

Appendix B:

Tables for Future-Year Emissions Inventory Preparation

Table B-1
BEA Gross State Product (GSP) Growth factors by 4-Digit ASC for 1999 to 2007 for States of AL, AR, DC, FL, GA and IA

Description	ASC	AL	AR	DC	FL	GA	IA	BEA Surrogate
Stationary Source Fuel Combustion Electric Utility	2101	1.1679	1.1586	1.1014	1.2174	1.2013	1.1116	Utilities
Stationary Source Fuel Combustion Industrial	2102	1.1671	1.1690	1.0350	1.1700	1.1646	1.1360	Manufacturing
Stationary Source Fuel Combustion Commercial/Institutional	2103	1.1671	1.1690	1.0350	1.1700	1.1646	1.1360	Manufacturing
Stationary Source Fuel Combustion Residential	2104	1.0209	1.0274	0.9972	1.0808	1.0662	1.0143	Private households
Stationary Source Fuel Combustion Total Area Source Fuel Combustion	2199	1.0503	1.0561	0.9891	1.1334	1.0930	1.0326	Total Population
Mobile Sources Off-highway Vehicle Gasoline 2-Stroke	2260	1.0503	1.0561	0.9891	1.1334	1.0930	1.0326	Total Population
Mobile Sources Off-highway Vehicle Gasoline 4-Stroke	2265	1.0503	1.0561	0.9891	1.1334	1.0930	1.0326	Total Population
Mobile Sources Off-highway Vehicle Gasoline LPG	2267	1.0503	1.0561	0.9891	1.1334	1.0930	1.0326	Total Population
Mobile Sources Off-highway Vehicle Gasoline CNG	2268	1.0503	1.0561	0.9891	1.1334	1.0930	1.0326	Total Population
Mobile Sources Off-highway Vehicle Gasoline Diesel	2270	1.0503	1.0561	0.9891	1.1334	1.0930	1.0326	Total Population
Mobile Sources Aircraft	2275	1.3337	1.2875	1.2173	1.2628	1.2298	1.2728	Transportation by air
Mobile Sources Marine Vessels	2280	1.0134	1.0884	1.0253	1.1198	1.0346	1.1184	Water transportation
Mobile Sources Pleasure Craft	2282	1.0503	1.0561	0.9891	1.1334	1.0930	1.0326	Total Population
Mobile Sources Railroads	2285	1.2486	1.2560	1.3588	1.3145	1.2397	1.2412	Railroad transport.
Mobile Sources Paved Roads	2294	1.1402	1.1470	1.0190	1.2010	1.1771	1.0724	Local & interurban
Mobile Sources Unpaved Roads	2296	1.1402	1.1470	1.0190	1.2010	1.1771	1.0724	Local & interurban
Industrial Processes Chemical Manufacturing	2301	1.1011	1.0853	1.0905	1.0500	1.1441	1.0713	Chemicals
Industrial Processes Food and Kindred Products	2302	1.1012	1.1555	1.0461	1.1391	1.1736	1.0799	Food & kindred
Industrial Processes Primary Metal Production	2303	1.0281	1.1179	1.0000	1.0501	1.0096	1.0511	Primary metals
Industrial Processes Secondary Metal Production	2304	1.0281	1.1179	1.0000	1.0501	1.0096	1.0511	Primary metals
Industrial Processes Mineral Processes	2305	1.0499	1.0924	1.0946	1.0915	1.0902	1.0809	Stone, clay, glass
Industrial Processes Petroleum Refining	2306	1.1341	1.0953	1.0710	1.1260	1.0486	0.8908	Petroleum products
Industrial Processes Wood Products	2307	1.0844	1.0551	0.8889	1.0377	1.0512	1.1294	Lumber & wood
Industrial Processes Rubber/Plastics	2308	1.2464	1.2790	1.4000	1.2663	1.2371	1.2426	Rubber & plastics

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	ASC	AL	AR	DC	FL	GA	IA	BEA Surrogate
Industrial Processes Fabricated Metals	2309	1.0553	1.0918	0.8909	0.9934	1.0835	1.0605	Fabricated metals
Industrial Processes Oil and Gas Production	2310	0.8976	0.9770	1.1973	1.2170	1.0877	1.2444	Oil & gas
Industrial Processes Construction	2311	1.0641	1.0700	0.9885	1.1330	1.0998	1.0590	Construction
Industrial Processes Machinery	2312	1.3388	1.3579	1.2310	1.2431	1.3379	1.1995	Indust. machinery
Industrial Processes Mining and Quarrying	2325	1.1509	1.0973	1.1200	1.0568	1.1312	1.1195	Nonmetallic minerals
Industrial Processes In-process Fuel Use	2390	1.1671	1.1690	1.0350	1.1700	1.1646	1.1360	Manufacturing
Industrial Processes Industrial Processes: NEC	2399	1.1671	1.1690	1.0350	1.1700	1.1646	1.1360	Manufacturing
Solvent Utilization Surface Coating	2401	1.1671	1.1690	1.0350	1.1700	1.1646	1.1360	Manufacturing
Solvent Utilization Degreasing	2415	1.1671	1.1690	1.0350	1.1700	1.1646	1.1360	Manufacturing
Solvent Utilization Dry Cleaning	2420	1.0876	1.0697	1.0041	1.1306	1.1109	1.0474	Personal services
Solvent Utilization Graphic Arts	2425	1.0638	1.0285	1.0137	1.1267	1.1070	1.0263	Printing & publish.
Solvent Utilization Rubber/Plastics	2430	1.2464	1.2790	1.4000	1.2663	1.2371	1.2426	Rubber & plastics
Solvent Utilization Miscellaneous Industrial	2440	1.1552	1.1660	1.0937	1.2140	1.1532	1.1411	Misc. manufacturing
Solvent Utilization Miscellaneous Non-industrial: All Classes	2460	1.1011	1.0853	1.0905	1.0500	1.1441	1.0713	Chemicals
Solvent Utilization Miscellaneous Non-industrial: Commercial	2461	1.1671	1.1690	1.0350	1.1700	1.1646	1.1360	Manufacturing
Solvent Utilization Miscellaneous Non-industrial: Consumer	2465	1.0503	1.0561	0.9891	1.1334	1.0930	1.0326	Total Population
Solvent Utilization All Solvent User Categories	2495	1.1011	1.0853	1.0905	1.0500	1.1441	1.0713	Chemicals
Storage and Transport Petroleum and Petroleum Product Storage	2501	1.1341	1.0953	1.0710	1.1260	1.0486	0.8908	Petroleum products
Storage and Transport Petroleum and Petroleum Product Transport	2505	0.9872	1.0542	1.0959	1.2511	1.1358	0.9638	Pipelines
Storage and Transport Organic Chemical Storage	2510	1.1011	1.0853	1.0905	1.0500	1.1441	1.0713	Chemicals
Storage and Transport Organic Chemical Transport	2515	1.1011	1.0853	1.0905	1.0500	1.1441	1.0713	Chemicals
Storage and Transport Inorganic Chemical Storage	2520	1.1011	1.0853	1.0905	1.0500	1.1441	1.0713	Chemicals
Storage and Transport Inorganic Chemical Transport	2525	0.9872	1.0542	1.0959	1.2511	1.1358	0.9638	Pipelines
Storage and Transport Bulk Materials Storage	2530	1.1338	1.0090	1.2392	1.1130	1.1281	1.1213	Mining
Storage and Transport Bulk Materials Transport	2535	1.1338	1.0090	1.2392	1.1130	1.1281	1.1213	Mining
Waste Disposal, Treatment, and Recovery - On-Site Incineration	2601	1.0503	1.0561	0.9891	1.1334	1.0930	1.0326	Total Population
Waste Disposal, Treatment, and Recovery - Open Burning	2610	1.0503	1.0561	0.9891	1.1334	1.0930	1.0326	Total Population
Waste Disposal, Treatment, and Recovery - Landfills	2620	1.0503	1.0561	0.9891	1.1334	1.0930	1.0326	Total Population
Waste Disposal, Treatment, and Recovery - Wastewater Treatments	2630	1.0503	1.0561	0.9891	1.1334	1.0930	1.0326	Total Population

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Description	ASC	AL	AR	DC	FL	GA	IA	BEA Surrogate
Waste Disposal, Treatment, and Recovery - TSDFs	2640	1.1671	1.1690	1.0350	1.1700	1.1646	1.1360	Manufacturing
Waste Disposal, Treatment, and Recovery - Scrap and Waste Materials	2650	1.1671	1.1690	1.0350	1.1700	1.1646	1.1360	Manufacturing
Waste Disposal, Treatment, and Recovery - Leaking Underground Storage Tanks	2660	1.1671	1.1690	1.0350	1.1700	1.1646	1.1360	Manufacturing
Miscellaneous Area Sources Agriculture Production - Crops	2801	1.1606	1.1290	1.0000	1.1869	1.1230	1.2078	Farm
Miscellaneous Area Sources Agriculture Production - Livestock	2805	1.1606	1.1290	1.0000	1.1869	1.1230	1.2078	Farm
Miscellaneous Area Sources Cooling Towers	2820	1.1671	1.1690	1.0350	1.1700	1.1646	1.1360	Manufacturing
Miscellaneous Area Sources Catastrophic/Accidental Releases	2830	1.1671	1.1690	1.0350	1.1700	1.1646	1.1360	Manufacturing
Miscellaneous Area Sources Automotive Repair Shops	2840	1.1339	1.1158	1.0396	1.1694	1.1749	1.1045	Auto repair & parking
Miscellaneous Area Sources Miscellaneous Repair Shops	2841	1.2586	1.2240	1.1429	1.2917	1.2753	1.2052	Business services
Miscellaneous Area Sources Health Services	2850	1.1922	1.1833	1.1405	1.2588	1.2768	1.1432	Health services

Source: Developed from BEA, 1995.

Table B-2
BEA Gross State Product (GSP) Growth Factors by 4-Digit ASC for 1999 to 2007 for States of IL, IN, KS, KY, MD and MI

Description	ASC	IL	IN	KS	KY	MD	MI	BEA Surrogate
Stationary Source Fuel Combustion Electric Utility	2101	1.1223	1.1304	1.1614	1.1173	1.1583	1.1179	Utilities
Stationary Source Fuel Combustion Industrial	2102	1.1172	1.1380	1.1534	1.1338	1.0756	1.0884	Manufacturing
Stationary Source Fuel Combustion Commercial/Institutional	2103	1.1172	1.1380	1.1534	1.1338	1.0756	1.0884	Manufacturing
Stationary Source Fuel Combustion Residential	2104	1.0503	1.0409	1.0574	1.0293	1.0562	1.0325	Private households
Stationary Source Fuel Combustion Total Area Source Fuel Combustion	2199	1.0552	1.0479	1.0552	1.0500	1.0776	1.0328	Total Population
Mobile Sources Off-highway Vehicle Gasoline 2-Stroke	2260	1.0552	1.0479	1.0552	1.0500	1.0776	1.0328	Total Population
Mobile Sources Off-highway Vehicle Gasoline 4-Stroke	2265	1.0552	1.0479	1.0552	1.0500	1.0776	1.0328	Total Population
Mobile Sources Off-highway Vehicle Gasoline LPG	2267	1.0552	1.0479	1.0552	1.0500	1.0776	1.0328	Total Population
Mobile Sources Off-highway Vehicle Gasoline CNG	2268	1.0552	1.0479	1.0552	1.0500	1.0776	1.0328	Total Population
Mobile Sources Off-highway Vehicle Gasoline Diesel	2270	1.0552	1.0479	1.0552	1.0500	1.0776	1.0328	Total Population
Mobile Sources Aircraft	2275	1.2683	1.3536	1.3029	1.3120	1.3482	1.2258	Transportation by air
Mobile Sources Marine Vessels	2280	1.0538	1.1012	1.0905	1.0153	0.9617	1.0681	Water transportation
Mobile Sources Pleasure Craft	2282	1.0552	1.0479	1.0552	1.0500	1.0776	1.0328	Total Population
Mobile Sources Railroads	2285	1.2087	1.2585	1.2513	1.1765	1.0927	1.1821	Railroad transport.
Mobile Sources Paved Roads	2294	1.1307	1.1251	1.1228	1.1175	1.1187	1.0822	Local & interurban
Mobile Sources Unpaved Roads	2296	1.1307	1.1251	1.1228	1.1175	1.1187	1.0822	Local & interurban
Industrial Processes Chemical Manufacturing	2301	1.1349	1.1339	1.0829	1.1089	1.1170	1.1285	Chemicals
Industrial Processes Food and Kindred Products	2302	1.0599	1.0679	1.1307	1.0571	1.0084	1.0613	Food & kindred
Industrial Processes Primary Metal Production	2303	0.9951	1.0348	1.0696	1.0555	0.9017	1.0000	Primary metals
Industrial Processes Secondary Metal Production	2304	0.9951	1.0348	1.0696	1.0555	0.9017	1.0000	Primary metals
Industrial Processes Mineral Processes	2305	1.0273	1.0512	1.0284	1.1232	0.9985	1.0684	Stone, clay, glass
Industrial Processes Petroleum Refining	2306	1.0719	1.1224	1.0982	1.1282	1.1523	1.0652	Petroleum products
Industrial Processes Wood Products	2307	1.0338	1.1148	1.0720	1.1221	1.0629	1.0748	Lumber & wood
Industrial Processes Rubber/Plastics	2308	1.2330	1.2656	1.2691	1.2341	1.1520	1.2866	Rubber & plastics
Industrial Processes Fabricated Metals	2309	1.0068	1.0527	1.0311	1.1467	1.0111	1.0418	Fabricated metals
Industrial Processes Oil and Gas Production	2310	0.8898	0.9427	0.9703	0.9545	1.0000	0.9467	Oil & gas
Industrial Processes Construction	2311	1.0644	1.0653	1.0585	1.0635	1.0507	1.0531	Construction

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Description	ASC	IL	IN	KS	KY	MD	MI	BEA Surrogate
Industrial Processes Machinery	2312	1.2091	1.2546	1.2382	1.2140	1.2043	1.2220	Indust. machinery
Industrial Processes Mining and Quarrying	2325	1.0620	1.0860	1.0982	1.1293	1.0725	1.1041	Nonmetallic minerals
Industrial Processes In-process Fuel Use	2390	1.1172	1.1380	1.1534	1.1338	1.0756	1.0884	Manufacturing
Industrial Processes Industrial Processes: NEC	2399	1.1172	1.1380	1.1534	1.1338	1.0756	1.0884	Manufacturing
Solvent Utilization Surface Coating	2401	1.1172	1.1380	1.1534	1.1338	1.0756	1.0884	Manufacturing
Solvent Utilization Degreasing	2415	1.1172	1.1380	1.1534	1.1338	1.0756	1.0884	Manufacturing
Solvent Utilization Dry Cleaning	2420	1.0669	1.0690	1.0792	1.0613	1.0699	1.0532	Personal services
Solvent Utilization Graphic Arts	2425	1.0365	1.0454	1.0769	1.0303	1.0690	1.0290	Printing & publish.
Solvent Utilization Rubber/Plastics	2430	1.2330	1.2656	1.2691	1.2341	1.1520	1.2866	Rubber & plastics
Solvent Utilization Miscellaneous Industrial	2440	1.1066	1.1436	1.1123	1.1487	1.0661	1.1159	Misc. manufacturing
Solvent Utilization Miscellaneous Non-industrial: All Classes	2460	1.1349	1.1339	1.0829	1.1089	1.1170	1.1285	Chemicals
Solvent Utilization Miscellaneous Non-industrial: Commercial	2461	1.1172	1.1380	1.1534	1.1338	1.0756	1.0884	Manufacturing
Solvent Utilization Miscellaneous Non-industrial: Consumer	2465	1.0552	1.0479	1.0552	1.0500	1.0776	1.0328	Total Population
Solvent Utilization All Solvent User Categories	2495	1.1349	1.1339	1.0829	1.1089	1.1170	1.1285	Chemicals
Storage and Transport Petroleum and Petroleum Product Storage	2501	1.0719	1.1224	1.0982	1.1282	1.1523	1.0652	Petroleum products
Storage and Transport Petroleum and Petroleum Product Transport	2505	1.0193	1.0203	1.1442	1.0472	1.0641	1.0820	Pipelines
Storage and Transport Organic Chemical Storage	2510	1.1349	1.1339	1.0829	1.1089	1.1170	1.1285	Chemicals
Storage and Transport Organic Chemical Transport	2515	1.1349	1.1339	1.0829	1.1089	1.1170	1.1285	Chemicals
Storage and Transport Inorganic Chemical Storage	2520	1.1349	1.1339	1.0829	1.1089	1.1170	1.1285	Chemicals
Storage and Transport Inorganic Chemical Transport	2525	1.0193	1.0203	1.1442	1.0472	1.0641	1.0820	Pipelines
Storage and Transport Bulk Materials Storage	2530	1.1815	1.1687	0.9794	1.2185	1.2237	1.0771	Mining
Storage and Transport Bulk Materials Transport	2535	1.1815	1.1687	0.9794	1.2185	1.2237	1.0771	Mining
Waste Disposal, Treatment, and Recovery - On-Site Incineration	2601	1.0552	1.0479	1.0552	1.0500	1.0776	1.0328	Total Population
Waste Disposal, Treatment, and Recovery - Open Burning	2610	1.0552	1.0479	1.0552	1.0500	1.0776	1.0328	Total Population
Waste Disposal, Treatment, and Recovery - Landfills	2620	1.0552	1.0479	1.0552	1.0500	1.0776	1.0328	Total Population
Waste Disposal, Treatment, and Recovery - Wastewater Treatments	2630	1.0552	1.0479	1.0552	1.0500	1.0776	1.0328	Total Population
Waste Disposal, Treatment, and Recovery - TSDFs	2640	1.1172	1.1380	1.1534	1.1338	1.0756	1.0884	Manufacturing
Waste Disposal, Treatment, and Recovery - Scrap and Waste Materials	2650	1.1172	1.1380	1.1534	1.1338	1.0756	1.0884	Manufacturing
Waste Disposal, Treatment, and Recovery - Leaking Underground Storage Tanks	2660	1.1172	1.1380	1.1534	1.1338	1.0756	1.0884	Manufacturing

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	ASC	IL	IN	KS	KY	MD	MI	BEA Surrogate
Miscellaneous Area Sources Agriculture Production - Crops	2801	1.1186	1.1904	1.1337	1.2015	1.1518	1.1599	Farm
Miscellaneous Area Sources Agriculture Production - Livestock	2805	1.1186	1.1904	1.1337	1.2015	1.1518	1.1599	Farm
Miscellaneous Area Sources Cooling Towers	2820	1.1172	1.1380	1.1534	1.1338	1.0756	1.0884	Manufacturing
Miscellaneous Area Sources Catastrophic/Accidental Releases	2830	1.1172	1.1380	1.1534	1.1338	1.0756	1.0884	Manufacturing
Miscellaneous Area Sources Automotive Repair Shops	2840	1.1253	1.1182	1.1437	1.1338	1.1425	1.1028	Auto repair & parking
Miscellaneous Area Sources Miscellaneous Repair Shops	2841	1.1915	1.2290	1.2382	1.2596	1.2166	1.2031	Business services
Miscellaneous Area Sources Health Services	2850	1.1738	1.1811	1.1762	1.1874	1.2034	1.1492	Health services

Source: Developed from BEA, 1995.

Table B-3
BEA Gross State Product (GSP) Growth Factors by 4-Digit ASC for 1999 to 2007 for States of MO, MS, NC, NE, NY and OH

Description	ASC	MO	MS	NC	NE	NY	OH	BEA Surrogate
Stationary Source Fuel Combustion Electric Utility	2101	1.1258	1.1566	1.1674	1.1497	1.1116	1.1141	Utilities
Stationary Source Fuel Combustion Industrial	2102	1.1178	1.1713	1.1466	1.1406	1.0327	1.1161	Manufacturing
Stationary Source Fuel Combustion Commercial/Institutional	2103	1.1178	1.1713	1.1466	1.1406	1.0327	1.1161	Manufacturing
Stationary Source Fuel Combustion Residential	2104	1.0395	1.0280	1.0750	1.0446	1.0353	1.0105	Private households
Stationary Source Fuel Combustion Total Area Source Fuel Combustion	2199	1.0588	1.0419	1.0869	1.0501	1.0182	1.0349	Total Population
Mobile Sources Off-highway Vehicle Gasoline 2-Stroke	2260	1.0588	1.0419	1.0869	1.0501	1.0182	1.0349	Total Population
Mobile Sources Off-highway Vehicle Gasoline 4-Stroke	2265	1.0588	1.0419	1.0869	1.0501	1.0182	1.0349	Total Population
Mobile Sources Off-highway Vehicle Gasoline LPG	2267	1.0588	1.0419	1.0869	1.0501	1.0182	1.0349	Total Population
Mobile Sources Off-highway Vehicle Gasoline CNG	2268	1.0588	1.0419	1.0869	1.0501	1.0182	1.0349	Total Population
Mobile Sources Off-highway Vehicle Gasoline Diesel	2270	1.0588	1.0419	1.0869	1.0501	1.0182	1.0349	Total Population
Mobile Sources Aircraft	2275	1.1542	1.3505	1.2937	1.2788	1.1465	1.2588	Transportation by air
Mobile Sources Marine Vessels	2280	0.8802	1.0072	1.0668	1.0492	0.8598	1.0281	Water transportation
Mobile Sources Pleasure Craft	2282	1.0588	1.0419	1.0869	1.0501	1.0182	1.0349	Total Population
Mobile Sources Railroads	2285	1.2531	1.2256	1.1963	1.2771	1.2004	1.1598	Railroad transport.
Mobile Sources Paved Roads	2294	1.1214	1.0994	1.0441	1.1282	1.0796	1.1258	Local & interurban
Mobile Sources Unpaved Roads	2296	1.1214	1.0994	1.0441	1.1282	1.0796	1.1258	Local & interurban
Industrial Processes Chemical Manufacturing	2301	1.1267	1.1060	1.1903	1.1352	1.0696	1.1175	Chemicals
Industrial Processes Food and Kindred Products	2302	1.1039	1.1235	1.1249	1.0876	1.0091	1.0903	Food & kindred
Industrial Processes Primary Metal Production	2303	1.0165	1.0810	1.1158	1.0645	0.8853	1.0142	Primary metals
Industrial Processes Secondary Metal Production	2304	1.0165	1.0810	1.1158	1.0645	0.8853	1.0142	Primary metals
Industrial Processes Mineral Processes	2305	1.0569	1.0597	1.1164	1.0740	1.0454	1.0375	Stone, clay, glass
Industrial Processes Petroleum Refining	2306	1.1247	1.1112	1.1804	1.1833	1.0508	1.1216	Petroleum products
Industrial Processes Wood Products	2307	1.0776	1.0716	1.1054	1.0581	1.0364	1.1239	Lumber & wood
Industrial Processes Rubber/Plastics	2308	1.2550	1.3197	1.2759	1.2416	1.2018	1.1797	Rubber & plastics
Industrial Processes Fabricated Metals	2309	1.0739	1.0548	1.1251	1.0456	0.9689	1.0291	Fabricated metals
Industrial Processes Oil and Gas Production	2310	0.9812	1.0061	1.1133	0.9119	0.9995	0.9485	Oil & gas
Industrial Processes Construction	2311	1.0536	1.0784	1.1117	1.0902	1.0205	1.0663	Construction

