200000	262	83	996	7	143	1000	1.001
29183	2460200000	262	83	996	7	143	1000	1.001
29189	2460200000	262	83	996	7	143	1000	1.001
29510	2460200000	262	83	996	7	143	1000	1.001
29071	2460400000	262	83	996	7	143	1000	1.001
29099	2460400000	262	83	996	7	143	1000	1.001
29183	2460400000	262	83	996	7	143	1000	1.001
29189	2460400000	262	83	996	7	143	1000	1.001
29510	2460400000	262	83	996	7	143	1000	1.001
29071	2460500000	262	83	996	7	143	1000	1.001
29099	2460500000	262	83	996	7	143	1000	1.001
29183	2460500000	262	83	996	7	143	1000	1.001
29189	2460500000	262	83	996	7	143	1000	1.001
29510	2460500000	262	83	996	7	143	1000	1.001
29071	2460600000	262	83	996	7	143	1000	1.001
29099	2460600000	262	83	996	7	143	1000	1.001
29183	2460600000	262	83	996	7	143	1000	1.001
29189	2460600000	262	83	996	7	143	1000	1.001
29510	2460600000	262	83	996	7	143	1000	1.001
29071	2460800000	262	83	996	7	143	1000	1.001
29099	2460800000	262	83	996	7	143	1000	1.001
29183	2460800000	262	83	996	7	143	1000	1.001
29189	2460800000	262	83	996	7	143	1000	1.001
29510	2460800000	262	83	996	7	143	1000	1.001
29071	2460900000	262	83	996	7	143	1000	1.001
29099	2460900000	262	83	996	7	143	1000	1.001
29183	2460900000	262	83	996	7	143	1000	1.001
29189	2460900000	262	83	996	7	143	1000	1.001
29510	2460900000	262	83	996	7	143	1000	1.001
29071	2461021000	258	84	1002	7	143	1000	1.001
29099	2461021000	258	84	1002	7	143	1000	1.001
29183	2461021000	258	84	1002	7	143	1000	1.001
29189	2461021000	258	84	1002	7	143	1000	1.001
29510	2461021000	258	84	1002	7	143	1000	1.001
29071	2461022000	258	84	1002	7	143	1000	1.001
29099	2461022000	258	84	1002	7	143	1000	1.001
29183	2461022000	258	84	1002	7	143	1000	1.001
29189	2461022000	258	84	1002	7	143	1000	1.001
29510	2461022000	258	84	1002	7	143	1000	1.001
29071	2461850001	258	84	1002	7	143	1000	1.001
29071	2461850002	258	84	1002	7	143	1000	1.001
29099	2461850002	258	84	1002	7	143	1000	1.001
29071	2461850003	258	84	1002	7	143	1000	1.001
29099	2461850003	258	84	1002	7	143	1000	1.001
29183	2461850003	258	84	1002	7	143	1000	1.001
29071	2461850004	258	84	1002	7	143	1000	1.001
29099	2461850004	258	84	1002	7	143	1000	1.001
29183	2461850004	258	84	1002	7	143	1000	1.001
29189	2461850004	258	84	1002	7	143	1000	1.001
29071	2461850005	258	84	1002	7	143	1000	1.001
29099	2461850005	258	84	1002	7	143	1000	1.001
29183	2461850005	258	84	1002	7	143	1000	1.001
29189	2461850005	258	84	1002	7	143	1000	1.001
29510	2461850005	258	84	1002	7	143	1000	1.001
29071	2461850006	258	84	1002	7	143	1000	1.001
29099	2461850006	258	84	1002	7	143	1000	1.001
29183	2461850006	258	84	1002	7	143	1000	1.001
29189	2461850006	258	84	1002	7	143	1000	1.001
29510	2461850006	258	84	1002	7	143	1000	1.001
29099	2461850007	258	84	1002	7	143	1000	1.001
29183	2461850007	258	84	1002	7	143	1000	1.001
29189	2461850007	258	84	1002	7	143	1000	1.001

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29510	2461850007	258	84	1002	7	143	1000	1.001
29183	2461850008	258	84	1002	7	143	1000	1.001
29189	2461850008	258	84	1002	7	143	1000	1.001
29510	2461850008	258	84	1002	7	143	1000	1.001
29071	2461850009	258	84	1002	7	143	1000	1.001
29189	2461850009	258	84	1002	7	143	1000	1.001
29510	2461850009	258	84	1002	7	143	1000	1.001
29099	2461850010	258	84	1002	7	143	1000	1.001