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Description	ASC	MO	MS	NC	NE	NY	OH	BEA Surrogate
Industrial Processes Machinery	2312	1.2346	1.3359	1.2821	1.2307	1.0931	1.2235	Indust. machinery
Industrial Processes Mining and Quarrying	2325	1.0734	1.1073	1.1042	1.1175	1.0868	1.0931	Nonmetallic minerals
Industrial Processes In-process Fuel Use	2390	1.1178	1.1713	1.1466	1.1406	1.0327	1.1161	Manufacturing
Industrial Processes Industrial Processes: NEC	2399	1.1178	1.1713	1.1466	1.1406	1.0327	1.1161	Manufacturing
Solvent Utilization Surface Coating	2401	1.1178	1.1713	1.1466	1.1406	1.0327	1.1161	Manufacturing
Solvent Utilization Degreasing	2415	1.1178	1.1713	1.1466	1.1406	1.0327	1.1161	Manufacturing
Solvent Utilization Dry Cleaning	2420	1.0717	1.0736	1.0916	1.0673	1.0224	1.0585	Personal services
Solvent Utilization Graphic Arts	2425	1.0487	1.0805	1.1131	1.0408	0.9719	1.0174	Printing & publish.
Solvent Utilization Rubber/Plastics	2430	1.2550	1.3197	1.2759	1.2416	1.2018	1.1797	Rubber & plastics
Solvent Utilization Miscellaneous Industrial	2440	1.1269	1.1150	1.2243	1.1042	1.0639	1.1450	Misc. manufacturing
Solvent Utilization Miscellaneous Non-industrial: All Classes	2460	1.1267	1.1060	1.1903	1.1352	1.0696	1.1175	Chemicals
Solvent Utilization Miscellaneous Non-industrial: Commercial	2461	1.1178	1.1713	1.1466	1.1406	1.0327	1.1161	Manufacturing
Solvent Utilization Miscellaneous Non-industrial: Consumer	2465	1.0588	1.0419	1.0869	1.0501	1.0182	1.0349	Total Population
Solvent Utilization All Solvent User Categories	2495	1.1267	1.1060	1.1903	1.1352	1.0696	1.1175	Chemicals
Storage and Transport Petroleum and Petroleum Product Storage	2501	1.1247	1.1112	1.1804	1.1833	1.0508	1.1216	Petroleum products
Storage and Transport Petroleum and Petroleum Product Transport	2505	0.9943	1.0620	1.0842	1.0337	1.0638	1.0413	Pipelines
Storage and Transport Organic Chemical Storage	2510	1.1267	1.1060	1.1903	1.1352	1.0696	1.1175	Chemicals
Storage and Transport Organic Chemical Transport	2515	1.1267	1.1060	1.1903	1.1352	1.0696	1.1175	Chemicals
Storage and Transport Inorganic Chemical Storage	2520	1.1267	1.1060	1.1903	1.1352	1.0696	1.1175	Chemicals
Storage and Transport Inorganic Chemical Transport	2525	0.9943	1.0620	1.0842	1.0337	1.0638	1.0413	Pipelines
Storage and Transport Bulk Materials Storage	2530	1.1278	0.9983	1.0841	1.0661	1.0733	1.0906	Mining
Storage and Transport Bulk Materials Transport	2535	1.1278	0.9983	1.0841	1.0661	1.0733	1.0906	Mining
Waste Disposal, Treatment, and Recovery - On-Site Incineration	2601	1.0588	1.0419	1.0869	1.0501	1.0182	1.0349	Total Population
Waste Disposal, Treatment, and Recovery - Open Burning	2610	1.0588	1.0419	1.0869	1.0501	1.0182	1.0349	Total Population
Waste Disposal, Treatment, and Recovery - Landfills	2620	1.0588	1.0419	1.0869	1.0501	1.0182	1.0349	Total Population
Waste Disposal, Treatment, and Recovery - Wastewater Treatments	2630	1.0588	1.0419	1.0869	1.0501	1.0182	1.0349	Total Population
Waste Disposal, Treatment, and Recovery - TSDFs	2640	1.1178	1.1713	1.1466	1.1406	1.0327	1.1161	Manufacturing
Waste Disposal, Treatment, and Recovery - Scrap and Waste Materials	2650	1.1178	1.1713	1.1466	1.1406	1.0327	1.1161	Manufacturing
Waste Disposal, Treatment, and Recovery - Leaking Underground Storage Tanks	2660	1.1178	1.1713	1.1466	1.1406	1.0327	1.1161	Manufacturing

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	ASC	MO	MS	NC	NE	NY	OH	BEA Surrogate
Miscellaneous Area Sources Agriculture Production - Crops	2801	1.1838	1.1442	1.1009	1.1333	1.1740	1.1656	Farm
Miscellaneous Area Sources Agriculture Production - Livestock	2805	1.1838	1.1442	1.1009	1.1333	1.1740	1.1656	Farm
Miscellaneous Area Sources Cooling Towers	2820	1.1178	1.1713	1.1466	1.1406	1.0327	1.1161	Manufacturing
Miscellaneous Area Sources Catastrophic/Accidental Releases	2830	1.1178	1.1713	1.1466	1.1406	1.0327	1.1161	Manufacturing
Miscellaneous Area Sources Automotive Repair Shops	2840	1.1233	1.1214	1.1704	1.1245	1.0582	1.1192	Auto repair & parking
Miscellaneous Area Sources Miscellaneous Repair Shops	2841	1.2129	1.2399	1.2951	1.2218	1.1224	1.1994	Business services
Miscellaneous Area Sources Health Services	2850	1.1763	1.1992	1.2619	1.1721	1.1614	1.1590	Health services

Source: Developed from BEA, 1995.

Table B-4
BEA Gross State Product (GSP) Growth Factors by 4-Digit ASC for 1999 to 2007 for States of OK, PA, SC, TN, VA and WV

Description	ASC	OK	PA	SC	TN	VA	WV	BEA Surrogate
Stationary Source Fuel Combustion Electric Utility	2101	1.1421	1.1179	1.1636	1.2014	1.1715	1.1338	Utilities
Stationary Source Fuel Combustion Industrial	2102	1.1610	1.0735	1.2067	1.1574	1.1208	1.0722	Manufacturing
Stationary Source Fuel Combustion Commercial/Institutional	2103	1.1610	1.0735	1.2067	1.1574	1.1208	1.0722	Manufacturing
Stationary Source Fuel Combustion Residential	2104	1.0432	1.0193	1.0603	1.0551	1.0519	1.0229	Private households
Stationary Source Fuel Combustion Total Area Source Fuel Combustion	2199	1.0542	1.0379	1.0831	1.0758	1.0786	1.0270	Total Population
Mobile Sources Off-highway Vehicle Gasoline 2-Stroke	2260	1.0542	1.0379	1.0831	1.0758	1.0786	1.0270	Total Population
Mobile Sources Off-highway Vehicle Gasoline 4-Stroke	2265	1.0542	1.0379	1.0831	1.0758	1.0786	1.0270	Total Population
Mobile Sources Off-highway Vehicle Gasoline LPG	2267	1.0542	1.0379	1.0831	1.0758	1.0786	1.0270	Total Population
Mobile Sources Off-highway Vehicle Gasoline CNG	2268	1.0542	1.0379	1.0831	1.0758	1.0786	1.0270	Total Population
Mobile Sources Off-highway Vehicle Gasoline Diesel	2270	1.0542	1.0379	1.0831	1.0758	1.0786	1.0270	Total Population
Mobile Sources Aircraft	2275	1.2662	1.2724	1.3697	1.3352	1.2586	1.2461	Transportation by air
Mobile Sources Marine Vessels	2280	1.1059	0.9851	1.0546	1.0878	1.0326	1.0177	Water transportation
Mobile Sources Pleasure Craft	2282	1.0542	1.0379	1.0831	1.0758	1.0786	1.0270	Total Population
Mobile Sources Railroads	2285	1.2016	1.2162	1.2214	1.2237	1.2718	1.2173	Railroad transport.
Mobile Sources Paved Roads	2294	1.0939	1.1260	1.1236	1.1311	1.1093	1.0957	Local & interurban
Mobile Sources Unpaved Roads	2296	1.0939	1.1260	1.1236	1.1311	1.1093	1.0957	Local & interurban
Industrial Processes Chemical Manufacturing	2301	1.1097	1.1212	1.1650	1.1076	1.0783	1.0490	Chemicals
Industrial Processes Food and Kindred Products	2302	1.0977	1.0645	1.1234	1.1118	1.1256	1.0518	Food & kindred
Industrial Processes Primary Metal Production	2303	1.0935	0.8953	1.1596	1.0676	1.0486	1.0062	Primary metals
Industrial Processes Secondary Metal Production	2304	1.0935	0.8953	1.1596	1.0676	1.0486	1.0062	Primary metals
Industrial Processes Mineral Processes	2305	1.0674	1.0178	1.0620	1.0911	1.0452	1.0237	Stone, clay, glass
Industrial Processes Petroleum Refining	2306	1.1152	1.0415	1.2691	1.1205	1.1811	1.0816	Petroleum products
Industrial Processes Wood Products	2307	1.0845	1.0979	1.0506	1.1064	1.0914	1.1425	Lumber & wood
Industrial Processes Rubber/Plastics	2308	1.2588	1.2144	1.2557	1.2579	1.2693	1.3066	Rubber & plastics
Industrial Processes Fabricated Metals	2309	1.1199	1.0018	1.1633	1.0876	1.0470	1.0878	Fabricated metals
Industrial Processes Oil and Gas Production	2310	0.9568	1.0256	1.0050	1.0034	1.0902	0.9336	Oil & gas
Industrial Processes Construction	2311	1.0876	1.0364	1.1247	1.0918	1.0907	1.0369	Construction

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	ASC	OK	PA	SC	TN	VA	WV	BEA Surrogate
Industrial Processes Machinery	2312	1.2321	1.1928	1.3869	1.2828	1.3207	1.1821	Indust. machinery
Industrial Processes Mining and Quarrying	2325	1.1151	1.1185	1.1339	1.1007	1.1064	1.0776	Nonmetallic minerals
Industrial Processes In-process Fuel Use	2390	1.1610	1.0735	1.2067	1.1574	1.1208	1.0722	Manufacturing
Industrial Processes Industrial Processes: NEC	2399	1.1610	1.0735	1.2067	1.1574	1.1208	1.0722	Manufacturing
Solvent Utilization Surface Coating	2401	1.1610	1.0735	1.2067	1.1574	1.1208	1.0722	Manufacturing
Solvent Utilization Degreasing	2415	1.1610	1.0735	1.2067	1.1574	1.1208	1.0722	Manufacturing
Solvent Utilization Dry Cleaning	2420	1.0786	1.0431	1.1087	1.0826	1.0842	1.0393	Personal services
Solvent Utilization Graphic Arts	2425	1.0001	1.0376	1.1019	1.0689	1.0952	1.0263	Printing & publish.
Solvent Utilization Rubber/Plastics	2430	1.2588	1.2144	1.2557	1.2579	1.2693	1.3066	Rubber & plastics
Solvent Utilization Miscellaneous Industrial	2440	1.1913	1.0798	1.1400	1.1732	1.1310	1.1600	Misc. manufacturing
Solvent Utilization Miscellaneous Non-industrial: All Classes	2460	1.1097	1.1212	1.1650	1.1076	1.0783	1.0490	Chemicals
Solvent Utilization Miscellaneous Non-industrial: Commercial	2461	1.1610	1.0735	1.2067	1.1574	1.1208	1.0722	Manufacturing
Solvent Utilization Miscellaneous Non-industrial: Consumer	2465	1.0542	1.0379	1.0831	1.0758	1.0786	1.0270	Total Population
Solvent Utilization All Solvent User Categories	2495	1.1097	1.1212	1.1650	1.1076	1.0783	1.0490	Chemicals
Storage and Transport Petroleum and Petroleum Product Storage	2501	1.1152	1.0415	1.2691	1.1205	1.1811	1.0816	Petroleum products
Storage and Transport Petroleum and Petroleum Product Transport	2505	1.0374	1.0231	1.0126	1.0281	1.0341	0.9996	Pipelines
Storage and Transport Organic Chemical Storage	2510	1.1097	1.1212	1.1650	1.1076	1.0783	1.0490	Chemicals
Storage and Transport Organic Chemical Transport	2515	1.1097	1.1212	1.1650	1.1076	1.0783	1.0490	Chemicals
Storage and Transport Inorganic Chemical Storage	2520	1.1097	1.1212	1.1650	1.1076	1.0783	1.0490	Chemicals
Storage and Transport Inorganic Chemical Transport	2525	1.0374	1.0231	1.0126	1.0281	1.0341	0.9996	Pipelines
Storage and Transport Bulk Materials Storage	2530	0.9565	1.1209	1.1550	1.1194	1.1963	1.1359	Mining
Storage and Transport Bulk Materials Transport	2535	0.9565	1.1209	1.1550	1.1194	1.1963	1.1359	Mining
Waste Disposal, Treatment, and Recovery - On-Site Incineration	2601	1.0542	1.0379	1.0831	1.0758	1.0786	1.0270	Total Population
Waste Disposal, Treatment, and Recovery - Open Burning	2610	1.0542	1.0379	1.0831	1.0758	1.0786	1.0270	Total Population
Waste Disposal, Treatment, and Recovery - Landfills	2620	1.0542	1.0379	1.0831	1.0758	1.0786	1.0270	Total Population
Waste Disposal, Treatment, and Recovery - Wastewater Treatments	2630	1.0542	1.0379	1.0831	1.0758	1.0786	1.0270	Total Population
Waste Disposal, Treatment, and Recovery - TSDFs	2640	1.1610	1.0735	1.2067	1.1574	1.1208	1.0722	Manufacturing
Waste Disposal, Treatment, and Recovery - Scrap and Waste Materials	2650	1.1610	1.0735	1.2067	1.1574	1.1208	1.0722	Manufacturing
Waste Disposal, Treatment, and Recovery - Leaking Underground Storage Tanks	2660	1.1610	1.0735	1.2067	1.1574	1.1208	1.0722	Manufacturing

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	ASC	OK	PA	SC	TN	VA	WV	BEA Surrogate
Miscellaneous Area Sources Agriculture Production - Crops	2801	1.1973	1.1697	1.1338	1.1853	1.1052	1.2984	Farm
Miscellaneous Area Sources Agriculture Production - Livestock	2805	1.1973	1.1697	1.1338	1.1853	1.1052	1.2984	Farm
Miscellaneous Area Sources Cooling Towers	2820	1.1610	1.0735	1.2067	1.1574	1.1208	1.0722	Manufacturing
Miscellaneous Area Sources Catastrophic/Accidental Releases	2830	1.1610	1.0735	1.2067	1.1574	1.1208	1.0722	Manufacturing
Miscellaneous Area Sources Automotive Repair Shops	2840	1.1351	1.0974	1.1629	1.1513	1.1412	1.1134	Auto repair & parking
Miscellaneous Area Sources Miscellaneous Repair Shops	2841	1.2037	1.1789	1.2934	1.2658	1.2435	1.2511	Business services
Miscellaneous Area Sources Health Services	2850	1.1790	1.1822	1.2648	1.2051	1.2093	1.1628	Health services

Source: Developed from BEA, 1995.

Table B-5
BEA Gross State Product (GSP) Growth Factors by 4-Digit ASC for 2000 to 2007 for State of AR

Description	ASC	AR	BEA Surrogate
Stationary Source Fuel Combustion Electric Utility	2101	1.1344	Utilities
Stationary Source Fuel Combustion Industrial	2102	1.1484	Manufacturing
Stationary Source Fuel Combustion Commercial/Institutional	2103	1.1484	Manufacturing
Stationary Source Fuel Combustion Residential	2104	1.0199	Private households
Stationary Source Fuel Combustion Total Area Source Fuel Combustion	2199	1.0489	Total Population
Mobile Sources Off-highway Vehicle Gasoline 2-Stroke	2260	1.0489	Total Population
Mobile Sources Off-highway Vehicle Gasoline 4-Stroke	2265	1.0489	Total Population
Mobile Sources Off-highway Vehicle Gasoline LPG	2267	1.0489	Total Population
Mobile Sources Off-highway Vehicle Gasoline CNG	2268	1.0489	Total Population
Mobile Sources Off-highway Vehicle Gasoline Diesel	2270	1.0489	Total Population
Mobile Sources Aircraft	2275	1.2240	Transportation by air
Mobile Sources Marine Vessels	2280	1.0526	Water transportation
Mobile Sources Pleasure Craft	2282	1.0489	Total Population
Mobile Sources Railroads	2285	1.2123	Railroad transport.
Mobile Sources Paved Roads	2294	1.1160	Local & interurban
Mobile Sources Unpaved Roads	2296	1.1160	Local & interurban
Industrial Processes Chemical Manufacturing	2301	1.0809	Chemicals
Industrial Processes Food and Kindred Products	2302	1.1373	Food & kindred
Industrial Processes Primary Metal Production	2303	1.1109	Primary metals
Industrial Processes Secondary Metal Production	2304	1.1109	Primary metals
Industrial Processes Mineral Processes	2305	1.0909	Stone, clay, glass
Industrial Processes Petroleum Refining	2306	1.0895	Petroleum products
Industrial Processes Wood Products	2307	1.0581	Lumber & wood
Industrial Processes Rubber/Plastics	2308	1.2387	Rubber & plastics
Industrial Processes Fabricated Metals	2309	1.0890	Fabricated metals
Industrial Processes Oil and Gas Production	2310	0.9761	Oil & gas
Industrial Processes Construction	2311	1.0632	Construction

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	ASC	AR	BEA Surrogate
Industrial Processes Machinery	2312	1.2926	Indust. machinery
Industrial Processes Mining and Quarrying	2325	1.0779	Nonmetallic minerals
Industrial Processes In-process Fuel Use	2390	1.1484	Manufacturing
Industrial Processes Industrial Processes: NEC	2399	1.1484	Manufacturing
Solvent Utilization Surface Coating	2401	1.1484	Manufacturing
Solvent Utilization Degreasing	2415	1.1484	Manufacturing
Solvent Utilization Dry Cleaning	2420	1.0589	Personal services
Solvent Utilization Graphic Arts	2425	1.0347	Printing & publish.
Solvent Utilization Rubber/Plastics	2430	1.2387	Rubber & plastics
Solvent Utilization Miscellaneous Industrial	2440	1.1460	Misc. manufacturing
Solvent Utilization Miscellaneous Non-industrial: All Classes	2460	1.0809	Chemicals
Solvent Utilization Miscellaneous Non-industrial: Commercial	2461	1.1484	Manufacturing
Solvent Utilization Miscellaneous Non-industrial: Consumer	2465	1.0489	Total Population
Solvent Utilization All Solvent User Categories	2495	1.0809	Chemicals
Storage and Transport Petroleum and Petroleum Product Storage	2501	1.0895	Petroleum products
Storage and Transport Petroleum and Petroleum Product Transport	2505	1.0384	Pipelines
Storage and Transport Organic Chemical Storage	2510	1.0809	Chemicals
Storage and Transport Organic Chemical Transport	2515	1.0809	Chemicals
Storage and Transport Inorganic Chemical Storage	2520	1.0809	Chemicals
Storage and Transport Inorganic Chemical Transport	2525	1.0384	Pipelines
Storage and Transport Bulk Materials Storage	2530	1.0123	Mining
Storage and Transport Bulk Materials Transport	2535	1.0123	Mining
Waste Disposal, Treatment, and Recovery - On-Site Incineration	2601	1.0489	Total Population
Waste Disposal, Treatment, and Recovery - Open Burning	2610	1.0489	Total Population
Waste Disposal, Treatment, and Recovery – Landfills	2620	1.0489	Total Population
Waste Disposal, Treatment, and Recovery - Wastewater Treatments	2630	1.0489	Total Population
Waste Disposal, Treatment, and Recovery – TSDFs	2640	1.1484	Manufacturing
Waste Disposal, Treatment, and Recovery - Scrap and Waste Materials	2650	1.1484	Manufacturing
Waste Disposal, Treatment, and Recovery - Leaking Underground Storage Tanks	2660	1.1484	Manufacturing

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	ASC	AR	BEA Surrogate
Miscellaneous Area Sources Agriculture Production – Crops	2801	1.1113	Farm
Miscellaneous Area Sources Agriculture Production - Livestock	2805	1.1113	Farm
Miscellaneous Area Sources Cooling Towers	2820	1.1484	Manufacturing
Miscellaneous Area Sources Catastrophic/Accidental Releases	2830	1.1484	Manufacturing
Miscellaneous Area Sources Automotive Repair Shops	2840	1.0962	Auto repair & parking
Miscellaneous Area Sources Miscellaneous Repair Shops	2841	1.1869	Business services
Miscellaneous Area Sources Health Services	2850	1.1613	Health services

Source: Developed from BEA, 1995.

Table B-6
BEA Gross State Product (GSP) Growth Factors by 4-Digit ASC for 2001 to 2007 for State of TN

Description	ASC	TN	BEA Surrogate
Stationary Source Fuel Combustion Electric Utility	2101	1.1389	Utilities
Stationary Source Fuel Combustion Industrial	2102	1.1119	Manufacturing
Stationary Source Fuel Combustion Commercial/Institutional	2103	1.1119	Manufacturing
Stationary Source Fuel Combustion Residential	2104	1.0368	Private households
Stationary Source Fuel Combustion Total Area Source Fuel Combustion	2199	1.0542	Total Population
Mobile Sources Off-highway Vehicle Gasoline 2-Stroke	2260	1.0542	Total Population
Mobile Sources Off-highway Vehicle Gasoline 4-Stroke	2265	1.0542	Total Population
Mobile Sources Off-highway Vehicle Gasoline LPG	2267	1.0542	Total Population
Mobile Sources Off-highway Vehicle Gasoline CNG	2268	1.0542	Total Population
Mobile Sources Off-highway Vehicle Gasoline Diesel	2270	1.0542	Total Population
Mobile Sources Aircraft	2275	1.2300	Transportation by air
Mobile Sources Marine Vessels	2280	1.0609	Water transportation
Mobile Sources Pleasure Craft	2282	1.0542	Total Population
Mobile Sources Railroads	2285	1.1587	Railroad transport.
Mobile Sources Paved Roads	2294	1.0880	Local & interurban
Mobile Sources Unpaved Roads	2296	1.0880	Local & interurban
Industrial Processes Chemical Manufacturing	2301	1.0805	Chemicals
Industrial Processes Food and Kindred Products	2302	1.0806	Food & kindred
Industrial Processes Primary Metal Production	2303	1.0520	Primary metals
Industrial Processes Secondary Metal Production	2304	1.0520	Primary metals
Industrial Processes Mineral Processes	2305	1.0697	Stone, clay, glass
Industrial Processes Petroleum Refining	2306	1.0844	Petroleum products
Industrial Processes Wood Products	2307	1.0798	Lumber & wood
Industrial Processes Rubber/Plastics	2308	1.1812	Rubber & plastics
Industrial Processes Fabricated Metals	2309	1.0663	Fabricated metals
Industrial Processes Oil and Gas Production	2310	0.9987	Oil & gas
Industrial Processes Construction	2311	1.0682	Construction

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	ASC	TN	BEA Surrogate
Industrial Processes Machinery	2312	1.1875	Indust. machinery
Industrial Processes Mining and Quarrying	2325	1.0715	Nonmetallic minerals
Industrial Processes In-process Fuel Use	2390	1.1119	Manufacturing
Industrial Processes Industrial Processes: NEC	2399	1.1119	Manufacturing
Solvent Utilization Surface Coating	2401	1.1119	Manufacturing
Solvent Utilization Degreasing	2415	1.1119	Manufacturing
Solvent Utilization Dry Cleaning	2420	1.0603	Personal services
Solvent Utilization Graphic Arts	2425	1.0504	Printing & publish.
Solvent Utilization Rubber/Plastics	2430	1.1812	Rubber & plastics
Solvent Utilization Miscellaneous Industrial	2440	1.1284	Misc. manufacturing
Solvent Utilization Miscellaneous Non-industrial: All Classes	2460	1.0805	Chemicals
Solvent Utilization Miscellaneous Non-industrial: Commercial	2461	1.1119	Manufacturing
Solvent Utilization Miscellaneous Non-industrial: Consumer	2465	1.0542	Total Population
Solvent Utilization All Solvent User Categories	2495	1.0805	Chemicals
Storage and Transport Petroleum and Petroleum Product Storage	2501	1.0844	Petroleum products
Storage and Transport Petroleum and Petroleum Product Transport	2505	1.0077	Pipelines
Storage and Transport Organic Chemical Storage	2510	1.0805	Chemicals
Storage and Transport Organic Chemical Transport	2515	1.0805	Chemicals
Storage and Transport Inorganic Chemical Storage	2520	1.0805	Chemicals
Storage and Transport Inorganic Chemical Transport	2525	1.0077	Pipelines
Storage and Transport Bulk Materials Storage	2530	1.0866	Mining
Storage and Transport Bulk Materials Transport	2535	1.0866	Mining
Waste Disposal, Treatment, and Recovery - On-Site Incineration	2601	1.0542	Total Population
Waste Disposal, Treatment, and Recovery - Open Burning	2610	1.0542	Total Population
Waste Disposal, Treatment, and Recovery – Landfills	2620	1.0542	Total Population
Waste Disposal, Treatment, and Recovery - Wastewater Treatments	2630	1.0542	Total Population
Waste Disposal, Treatment, and Recovery – TSDFs	2640	1.1119	Manufacturing
Waste Disposal, Treatment, and Recovery - Scrap and Waste Materials	2650	1.1119	Manufacturing
Waste Disposal, Treatment, and Recovery - Leaking Underground Storage Tanks	2660	1.1119	Manufacturing

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	ASC	TN	BEA Surrogate
Miscellaneous Area Sources Agriculture Production – Crops	2801	1.1257	Farm
Miscellaneous Area Sources Agriculture Production - Livestock	2805	1.1257	Farm
Miscellaneous Area Sources Cooling Towers	2820	1.1119	Manufacturing
Miscellaneous Area Sources Catastrophic/Accidental Releases	2830	1.1119	Manufacturing
Miscellaneous Area Sources Automotive Repair Shops	2840	1.1051	Auto repair & parking
Miscellaneous Area Sources Miscellaneous Repair Shops	2841	1.1780	Business services
Miscellaneous Area Sources Health Services	2850	1.1498	Health services

Source: Developed from BEA, 1995.

Table B-7
BEA Employment Growth Factors by 4-Digit ASC for 1999 to 2007 for State of LA

Description	ASC	LA	BEA Surrogate
Stationary Source Fuel Combustion Electric Utility	2101	1.0504	Utilities
Stationary Source Fuel Combustion Industrial	2102	1.0127	Manufacturing
Stationary Source Fuel Combustion Commercial/Institutional	2103	1.0127	Manufacturing
Stationary Source Fuel Combustion Residential	2104	0.8882	Private households
Stationary Source Fuel Combustion Total Area Source Fuel Combustion	2199	1.0487	Total Population
Mobile Sources Off-highway Vehicle Gasoline 2-Stroke	2260	1.0487	Total Population
Mobile Sources Off-highway Vehicle Gasoline 4-Stroke	2265	1.0487	Total Population
Mobile Sources Off-highway Vehicle Gasoline LPG	2267	1.0487	Total Population
Mobile Sources Off-highway Vehicle Gasoline CNG	2268	1.0487	Total Population
Mobile Sources Off-highway Vehicle Gasoline Diesel	2270	1.0487	Total Population
Mobile Sources Aircraft	2275	1.0787	Transportation by air
Mobile Sources Marine Vessels	2280	0.9740	Water transportation
Mobile Sources Pleasure Craft	2282	1.0487	Total Population
Mobile Sources Railroads	2285	0.9935	Railroad transport.
Mobile Sources Paved Roads	2294	1.0932	Local & interurban
Mobile Sources Unpaved Roads	2296	1.0932	Local & interurban
Industrial Processes Chemical Manufacturing	2301	1.0322	Chemicals
Industrial Processes Food and Kindred Products	2302	1.0038	Food & kindred
Industrial Processes Primary Metal Production	2303	0.9511	Primary metals
Industrial Processes Secondary Metal Production	2304	0.9511	Primary metals
Industrial Processes Mineral Processes	2305	0.9861	Stone, clay, glass
Industrial Processes Petroleum Refining	2306	0.9521	Petroleum products
Industrial Processes Wood Products	2307	1.0106	Lumber & wood
Industrial Processes Rubber/Plastics	2308	1.2347	Rubber & plastics
Industrial Processes Fabricated Metals	2309	0.9890	Fabricated metals
Industrial Processes Oil and Gas Production	2310	0.9182	Oil & gas
Industrial Processes Construction	2311	1.0738	Construction

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	ASC	LA	BEA Surrogate
Industrial Processes Machinery	2312	0.9981	Indust. machinery
Industrial Processes Mining and Quarrying	2325	1.0000	Nonmetallic minerals
Industrial Processes In-process Fuel Use	2390	1.0127	Manufacturing
Industrial Processes Industrial Processes: NEC	2399	1.0127	Manufacturing
Solvent Utilization Surface Coating	2401	1.0127	Manufacturing
Solvent Utilization Degreasing	2415	1.0127	Manufacturing
Solvent Utilization Dry Cleaning	2420	1.0588	Personal services
Solvent Utilization Graphic Arts	2425	1.0557	Printing & publish.
Solvent Utilization Rubber/Plastics	2430	1.2347	Rubber & plastics
Solvent Utilization Miscellaneous Industrial	2440	1.0165	Misc. manufacturing
Solvent Utilization Miscellaneous Non-industrial: All Classes	2460	1.0322	Chemicals
Solvent Utilization Miscellaneous Non-industrial: Commercial	2461	1.0127	Manufacturing
Solvent Utilization Miscellaneous Non-industrial: Consumer	2465	1.0487	Total Population
Solvent Utilization All Solvent User Categories	2495	1.0322	Chemicals
Storage and Transport Petroleum and Petroleum Product Storage	2501	0.9521	Petroleum products
Storage and Transport Petroleum and Petroleum Product Transport	2505	1.0000	Pipelines
Storage and Transport Organic Chemical Storage	2510	1.0322	Chemicals
Storage and Transport Organic Chemical Transport	2515	1.0322	Chemicals
Storage and Transport Inorganic Chemical Storage	2520	1.0322	Chemicals
Storage and Transport Inorganic Chemical Transport	2525	1.0000	Pipelines
Storage and Transport Bulk Materials Storage	2530	0.9210	Mining
Storage and Transport Bulk Materials Transport	2535	0.9210	Mining
Waste Disposal, Treatment, and Recovery - On-Site Incineration	2601	1.0487	Total Population
Waste Disposal, Treatment, and Recovery - Open Burning	2610	1.0487	Total Population
Waste Disposal, Treatment, and Recovery – Landfills	2620	1.0487	Total Population
Waste Disposal, Treatment, and Recovery - Wastewater Treatments	2630	1.0487	Total Population
Waste Disposal, Treatment, and Recovery – TSDFs	2640	1.0127	Manufacturing
Waste Disposal, Treatment, and Recovery - Scrap and Waste Materials	2650	1.0127	Manufacturing
Waste Disposal, Treatment, and Recovery - Leaking Underground Storage Tanks	2660	1.0127	Manufacturing

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	ASC	LA	BEA Surrogate
Miscellaneous Area Sources Agriculture Production – Crops	2801	0.9463	Farm
Miscellaneous Area Sources Agriculture Production - Livestock	2805	0.9463	Farm
Miscellaneous Area Sources Cooling Towers	2820	1.0127	Manufacturing
Miscellaneous Area Sources Catastrophic/Accidental Releases	2830	1.0127	Manufacturing
Miscellaneous Area Sources Automotive Repair Shops	2840	1.1311	Auto repair & parking
Miscellaneous Area Sources Miscellaneous Repair Shops	2841	1.1965	Business services
Miscellaneous Area Sources Health Services	2850	1.1980	Health services

Source: Developed from BEA, 1995.

Table B-8
Energy Adjustment Factors applied to the Area Combustion Sources

Sector	Industry Sector	Fuel	ASC	Adjustment Factor
Industrial	Total Industrial	Steam Coal	2102001000	0.8776
Industrial	Total Industrial	Steam Coal	2102002000	0.8776
Industrial	Total Industrial	Distillate	2102004000	0.9676
Industrial	Total Industrial	Residual	2102005000	0.9654
Industrial	Total Industrial	Natural Gas	2102006000	0.9125
Industrial	Total Industrial	Natural Gas	2102006001	0.9125
Industrial	Total Industrial	Natural Gas	2102006002	0.9125
Industrial	Total Industrial	LPG	2102007000	0.9304
Industrial	Total Industrial	Renewables	2102008000	0.9575
Industrial	Total Industrial	Renewables	2102008020	0.9575
Industrial	Total Industrial	Steam Coal	2102009000	0.8776
Industrial	Total Industrial	Total Delivered Energy	2102010000	0.9229
Industrial	Total Industrial	Other Petroleum	2102011000	0.9602
Industrial	Total Industrial	Other Petroleum	2102012000	0.9602
Commercial		Coal	2103001000	0.9943
Commercial		Coal	2103002000	0.9943
Commercial		Distillate	2103004000	0.8547
Commercial		Residual	2103005000	0.9733
Commercial		Natural Gas	2103006000	0.9735
Commercial		LPG	2103007000	0.9918
Commercial		LPG	2103007005	0.9918
Commercial		LPG	2103007010	0.9918
Commercial		Renewables	2103008000	1.0389
Commercial		Kerosene	2103011000	0.9815
Commercial		Kerosene	2103011005	0.9815
Commercial		Kerosene	2103011010	0.9815
Commercial		Total Petroleum	2103012000	0.8964

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	ASC	Adjustment Factor
Commercial		Total Petroleum	2103012010	0.8964
Residential		Coal	2104001000	0.8379
Residential		Coal	2104002000	0.8379
Residential		Distillate	2104004000	0.764
Residential		Total Petroleum	2104005000	0.8073
Residential		Natural Gas	2104006000	0.9325
Residential		Natural Gas	2104006010	0.9325
Residential		Natural Gas	2104006020	0.9325
Residential		LPG	2104007000	0.8916
Residential		Renewables	2104008000	0.9195
Residential		Renewables	2104008001	0.9195
Residential		Renewables	2104008010	0.9195
Residential		Renewables	2104008030	0.9195
Residential		Renewables	2104008050	0.9195
Residential		Renewables	2104008051	0.9195
Residential		Renewables	2104008052	0.9195
Residential		Renewables	2104008053	0.9195
Residential		Renewables	2104008055	0.9195
Residential		Kerosene	2104011000	0.8352
Total Area		Steam Coal	2199001000	0.8765
Total Area		Steam Coal	2199002000	0.8765
Total Area		Steam Coal	2199003000	0.8765
Total Area		Distillate Oil	2199004000	0.8212
Total Area		Distillate Oil	2199004001	0.8212
Total Area		Distillate Oil	2199004002	0.8212
Total Area		Residual Oil	2199005000	0.3504
Total Area		Natural Gas	2199006000	0.9775
Total Area		Natural Gas	2199006001	0.9775
Total Area		Natural Gas	2199006002	0.9775

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	ASC	Adjustment Factor
Total Area		LPG	2199007000	0.9308
Total Area		Renewable Energy	2199008000	0.7416
Total Area		Metallurgical Coal	2199009000	0.707
Total Area		Natural Gas	2199010000	0.9775
Total Area		Kerosene	2199011000	0.8228
Industrial	Total Industrial	Total Coal	2390001000	0.8584
Industrial	Total Industrial	Total Coal	2390002000	0.8584
Industrial	Total Industrial	Distillate	2390004000	0.9676
Industrial	Total Industrial	Residual	2390005000	0.9654
Industrial	Total Industrial	Natural Gas	2390006000	0.9125
Industrial	Total Industrial	LPG	2390007000	0.9304
Industrial	Total Industrial	Renewables	2390008000	0.9575
Industrial	Total Industrial	Metallurgical Coal	2390009000	0.7163
Industrial	Total Industrial	Total Delivered Energy	2390010000	0.9229

Source: Provided by E. H. Pechan & Associates, Inc, February 2002.

The information were used to develop the base year and future year inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

**Table B-9
Area Source VOC Control Measure Assumptions**

Control Measure	Affected ASCs	VOC Percentage Reduction	VOC Rule Effectiveness
<i>Federal Control Measures (National)</i>			
Consumer Solvents	2465000000	25	100
Consumer Solvents	2465100000	25	100
Consumer Solvents	2465200000	25	100
Consumer Solvents	2465400000	25	100
Consumer Solvents	2465600000	25	100
Consumer Solvents	2465800000	25	100
Architectural Coatings	2401001000	25	100
Architectural Coatings	2401001999	25	100
Industrial Maintenance Coatings	2401100000	25	100
Traffic Markings	2401008000	25	100
<i>Title III MACT (National)</i>			
Wood Furniture Surface Coating	2401020000	30	100
Aerospace Surface Coating	2401075000	60	100
Marin Vessel Surface Coating (Shipbuilding)	2401080000	24	100
Halogenated Solvent Cleaners (Cold Cleaning)	2415300000	43	100
Halogenated Solvent Cleaners (Cold Cleaning)	2415305000	43	100
Halogenated Solvent Cleaners (Cold Cleaning)	2415310000	43	100
Halogenated Solvent Cleaners (Cold Cleaning)	2415320000	43	100
Halogenated Solvent Cleaners (Cold Cleaning)	2415325000	43	100
Halogenated Solvent Cleaners (Cold Cleaning)	2415330000	43	100
Halogenated Solvent Cleaners (Cold Cleaning)	2415335000	43	100
Halogenated Solvent Cleaners (Cold Cleaning)	2415340000	43	100
Halogenated Solvent Cleaners (Cold Cleaning)	2415345000	43	100
Halogenated Solvent Cleaners (Cold Cleaning)	2415355000	43	100

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Control Measure	Affected ASCs	VOC Percentage Reduction	VOC Rule Effectiveness
Halogenated Solvent Cleaners (Cold Cleaning)	2415360000	43	100
Autobody Refinishing	2401005000	37	100
Petroleum Refinery Fugitives	2306000000	60	100
Synthetic Organic Chemical Manufacturing Industry (SOCMI), Fugitives	2301040000	37	100
Motor Vehicle Surface Coating	2401070000	36	100
Metal Product Surface Coating	2401040000	36	100
Metal Product Surface Coating	2401045000	36	100
Metal Product Surface Coating	2401050000	36	100
Wood Product Surface Coating	2401015000	36	100
Open Top & Converyorized Degreasing	2415000000	31	100
Open Top & Converyorized Degreasing	2415105000	31	100
Open Top & Converyorized Degreasing	2415110000	31	100
Open Top & Converyorized Degreasing	2415120000	31	100
Open Top & Converyorized Degreasing	2415125000	31	100
Open Top & Converyorized Degreasing	2415130000	31	100
Open Top & Converyorized Degreasing	2415135000	31	100
Open Top & Converyorized Degreasing	2415140000	31	100
Open Top & Converyorized Degreasing	2415145000	31	100
Open Top & Converyorized Degreasing	2415199000	31	100
Open Top & Converyorized Degreasing	2415200000	31	100
Public Owned Treatment Works (POTWs)	2630000000	80	100
Public Owned Treatment Works (POTWs)	2630020000	80	100
Metal Furniture & Appliances Surface Coating	2401025000	36	100
Metal Furniture & Appliances Surface Coating	2401060000	36	100
Machinery, Railroad Surface Coating	2401550000	36	100
Machinery, Railroad Surface Coating	2401085000	36	100
Machinery, Railroad Surface Coating	2401090000	36	100

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Control Measure	Affected ASCs	VOC Percentage Reduction	VOC Rule Effectiveness
Electronic Coating	2401065000	36	100
Title I RACT			
Petroleum Dry Cleaning	2420000370	44	80
Petroleum Dry Cleaning	2420010370	44	80
Paper Surface Coating	2401030000	78	80

Source: Provided by E. H. Pechan & Associates, Inc, February 2002.

The information were used to develop the base year and future year inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

**Table B-10
Residential Wood Combustion Control Efficiency**

Pollutant	Percent Reduction
VOC	49
CO	37

Source: Provided by E. H. Pechan & Associates, Inc, February 2002.

The information were used to develop the base year and future year inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

**Table B-11
Vehicle Refueling VOC Control Efficiency**

Does County Have Stage II Controls?	Percent Reduction
No	52.0
Yes	81.7

Source: Provided by E. H. Pechan & Associates, Inc, February 2002.

The information were used to develop the base year and future year inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

Table B-12
BEA Gross State Product (GSP) Growth Factors by 2-Digit SIC for 1999 to 2007 for States of AL, AR, DC, FL, GA and IA

Description	SIC	AL	AR	DC	FL	GA	IA	BEA Surrogate
Agricultural Production - Crops	01	1.1606	1.1290	1.0000	1.1869	1.1230	1.2078	Farm
Agricultural Production - Livestock	02	1.1606	1.1290	1.0000	1.1869	1.1230	1.2078	Farm
Agricultural Services	07	1.3398	1.3488	1.4053	1.3424	1.3468	1.3201	Agricultural services
Forestry	08	1.3398	1.3488	1.4053	1.3424	1.3468	1.3201	Agricultural services
Fishing, Hunting, and Trapping	09	1.3398	1.3488	1.4053	1.3424	1.3468	1.3201	Agricultural services
Metal Mining	10	1.0848	1.1469	1.2571	1.2243	1.1613	1.0000	Metal mining
Coal mining	11	1.2396	1.3488	1.3793	1.0000	1.2000	1.2476	Coal mining
Coal Mining	12	1.2396	1.3488	1.3793	1.0000	1.2000	1.2476	Coal mining
Oil and Gas Extraction	13	0.8976	0.9770	1.1973	1.2170	1.0877	1.2444	Oil & gas
Nonmetallic Minerals except Fuels	14	1.1509	1.0973	1.1200	1.0568	1.1312	1.1195	Nonmetallic minerals
General Building Contractors	15	1.0641	1.0700	0.9885	1.1330	1.0998	1.0590	Construction
Heavy Construction	16	1.0641	1.0700	0.9885	1.1330	1.0998	1.0590	Construction
Special Trade Contractors	17	1.0641	1.0700	0.9885	1.1330	1.0998	1.0590	Construction
Food and Kindred Products	20	1.1012	1.1555	1.0461	1.1391	1.1736	1.0799	Food & kindred
Tobacco Products	21	0.7490	1.0000	1.0000	0.6957	0.8759	1.0000	Tobacco products
Textile Mill Products	22	1.1344	1.0866	1.1310	1.1131	1.1126	1.0776	Textile mill prod.
Apparel and Other Textile Products	23	1.1461	1.1703	1.0000	1.1595	1.1280	1.1852	Apparel & textile
Lumber and Wood Products	24	1.0844	1.0551	0.8889	1.0377	1.0512	1.1294	Lumber & wood
Furniture and Fixtures	25	1.1524	1.1161	1.1385	1.1076	1.0830	1.1432	Furniture
Paper and Allied Products	26	1.1604	1.1840	1.2800	1.1022	1.1925	1.1748	Paper products
Printing and Publishing	27	1.0638	1.0285	1.0137	1.1267	1.1070	1.0263	Printing & publish.
Chemical and Allied Products	28	1.1011	1.0853	1.0905	1.0500	1.1441	1.0713	Chemicals
Petroleum and Coal Products	29	1.1341	1.0953	1.0710	1.1260	1.0486	0.8908	Petroleum products
Rubber and Misc. Plastic Products	30	1.2464	1.2790	1.4000	1.2663	1.2371	1.2426	Rubber & plastics
Leather and Leather Products	31	0.9419	0.9677	2.1429	0.9974	1.0154	1.0220	Leather products
Stone, Clay and Glass Products	32	1.0499	1.0924	1.0946	1.0915	1.0902	1.0809	Stone, clay, glass
Primary Metal Industries	33	1.0281	1.1179	1.0000	1.0501	1.0096	1.0511	Primary metals