29510	2461850010	258	84	1002	7	143	1000	1.001
29183	2461850011	258	84	1002	7	143	1000	1.001
29189	2461850012	258	84	1002	7	143	1000	1.001
29510	2461850013	258	84	1002	7	143	1000	1.001
29071	2461850051	258	84	1002	7	143	1000	1.001
29071	2461850052	258	84	1002	7	143	1000	1.001
29099	2461850052	258	84	1002	7	143	1000	1.001
29071	2461850053	258	84	1002	7	143	1000	1.001
29099	2461850053	258	84	1002	7	143	1000	1.001
29183	2461850053	258	84	1002	7	143	1000	1.001
29071	2461850054	258	84	1002	7	143	1000	1.001
29099	2461850054	258	84	1002	7	143	1000	1.001
29183	2461850054	258	84	1002	7	143	1000	1.001
29189	2461850054	258	84	1002	7	143	1000	1.001
29071	2461850055	258	84	1002	7	143	1000	1.001
29099	2461850055	258	84	1002	7	143	1000	1.001
29183	2461850055	258	84	1002	7	143	1000	1.001
29189	2461850055	258	84	1002	7	143	1000	1.001
29510	2461850055	258	84	1002	7	143	1000	1.001
29071	2461850056	258	84	1002	7	143	1000	1.001
29099	2461850056	258	84	1002	7	143	1000	1.001
29183	2461850056	258	84	1002	7	143	1000	1.001
29189	2461850056	258	84	1002	7	143	1000	1.001
29510	2461850056	258	84	1002	7	143	1000	1.001
29099	2461850057	258	84	1002	7	143	1000	1.001
29183	2461850057	258	84	1002	7	143	1000	1.001
29189	2461850057	258	84	1002	7	143	1000	1.001
29510	2461850057	258	84	1002	7	143	1000	1.001
29183	2461850058	258	84	1002	7	143	1000	1.001
29189	2461850058	258	84	1002	7	143	1000	1.001
29510	2461850058	258	84	1002	7	143	1000	1.001
29189	2461850059	258	84	1002	7	143	1000	1.001
29510	2461850059	258	84	1002	7	143	1000	1.001
29510	2461850060	258	84	1002	7	143	1000	1.001
29071	2461850099	258	84	1002	7	143	1000	1.001
29099	2461850100	258	84	1002	7	143	1000	1.001
29183	2461850101	258	84	1002	7	143	1000	1.001
29189	2461850102	258	84	1002	7	143	1000	1.001
29510	2461850103	258	84	1002	7	143	1000	1.001
29071	2501011011	262	83	996	7	143	1000	1.001
29099	2501011011	262	83	996	7	143	1000	1.001
29183	2501011011	262	83	996	7	143	1000	1.001
29189	2501011011	262	83	996	7	143	1000	1.001
29510	2501011011	262	83	996	7	143	1000	1.001
29071	2501011012	262	83	996	7	143	1000	1.001
29099	2501011012	262	83	996	7	143	1000	1.001
29183	2501011012	262	83	996	7	143	1000	1.001
29189	2501011012	262	83	996	7	143	1000	1.001
29510	2501011012	262	83	996	7	143	1000	1.001
29071	2501011013	262	83	996	7	143	1000	1.001
29099	2501011013	262	83	996	7	143	1000	1.001
29183	2501011013	262	83	996	7	143	1000	1.001
29189	2501011013	262	83	996	7	143	1000	1.001
29510	2501011013	262	83	996	7	143	1000	1.001
29071	2501011014	262	83	996	7	143	1000	1.001
29099	2501011014	262	83	996	7	143	1000	1.001
29183	2501011014	262	83	996	7	143	1000	1.001
29189	2501011014	262	83	996	7	143	1000	1.001
29510	2501011014	262	83	996	7	143	1000	1.001

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29071	2501011015	262	83	996	7	143	1000	1.001
29099	2501011015	262	83	996	7	143	1000	1.001
29183	2501011015	262	83	996	7	143	1000	1.001
29189	2501011015	262	83	996	7	143	1000	1.001
29510	2501011015	262	83	996	7	143	1000	1.001
29071	2501012011	262	83	996	7	143	1000	1.001
29099	2501012011	262	83	996	7	143	1000	1.001
29183	2501012011	262	83	996	7	143	1000	1.001
29189	2501012011	262	83	996	7	143	1000	1.001
29510	2501012011	262	83	996	7	143	1000	1.001