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	AL	AR	DC	FL	GA	IA	BEA Surrogate
Fabricated Metal Industries	34	1.0553	1.0918	0.8909	0.9934	1.0835	1.0605	Fabricated metals
Industrial Machinery and Equipment	35	1.3388	1.3579	1.2310	1.2431	1.3379	1.1995	Indust. machinery
Electronic and Other Electronic Equipment	36	1.2975	1.1730	1.1204	1.1787	1.2212	1.1569	Electronic equip.
Transportation Equipment	37	1.2827	1.3111	1.1793	1.2887	1.2944	1.3412	Other trans. equip.
Instruments and Related Products	38	1.1535	1.0635	1.0303	1.2466	1.3599	1.1341	Instruments
Misc. Manufacturing Industries	39	1.1552	1.1660	1.0937	1.2140	1.1532	1.1411	Misc. manufacturing
Railroad Transportation	40	1.2486	1.2560	1.3588	1.3145	1.2397	1.2412	Railroad transport.
Local and Interurban Passenger Transit	41	1.1402	1.1470	1.0190	1.2010	1.1771	1.0724	Local & interurban
Trucking and Warehousing	42	1.2046	1.2131	1.0697	1.2351	1.2246	1.1502	Trucking
Water Transportation	44	1.0134	1.0884	1.0253	1.1198	1.0346	1.1184	Water transportation
Transportation by Air	45	1.3337	1.2875	1.2173	1.2628	1.2298	1.2728	Transportation by air
Pipelines except Natural Gas	46	0.9872	1.0542	1.0959	1.2511	1.1358	0.9638	Pipelines
Transportation Services	47	1.2746	1.2510	1.1808	1.3012	1.3699	1.1768	Transport. services
Communications	48	1.2098	1.2153	1.1043	1.2694	1.2878	1.1827	Communications
Electric, Gas, and Sanitary Services	49	1.1679	1.1586	1.1014	1.2174	1.2013	1.1116	Utilities
Wholesale Trade - Durable Goods	50	1.1830	1.1797	1.0746	1.2665	1.2202	1.1498	Wholesale trade
Wholesale Trade - Nondurable Goods	51	1.1830	1.1797	1.0746	1.2665	1.2202	1.1498	Wholesale trade
Building Materials & Garden Supplies	52	1.1478	1.1479	1.0638	1.2126	1.1864	1.1171	Retail trade
General Merchandise Stores	53	1.1478	1.1479	1.0638	1.2126	1.1864	1.1171	Retail trade
Food Stores	54	1.1478	1.1479	1.0638	1.2126	1.1864	1.1171	Retail trade
Automotive Dealers & Service Stations	55	1.1478	1.1479	1.0638	1.2126	1.1864	1.1171	Retail trade
Apparel and Accessory Stores	56	1.1478	1.1479	1.0638	1.2126	1.1864	1.1171	Retail trade
Furniture and Homefurnishing Stores	57	1.1478	1.1479	1.0638	1.2126	1.1864	1.1171	Retail trade
Eating and Drinking Places	58	1.1478	1.1479	1.0638	1.2126	1.1864	1.1171	Retail trade
Misc. Retail	59	1.1478	1.1479	1.0638	1.2126	1.1864	1.1171	Retail trade
Depository Institutions	60	1.2158	1.2019	1.1306	1.2543	1.2600	1.1595	Banks & investment
Nondepository Institutions	61	1.2158	1.2019	1.1306	1.2543	1.2600	1.1595	Banks & investment
Security and Commodity Brokers	62	1.2158	1.2019	1.1306	1.2543	1.2600	1.1595	Banks & investment
Insurance Carriers	63	1.1382	1.1561	1.0252	1.2222	1.2091	1.1772	Insurance

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	AL	AR	DC	FL	GA	IA	BEA Surrogate
Insurance Agents, Brokers & Service	64	1.1382	1.1561	1.0252	1.2222	1.2091	1.1772	Insurance
Real Estate	65	1.1540	1.1525	1.1226	1.2211	1.2002	1.1342	Real estate
Holding and Other Investment Offices	67	1.2158	1.2019	1.1306	1.2543	1.2600	1.1595	Banks & investment
Hotels and Other Lodging Places	70	1.1349	1.1470	1.1705	1.2078	1.2052	1.1227	Hotels & lodging
Personal Services	72	1.0876	1.0697	1.0041	1.1306	1.1109	1.0474	Personal services
Business Services	73	1.2586	1.2240	1.1429	1.2917	1.2753	1.2052	Business services
Auto Repair, Services, and Parking	75	1.1339	1.1158	1.0396	1.1694	1.1749	1.1045	Auto repair & parking
Misc. Repair Services	76	1.2586	1.2240	1.1429	1.2917	1.2753	1.2052	Business services
Motion Pictures	78	1.2308	1.1967	1.1333	1.2453	1.2792	1.1932	Amusement
Amusement & Recreation Services	79	1.2308	1.1967	1.1333	1.2453	1.2792	1.1932	Amusement
Health Services	80	1.1922	1.1833	1.1405	1.2588	1.2768	1.1432	Health services
Legal Services	81	1.1530	1.1070	1.1177	1.1676	1.1770	1.0722	Legal services
Educational Services	82	1.1264	1.1501	1.1222	1.2039	1.2129	1.1123	Educational services
Social Services	83	1.2199	1.2079	1.1682	1.3098	1.2613	1.1945	Social services
Museums, Botanical, Zoological Gardens	84	1.2317	1.2028	1.2220	1.2920	1.2814	1.1982	Other services
Membership Organizations	86	1.2199	1.2079	1.1682	1.3098	1.2613	1.1945	Social services
Engineering & Management Services	87	1.2317	1.2028	1.2220	1.2920	1.2814	1.1982	Other services
Private Households	88	1.0209	1.0274	0.9972	1.0808	1.0662	1.0143	Private households
Services, NEC	89	1.2317	1.2028	1.2220	1.2920	1.2814	1.1982	Other services
Executive, Legislative, and General	91	1.0538	1.0787	0.9951	1.1461	1.1061	1.0455	Government
Justice, Public Order, and Safety	92	1.0955	1.1004	1.0321	1.1738	1.1413	1.0569	State and local
Finance, Taxation, & Monetary Policy	93	1.0955	1.1004	1.0321	1.1738	1.1413	1.0569	State and local
Administration of Human Resources	94	1.0955	1.1004	1.0321	1.1738	1.1413	1.0569	State and local
Environmental Quality and Housing	95	1.0955	1.1004	1.0321	1.1738	1.1413	1.0569	State and local
Administration of Economic Programs	96	1.0955	1.1004	1.0321	1.1738	1.1413	1.0569	State and local
National Security and International Affairs	97	1.0538	1.0787	0.9951	1.1461	1.1061	1.0455	Government

Source: Developed from BEA, 1995.

Table B-13
BEA Gross State Product (GSP) Growth Factors by 2-Digit SIC for 1999 to 2007 for States of IL, IN, KS, KY, MD and MI

Description	SIC	IL	IN	KS	KY	MD	MI	BEA Surrogate
Agricultural Production - Crops	01	1.1186	1.1904	1.1337	1.2015	1.1518	1.1599	Farm
Agricultural Production - Livestock	02	1.1186	1.1904	1.1337	1.2015	1.1518	1.1599	Farm
Agricultural Services	07	1.3465	1.3648	1.3687	1.3540	1.3286	1.3447	Agricultural services
Forestry	08	1.3465	1.3648	1.3687	1.3540	1.3286	1.3447	Agricultural services
Fishing, Hunting, and Trapping	09	1.3465	1.3648	1.3687	1.3540	1.3286	1.3447	Agricultural services
Metal Mining	10	1.3451	1.1667	1.0000	1.2571	1.3185	1.2127	Metal mining
Coal mining	11	1.2229	1.1975	1.1539	1.2275	1.2897	1.2571	Coal mining
Coal Mining	12	1.2229	1.1975	1.1539	1.2275	1.2897	1.2571	Coal mining
Oil and Gas Extraction	13	0.8898	0.9427	0.9703	0.9545	1.0000	0.9467	Oil & gas
Nonmetallic Minerals except Fuels	14	1.0620	1.0860	1.0982	1.1293	1.0725	1.1041	Nonmetallic minerals
General Building Contractors	15	1.0644	1.0653	1.0585	1.0635	1.0507	1.0531	Construction
Heavy Construction	16	1.0644	1.0653	1.0585	1.0635	1.0507	1.0531	Construction
Special Trade Contractors	17	1.0644	1.0653	1.0585	1.0635	1.0507	1.0531	Construction
Food and Kindred Products	20	1.0599	1.0679	1.1307	1.0571	1.0084	1.0613	Food & kindred
Tobacco Products	21	0.7481	0.8000	1.0000	0.7631	1.0000	1.0000	Tobacco products
Textile Mill Products	22	1.0757	1.2100	1.1241	1.1366	1.1281	1.0381	Textile mill prod.
Apparel and Other Textile Products	23	1.1129	1.1600	1.1846	1.2364	1.0005	1.0722	Apparel & textile
Lumber and Wood Products	24	1.0338	1.1148	1.0720	1.1221	1.0629	1.0748	Lumber & wood
Furniture and Fixtures	25	1.1155	1.1352	1.0308	1.0773	1.1031	1.1153	Furniture
Paper and Allied Products	26	1.1615	1.2006	1.1903	1.2924	1.0620	1.1406	Paper products
Printing and Publishing	27	1.0365	1.0454	1.0769	1.0303	1.0690	1.0290	Printing & publish.
Chemical and Allied Products	28	1.1349	1.1339	1.0829	1.1089	1.1170	1.1285	Chemicals
Petroleum and Coal Products	29	1.0719	1.1224	1.0982	1.1282	1.1523	1.0652	Petroleum products
Rubber and Misc. Plastic Products	30	1.2330	1.2656	1.2691	1.2341	1.1520	1.2866	Rubber & plastics
Leather and Leather Products	31	0.9825	0.9756	1.1172	0.9167	0.9775	1.0124	Leather products
Stone, Clay and Glass Products	32	1.0273	1.0512	1.0284	1.1232	0.9985	1.0684	Stone, clay, glass
Primary Metal Industries	33	0.9951	1.0348	1.0696	1.0555	0.9017	1.0000	Primary metals

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	IL	IN	KS	KY	MD	MI	BEA Surrogate
Fabricated Metal Industries	34	1.0068	1.0527	1.0311	1.1467	1.0111	1.0418	Fabricated metals
Industrial Machinery and Equipment	35	1.2091	1.2546	1.2382	1.2140	1.2043	1.2220	Indust. machinery
Electronic and Other Electronic Equipment	36	1.1660	1.1600	1.2069	1.1320	1.1168	1.1467	Electronic equip.
Transportation Equipment	37	1.1509	1.1311	1.2020	1.3220	1.0749	1.2440	Other trans. equip.
Instruments and Related Products	38	1.0521	1.2024	1.0983	1.1220	1.1036	1.1425	Instruments
Misc. Manufacturing Industries	39	1.1066	1.1436	1.1123	1.1487	1.0661	1.1159	Misc. manufacturing
Railroad Transportation	40	1.2087	1.2585	1.2513	1.1765	1.0927	1.1821	Railroad transport.
Local and Interurban Passenger Transit	41	1.1307	1.1251	1.1228	1.1175	1.1187	1.0822	Local & interurban
Trucking and Warehousing	42	1.1329	1.1855	1.1508	1.1755	1.1571	1.1057	Trucking
Water Transportation	44	1.0538	1.1012	1.0905	1.0153	0.9617	1.0681	Water transportation
Transportation by Air	45	1.2683	1.3536	1.3029	1.3120	1.3482	1.2258	Transportation by air
Pipelines except Natural Gas	46	1.0193	1.0203	1.1442	1.0472	1.0641	1.0820	Pipelines
Transportation Services	47	1.2166	1.2251	1.2175	1.2594	1.2508	1.2376	Transport. services
Communications	48	1.2085	1.2130	1.2229	1.2023	1.2160	1.1638	Communications
Electric, Gas, and Sanitary Services	49	1.1223	1.1304	1.1614	1.1173	1.1583	1.1179	Utilities
Wholesale Trade - Durable Goods	50	1.1643	1.2036	1.1754	1.1662	1.1864	1.1594	Wholesale trade
Wholesale Trade - Nondurable Goods	51	1.1643	1.2036	1.1754	1.1662	1.1864	1.1594	Wholesale trade
Building Materials & Garden Supplies	52	1.1423	1.1425	1.1599	1.1529	1.1521	1.1191	Retail trade
General Merchandise Stores	53	1.1423	1.1425	1.1599	1.1529	1.1521	1.1191	Retail trade
Food Stores	54	1.1423	1.1425	1.1599	1.1529	1.1521	1.1191	Retail trade
Automotive Dealers & Service Stations	55	1.1423	1.1425	1.1599	1.1529	1.1521	1.1191	Retail trade
Apparel and Accessory Stores	56	1.1423	1.1425	1.1599	1.1529	1.1521	1.1191	Retail trade
Furniture and Homefurnishing Stores	57	1.1423	1.1425	1.1599	1.1529	1.1521	1.1191	Retail trade
Eating and Drinking Places	58	1.1423	1.1425	1.1599	1.1529	1.1521	1.1191	Retail trade
Misc. Retail	59	1.1423	1.1425	1.1599	1.1529	1.1521	1.1191	Retail trade
Depository Institutions	60	1.2072	1.2063	1.1731	1.1850	1.2123	1.1825	Banks & investment
Nondepository Institutions	61	1.2072	1.2063	1.1731	1.1850	1.2123	1.1825	Banks & investment
Security and Commodity Brokers	62	1.2072	1.2063	1.1731	1.1850	1.2123	1.1825	Banks & investment
Insurance Carriers	63	1.1700	1.1703	1.1593	1.1659	1.1716	1.1371	Insurance

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	IL	IN	KS	KY	MD	MI	BEA Surrogate
Insurance Agents, Brokers & Service	64	1.1700	1.1703	1.1593	1.1659	1.1716	1.1371	Insurance
Real Estate	65	1.1467	1.1592	1.1500	1.1320	1.1683	1.1471	Real estate
Holding and Other Investment Offices	67	1.2072	1.2063	1.1731	1.1850	1.2123	1.1825	Banks & investment
Hotels and Other Lodging Places	70	1.1376	1.1351	1.1236	1.1574	1.2330	1.1227	Hotels & lodging
Personal Services	72	1.0669	1.0690	1.0792	1.0613	1.0699	1.0532	Personal services
Business Services	73	1.1915	1.2290	1.2382	1.2596	1.2166	1.2031	Business services
Auto Repair, Services, and Parking	75	1.1253	1.1182	1.1437	1.1338	1.1425	1.1028	Auto repair & parking
Misc. Repair Services	76	1.1915	1.2290	1.2382	1.2596	1.2166	1.2031	Business services
Motion Pictures	78	1.2155	1.2190	1.2246	1.1770	1.2357	1.1942	Amusement
Amusement & Recreation Services	79	1.2155	1.2190	1.2246	1.1770	1.2357	1.1942	Amusement
Health Services	80	1.1738	1.1811	1.1762	1.1874	1.2034	1.1492	Health services
Legal Services	81	1.1032	1.1320	1.0939	1.1053	1.1337	1.0849	Legal services
Educational Services	82	1.1329	1.1452	1.1668	1.1600	1.1582	1.1266	Educational services
Social Services	83	1.2192	1.2115	1.2320	1.1866	1.2360	1.1929	Social services
Museums, Botanical, Zoological Gardens	84	1.2272	1.2296	1.2447	1.2098	1.2228	1.1661	Other services
Membership Organizations	86	1.2192	1.2115	1.2320	1.1866	1.2360	1.1929	Social services
Engineering & Management Services	87	1.2272	1.2296	1.2447	1.2098	1.2228	1.1661	Other services
Private Households	88	1.0503	1.0409	1.0574	1.0293	1.0562	1.0325	Private households
Services, NEC	89	1.2272	1.2296	1.2447	1.2098	1.2228	1.1661	Other services
Executive, Legislative, and General	91	1.0720	1.0851	1.0892	1.0727	1.0580	1.0561	Government
Justice, Public Order, and Safety	92	1.0877	1.1012	1.1122	1.1040	1.1001	1.0644	State and local
Finance, Taxation, & Monetary Policy	93	1.0877	1.1012	1.1122	1.1040	1.1001	1.0644	State and local
Administration of Human Resources	94	1.0877	1.1012	1.1122	1.1040	1.1001	1.0644	State and local
Environmental Quality and Housing	95	1.0877	1.1012	1.1122	1.1040	1.1001	1.0644	State and local
Administration of Economic Programs	96	1.0877	1.1012	1.1122	1.1040	1.1001	1.0644	State and local
National Security and International Affairs	97	1.0720	1.0851	1.0892	1.0727	1.0580	1.0561	Government

Source: Developed from BEA, 1995.

Table B-14
BEA Gross State Product (GSP) Growth factors by 2-Digit SIC for 1999 to 2007 for States MO, MS, NC, NE, NY and OH

Description	SIC	MO	MS	NC	NE	NY	OH	BEA Surrogate
Agricultural Production - Crops	01	1.1838	1.1442	1.1009	1.1333	1.1740	1.1656	Farm
Agricultural Production - Livestock	02	1.1838	1.1442	1.1009	1.1333	1.1740	1.1656	Farm
Agricultural Services	07	1.3277	1.3320	1.3477	1.3364	1.2568	1.3371	Agricultural services
Forestry	08	1.3277	1.3320	1.3477	1.3364	1.2568	1.3371	Agricultural services
Fishing, Hunting, and Trapping	09	1.3277	1.3320	1.3477	1.3364	1.2568	1.3371	Agricultural services
Metal Mining	10	1.1439	1.0000	1.1535	1.2379	1.1922	1.3516	Metal mining
Coal mining	11	1.1756	1.0000	2.0000	1.0000	1.0000	1.1591	Coal mining
Coal Mining	12	1.1756	1.0000	2.0000	1.0000	1.0000	1.1591	Coal mining
Oil and Gas Extraction	13	0.9812	1.0061	1.1133	0.9119	0.9995	0.9485	Oil & gas
Nonmetallic Minerals except Fuels	14	1.0734	1.1073	1.1042	1.1175	1.0868	1.0931	Nonmetallic minerals
General Building Contractors	15	1.0536	1.0784	1.1117	1.0902	1.0205	1.0663	Construction
Heavy Construction	16	1.0536	1.0784	1.1117	1.0902	1.0205	1.0663	Construction
Special Trade Contractors	17	1.0536	1.0784	1.1117	1.0902	1.0205	1.0663	Construction
Food and Kindred Products	20	1.1039	1.1235	1.1249	1.0876	1.0091	1.0903	Food & kindred
Tobacco Products	21	0.8571	1.0000	0.7798	1.0000	0.7542	0.8000	Tobacco products
Textile Mill Products	22	1.0656	1.1743	1.0775	1.0182	0.9691	1.0729	Textile mill prod.
Apparel and Other Textile Products	23	1.1209	1.1535	1.1398	1.1714	1.0326	1.1016	Apparel & textile
Lumber and Wood Products	24	1.0776	1.0716	1.1054	1.0581	1.0364	1.1239	Lumber & wood
Furniture and Fixtures	25	1.1265	1.1680	1.0993	1.1472	1.0152	1.0983	Furniture
Paper and Allied Products	26	1.1571	1.1760	1.2154	1.1994	1.0489	1.1371	Paper products
Printing and Publishing	27	1.0487	1.0805	1.1131	1.0408	0.9719	1.0174	Printing & publish.
Chemical and Allied Products	28	1.1267	1.1060	1.1903	1.1352	1.0696	1.1175	Chemicals
Petroleum and Coal Products	29	1.1247	1.1112	1.1804	1.1833	1.0508	1.1216	Petroleum products
Rubber and Misc. Plastic Products	30	1.2550	1.3197	1.2759	1.2416	1.2018	1.1797	Rubber & plastics
Leather and Leather Products	31	0.9638	0.9884	0.9910	1.2022	0.8540	0.9880	Leather products
Stone, Clay and Glass Products	32	1.0569	1.0597	1.1164	1.0740	1.0454	1.0375	Stone, clay, glass
Primary Metal Industries	33	1.0165	1.0810	1.1158	1.0645	0.8853	1.0142	Primary metals

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	MO	MS	NC	NE	NY	OH	BEA Surrogate
Fabricated Metal Industries	34	1.0739	1.0548	1.1251	1.0456	0.9689	1.0291	Fabricated metals
Industrial Machinery and Equipment	35	1.2346	1.3359	1.2821	1.2307	1.0931	1.2235	Indust. Machinery
Electronic and Other Electronic Equipment	36	1.1196	1.2028	1.2176	1.1578	1.0392	1.1569	Electronic equip.
Transportation Equipment	37	1.1720	1.2350	1.2975	1.2092	1.0287	1.1992	Other trans. equip.
Instruments and Related Products	38	1.1343	1.1578	1.2148	1.1624	1.0345	1.1528	Instruments
Misc. Manufacturing Industries	39	1.1269	1.1150	1.2243	1.1042	1.0639	1.1450	Misc. manufacturing
Railroad Transportation	40	1.2531	1.2256	1.1963	1.2771	1.2004	1.1598	Railroad transport.
Local and Interurban Passenger Transit	41	1.1214	1.0994	1.0441	1.1282	1.0796	1.1258	Local & interurban
Trucking and Warehousing	42	1.1564	1.1881	1.1754	1.1862	1.1081	1.1202	Trucking
Water Transportation	44	0.8802	1.0072	1.0668	1.0492	0.8598	1.0281	Water transportation
Transportation by Air	45	1.1542	1.3505	1.2937	1.2788	1.1465	1.2588	Transportation by air
Pipelines except Natural Gas	46	0.9943	1.0620	1.0842	1.0337	1.0638	1.0413	Pipelines
Transportation Services	47	1.2202	1.1821	1.2936	1.1644	1.1048	1.2529	Transport. services
Communications	48	1.2452	1.2095	1.2602	1.2068	1.1737	1.1630	Communications
Electric, Gas, and Sanitary Services	49	1.1258	1.1566	1.1674	1.1497	1.1116	1.1141	Utilities
Wholesale Trade - Durable Goods	50	1.1693	1.1731	1.2162	1.1852	1.1343	1.1623	Wholesale trade
Wholesale Trade - Nondurable Goods	51	1.1693	1.1731	1.2162	1.1852	1.1343	1.1623	Wholesale trade
Building Materials & Garden Supplies	52	1.1480	1.1461	1.1728	1.1546	1.1079	1.1301	Retail trade
General Merchandise Stores	53	1.1480	1.1461	1.1728	1.1546	1.1079	1.1301	Retail trade
Food Stores	54	1.1480	1.1461	1.1728	1.1546	1.1079	1.1301	Retail trade
Automotive Dealers & Service Stations	55	1.1480	1.1461	1.1728	1.1546	1.1079	1.1301	Retail trade
Apparel and Accessory Stores	56	1.1480	1.1461	1.1728	1.1546	1.1079	1.1301	Retail trade
Furniture and Homefurnishing Stores	57	1.1480	1.1461	1.1728	1.1546	1.1079	1.1301	Retail trade
Eating and Drinking Places	58	1.1480	1.1461	1.1728	1.1546	1.1079	1.1301	Retail trade
Misc. Retail	59	1.1480	1.1461	1.1728	1.1546	1.1079	1.1301	Retail trade
Depository Institutions	60	1.2018	1.1915	1.2944	1.2268	1.1749	1.2026	Banks & investment
Nondepository Institutions	61	1.2018	1.1915	1.2944	1.2268	1.1749	1.2026	Banks & investment
Security and Commodity Brokers	62	1.2018	1.1915	1.2944	1.2268	1.1749	1.2026	Banks & investment
Insurance Carriers	63	1.1508	1.1475	1.1838	1.1594	1.1107	1.1408	Insurance

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	MO	MS	NC	NE	NY	OH	BEA Surrogate
Insurance Agents, Brokers & Service	64	1.1508	1.1475	1.1838	1.1594	1.1107	1.1408	Insurance
Real Estate	65	1.1653	1.1525	1.2123	1.1503	1.1154	1.1381	Real estate
Holding and Other Investment Offices	67	1.2018	1.1915	1.2944	1.2268	1.1749	1.2026	Banks & investment
Hotels and Other Lodging Places	70	1.1924	1.1422	1.2025	1.1409	1.1020	1.1222	Hotels & lodging
Personal Services	72	1.0717	1.0736	1.0916	1.0673	1.0224	1.0585	Personal services
Business Services	73	1.2129	1.2399	1.2951	1.2218	1.1224	1.1994	Business services
Auto Repair, Services, and Parking	75	1.1233	1.1214	1.1704	1.1245	1.0582	1.1192	Auto repair & parking
Misc. Repair Services	76	1.2129	1.2399	1.2951	1.2218	1.1224	1.1994	Business services
Motion Pictures	78	1.2126	1.3176	1.3022	1.2071	1.1635	1.1948	Amusement
Amusement & Recreation Services	79	1.2126	1.3176	1.3022	1.2071	1.1635	1.1948	Amusement
Health Services	80	1.1763	1.1992	1.2619	1.1721	1.1614	1.1590	Health services
Legal Services	81	1.1202	1.1046	1.1972	1.0837	1.0802	1.1033	Legal services
Educational Services	82	1.1526	1.1261	1.1372	1.1579	1.1170	1.1249	Educational services
Social Services	83	1.2106	1.1908	1.2686	1.2038	1.1898	1.1931	Social services
Museums, Botanical, Zoological Gardens	84	1.2245	1.2110	1.2697	1.2410	1.1427	1.1886	Other services
Membership Organizations	86	1.2106	1.1908	1.2686	1.2038	1.1898	1.1931	Social services
Engineering & Management Services	87	1.2245	1.2110	1.2697	1.2410	1.1427	1.1886	Other services
Private Households	88	1.0395	1.0280	1.0750	1.0446	1.0353	1.0105	Private households
Services, NEC	89	1.2245	1.2110	1.2697	1.2410	1.1427	1.1886	Other services
Executive, Legislative, and General	91	1.0720	1.0605	1.1031	1.0790	1.0508	1.0687	Government
Justice, Public Order, and Safety	92	1.0976	1.0811	1.1297	1.0966	1.0586	1.0840	State and local
Finance, Taxation, & Monetary Policy	93	1.0976	1.0811	1.1297	1.0966	1.0586	1.0840	State and local
Administration of Human Resources	94	1.0976	1.0811	1.1297	1.0966	1.0586	1.0840	State and local
Environmental Quality and Housing	95	1.0976	1.0811	1.1297	1.0966	1.0586	1.0840	State and local
Administration of Economic Programs	96	1.0976	1.0811	1.1297	1.0966	1.0586	1.0840	State and local
National Security and International Affairs	97	1.0720	1.0605	1.1031	1.0790	1.0508	1.0687	Government

Source: Developed from BEA, 1995.

Table B-15
BEA Gross State Product (GSP) Growth factors by 2-Digit SIC for 1999 to 2007 for States OK, PA, SC, TN, VA and WV

Description	SIC	OK	PA	SC	TN	VA	WV	BEA Surrogate
Agricultural Production - Crops	01	1.1973	1.1697	1.1338	1.1853	1.1052	1.2984	Farm
Agricultural Production - Livestock	02	1.1973	1.1697	1.1338	1.1853	1.1052	1.2984	Farm
Agricultural Services	07	1.4006	1.3071	1.3304	1.3550	1.3446	1.3907	Agricultural services
Forestry	08	1.4006	1.3071	1.3304	1.3550	1.3446	1.3907	Agricultural services
Fishing, Hunting, and Trapping	09	1.4006	1.3071	1.3304	1.3550	1.3446	1.3907	Agricultural services
Metal Mining	10	1.3450	0.8571	1.2533	1.2684	1.1404	1.3206	Metal mining
Coal mining	11	1.2200	1.1296	1.2218	1.0382	1.2085	1.1396	Coal mining
Coal Mining	12	1.2200	1.1296	1.2218	1.0382	1.2085	1.1396	Coal mining
Oil and Gas Extraction	13	0.9568	1.0256	1.0050	1.0034	1.0902	0.9336	Oil & gas
Nonmetallic Minerals except Fuels	14	1.1151	1.1185	1.1339	1.1007	1.1064	1.0776	Nonmetallic minerals
General Building Contractors	15	1.0876	1.0364	1.1247	1.0918	1.0907	1.0369	Construction
Heavy Construction	16	1.0876	1.0364	1.1247	1.0918	1.0907	1.0369	Construction
Special Trade Contractors	17	1.0876	1.0364	1.1247	1.0918	1.0907	1.0369	Construction
Food and Kindred Products	20	1.0977	1.0645	1.1234	1.1118	1.1256	1.0518	Food & kindred
Tobacco Products	21	1.0000	0.6822	0.6278	0.8146	0.7847	0.7938	Tobacco products
Textile Mill Products	22	1.0433	0.9391	1.0566	1.0766	1.0911	1.1751	Textile mill prod.
Apparel and Other Textile Products	23	1.0783	0.9637	1.1020	1.1447	1.1293	1.0825	Apparel & textile
Lumber and Wood Products	24	1.0845	1.0979	1.0506	1.1064	1.0914	1.1425	Lumber & wood
Furniture and Fixtures	25	1.1098	1.0416	1.1394	1.1531	1.0895	1.0451	Furniture
Paper and Allied Products	26	1.2170	1.1133	1.2483	1.2018	1.1437	1.1218	Paper products
Printing and Publishing	27	1.0001	1.0376	1.1019	1.0689	1.0952	1.0263	Printing & publish.
Chemical and Allied Products	28	1.1097	1.1212	1.1650	1.1076	1.0783	1.0490	Chemicals
Petroleum and Coal Products	29	1.1152	1.0415	1.2691	1.1205	1.1811	1.0816	Petroleum products
Rubber and Misc. Plastic Products	30	1.2588	1.2144	1.2557	1.2579	1.2693	1.3066	Rubber & plastics
Leather and Leather Products	31	0.9858	0.9208	0.7818	0.9658	0.9601	0.9807	Leather products
Stone, Clay and Glass Products	32	1.0674	1.0178	1.0620	1.0911	1.0452	1.0237	Stone, clay, glass
Primary Metal Industries	33	1.0935	0.8953	1.1596	1.0676	1.0486	1.0062	Primary metals

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	OK	PA	SC	TN	VA	WV	BEA Surrogate
Fabricated Metal Industries	34	1.1199	1.0018	1.1633	1.0876	1.0470	1.0878	Fabricated metals
Industrial Machinery and Equipment	35	1.2321	1.1928	1.3869	1.2828	1.3207	1.1821	Indust. Machinery
Electronic and Other Electronic Equipment	36	1.1500	1.0474	1.2846	1.1973	1.1711	1.0549	Electronic equip.
Transportation Equipment	37	1.1989	1.2184	1.2855	1.2398	1.2117	1.2976	Other trans. equip.
Instruments and Related Products	38	1.2928	1.0450	1.1819	1.1650	1.1338	1.1780	Instruments
Misc. Manufacturing Industries	39	1.1913	1.0798	1.1400	1.1732	1.1310	1.1600	Misc. manufacturing
Railroad Transportation	40	1.2016	1.2162	1.2214	1.2237	1.2718	1.2173	Railroad transport.
Local and Interurban Passenger Transit	41	1.0939	1.1260	1.1236	1.1311	1.1093	1.0957	Local & interurban
Trucking and Warehousing	42	1.1519	1.1134	1.2292	1.1895	1.1820	1.1466	Trucking
Water Transportation	44	1.1059	0.9851	1.0546	1.0878	1.0326	1.0177	Water transportation
Transportation by Air	45	1.2662	1.2724	1.3697	1.3352	1.2586	1.2461	Transportation by air
Pipelines except Natural Gas	46	1.0374	1.0231	1.0126	1.0281	1.0341	0.9996	Pipelines
Transportation Services	47	1.2606	1.1914	1.2610	1.2705	1.2603	1.2906	Transport. services
Communications	48	1.2234	1.1927	1.2485	1.2408	1.2420	1.1866	Communications
Electric, Gas, and Sanitary Services	49	1.1421	1.1179	1.1636	1.2014	1.1715	1.1338	Utilities
Wholesale Trade - Durable Goods	50	1.1705	1.1588	1.2271	1.1968	1.2035	1.1473	Wholesale trade
Wholesale Trade - Nondurable Goods	51	1.1705	1.1588	1.2271	1.1968	1.2035	1.1473	Wholesale trade
Building Materials & Garden Supplies	52	1.1401	1.1222	1.1791	1.1624	1.1621	1.1275	Retail trade
General Merchandise Stores	53	1.1401	1.1222	1.1791	1.1624	1.1621	1.1275	Retail trade
Food Stores	54	1.1401	1.1222	1.1791	1.1624	1.1621	1.1275	Retail trade
Automotive Dealers & Service Stations	55	1.1401	1.1222	1.1791	1.1624	1.1621	1.1275	Retail trade
Apparel and Accessory Stores	56	1.1401	1.1222	1.1791	1.1624	1.1621	1.1275	Retail trade
Furniture and Homefurnishing Stores	57	1.1401	1.1222	1.1791	1.1624	1.1621	1.1275	Retail trade
Eating and Drinking Places	58	1.1401	1.1222	1.1791	1.1624	1.1621	1.1275	Retail trade
Misc. Retail	59	1.1401	1.1222	1.1791	1.1624	1.1621	1.1275	Retail trade
Depository Institutions	60	1.1689	1.1891	1.2523	1.2333	1.2679	1.1565	Banks & investment
Nondepository Institutions	61	1.1689	1.1891	1.2523	1.2333	1.2679	1.1565	Banks & investment
Security and Commodity Brokers	62	1.1689	1.1891	1.2523	1.2333	1.2679	1.1565	Banks & investment
Insurance Carriers	63	1.1432	1.1660	1.1667	1.1655	1.1962	1.1125	Insurance

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	OK	PA	SC	TN	VA	WV	BEA Surrogate
Insurance Agents, Brokers & Service	64	1.1432	1.1660	1.1667	1.1655	1.1962	1.1125	Insurance
Real Estate	65	1.1366	1.1291	1.2134	1.1733	1.1865	1.1314	Real estate
Holding and Other Investment Offices	67	1.1689	1.1891	1.2523	1.2333	1.2679	1.1565	Banks & investment
Hotels and Other Lodging Places	70	1.0896	1.1279	1.2137	1.1889	1.1841	1.1624	Hotels & lodging
Personal Services	72	1.0786	1.0431	1.1087	1.0826	1.0842	1.0393	Personal services
Business Services	73	1.2037	1.1789	1.2934	1.2658	1.2435	1.2511	Business services
Auto Repair, Services, and Parking	75	1.1351	1.0974	1.1629	1.1513	1.1412	1.1134	Auto repair & parking
Misc. Repair Services	76	1.2037	1.1789	1.2934	1.2658	1.2435	1.2511	Business services
Motion Pictures	78	1.1989	1.1747	1.2809	1.2545	1.2452	1.1635	Amusement
Amusement & Recreation Services	79	1.1989	1.1747	1.2809	1.2545	1.2452	1.1635	Amusement
Health Services	80	1.1790	1.1822	1.2648	1.2051	1.2093	1.1628	Health services
Legal Services	81	1.1013	1.1151	1.1867	1.1378	1.1405	1.1099	Legal services
Educational Services	82	1.1286	1.1313	1.1444	1.1696	1.1709	1.1641	Educational services
Social Services	83	1.2103	1.2266	1.2622	1.2380	1.2337	1.1970	Social services
Museums, Botanical, Zoological Gardens	84	1.1791	1.1896	1.2894	1.2731	1.2590	1.2294	Other services
Membership Organizations	86	1.2103	1.2266	1.2622	1.2380	1.2337	1.1970	Social services
Engineering & Management Services	87	1.1791	1.1896	1.2894	1.2731	1.2590	1.2294	Other services
Private Households	88	1.0432	1.0193	1.0603	1.0551	1.0519	1.0229	Private households
Services, NEC	89	1.1791	1.1896	1.2894	1.2731	1.2590	1.2294	Other services
Executive, Legislative, and General	91	1.0581	1.0508	1.1118	1.0878	1.0677	1.0681	Government
Justice, Public Order, and Safety	92	1.0867	1.0679	1.1436	1.1223	1.1144	1.0759	State and local
Finance, Taxation, & Monetary Policy	93	1.0867	1.0679	1.1436	1.1223	1.1144	1.0759	State and local
Administration of Human Resources	94	1.0867	1.0679	1.1436	1.1223	1.1144	1.0759	State and local
Environmental Quality and Housing	95	1.0867	1.0679	1.1436	1.1223	1.1144	1.0759	State and local
Administration of Economic Programs	96	1.0867	1.0679	1.1436	1.1223	1.1144	1.0759	State and local
National Security and International Affairs	97	1.0581	1.0508	1.1118	1.0878	1.0677	1.0681	Government

Source: Developed from BEA, 1995.

Table B-16
BEA Gross State Product (GSP) Growth factors by 2-Digit SIC for 2001 to 2007 for State of MS

Description	SIC	MS	BEA Surrogate
Agricultural Production - Crops	01	1.1102	Farm
Agricultural Production - Livestock	02	1.1102	Farm
Agricultural Services	07	1.2346	Agricultural services
Forestry	08	1.2346	Agricultural services
Fishing, Hunting, and Trapping	09	1.2346	Agricultural services
Metal Mining	10	1.0000	Metal mining
Coal mining	11	1.0000	Coal mining
Coal Mining	12	1.0000	Coal mining
Oil and Gas Extraction	13	0.9991	Oil & gas
Nonmetallic Minerals except Fuels	14	1.0727	Nonmetallic minerals
General Building Contractors	15	1.0642	Construction
Heavy Construction	16	1.0642	Construction
Special Trade Contractors	17	1.0642	Construction
Food and Kindred Products	20	1.0894	Food & kindred
Tobacco Products	21	1.0000	Tobacco products
Textile Mill Products	22	1.1212	Textile mill prod.
Apparel and Other Textile Products	23	1.1094	Apparel & textile
Lumber and Wood Products	24	1.0581	Lumber & wood
Furniture and Fixtures	25	1.1238	Furniture
Paper and Allied Products	26	1.1267	Paper products
Printing and Publishing	27	1.0603	Printing & publish.
Chemical and Allied Products	28	1.0795	Chemicals
Petroleum and Coal Products	29	1.0833	Petroleum products
Rubber and Misc. Plastic Products	30	1.2220	Rubber & plastics
Leather and Leather Products	31	0.9846	Leather products
Stone, Clay and Glass Products	32	1.0495	Stone, clay, glass
Primary Metal Industries	33	1.0623	Primary metals

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	MS	BEA Surrogate
Fabricated Metal Industries	34	1.0471	Fabricated metals
Industrial Machinery and Equipment	35	1.2251	Indust. machinery
Electronic and Other Electronic Equipment	36	1.1424	Electronic equip.
Transportation Equipment	37	1.1615	Other trans. equip.
Instruments and Related Products	38	1.1203	Instruments
Misc. Manufacturing Industries	39	1.0871	Misc. manufacturing
Railroad Transportation	40	1.1539	Railroad transport.
Local and Interurban Passenger Transit	41	1.0673	Local & interurban
Trucking and Warehousing	42	1.1353	Trucking
Water Transportation	44	1.0070	Water transportation
Transportation by Air	45	1.2343	Transportation by air
Pipelines except Natural Gas	46	1.0337	Pipelines
Transportation Services	47	1.1265	Transport. services
Communications	48	1.1453	Communications
Electric, Gas, and Sanitary Services	49	1.1104	Utilities
Wholesale Trade - Durable Goods	50	1.1260	Wholesale trade
Wholesale Trade - Nondurable Goods	51	1.1260	Wholesale trade
Building Materials & Garden Supplies	52	1.1062	Retail trade
General Merchandise Stores	53	1.1062	Retail trade
Food Stores	54	1.1062	Retail trade
Automotive Dealers & Service Stations	55	1.1062	Retail trade
Apparel and Accessory Stores	56	1.1062	Retail trade
Furniture and Homefurnishing Stores	57	1.1062	Retail trade
Eating and Drinking Places	58	1.1062	Retail trade
Misc. Retail	59	1.1062	Retail trade
Depository Institutions	60	1.1307	Banks & investment
Nondepository Institutions	61	1.1307	Banks & investment
Security and Commodity Brokers	62	1.1307	Banks & investment
Insurance Carriers	63	1.1121	Insurance

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	MS	BEA Surrogate
Insurance Agents, Brokers & Service	64	1.1121	Insurance
Real Estate	65	1.1109	Real estate
Holding and Other Investment Offices	67	1.1307	Banks & investment
Hotels and Other Lodging Places	70	1.1008	Hotels & lodging
Personal Services	72	1.0521	Personal services
Business Services	73	1.1720	Business services
Auto Repair, Services, and Parking	75	1.0843	Auto repair & parking
Misc. Repair Services	76	1.1720	Business services
Motion Pictures	78	1.1692	Amusement
Amusement & Recreation Services	79	1.1692	Amusement
Health Services	80	1.1519	Health services
Legal Services	81	1.0870	Legal services
Educational Services	82	1.0926	Educational services
Social Services	83	1.1317	Social services
Museums, Botanical, Zoological Gardens	84	1.1492	Other services
Membership Organizations	86	1.1317	Social services
Engineering & Management Services	87	1.1492	Other services
Private Households	88	1.0181	Private households
Services, NEC	89	1.1492	Other services
Executive, Legislative, and General	91	1.0485	Government
Justice, Public Order, and Safety	92	1.0638	State and local
Finance, Taxation, & Monetary Policy	93	1.0638	State and local
Administration of Human Resources	94	1.0638	State and local
Environmental Quality and Housing	95	1.0638	State and local
Administration of Economic Programs	96	1.0638	State and local
National Security and International Affairs	97	1.0485	Government

Source: Developed from BEA, 1995.

Table B-17
BEA Gross State Product (GSP) Growth factors by 2-Digit SIC for 2001 to 2007 for State of TN

Description	SIC	TN	BEA Surrogate
Agricultural Production - Crops	01	1.1257	Farm
Agricultural Production - Livestock	02	1.1257	Farm
Agricultural Services	07	1.2508	Agricultural services
Forestry	08	1.2508	Agricultural services
Fishing, Hunting, and Trapping	09	1.2508	Agricultural services
Metal Mining	10	1.1861	Metal mining
Coal mining	11	1.0388	Coal mining
Coal Mining	12	1.0388	Coal mining
Oil and Gas Extraction	13	0.9987	Oil & gas
Nonmetallic Minerals except Fuels	14	1.0715	Nonmetallic minerals
General Building Contractors	15	1.0682	Construction
Heavy Construction	16	1.0682	Construction
Special Trade Contractors	17	1.0682	Construction
Food and Kindred Products	20	1.0806	Food & kindred
Tobacco Products	21	0.8605	Tobacco products
Textile Mill Products	22	1.0538	Textile mill prod.
Apparel and Other Textile Products	23	1.1022	Apparel & textile
Lumber and Wood Products	24	1.0798	Lumber & wood
Furniture and Fixtures	25	1.1131	Furniture
Paper and Allied Products	26	1.1408	Paper products
Printing and Publishing	27	1.0504	Printing & publish.
Chemical and Allied Products	28	1.0805	Chemicals
Petroleum and Coal Products	29	1.0844	Petroleum products
Rubber and Misc. Plastic Products	30	1.1812	Rubber & plastics
Leather and Leather Products	31	0.9722	Leather products
Stone, Clay and Glass Products	32	1.0697	Stone, clay, glass
Primary Metal Industries	33	1.0520	Primary metals

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	TN	BEA Surrogate
Fabricated Metal Industries	34	1.0663	Fabricated metals
Industrial Machinery and Equipment	35	1.1875	Indust. machinery
Electronic and Other Electronic Equipment	36	1.1369	Electronic equip.
Transportation Equipment	37	1.1698	Other trans. equip.
Instruments and Related Products	38	1.1255	Instruments
Misc. Manufacturing Industries	39	1.1284	Misc. manufacturing
Railroad Transportation	40	1.1587	Railroad transport.
Local and Interurban Passenger Transit	41	1.0880	Local & interurban
Trucking and Warehousing	42	1.1312	Trucking
Water Transportation	44	1.0609	Water transportation
Transportation by Air	45	1.2300	Transportation by air
Pipelines except Natural Gas	46	1.0077	Pipelines
Transportation Services	47	1.1819	Transport. services
Communications	48	1.1679	Communications
Electric, Gas, and Sanitary Services	49	1.1389	Utilities
Wholesale Trade - Durable Goods	50	1.1406	Wholesale trade
Wholesale Trade - Nondurable Goods	51	1.1406	Wholesale trade
Building Materials & Garden Supplies	52	1.1190	Retail trade
General Merchandise Stores	53	1.1190	Retail trade
Food Stores	54	1.1190	Retail trade
Automotive Dealers & Service Stations	55	1.1190	Retail trade
Apparel and Accessory Stores	56	1.1190	Retail trade
Furniture and Homefurnishing Stores	57	1.1190	Retail trade
Eating and Drinking Places	58	1.1190	Retail trade
Misc. Retail	59	1.1190	Retail trade
Depository Institutions	60	1.1582	Banks & investment
Nondepository Institutions	61	1.1582	Banks & investment
Security and Commodity Brokers	62	1.1582	Banks & investment
Insurance Carriers	63	1.1225	Insurance

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	TN	BEA Surrogate
Insurance Agents, Brokers & Service	64	1.1225	Insurance
Real Estate	65	1.1250	Real estate
Holding and Other Investment Offices	67	1.1582	Banks & investment
Hotels and Other Lodging Places	70	1.1374	Hotels & lodging
Personal Services	72	1.0603	Personal services
Business Services	73	1.1780	Business services
Auto Repair, Services, and Parking	75	1.1051	Auto repair & parking
Misc. Repair Services	76	1.1780	Business services
Motion Pictures	78	1.1705	Amusement
Amusement & Recreation Services	79	1.1705	Amusement
Health Services	80	1.1498	Health services
Legal Services	81	1.1018	Legal services
Educational Services	82	1.1201	Educational services
Social Services	83	1.1654	Social services
Museums, Botanical, Zoological Gardens	84	1.1900	Other services
Membership Organizations	86	1.1654	Social services
Engineering & Management Services	87	1.1900	Other services
Private Households	88	1.0368	Private households
Services, NEC	89	1.1900	Other services
Executive, Legislative, and General	91	1.0668	Government
Justice, Public Order, and Safety	92	1.0896	State and local
Finance, Taxation, & Monetary Policy	93	1.0896	State and local
Administration of Human Resources	94	1.0896	State and local
Environmental Quality and Housing	95	1.0896	State and local
Administration of Economic Programs	96	1.0896	State and local
National Security and International Affairs	97	1.0668	Government

Source: Developed from BEA, 1995.