29071	2501012012	262	83	996	7	143	1000	1.001
29099	2501012012	262	83	996	7	143	1000	1.001
29183	2501012012	262	83	996	7	143	1000	1.001
29189	2501012012	262	83	996	7	143	1000	1.001
29510	2501012012	262	83	996	7	143	1000	1.001
29071	2501012013	262	83	996	7	143	1000	1.001
29099	2501012013	262	83	996	7	143	1000	1.001
29183	2501012013	262	83	996	7	143	1000	1.001
29189	2501012013	262	83	996	7	143	1000	1.001
29510	2501012013	262	83	996	7	143	1000	1.001
29071	2501012014	262	83	996	7	143	1000	1.001
29099	2501012014	262	83	996	7	143	1000	1.001
29183	2501012014	262	83	996	7	143	1000	1.001
29189	2501012014	262	83	996	7	143	1000	1.001
29510	2501012014	262	83	996	7	143	1000	1.001
29071	2501012015	262	83	996	7	143	1000	1.001
29099	2501012015	262	83	996	7	143	1000	1.001
29183	2501012015	262	83	996	7	143	1000	1.001
29189	2501012015	262	83	996	7	143	1000	1.001
29510	2501012015	262	83	996	7	143	1000	1.001
29071	2501050120	262	83	996	7	143	1000	1.001
29099	2501050120	262	83	996	7	143	1000	1.001
29183	2501050120	262	83	996	7	143	1000	1.001
29189	2501050120	262	83	996	7	143	1000	1.001
29510	2501050120	262	83	996	7	143	1000	1.001
29071	2501055120	262	83	996	7	143	1000	1.001
29099	2501055120	262	83	996	7	143	1000	1.001
29183	2501055120	262	83	996	7	143	1000	1.001
29189	2501055120	262	83	996	7	143	1000	1.001
29510	2501055120	262	83	996	7	143	1000	1.001
29099	2501060052	262	83	996	7	143	1000	1.001
29183	2501060052	262	83	996	7	143	1000	1.001
29189	2501060052	262	83	996	7	143	1000	1.001
29510	2501060052	262	83	996	7	143	1000	1.001
29071	2501060053	262	83	996	7	143	1000	1.001
29071	2501060101	262	83	996	7	143	1000	1.001
29071	2501060102	262	83	996	7	143	1000	1.001
29099	2501060102	262	83	996	7	143	1000	1.001
29071	2501060103	262	83	996	7	143	1000	1.001
29099	2501060103	262	83	996	7	143	1000	1.001
29183	2501060103	262	83	996	7	143	1000	1.001
29099	2501060104	262	83	996	7	143	1000	1.001
29183	2501060104	262	83	996	7	143	1000	1.001
29189	2501060104	262	83	996	7	143	1000	1.001
29183	2501060105	262	83	996	7	143	1000	1.001
29189	2501060105	262	83	996	7	143	1000	1.001
29510	2501060105	262	83	996	7	143	1000	1.001
29189	2501060106	262	83	996	7	143	1000	1.001
29510	2501060106	262	83	996	7	143	1000	1.001
29510	2501060107	262	83	996	7	143	1000	1.001
29071	2501060201	262	83	996	7	143	1000	1.001
29099	2501060201	262	83	996	7	143	1000	1.001
29183	2501060201	262	83	996	7	143	1000	1.001
29189	2501060201	262	83	996	7	143	1000	1.001
29510	2501060201	262	83	996	7	143	1000	1.001
29071	2501070100	262	83	996	7	143	1000	1.001
29099	2501070101	262	83	996	7	143	1000	1.001

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29183	2501070102	262	83	996	7	143	1000	1.001
29189	2501070103	262	83	996	7	143	1000	1.001
29510	2501070104	262	83	996	7	143	1000	1.001
29071	2501080050	262	83	996	7	143	1000	1.001
29099	2501080050	262	83	996	7	143	1000	1.001
29183	2501080050	262	83	996	7	143	1000	1.001
29189	2501080050	262	83	996	7	143	1000	1.001
29510	2501080050	262	83	996	7	143	1000	1.001
29071	2501080100	262	83	996	7	143	1000	1.001
29099	2501080100	262	83	996	7	143	1000	1.001
29183	2501080100	262	83	996	7	143	1000	1.001
29189	2501080100	262	83	996	7	143	1000	1.001
29510	2501080100	262	83	996	7	143	1000	1.001