Table B-18
BEA Gross State Product (GSP) Growth factors by 2-Digit SIC for 2002 to 2007 for State of TN

Description	SIC	TN	BEA Surrogate
Agricultural Production - Crops	01	1.1016	Farm
Agricultural Production - Livestock	02	1.1016	Farm
Agricultural Services	07	1.2005	Agricultural services
Forestry	08	1.2005	Agricultural services
Fishing, Hunting, and Trapping	09	1.2005	Agricultural services
Metal Mining	10	1.1501	Metal mining
Coal mining	11	1.0288	Coal mining
Coal Mining	12	1.0288	Coal mining
Oil and Gas Extraction	13	0.9993	Oil & gas
Nonmetallic Minerals except Fuels	14	1.0596	Nonmetallic minerals
General Building Contractors	15	1.0561	Construction
Heavy Construction	16	1.0561	Construction
Special Trade Contractors	17	1.0561	Construction
Food and Kindred Products	20	1.0663	Food & kindred
Tobacco Products	21	0.8826	Tobacco products
Textile Mill Products	22	1.0443	Textile mill prod.
Apparel and Other Textile Products	23	1.0839	Apparel & textile
Lumber and Wood Products	24	1.0653	Lumber & wood
Furniture and Fixtures	25	1.0923	Furniture
Paper and Allied Products	26	1.1147	Paper products
Printing and Publishing	27	1.0416	Printing & publish.
Chemical and Allied Products	28	1.0662	Chemicals
Petroleum and Coal Products	29	1.0692	Petroleum products
Rubber and Misc. Plastic Products	30	1.1466	Rubber & plastics
Leather and Leather Products	31	0.9768	Leather products
Stone, Clay and Glass Products	32	1.0577	Stone, clay, glass
Primary Metal Industries	33	1.0429	Primary metals

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	TN	BEA Surrogate
Fabricated Metal Industries	34	1.0545	Fabricated metals
Industrial Machinery and Equipment	35	1.1503	Indust. machinery
Electronic and Other Electronic Equipment	36	1.1108	Electronic equip.
Transportation Equipment	37	1.1372	Other trans. equip.
Instruments and Related Products	38	1.1025	Instruments
Misc. Manufacturing Industries	39	1.1047	Misc. manufacturing
Railroad Transportation	40	1.1279	Railroad transport.
Local and Interurban Passenger Transit	41	1.0720	Local & interurban
Trucking and Warehousing	42	1.1068	Trucking
Water Transportation	44	1.0500	Water transportation
Transportation by Air	45	1.1844	Transportation by air
Pipelines except Natural Gas	46	1.0069	Pipelines
Transportation Services	47	1.1466	Transport. services
Communications	48	1.1358	Communications
Electric, Gas, and Sanitary Services	49	1.1138	Utilities
Wholesale Trade - Durable Goods	50	1.1139	Wholesale trade
Wholesale Trade - Nondurable Goods	51	1.1139	Wholesale trade
Building Materials & Garden Supplies	52	1.0974	Retail trade
General Merchandise Stores	53	1.0974	Retail trade
Food Stores	54	1.0974	Retail trade
Automotive Dealers & Service Stations	55	1.0974	Retail trade
Apparel and Accessory Stores	56	1.0974	Retail trade
Furniture and Homefurnishing Stores	57	1.0974	Retail trade
Eating and Drinking Places	58	1.0974	Retail trade
Misc. Retail	59	1.0974	Retail trade
Depository Institutions	60	1.1282	Banks & investment
Nondepository Institutions	61	1.1282	Banks & investment
Security and Commodity Brokers	62	1.1282	Banks & investment
Insurance Carriers	63	1.0999	Insurance

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	TN	BEA Surrogate
Insurance Agents, Brokers & Service	64	1.0999	Insurance
Real Estate	65	1.1018	Real estate
Holding and Other Investment Offices	67	1.1282	Banks & investment
Hotels and Other Lodging Places	70	1.1117	Hotels & lodging
Personal Services	72	1.0498	Personal services
Business Services	73	1.1432	Business services
Auto Repair, Services, and Parking	75	1.0857	Auto repair & parking
Misc. Repair Services	76	1.1432	Business services
Motion Pictures	78	1.1379	Amusement
Amusement & Recreation Services	79	1.1379	Amusement
Health Services	80	1.1213	Health services
Legal Services	81	1.0824	Legal services
Educational Services	82	1.0981	Educational services
Social Services	83	1.1336	Social services
Museums, Botanical, Zoological Gardens	84	1.1531	Other services
Membership Organizations	86	1.1336	Social services
Engineering & Management Services	87	1.1531	Other services
Private Households	88	1.0306	Private households
Services, NEC	89	1.1531	Other services
Executive, Legislative, and General	91	1.0550	Government
Justice, Public Order, and Safety	92	1.0733	State and local
Finance, Taxation, & Monetary Policy	93	1.0733	State and local
Administration of Human Resources	94	1.0733	State and local
Environmental Quality and Housing	95	1.0733	State and local
Administration of Economic Programs	96	1.0733	State and local
National Security and International Affairs	97	1.0550	Government

Source: Developed from BEA, 1995.

Table B-19
BEA Employment Growth Factors by 2-Digit SIC for 1999 to 2007 for State of LA

Description	SIC	LA	BEA Surrogate
Agricultural Production - Crops	01	0.9463	Farm
Agricultural Production - Livestock	02	0.9463	Farm
Agricultural Services	07	1.1820	Agricultural services
Forestry	08	1.1820	Agricultural services
Fishing, Hunting, and Trapping	09	1.1820	Agricultural services
Metal Mining	10	1.2000	Metal mining
Coal mining	11	1.0000	Coal mining
Coal Mining	12	1.0000	Coal mining
Oil and Gas Extraction	13	0.9182	Oil & gas
Nonmetallic Minerals except Fuels	14	1.0000	Nonmetallic minerals
General Building Contractors	15	1.0738	Construction
Heavy Construction	16	1.0738	Construction
Special Trade Contractors	17	1.0738	Construction
Food and Kindred Products	20	1.0038	Food & kindred
Tobacco Products	21	1.0000	Tobacco products
Textile Mill Products	22	1.0866	Textile mill prod.
Apparel and Other Textile Products	23	1.0165	Apparel & textile
Lumber and Wood Products	24	1.0106	Lumber & wood
Furniture and Fixtures	25	1.0500	Furniture
Paper and Allied Products	26	0.9966	Paper products
Printing and Publishing	27	1.0557	Printing & publish.
Chemical and Allied Products	28	1.0322	Chemicals
Petroleum and Coal Products	29	0.9521	Petroleum products
Rubber and Misc. Plastic Products	30	1.2347	Rubber & plastics
Leather and Leather Products	31	1.0000	Leather products
Stone, Clay and Glass Products	32	0.9861	Stone, clay, glass
Primary Metal Industries	33	0.9511	Primary metals

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	LA	BEA Surrogate
Fabricated Metal Industries	34	0.9890	Fabricated metals
Industrial Machinery and Equipment	35	0.9981	Indust. machinery
Electronic and Other Electronic Equipment	36	0.9084	Electronic equip.
Transportation Equipment	37	1.0334	Other trans. equip.
Instruments and Related Products	38	1.0909	Instruments
Misc. Manufacturing Industries	39	1.0165	Misc. manufacturing
Railroad Transportation	40	0.9935	Railroad transport.
Local and Interurban Passenger Transit	41	1.0932	Local & interurban
Trucking and Warehousing	42	1.0926	Trucking
Water Transportation	44	0.9740	Water transportation
Transportation by Air	45	1.0787	Transportation by air
Pipelines except Natural Gas	46	1.0000	Pipelines
Transportation Services	47	1.1702	Transport. services
Communications	48	0.9781	Communications
Electric, Gas, and Sanitary Services	49	1.0504	Utilities
Wholesale Trade - Durable Goods	50	1.0736	Wholesale trade
Wholesale Trade - Nondurable Goods	51	1.0736	Wholesale trade
Building Materials & Garden Supplies	52	1.0796	Retail trade
General Merchandise Stores	53	1.0796	Retail trade
Food Stores	54	1.0796	Retail trade
Automotive Dealers & Service Stations	55	1.0796	Retail trade
Apparel and Accessory Stores	56	1.0796	Retail trade
Furniture and Homefurnishing Stores	57	1.0796	Retail trade
Eating and Drinking Places	58	1.0796	Retail trade
Misc. Retail	59	1.0796	Retail trade
Depository Institutions	60	1.0639	Banks & investment
Nondepository Institutions	61	1.0639	Banks & investment
Security and Commodity Brokers	62	1.0639	Banks & investment
Insurance Carriers	63	1.0948	Insurance

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Description	SIC	LA	BEA Surrogate
Insurance Agents, Brokers & Service	64	1.0948	Insurance
Real Estate	65	1.0983	Real estate
Holding and Other Investment Offices	67	1.0639	Banks & investment
Hotels and Other Lodging Places	70	1.1209	Hotels & lodging
Personal Services	72	1.0588	Personal services
Business Services	73	1.1965	Business services
Auto Repair, Services, and Parking	75	1.1311	Auto repair & parking
Misc. Repair Services	76	1.1965	Business services
Motion Pictures	78	1.1349	Amusement
Amusement & Recreation Services	79	1.1349	Amusement
Health Services	80	1.1980	Health services
Legal Services	81	1.1147	Legal services
Educational Services	82	1.1083	Educational services
Social Services	83	1.1620	Social services
Museums, Botanical, Zoological Gardens	84	1.1641	Other services
Membership Organizations	86	1.1620	Social services
Engineering & Management Services	87	1.1641	Other services
Private Households	88	0.8882	Private households
Services, NEC	89	1.1641	Other services
Executive, Legislative, and General	91	1.0493	Government
Justice, Public Order, and Safety	92	1.0667	State and local
Finance, Taxation, & Monetary Policy	93	1.0667	State and local
Administration of Human Resources	94	1.0667	State and local
Environmental Quality and Housing	95	1.0667	State and local
Administration of Economic Programs	96	1.0667	State and local
National Security and International Affairs	97	1.0493	Government

Source: Developed from BEA, 1995.

Table B-20
Energy Adjustment Factors applied to the Point Combustion Sources

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Total Industrial	Steam Coal	10200101	0.8780
Industrial	Total Industrial	Steam Coal	10200104	0.8780
Industrial	Total Industrial	Steam Coal	10200107	0.8780
Industrial	Total Industrial	Steam Coal	10200117	0.8780
Industrial	Total Industrial	Steam Coal	10200201	0.8780
Industrial	Total Industrial	Steam Coal	10200202	0.8780
Industrial	Total Industrial	Steam Coal	10200203	0.8780
Industrial	Total Industrial	Steam Coal	10200204	0.8780
Industrial	Total Industrial	Steam Coal	10200205	0.8780
Industrial	Total Industrial	Steam Coal	10200206	0.8780
Industrial	Total Industrial	Steam Coal	10200210	0.8780
Industrial	Total Industrial	Steam Coal	10200212	0.8780
Industrial	Total Industrial	Steam Coal	10200213	0.8780
Industrial	Total Industrial	Steam Coal	10200217	0.8780
Industrial	Total Industrial	Steam Coal	10200218	0.8780
Industrial	Total Industrial	Steam Coal	10200219	0.8780
Industrial	Total Industrial	Steam Coal	10200221	0.8780
Industrial	Total Industrial	Steam Coal	10200222	0.8780
Industrial	Total Industrial	Steam Coal	10200223	0.8780
Industrial	Total Industrial	Steam Coal	10200224	0.8780
Industrial	Total Industrial	Steam Coal	10200225	0.8780
Industrial	Total Industrial	Steam Coal	10200226	0.8780
Industrial	Total Industrial	Steam Coal	10200229	0.8780
Industrial	Total Industrial	Steam Coal	10200300	0.8780
Industrial	Total Industrial	Steam Coal	10200301	0.8780
Industrial	Total Industrial	Steam Coal	10200302	0.8780
Industrial	Total Industrial	Steam Coal	10200303	0.8780

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Total Industrial	Steam Coal	10200304	0.8780
Industrial	Total Industrial	Steam Coal	10200306	0.8780
Industrial	Total Industrial	Steam Coal	10200307	0.8780
Industrial	Total Industrial	Residual	10200401	0.9650
Industrial	Total Industrial	Residual	10200402	0.9650
Industrial	Total Industrial	Residual	10200403	0.9650
Industrial	Total Industrial	Residual	10200404	0.9650
Industrial	Total Industrial	Residual	10200405	0.9650
Industrial	Total Industrial	Distillate	10200501	0.9680
Industrial	Total Industrial	Distillate	10200502	0.9680
Industrial	Total Industrial	Distillate	10200503	0.9680
Industrial	Total Industrial	Distillate	10200504	0.9680
Industrial	Total Industrial	Distillate	10200505	0.9680
Industrial	Total Industrial	Natural Gas	10200601	0.9130
Industrial	Total Industrial	Natural Gas	10200602	0.9130
Industrial	Total Industrial	Natural Gas	10200603	0.9130
Industrial	Total Industrial	Natural Gas	10200604	0.9130
Industrial	Refining	Still Gas	10200701	1.1740
Industrial	Iron and Steel	Blast Furnace and Coke Oven Gas	10200704	0.8790
Industrial	Iron and Steel	Blast Furnace and Coke Oven Gas	10200707	0.8790
Industrial	Total Industrial	Total Delivered Energy	10200710	0.9230
Industrial	Total Industrial	Total Delivered Energy	10200799	0.9230
Industrial	Total Industrial	Steam Coal	10200802	0.8780
Industrial	Total Industrial	Steam Coal	10200804	0.8780
Industrial	Total Industrial	Renewables	10200901	0.9570
Industrial	Total Industrial	Renewables	10200902	0.9570
Industrial	Total Industrial	Renewables	10200903	0.9570
Industrial	Total Industrial	Renewables	10200904	0.9570
Industrial	Total Industrial	Renewables	10200905	0.9570

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Total Industrial	Renewables	10200906	0.9570
Industrial	Total Industrial	Renewables	10200907	0.9570
Industrial	Total Industrial	Renewables	10200910	0.9570
Industrial	Total Industrial	Renewables	10200911	0.9570
Industrial	Total Industrial	Renewables	10200912	0.9570
Industrial	Total Industrial	LPG	10201001	0.9300
Industrial	Total Industrial	LPG	10201002	0.9300
Industrial	Total Industrial	LPG	10201003	0.9300
Industrial	Total Industrial	Renewables	10201101	0.9570
Industrial	Total Industrial	Renewables	10201201	0.9570
Industrial	Total Industrial	Renewables	10201202	0.9570
Industrial	Total Industrial	Renewables	10201301	0.9570
Industrial	Total Industrial	Other Petroleum	10201302	0.9600
Industrial	Total Industrial	Natural Gas	10201401	0.9130
Industrial	Total Industrial	Total Delivered Energy	10201402	0.9230
Industrial	Total Industrial	Distillate	10201403	0.9680
Industrial	Total Industrial	Residual	10201404	0.9650
Industrial	Total Industrial	Motor Gasoline	10201601	1.0030
Industrial	Total Industrial	Motor Gasoline	10201701	1.0030
Commercial		Coal	10300101	0.9940
Commercial		Coal	10300102	0.9940
Commercial		Coal	10300103	0.9940
Commercial		Coal	10300203	0.9940
Commercial		Coal	10300205	0.9940
Commercial		Coal	10300206	0.9940
Commercial		Coal	10300207	0.9940
Commercial		Coal	10300208	0.9940
Commercial		Coal	10300209	0.9940
Commercial		Coal	10300211	0.9940

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Commercial		Coal	10300214	0.9940
Commercial		Coal	10300216	0.9940
Commercial		Coal	10300217	0.9940
Commercial		Coal	10300218	0.9940
Commercial		Coal	10300221	0.9940
Commercial		Coal	10300222	0.9940
Commercial		Coal	10300223	0.9940
Commercial		Coal	10300224	0.9940
Commercial		Coal	10300225	0.9940
Commercial		Coal	10300226	0.9940
Commercial		Coal	10300300	0.9940
Commercial		Coal	10300305	0.9940
Commercial		Coal	10300306	0.9940
Commercial		Coal	10300307	0.9940
Commercial		Coal	10300309	0.9940
Commercial		Residual	10300401	0.9730
Commercial		Residual	10300402	0.9730
Commercial		Residual	10300403	0.9730
Commercial		Residual	10300404	0.9730
Commercial		Distillate	10300501	0.8550
Commercial		Distillate	10300502	0.8550
Commercial		Distillate	10300503	0.8550
Commercial		Distillate	10300504	0.8550
Commercial		Natural Gas	10300601	0.9740
Commercial		Natural Gas	10300602	0.9740
Commercial		Natural Gas	10300603	0.9740
Commercial		Renewables	10300701	1.0390
Commercial		Total Delivered Energy	10300799	0.9970
Commercial		Renewables	10300811	1.0390

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Commercial		Renewables	10300901	1.0390
Commercial		Renewables	10300902	1.0390
Commercial		Renewables	10300903	1.0390
Commercial		Renewables	10300910	1.0390
Commercial		Renewables	10300911	1.0390
Commercial		Renewables	10300912	1.0390
Commercial		LPG	10301001	0.9920
Commercial		LPG	10301002	0.9920
Commercial		LPG	10301003	0.9920
Commercial		Renewables	10301201	1.0390
Commercial		Renewables	10301202	1.0390
Commercial		Renewables	10301301	1.0390
Commercial		Total Petroleum	10301302	0.8960
Commercial		Renewables	10301303	1.0390
Industrial	Total Industrial	Steam Coal	10500102	0.8780
Industrial	Total Industrial	Distillate	10500105	0.9680
Industrial	Total Industrial	Natural Gas	10500106	0.9130
Industrial	Total Industrial	LPG	10500110	0.9300
Industrial	Total Industrial	Other Petroleum	10500113	0.9600
Industrial	Total Industrial	Other Petroleum	10500114	0.9600
Commercial		Coal	10500202	0.9940
Commercial		Distillate	10500205	0.8550
Commercial		Natural Gas	10500206	0.9740
Commercial		Renewables	10500209	1.0390
Commercial		LPG	10500210	0.9920
Commercial		Total Petroleum	10500213	0.8960
Commercial		Total Petroleum	10500214	0.8960
Industrial	Total Industrial	Distillate	20200101	0.9680
Industrial	Total Industrial	Distillate	20200102	0.9680

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Total Industrial	Distillate	20200103	0.9680
Industrial	Total Industrial	Distillate	20200104	0.9680
Industrial	Total Industrial	Distillate	20200105	0.9680
Industrial	Total Industrial	Distillate	20200106	0.9680
Industrial	Total Industrial	Distillate	20200107	0.9680
Industrial	Total Industrial	Distillate	20200108	0.9680
Industrial	Total Industrial	Distillate	20200109	0.9680
Industrial	Total Industrial	Natural Gas	20200201	0.9130
Industrial	Total Industrial	Natural Gas	20200202	0.9130
Industrial	Total Industrial	Natural Gas	20200203	0.9130
Industrial	Total Industrial	Natural Gas	20200204	0.9130
Industrial	Total Industrial	Natural Gas	20200205	0.9130
Industrial	Total Industrial	Natural Gas	20200206	0.9130
Industrial	Total Industrial	Natural Gas	20200207	0.9130
Industrial	Total Industrial	Natural Gas	20200208	0.9130
Industrial	Total Industrial	Natural Gas	20200209	0.9130
Industrial	Total Industrial	Natural Gas	20200252	0.9130
Industrial	Total Industrial	Natural Gas	20200253	0.9130
Industrial	Total Industrial	Natural Gas	20200254	0.9130
Industrial	Total Industrial	Natural Gas	20200255	0.9130
Industrial	Total Industrial	Natural Gas	20200256	0.9130
Industrial	Total Industrial	Motor Gasoline	20200301	1.0030
Industrial	Total Industrial	Motor Gasoline	20200305	1.0030
Industrial	Total Industrial	Motor Gasoline	20200306	1.0030
Industrial	Total Industrial	Motor Gasoline	20200307	1.0030
Industrial	Total Industrial	Distillate	20200401	0.9680
Industrial	Total Industrial	Total Petroleum	20200402	0.9380
Industrial	Total Industrial	Total Petroleum	20200403	0.9380
Industrial	Total Industrial	Total Delivered Energy	20200405	0.9230

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Total Industrial	Total Delivered Energy	20200406	0.9230
Industrial	Total Industrial	Total Delivered Energy	20200407	0.9230
Industrial	Total Industrial	Residual	20200501	0.9650
Industrial	Total Industrial	Residual	20200505	0.9650
Industrial	Total Industrial	Residual	20200506	0.9650
Industrial	Total Industrial	Residual	20200507	0.9650
Industrial	Total Industrial	Total Delivered Energy	20200701	0.9230
Industrial	Total Industrial	Total Delivered Energy	20200702	0.9230
Industrial	Refining	Still Gas	20200705	1.1740
Industrial	Refining	Still Gas	20200706	1.1740
Industrial	Total Industrial	Total Delivered Energy	20200710	0.9230
Industrial	Total Industrial	Total Delivered Energy	20200711	0.9230
Industrial	Total Industrial	Total Delivered Energy	20200712	0.9230
Industrial	Total Industrial	Total Delivered Energy	20200713	0.9230
Industrial	Total Industrial	Total Delivered Energy	20200714	0.9230
Industrial	Total Industrial	Other Petroleum	20200901	0.9600
Industrial	Total Industrial	Other Petroleum	20200902	0.9600
Industrial	Total Industrial	Other Petroleum	20200905	0.9600
Industrial	Total Industrial	Other Petroleum	20200906	0.9600
Industrial	Total Industrial	Other Petroleum	20200907	0.9600
Industrial	Total Industrial	Other Petroleum	20200908	0.9600
Industrial	Total Industrial	Other Petroleum	20200909	0.9600
Industrial	Total Industrial	LPG	20201001	0.9300
Industrial	Total Industrial	LPG	20201002	0.9300
Industrial	Total Industrial	LPG	20201005	0.9300
Industrial	Total Industrial	LPG	20201006	0.9300
Industrial	Total Industrial	LPG	20201007	0.9300
Industrial	Total Industrial	LPG	20201008	0.9300
Industrial	Total Industrial	LPG	20201009	0.9300

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Total Industrial	LPG	20201011	0.9300
Industrial	Total Industrial	LPG	20201012	0.9300
Industrial	Total Industrial	LPG	20201013	0.9300
Industrial	Total Industrial	LPG	20201014	0.9300
Industrial	Total Industrial	Motor Gasoline	20201601	1.0030
Industrial	Total Industrial	Motor Gasoline	20201602	1.0030
Industrial	Total Industrial	Motor Gasoline	20201605	1.0030
Industrial	Total Industrial	Motor Gasoline	20201606	1.0030
Industrial	Total Industrial	Motor Gasoline	20201607	1.0030
Industrial	Total Industrial	Motor Gasoline	20201608	1.0030
Industrial	Total Industrial	Motor Gasoline	20201609	1.0030
Industrial	Total Industrial	Motor Gasoline	20201701	1.0030
Industrial	Total Industrial	Motor Gasoline	20201702	1.0030
Industrial	Total Industrial	Motor Gasoline	20201705	1.0030
Industrial	Total Industrial	Motor Gasoline	20201706	1.0030
Industrial	Total Industrial	Motor Gasoline	20201707	1.0030
Industrial	Total Industrial	Motor Gasoline	20201708	1.0030
Industrial	Total Industrial	Motor Gasoline	20201709	1.0030
Industrial	Total Industrial	Total Delivered Energy	20280001	0.9230
Industrial	Total Industrial	Total Delivered Energy	20282001	0.9230
Industrial	Total Industrial	Total Delivered Energy	20282002	0.9230
Industrial	Total Industrial	Total Delivered Energy	20282599	0.9230
Commercial		Distillate	20300101	0.8550
Commercial		Distillate	20300102	0.8550
Commercial		Distillate	20300105	0.8550
Commercial		Distillate	20300106	0.8550
Commercial		Distillate	20300107	0.8550
Commercial		Distillate	20300108	0.8550
Commercial		Distillate	20300109	0.8550

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Commercial		Natural Gas	20300201	0.9740
Commercial		Natural Gas	20300202	0.9740
Commercial		Natural Gas	20300203	0.9740
Commercial		Natural Gas	20300204	0.9740
Commercial		Natural Gas	20300205	0.9740
Commercial		Natural Gas	20300206	0.9740
Commercial		Natural Gas	20300207	0.9740
Commercial		Natural Gas	20300208	0.9740
Commercial		Natural Gas	20300209	0.9740
Commercial		Motor Gasoline	20300301	0.8830
Commercial		Motor Gasoline	20300305	0.8830
Commercial		Motor Gasoline	20300306	0.8830
Commercial		Motor Gasoline	20300307	0.8830
Commercial		Renewables	20300701	1.0390
Commercial		Renewables	20300702	1.0390
Commercial		Renewables	20300705	1.0390
Commercial		Renewables	20300706	1.0390
Commercial		Renewables	20300707	1.0390
Commercial		Renewables	20300708	1.0390
Commercial		Renewables	20300709	1.0390
Commercial		Renewables	20300801	1.0390
Commercial		Renewables	20300802	1.0390
Commercial		Renewables	20300805	1.0390
Commercial		Renewables	20300806	1.0390
Commercial		Renewables	20300807	1.0390
Commercial		Renewables	20300808	1.0390
Commercial		Renewables	20300809	1.0390
Commercial		Kerosene	20300901	0.9820
Commercial		Kerosene	20300908	0.9820

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Commercial		Kerosene	20300909	0.9820
Commercial		LPG	20301001	0.9920
Commercial		LPG	20301002	0.9920
Commercial		LPG	20301005	0.9920
Commercial		LPG	20301006	0.9920
Commercial		LPG	20301007	0.9920
Commercial		Total Delivered Energy	20380001	0.9970
Commercial		Total Delivered Energy	20382001	0.9970
Commercial		Total Delivered Energy	20382002	0.9970
Commercial		Total Delivered Energy	20382599	0.9970
Industrial	Bulk Chemicals	Heat and Power-Distillate	30190001	0.8520
Industrial	Bulk Chemicals	Heat and Power-Residual	30190002	0.9630
Industrial	Bulk Chemicals	Heat and Power-Natural Gas	30190003	0.8870
Industrial	Bulk Chemicals	Heat and Power-Total	30190004	0.9140
Industrial	Bulk Chemicals	Heat and Power-Distillate	30190011	0.8520
Industrial	Bulk Chemicals	Heat and Power-Residual	30190012	0.9630
Industrial	Bulk Chemicals	Heat and Power-Natural Gas	30190013	0.8870
Industrial	Bulk Chemicals	Heat and Power-Total	30190014	0.9140
Industrial	Bulk Chemicals	Heat and Power-Distillate	30190021	0.8520
Industrial	Bulk Chemicals	Heat and Power-Residual	30190022	0.9630
Industrial	Bulk Chemicals	Heat and Power-Natural Gas	30190023	0.8870
Industrial	Bulk Chemicals	Heat and Power-Total	30190099	0.9140
Industrial	Food	Distillate	30290001	0.9320
Industrial	Food	Residual	30290002	0.9860
Industrial	Food	Natural Gas	30290003	0.8830
Industrial	Iron and Steel	Other Petroleum	30390001	0.9320
Industrial	Iron and Steel	Residual	30390002	0.8300
Industrial	Iron and Steel	Natural Gas	30390003	0.8840
Industrial	Iron and Steel	Total	30390004	0.8870

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Iron and Steel	Other Petroleum	30390011	0.9320
Industrial	Iron and Steel	Residual	30390012	0.8300
Industrial	Iron and Steel	Natural Gas	30390013	0.8840
Industrial	Iron and Steel	Total	30390014	0.8870
Industrial	Iron and Steel	Other Petroleum	30390021	0.9320
Industrial	Iron and Steel	Residual	30390022	0.8300
Industrial	Iron and Steel	Natural Gas	30390023	0.8840
Industrial	Iron and Steel	Total	30390024	0.8870
Industrial	Other Manufacturing	Distillate	30400406	1.0140
Industrial	Other Manufacturing	Natural Gas	30400407	0.9450
Industrial	Other Manufacturing	Distillate	30490001	1.0140
Industrial	Other Manufacturing	Residual	30490002	1.0310
Industrial	Other Manufacturing	Natural Gas	30490003	0.9450
Industrial	Other Manufacturing	Total	30490004	0.9650
Industrial	Other Manufacturing	Distillate	30490011	1.0140
Industrial	Other Manufacturing	Residual	30490012	1.0310
Industrial	Other Manufacturing	Natural Gas	30490013	0.9450
Industrial	Other Manufacturing	Total	30490014	0.9650
Industrial	Other Manufacturing	Distillate	30490021	1.0140
Industrial	Other Manufacturing	Residual	30490022	1.0310
Industrial	Other Manufacturing	Natural Gas	30490023	0.9450
Industrial	Other Manufacturing	Total	30490024	0.9650
Industrial	Other Manufacturing	Distillate	30490031	1.0140
Industrial	Other Manufacturing	Residual	30490032	1.0310
Industrial	Other Manufacturing	Natural Gas	30490033	0.9450
Industrial	Other Manufacturing	Total	30490034	0.9650
Industrial	Other Manufacturing	LPG	30490035	0.9030
Industrial	Refining	Natural Gas	30500206	1.2980
Industrial	Refining	Residual	30500207	1.0540

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Refining	Distillate	30500208	0.0000
Industrial	Refining	LPG	30500209	0.3150
Industrial	Refining	Other Petroleum	30500210	0.0000
Industrial	Refining	Natural Gas	30505020	1.2980
Industrial	Refining	Residual	30505021	1.0540
Industrial	Refining	Distillate	30505022	0.0000
Industrial	Refining	LPG	30505023	0.3150
Industrial	Mining	Distillate	30590001	1.0390
Industrial	Mining	Residual	30590002	1.1100
Industrial	Mining	Natural Gas	30590003	0.9350
Industrial	Mining	Other Petroleum	30590005	1.0730
Industrial	Mining	Distillate	30590011	1.0390
Industrial	Mining	Residual	30590012	1.1100
Industrial	Mining	Natural Gas	30590013	0.9350
Industrial	Mining	Total	30590022	1.0680
Industrial	Mining	Natural Gas	30590023	0.9350
Industrial	Refining	Total Petroleum	30600101	1.0600
Industrial	Refining	Natural Gas	30600102	1.2980
Industrial	Refining	Total Petroleum	30600103	1.0600
Industrial	Refining	Natural Gas	30600104	1.2980
Industrial	Refining	Natural Gas	30600105	1.2980
Industrial	Refining	Still Gas	30600106	1.1740
Industrial	Refining	LPG	30600107	0.3150
Industrial	Refining	Total	30600108	1.1400
Industrial	Refining	Residual	30600111	1.0540
Industrial	Refining	Total	30600199	1.1400
Industrial	Refining	Total	30600901	1.1400
Industrial	Refining	Total	30600902	1.1400
Industrial	Refining	Natural Gas	30600903	1.2980

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Refining	Still Gas	30600904	1.1740
Industrial	Refining	LPG	30600905	0.3150
Industrial	Refining	Total	30600999	1.1400
Industrial	Refining	Distillate	30609901	0.0000
Industrial	Refining	Residual	30609902	1.0540
Industrial	Refining	Natural Gas	30609903	1.2980
Industrial	Refining	Total	30609904	1.1400
Industrial	Refining	LPG	30609905	0.3150
Industrial	Paper	Distillate	30790001	0.8720
Industrial	Paper	Residual	30790002	0.8680
Industrial	Paper	Natural Gas	30790003	0.8130
Industrial	Paper	Distillate	30790011	0.8720
Industrial	Paper	Residual	30790012	0.8680
Industrial	Paper	Natural Gas	30790013	0.8130
Industrial	Paper	Total	30790014	0.9430
Industrial	Paper	Distillate	30790021	0.8720
Industrial	Paper	Residual	30790022	0.8680
Industrial	Paper	Natural Gas	30790023	0.8130
Industrial	Paper	Total	30790024	0.9430
Industrial	Other Manufacturing	Distillate	30890001	1.0140
Industrial	Other Manufacturing	Residual	30890002	1.0310
Industrial	Other Manufacturing	Natural Gas	30890003	0.9450
Industrial	Other Manufacturing	LPG	30890004	0.9030
Industrial	Other Manufacturing	Distillate	30890011	1.0140
Industrial	Other Manufacturing	Residual	30890012	1.0310
Industrial	Other Manufacturing	Natural Gas	30890013	0.9450
Industrial	Other Manufacturing	Natural Gas	30890023	0.9450
Industrial	Metals-Based Durables	Distillate	30990001	0.9110
Industrial	Metals-Based Durables	Residual	30990002	1.0160

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Metals-Based Durables	Natural Gas	30990003	0.8980
Industrial	Metals-Based Durables	Distillate	30990011	0.9110
Industrial	Metals-Based Durables	Residual	30990012	1.0160
Industrial	Metals-Based Durables	Natural Gas	30990013	0.8980
Industrial	Metals-Based Durables	Natural Gas	30990023	0.8980
Industrial	Mining	Distillate	31000401	1.0390
Industrial	Mining	Residual	31000402	1.1100
Industrial	Mining	Other Petroleum	31000403	1.0730
Industrial	Mining	Natural Gas	31000404	0.9350
Industrial	Mining	Total	31000405	1.0680
Industrial	Mining	Other Petroleum	31000406	1.0730
Industrial	Mining	Distillate	31000411	1.0390
Industrial	Mining	Residual	31000412	1.1100
Industrial	Mining	Other Petroleum	31000413	1.0730
Industrial	Mining	Natural Gas	31000414	0.9350
Industrial	Mining	Total	31000415	1.0680
Industrial	Metals-Based Durables	Distillate	31390001	0.9110
Industrial	Metals-Based Durables	Residual	31390002	1.0160
Industrial	Metals-Based Durables	Natural Gas	31390003	0.8980
Industrial	Total Industrial	Total Coal	39000189	0.8580
Industrial	Total Industrial	Total Coal	39000199	0.8580
Industrial	Cement	Steam Coal	39000201	0.8640
Industrial	Other Manufacturing	Steam Coal	39000203	1.0000
Industrial	Total Industrial	Total Coal	39000288	0.8580
Industrial	Total Industrial	Total Coal	39000289	0.8580
Industrial	Total Industrial	Total Coal	39000299	0.8580
Industrial	Total Industrial	Total Coal	39000389	0.8580
Industrial	Total Industrial	Total Coal	39000399	0.8580
Industrial	Cement	Residual	39000402	0.7250

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Other Manufacturing	Residual	39000403	1.0310
Industrial	Total Industrial	Residual	39000489	0.9650
Industrial	Total Industrial	Residual	39000499	0.9650
Industrial	Refining	Distillate	39000501	0.0000
Industrial	Cement	Distillate	39000502	0.6810
Industrial	Other Manufacturing	Distillate	39000503	1.0140
Industrial	Total Industrial	Distillate	39000589	0.9680
Industrial	Total Industrial	Distillate	39000598	0.9680
Industrial	Total Industrial	Distillate	39000599	0.9680
Industrial	Cement	Natural Gas	39000602	0.7360
Industrial	Other Manufacturing	Natural Gas	39000603	0.9450
Industrial	Iron and Steel	Natural Gas	39000605	0.8840
Industrial	Total Industrial	Natural Gas	39000689	0.9130
Industrial	Total Industrial	Natural Gas	39000699	0.9130
Industrial	Iron and Steel	Blast Furnace and Coke Oven Gas	39000701	0.8790
Industrial	Iron and Steel	Blast Furnace and Coke Oven Gas	39000702	0.8790
Industrial	Total Industrial	Total Delivered Energy	39000788	0.9230
Industrial	Iron and Steel	Blast Furnace and Coke Oven Gas	39000789	0.8790
Industrial	Total Industrial	Total Delivered Energy	39000797	0.9230
Industrial	Total Industrial	Total Delivered Energy	39000798	0.9230
Industrial	Total Industrial	Total Delivered Energy	39000799	0.9230
Industrial	Total Industrial	Metallurgical Coal	39000801	0.7160
Industrial	Total Industrial	Renewables	39000889	0.9570
Industrial	Total Industrial	Metallurgical Coal	39000899	0.7160
Industrial	Total Industrial	LPG	39000989	0.9300
Industrial	Total Industrial	Renewables	39000999	0.9570
Industrial	Total Industrial	LPG	39001089	0.9300
Industrial	Total Industrial	LPG	39001099	0.9300
Industrial	Total Industrial	Renewables	39001289	0.9570

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Total Industrial	Renewables	39001299	0.9570
Industrial	Total Industrial	Total Petroleum	39001385	0.9380
Industrial	Total Industrial	Renewables	39001389	0.9570
Industrial	Total Industrial	Renewables	39001399	0.9570
Industrial	Total Industrial	Residual	39090001	0.9650
Industrial	Total Industrial	Residual	39090002	0.9650
Industrial	Total Industrial	Distillate	39090003	0.9680
Industrial	Total Industrial	Distillate	39090004	0.9680
Industrial	Total Industrial	Residual	39090005	0.9650
Industrial	Total Industrial	Residual	39090006	0.9650
Industrial	Total Industrial	Motor Gasoline	39090007	1.0030
Industrial	Total Industrial	Motor Gasoline	39090008	1.0030
Industrial	Total Industrial	Residual	39090009	0.9650
Industrial	Total Industrial	Residual	39090010	0.9650
Industrial	Total Industrial	Total Petroleum	39090011	0.9380
Industrial	Total Industrial	Total Petroleum	39090012	0.9380
Industrial	Total Industrial	Residual	39091001	0.9650
Industrial	Total Industrial	Residual	39091002	0.9650
Industrial	Total Industrial	Distillate	39091003	0.9680
Industrial	Total Industrial	Distillate	39091004	0.9680
Industrial	Total Industrial	Residual	39091005	0.9650
Industrial	Total Industrial	Residual	39091006	0.9650
Industrial	Total Industrial	Motor Gasoline	39091007	1.0030
Industrial	Total Industrial	Motor Gasoline	39091008	1.0030
Industrial	Total Industrial	Residual	39091009	0.9650
Industrial	Total Industrial	Residual	39091010	0.9650
Industrial	Total Industrial	Total Petroleum	39091011	0.9380
Industrial	Total Industrial	Total Petroleum	39091012	0.9380
Industrial	Total Industrial	Natural Gas	39092050	0.9130

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Total Industrial	LPG	39092051	0.9300
Industrial	Total Industrial	Renewables	39092052	0.9570
Industrial	Refining	Still Gas	39092053	1.1740
Industrial	Total Industrial	Renewables	39092054	0.9570
Industrial	Total Industrial	Total Delivered Energy	39092055	0.9230
Industrial	Total Industrial	Total Petroleum	39092056	0.9380
Industrial	Other Manufacturing	Distillate	39900501	1.0140
Industrial	Other Manufacturing	Natural Gas	39900601	0.9450
Industrial	Other Manufacturing	Total	39900701	0.9650
Industrial	Refining	Still Gas	39900711	1.1740
Industrial	Other Manufacturing	Renewables	39900721	1.0140
Industrial	Other Manufacturing	Renewables	39900801	1.0140
Industrial	Other Manufacturing	LPG	39901001	0.9030
Industrial	Other Manufacturing	Total Petroleum	39901601	0.9590
Industrial	Other Manufacturing	Total Petroleum	39901701	0.9590
Industrial	Other Manufacturing	Distillate	39990001	1.0140
Industrial	Other Manufacturing	Residual	39990002	1.0310
Industrial	Other Manufacturing	Natural Gas	39990003	0.9450
Industrial	Other Manufacturing	Total	39990004	0.9650
Industrial	Other Manufacturing	Distillate	39990011	1.0140
Industrial	Other Manufacturing	Residual	39990012	1.0310
Industrial	Other Manufacturing	Natural Gas	39990013	0.9450
Industrial	Other Manufacturing	Total	39990014	0.9650
Industrial	Other Manufacturing	Distillate	39990021	1.0140
Industrial	Other Manufacturing	Residual	39990022	1.0310
Industrial	Other Manufacturing	Natural Gas	39990023	0.9450
Industrial	Other Manufacturing	Total	39990024	0.9650
Industrial	Total Industrial	Natural Gas	40201001	0.9130
Industrial	Total Industrial	Distillate	40201002	0.9680

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Industrial	Total Industrial	Residual	40201003	0.9650
Industrial	Total Industrial	LPG	40201004	0.9300
Industrial	Total Industrial	Distillate	40290011	0.9680
Industrial	Total Industrial	Residual	40290012	0.9650
Industrial	Total Industrial	Natural Gas	40290013	0.9130
Industrial	Total Industrial	Natural Gas	40290023	0.9130
Industrial	Total Industrial	Distillate	49090011	0.9680
Industrial	Total Industrial	Residual	49090012	0.9650
Industrial	Total Industrial	Natural Gas	49090013	0.9130
Industrial	Total Industrial	Total Petroleum	49090015	0.9380
Industrial	Total Industrial	Distillate	49090021	0.9680
Industrial	Total Industrial	Residual	49090022	0.9650
Industrial	Total Industrial	Natural Gas	49090023	0.9130
Commercial		Renewables	50100103	1.0390
Commercial		Renewables	50100108	1.0390
Commercial		Renewables	50100420	1.0390
Commercial		Renewables	50100421	1.0390
Commercial		Renewables	50100422	1.0390
Commercial		Renewables	50100430	1.0390
Commercial		Renewables	50100431	1.0390
Commercial		Renewables	50100432	1.0390
Commercial		Renewables	50100433	1.0390
Commercial		Coal	50190002	0.9940
Commercial		Distillate	50190005	0.8550
Commercial		Natural Gas	50190006	0.9740
Commercial		LPG	50190010	0.9920
Commercial		Total Delivered Energy	50290002	0.9970
Commercial		Total Delivered Energy	50290005	0.9970
Commercial		Total Delivered Energy	50290006	0.9970

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Sector	Industry Sector	Fuel	SCC	Adjustment Factor
Commercial		Total Delivered Energy	50290010	0.9970
Industrial	Total Industrial	Total Coal	50390002	0.8580
Industrial	Total Industrial	Distillate	50390005	0.9680
Industrial	Total Industrial	Natural Gas	50390006	0.9130
Industrial	Total Industrial	Total Delivered Energy	50390007	0.9230
Industrial	Total Industrial	LPG	50390010	0.9300

Source: Provided by E. H. Pechan & Associates, Inc, February 2002.

The information were used to develop the base year and future year inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

Table B-21
Point Source CAA Baseline VOC Control Assumptions

Source Category	Control Efficiency (%)
National Rules	
Marine vessel loading: petroleum liquids	80
Treatment, storage, and disposal facilities (TSDFs)	96
Municipal solid waste landfills	82

Source: Provided by E. H. Pechan & Associates, Inc, February 2002.