29071	2505030120	262	83	996	7	143	1000	1.001
29099	2505030120	262	83	996	7	143	1000	1.001
29183	2505030120	262	83	996	7	143	1000	1.001
29189	2505030120	262	83	996	7	143	1000	1.001
29510	2505030120	262	83	996	7	143	1000	1.001
29071	2505040120	262	83	996	7	143	1000	1.001
29099	2505040120	262	83	996	7	143	1000	1.001
29183	2505040120	262	83	996	7	143	1000	1.001
29189	2505040120	262	83	996	7	143	1000	1.001
29510	2505040120	262	83	996	7	143	1000	1.001
29071	2610000100	262	83	996	7	143	1000	1.001
29099	2610000100	262	83	996	7	143	1000	1.001
29183	2610000100	262	83	996	7	143	1000	1.001
29189	2610000100	262	83	996	7	143	1000	1.001
29510	2610000100	262	83	996	7	143	1000	1.001
29071	2610000400	262	83	996	7	143	1000	1.001
29099	2610000400	262	83	996	7	143	1000	1.001
29183	2610000400	262	83	996	7	143	1000	1.001
29189	2610000400	262	83	996	7	143	1000	1.001
29510	2610000400	262	83	996	7	143	1000	1.001
29071	2610000500	262	83	996	7	143	1000	1.001
29099	2610000500	262	83	996	7	143	1000	1.001
29183	2610000500	262	83	996	7	143	1000	1.001
29189	2610000500	262	83	996	7	143	1000	1.001
29510	2610000500	262	83	996	7	143	1000	1.001
29071	2610030000	262	83	996	7	143	1000	1.001
29099	2610030000	262	83	996	7	143	1000	1.001
29183	2610030000	262	83	996	7	143	1000	1.001
29189	2610030000	262	83	996	7	143	1000	1.001
29510	2610030000	262	83	996	7	143	1000	1.001
29071	2630020000	262	83	996	7	143	1000	1.001
29099	2630020000	262	83	996	7	143	1000	1.001
29183	2630020000	262	83	996	7	143	1000	1.001
29189	2630020000	262	83	996	7	143	1000	1.001
29510	2630020000	262	83	996	7	143	1000	1.001
29071	2701200000	262	83	996	7	143	1000	1.001
29099	2701200000	262	83	996	7	143	1000	1.001
29183	2701200000	262	83	996	7	143	1000	1.001
29189	2701200000	262	83	996	7	143	1000	1.001
29510	2701200000	262	83	996	7	143	1000	1.001
29071	2701220000	262	83	996	7	143	1000	1.001
29099	2701220000	262	83	996	7	143	1000	1.001
29183	2701220000	262	83	996	7	143	1000	1.001
29189	2701220000	262	83	996	7	143	1000	1.001
29510	2701220000	262	83	996	7	143	1000	1.001
29071	2801500000	2046	0	992	35	140	998	0.982
29099	2801500000	2046	0	992	35	140	998	0.982
29183	2801500000	2046	0	992	35	140	998	0.982
29189	2801500000	2046	0	992	35	140	998	0.982
29510	2801500000	2046	0	992	35	140	998	0.982
29071	2810001000	1129	16	1000	7	143	1000	1.001
29099	2810001000	1129	16	1000	7	143	1000	1.001
29183	2810001000	1129	16	1000	7	143	1000	1.001
29189	2810001000	1129	16	1000	7	143	1000	1.001

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29510	2810001000	1129	16	1000	7	143	1000	1.001
29071	2810060100	262	83	996	7	143	1000	1.001
29099	2810060100	262	83	996	7	143	1000	1.001
29183	2810060100	262	83	996	7	143	1000	1.001
29189	2810060100	262	83	996	7	143	1000	1.001
29510	2810060100	262	83	996	7	143	1000	1.001
29071	2810060200	262	83	996	7	143	1000	1.001
29099	2810060200	262	83	996	7	143	1000	1.001
29183	2810060200	262	83	996	7	143	1000	1.001
29189	2810060200	262	83	996	7	143	1000	1.001
29510	2810060200	262	83	996	7	143	1000	1.001
29071	2811015000	1029	0	1000	7	143	1000	1.001
29099	2811015000	1029	0	1000	7	143	1000	1.001
29183	2811015000	1029	0	1000	7	143	1000	1.001
29189	2811015000	1029	0	1000	7	143	1000	1.001
29510	2811015000	1029	0	1000	7	143	1000	1.001