The information were used to develop the base year and future year inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

**Table B-22
Point Source MACT Control Assumptions**

Source Category	VOC Control Efficiency (%)*
Benzene National Emission Standards for Hazardous Air Pollutants (NESHAP) (national)	
By-product coke mfg	85
By-product coke - flushing-liquor circulation tank	95
By-product coke – excess-NH ₃ liquor tank	98
By-product coke mfg. - tar storage	98
By-product coke mfg. - light oil sump	98
By-product coke mfg. - light oil dec/cond vents	98
By-product coke mfg. - tar bottom final cooler	81
By-product coke mfg. - naphthalene processing	100
By-product coke mfg. - equipment leaks	83
By-product coke manufacture – other	94
By-product coke manufacture - oven charging	94
Coke ovens - door and topside leaks	94
Coke oven by-product plants	94
2-Year MACT (national)	
Synthetic Organic Chemical Manufacturing Industry (SOCMI) Hazardous Organic NESHAP (HON)	
SOCMI processes	79
Volatile organic liquid storage	95
SOCMI fugitives (equipment leak detection and repair)	60
SOCMI wastewater	0
Ethylene oxide manufacture	98
Phenol manufacture	98
Acrylonitrile manufacture	98
Polypropylene manufacture	98
Polyethylene manufacture	98
Ethylene manufacture	98

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Source Category	VOC Control Efficiency (%)*
Dry Cleaning	
Perchloroethylene	95
Other	70
4-Year MACT (national)	
TSDFs (offsite waste operations)	96
Shipbuilding and repair	24
Polymers and resins II	78
Polymers and resins IV	70
Styrene-butadiene rubber manufacture (polymers & resins group I)	70
Wood furniture surface coating	30
Aircraft surface coating (aerospace)	60
Petroleum Refineries: other sources	
Fixed roof petroleum product tanks	98
Fixed roof gasoline tanks	96
External floating roof petroleum product tanks	90
External floating roof gasoline tanks	95
Petroleum refinery wastewater treatment	72
Petroleum refinery fugitives	72
Petroleum refineries - Blowdown w/o control	78
Vacuum distillation	72
Halogenated Solvent Cleaners	
Open top degreasing – halogenated	63
In-line (conveyorized) degreasing – halogenated	39
Printing	
Flexographic	32
Gravure	27

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Source Category	VOC Control Efficiency (%)*
Gasoline Marketing	
Storage	5
Splash loading	99
Balanced loading	87
Submerged loading	99
Transit	5
Leaks	39
7/10-Year MACT (national)	
Paint and varnish manufacture	35
Rubber tire manufacture	70
Green tire spray	90
Automobile surface coating	79
Beverage can surface coating	57
Paper surface coating	78
Flatwood surface coating	90
Fabric printing	80
Metal surface coating	90
Plastic parts surface coating	45
Pulp and paper production	70
Agricultural chemical production	79
Pharmaceutical production	79
Polyesters	70
Fabric coating	70
Petroleum refineries - fluid catalytic cracking	70
Oil and natural gas production	90
Explosives	70
Plywood/particle board	70
Reinforced plastics	70

Appendix B: Tables for Future-Year Emissions Inventory Preparation

Source Category	VOC Control Efficiency (%)*
Publicly-Owned Treatment Works (POTWs)	70
Phthalate plasticizers	70
Polymers and resins III	78
Rayon production	70
Polyvinyl chloride	70
Spandex production	70
Nylon 6 production	70
Alkyd resins	70
Polyester resins	70
Chelating agents	70

NOTE: *From uncontrolled levels.

Source: EPA "Procedures for Developing Base Year and Future Year Mass and Modeling Inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

**Table B-23
Non-VOC Related MACT Assumptions**

Source Category	Pollutant	Percentage Reduction (%)*
Medical Waste Incineration	NOx	20

NOTE: *From uncontrolled levels.

Source: Provided by E. H. Pechan & Associates, Inc, February 2002.

The information were used to develop the base year and future year inventories for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel (HDD) Rulemaking

Table B-24
NO_x Reduction Levels from Uncontrolled Emissions for Non-EGU Sources

Source Category	Budget Reduction Percentage
ICI Boilers – Coal/Wall	60
ICI Boilers – Coal/FBC	60
ICI Boilers – Coal/Stoker	60
ICI Boilers – Coal/Cyclone	60
ICI Boilers – Residual Oil	60
ICI Boilers – Distillate Oil	60
ICI Boilers – Natural Gas	60
ICI Boilers – Process Gas	60
ICI Boilers – LPG	60
ICI Boilers – Coke	60
Gas Turbines – Oil	60
Gas Turbines – Natural Gas	60
Gas Turbines – Jet Fuel	60
Internal Combustion Engines – Oil	90
Internal Combustion Engines – Gas	90
Internal Combustion Engines – Gas, Diesel, LPG	90
Cement Manufacturing – Dry	30
Cement Manufacturing – Wet	30
In-Process; Bituminous Coal; Cement Kiln	30

* Industrial/Commercial/Institutional Boilers

Source: EPA "Development of Emission Budget Inventories for Regional Transport NO_x SIP Call Technical Amendment Version"

Table B-25
Summary of 2007 Baseline Emissions for August/September 1999 Episode (tons/day) in Grid 1

NOX	070829	070830	070831	070901	070902	070903	070904	070905	070906	070907	070908	070909
Area	1931	2118	2118	2118	2118	2118	1993	1931	1931	2118	2118	2118
Motor vehicle	5944	7147	7288	7218	7359	7854	6793	5944	5944	7288	7218	7359
Non-road	4880	6004	6004	6004	6004	6004	4880	4880	4880	6004	6004	6004
Low-level point	1697	1826	1826	1826	1826	1826	1740	1697	1697	1826	1826	1826
Biogenic	3411	3014	3040	3319	3475	3421	3406	3248	3239	3177	3016	2809
All low-level	17863	20110	20277	20485	20783	21225	18813	17700	17691	20414	20183	20117
Elevated point	7844	8407	8455	8435	8463	8441	8118	7844	7919	8476	8457	8463
Total Anthropogenic	22296	25503	25692	25602	25771	26244	23524	22296	22371	25713	25623	25771
TOTAL	25707	28517	28731	28920	29246	29665	26930	25544	25609	28890	28640	28580

VOC	070829	070830	070831	070901	070902	070903	070904	070905	070906	070907	070908	070909
Area	11331	11335	11335	11335	11335	11335	11332	11331	11331	11335	11335	11335
Motor vehicle	3956	4756	4850	4803	4897	5227	4521	3956	3956	4850	4803	4897
Non-road	3259	2089	2089	2089	2089	2089	3259	3259	3259	2089	2089	2089
Low-level point	1460	2107	2107	2107	2107	2107	1586	1460	1460	2107	2107	2107
Biogenic	136177	93572	88106	97692	99489	96235	91448	84182	96556	92786	85907	72467
All low-level	156183	113859	108487	118026	119918	116993	112146	104187	116561	113168	106241	92895
Elevated point	459	521	522	522	522	521	482	459	461	522	522	522
Total Anthropogenic	20465	20808	20904	20857	20950	21280	21180	20465	20467	20904	20857	20950
TOTAL	156642	114380	109009	118548	120440	117514	112628	104647	117023	113690	106763	93417

CO	070829	070830	070831	070901	070902	070903	070904	070905	070906	070907	070908	070909
Area	10351	10404	10404	10404	10404	10404	10369	10351	10351	10404	10404	10404
Motor vehicle	37153	44672	45556	45114	45999	49095	42460	37153	37153	45556	45114	45999
Non-road	34248	32828	32828	32828	32828	32828	34248	34248	34248	32828	32828	32828
Low-level point	3368	3674	3674	3674	3674	3674	3472	3368	3368	3674	3674	3674
All low-level	85120	91578	92462	92020	92904	96000	90549	85120	85120	92462	92020	92904
Elevated point	4671	5013	5020	5019	5015	5013	4893	4671	4685	5020	5019	5015
Total Anthropogenic	89790	96590	97482	97038	97919	101013	95441	89790	89805	97482	97038	97919
TOTAL	89790	96590	97482	97038	97919	101013	95441	89790	89805	97482	97038	97919

Table B-26
Summary of 2007 Baseline Emissions for August/September 1999 Episode (tons/day) in Grid 2

NOX	070829	070830	070831	070901	070902	070903	070904	070905	070906	070907	070908	070909
Area	903	997	997	997	997	997	934	903	903	997	997	997
Motor vehicle	2543	3058	3119	3088	3149	3361	2907	2543	2543	3119	3088	3149
Non-road	1924	2344	2344	2344	2344	2344	1924	1924	1924	2344	2344	2344
Low-level point	619	667	667	667	667	667	634	619	619	667	667	667
Biogenic	1074	928	880	959	969	960	993	990	1002	952	900	858
All low-level	7062	7994	8006	8056	8126	8329	7392	6978	6990	8078	7996	8014
Elevated point	3220	3300	3346	3330	3339	3337	3237	3220	3266	3368	3351	3339
Total Anthropogenic	9208	10366	10472	10426	10495	10706	9636	9208	9254	10494	10447	10495
TOTAL	10282	11294	11352	11385	11464	11666	10629	10198	10256	11446	11348	11353

VOC	070829	070830	070831	070901	070902	070903	070904	070905	070906	070907	070908	070909
Area	4815	4817	4817	4817	4817	4817	4816	4815	4815	4817	4817	4817
Motor vehicle	1691	2033	2073	2053	2093	2234	1932	1691	1691	2073	2053	2093
Non-road	1234	781	781	781	781	781	1234	1234	1234	781	781	781
Low-level point	642	992	992	992	992	992	710	642	642	992	992	992
Biogenic	84768	58404	52616	57869	57446	57926	63006	52505	61920	57271	52025	41736
All low-level	93149	67027	61279	66512	66130	66750	71698	60886	70301	65934	60669	50419
Elevated point	186	219	220	220	219	219	196	186	187	220	220	219
Total Anthropogenic	8568	8842	8883	8863	8903	9043	8888	8568	8569	8883	8863	8903
TOTAL	93335	67246	61499	66732	66349	66969	71894	61072	70488	66154	60888	50639

CO	070829	070830	070831	070901	070902	070903	070904	070905	070906	070907	070908	070909
Area	5093	5116	5116	5116	5116	5116	5100	5093	5093	5116	5116	5116
Motor vehicle	16463	19795	20187	19991	20383	21755	18815	16463	16463	20187	19991	20383
Non-road	12279	11933	11933	11933	11933	11933	12279	12279	12279	11933	11933	11933
Low-level point	1135	1195	1195	1195	1195	1195	1156	1135	1135	1195	1195	1195
All low-level	34970	38039	38431	38235	38627	39999	37350	34970	34970	38431	38235	38627
Elevated point	1779	1869	1877	1874	1871	1868	1794	1779	1787	1877	1874	1871
Total Anthropogenic	36749	39908	40308	40109	40498	41867	39144	36749	36757	40308	40109	40498
TOTAL	36749	39908	40308	40109	40498	41867	39144	36749	36757	40308	40109	40498

Table B-27
Summary of 2007 Baseline Emissions for August/September 1999 Episode (tons/day) in Grid 3

NOX	070829	070830	070831	070901	070902	070903	070904	070905	070906	070907	070908	070909
Area	262	288	288	288	288	288	271	262	262	288	288	288
Motor vehicle	1231	1480	1510	1495	1524	1627	1407	1231	1231	1510	1495	1524
Non-road	735	924	924	924	924	924	735	735	735	924	924	924
Low-level point	122	135	135	135	135	135	126	122	122	135	135	135
Biogenic	378	336	314	353	377	375	362	363	358	346	327	306
All low-level	2728	3163	3171	3195	3249	3349	2902	2713	2708	3203	3169	3177
Elevated point	1065	1098	1118	1115	1135	1129	1065	1065	1083	1139	1136	1135
Total Anthropogenic	3416	3926	3975	3957	4006	4103	3604	3416	3434	3996	3978	4006
TOTAL	3793	4262	4289	4310	4383	4478	3967	3778	3791	4342	4305	4312

VOC	070829	070830	070831	070901	070902	070903	070904	070905	070906	070907	070908	070909
Area	2032	2033	2033	2033	2033	2033	2033	2032	2032	2033	2033	2033
Motor vehicle	797	958	977	967	986	1053	910	797	797	977	967	986
Non-road	576	360	360	360	360	360	576	576	576	360	360	360
Low-level point	253	383	383	383	383	383	285	253	253	383	383	383
Biogenic	33636	25595	21501	26083	28484	28505	29671	24904	25682	25391	24251	16207
All low-level	37293	29329	25254	29826	32246	32334	33475	28562	29340	29144	27994	19969
Elevated point	92	106	106	106	106	106	94	92	93	106	106	106
Total Anthropogenic	3750	3839	3859	3849	3868	3934	3898	3750	3750	3859	3849	3868
TOTAL	37385	29435	25360	29932	32351	32439	33569	28654	29433	29250	28100	20074

CO	070829	070830	070831	070901	070902	070903	070904	070905	070906	070907	070908	070909
Area	1752	1759	1759	1759	1759	1759	1754	1752	1752	1759	1759	1759
Motor vehicle	7921	9524	9712	9618	9806	10466	9052	7921	7921	9712	9618	9806
Non-road	5688	5580	5580	5580	5580	5580	5688	5688	5688	5580	5580	5580
Low-level point	207	227	227	227	227	227	216	207	207	227	227	227
All low-level	15567	17090	17278	17184	17373	18033	16710	15567	15567	17278	17184	17373
Elevated point	878	941	944	943	941	942	884	878	881	944	943	941
Total Anthropogenic	16445	18031	18222	18127	18314	18975	17594	16445	16448	18222	18127	18314
TOTAL	16445	18031	18222	18127	18314	18975	17594	16445	16448	18222	18127	18314

Table B-28
Summary of 2007 Baseline Emissions for June 2001 Episode (tons/day) in Grid 1

NOX	070616	070617	070618	070619	070620	070621	070622
Area	1993	1931	2118	2118	2118	2118	2118
Motor vehicle	6794	5945	7148	7290	7219	7361	7856
Non-road	5728	5728	7179	7179	7179	7179	7179
Low-level point	1761	1717	1847	1847	1847	1847	1847
Biogenic	3468	3466	3640	3313	2979	2964	2958
All low-level	19745	18786	21933	21747	21342	21469	21958
Elevated point	8726	8423	9033	9068	9087	9098	9058
Total Anthropogenic	25002	23744	27326	27502	27450	27603	28058
TOTAL	28471	27209	30966	30815	30429	30566	31016

VOC	070616	070617	070618	070619	070620	070621	070622
Area	11332	11331	11335	11335	11335	11335	11335
Motor vehicle	4540	3973	4777	4871	4824	4918	5249
Non-road	5758	5758	3012	3012	3012	3012	3012
Low-level point	1584	1458	2102	2102	2102	2102	2102
Biogenic	132346	140983	155781	121735	96098	83973	78561
All low-level	155561	163502	177007	143055	117371	105341	100259
Elevated point	488	464	526	527	528	529	527
Total Anthropogenic	23703	22984	21752	21847	21800	21896	22225
TOTAL	156049	163967	177533	143582	117898	105870	100786

CO	070616	070617	070618	070619	070620	070621	070622
Area	10369	10351	10404	10404	10404	10404	10404
Motor vehicle	42488	37177	44701	45586	45143	46029	49127
Non-road	53313	53313	45385	45385	45385	45385	45385
Low-level point	3495	3391	3718	3718	3718	3718	3718
All low-level	109664	104232	104207	105092	104650	105535	108633
Elevated point	4957	4727	5080	5098	5086	5134	5096
Total Anthropogenic	114621	108960	109287	110190	109736	110669	113729
TOTAL	114621	108960	109287	110190	109736	110669	113729

Table B-29
Summary of 2007 Baseline Emissions for June 2001 Episode (tons/day) in Grid 2

NOX	070616	070617	070618	070619	070620	070621	070622
Area	934	903	997	997	997	997	997
Motor vehicle	2907	2544	3059	3119	3089	3149	3361
Non-road	2155	2155	2647	2647	2647	2647	2647
Low-level point	629	614	664	664	664	664	664
Biogenic	1009	1075	1116	1063	980	912	869
All low-level	7635	7291	8483	8491	8377	8370	8539
Elevated point	3432	3416	3483	3522	3543	3547	3522
Total Anthropogenic	10058	9632	10850	10950	10940	11005	11192
TOTAL	11067	10708	11966	12013	11920	11917	12061

VOC	070616	070617	070618	070619	070620	070621	070622
Area	4816	4815	4817	4817	4817	4817	4817
Motor vehicle	1947	1704	2048	2089	2069	2109	2251
Non-road	2077	2077	1072	1072	1072	1072	1072
Low-level point	712	643	992	992	992	992	992
Biogenic	82542	93498	100850	76477	61065	50946	43749
All low-level	92094	102737	109780	85447	70015	59937	52882
Elevated point	199	189	220	220	221	222	221
Total Anthropogenic	9751	9428	9150	9191	9171	9213	9353
TOTAL	92293	102926	110000	85668	70236	60159	53103

CO	070616	070617	070618	070619	070620	070621	070622
Area	5100	5093	5116	5116	5116	5116	5116
Motor vehicle	18830	16476	19810	20203	20006	20399	21772
Non-road	17671	17671	14984	14984	14984	14984	14984
Low-level point	1158	1138	1202	1202	1202	1202	1202
All low-level	42759	40377	41112	41504	41308	41701	43074
Elevated point	1820	1798	1891	1910	1897	1941	1910
Total Anthropogenic	44579	42175	43003	43414	43205	43641	44984
TOTAL	44579	42175	43003	43414	43205	43641	44984

Table B-30
Summary of 2007 Baseline Emissions for June 2001 Episode (tons/day) in Grid 3

NOX	070616	070617	070618	070619	070620	070621	070622
Area	271	262	288	288	288	288	288
Motor vehicle	1406	1230	1479	1509	1494	1523	1626
Non-road	810	810	1015	1015	1015	1015	1015
Low-level point	124	120	135	135	135	135	135
Biogenic	350	389	400	391	374	336	307
All low-level	2961	2812	3318	3338	3306	3298	3372
Elevated point	1094	1087	1136	1153	1166	1164	1147
Total Anthropogenic	3706	3510	4054	4100	4099	4126	4211
TOTAL	4056	3898	4454	4490	4472	4462	4518

VOC	070616	070617	070618	070619	070620	070621	070622
Area	2033	2032	2033	2033	2033	2033	2033
Motor vehicle	919	804	967	986	977	996	1063
Non-road	900	900	468	468	468	468	468
Low-level point	289	257	387	387	387	387	387
Biogenic	32242	38969	39530	33605	31571	24887	16452
All low-level	36383	42963	43385	37479	35435	28771	20403
Elevated point	95	93	104	105	105	105	105
Total Anthropogenic	4236	4087	3960	3979	3969	3989	4056
TOTAL	36478	43056	43489	37584	35540	28876	20508

CO	070616	070617	070618	070619	070620	070621	070622
Area	1754	1752	1759	1759	1759	1759	1759
Motor vehicle	9056	7924	9528	9716	9622	9811	10471
Non-road	7453	7453	6470	6470	6470	6470	6470
Low-level point	212	203	225	225	225	225	225
All low-level	18476	17332	17981	18170	18076	18264	18925
Elevated point	889	880	939	941	941	945	941
Total Anthropogenic	19364	18212	18920	19111	19016	19210	19866
TOTAL	19364	18212	18920	19111	19016	19210	19866

Table B-31
Summary of 2007 Baseline Emissions for July 2002 Episode (tons/day) in Grid 1

NOX	070704	070705	070706	070707	070708	070709	070710
Area	1931	2118	1993	1931	2118	2118	2118
Motor vehicle	5913	7813	6757	5913	7109	7250	7180
Non-road	5644	7055	5644	5644	7055	7055	7055
Low-level point	1717	1847	1761	1717	1847	1847	1847
Biogenic	4236	3944	3766	3962	4238	4206	3747
All low-level	19440	22777	19922	19166	22368	22477	21947
Elevated point	8423	9058	8747	8445	9033	9046	9065
Total Anthropogenic	23627	27892	24903	23649	27163	27317	27265
TOTAL	27863	31836	28669	27611	31401	31523	31012

VOC	070704	070705	070706	070707	070708	070709	070710
Area	11331	11335	11332	11331	11335	11335	11335
Motor vehicle	3997	5281	4568	3997	4805	4901	4853
Non-road	5627	2960	5627	5627	2960	2960	2960
Low-level point	1458	2102	1584	1458	2102	2102	2102
Biogenic	145738	141756	139354	149280	157141	141002	119165
All low-level	168151	163435	162464	171692	178344	162300	140415
Elevated point	464	527	488	464	526	527	528
Total Anthropogenic	22877	22206	23599	22877	21729	21825	21778
TOTAL	168615	163962	162953	172156	178870	162827	140943

CO	070704	070705	070706	070707	070708	070709	070710
Area	10351	10404	10369	10351	10404	10404	10404
Motor vehicle	37119	49050	42422	37119	44631	45515	45073
Non-road	52108	44374	52108	52108	44374	44374	44374
Low-level point	3391	3718	3495	3391	3718	3718	3718
All low-level	102970	107546	108393	102970	103127	104011	103569
Elevated point	4727	5096	4957	4727	5080	5098	5086
Total Anthropogenic	107697	112643	113351	107697	108207	109109	108655
TOTAL	107697	112643	113351	107697	108207	109109	108655

Table B-32
Summary of 2007 Baseline Emissions for July 2002 Episode (tons/day) in Grid 2

NOX	070704	070705	070706	070707	070708	070709	070710
Area	903	997	934	903	997	997	997
Motor vehicle	2523	3334	2884	2523	3034	3094	3064
Non-road	2126	2604	2126	2126	2604	2604	2604
Low-level point	614	664	629	614	664	664	664
Biogenic	1203	1179	1137	1124	1166	1198	1145
All low-level	7368	8778	7710	7290	8465	8557	8473
Elevated point	3416	3522	3454	3438	3483	3501	3521
Total Anthropogenic	9582	11121	10027	9604	10782	10859	10850
TOTAL	10785	12300	11164	10728	11948	12057	11995

VOC	070704	070705	070706	070707	070708	070709	070710
Area	4815	4817	4816	4815	4817	4817	4817
Motor vehicle	1721	2274	1967	1721	2069	2110	2090
Non-road	2029	1055	2029	2029	1055	1055	1055
Low-level point	643	992	712	643	992	992	992
Biogenic	87514	90505	90960	92573	96242	92838	76053
All low-level	96723	99644	100484	101782	105176	101813	85007
Elevated point	189	221	199	189	220	220	221
Total Anthropogenic	9397	9359	9723	9397	9153	9195	9175
TOTAL	96911	99865	100683	101971	105395	102033	85228

CO	070704	070705	070706	070707	070708	070709	070710
Area	5093	5116	5100	5093	5116	5116	5116
Motor vehicle	16449	21736	18799	16449	19778	20170	19974
Non-road	17273	14659	17273	17273	14659	14659	14659
Low-level point	1138	1202	1158	1138	1202	1202	1202
All low-level	39953	42713	42331	39953	40755	41147	40951
Elevated point	1798	1910	1820	1798	1891	1910	1897
Total Anthropogenic	41751	44624	44151	41751	42646	43057	42848
TOTAL	41751	44624	44151	41751	42646	43057	42848

Table B-33
Summary of 2007 Baseline Emissions for July 2002 Episode (tons/day) in Grid 3

NOX	070704	070705	070706	070707	070708	070709	070710
Area	262	288	271	262	288	288	288
Motor vehicle	1218	1610	1392	1218	1465	1494	1479
Non-road	798	998	798	798	998	998	998
Low-level point	120	135	124	120	135	135	135
Biogenic	426	444	438	410	423	438	438
All low-level	2824	3474	3023	2809	3308	3352	3337
Elevated point	1087	1147	1116	1108	1136	1131	1145
Total Anthropogenic	3486	4177	3701	3507	4021	4045	4045
TOTAL	3911	4620	4139	3917	4444	4483	4482

VOC	070704	070705	070706	070707	070708	070709	070710
Area	2032	2033	2033	2032	2033	2033	2033
Motor vehicle	814	1076	931	814	979	998	989
Non-road	879	460	879	879	460	460	460
Low-level point	257	387	289	257	387	387	387
Biogenic	32335	42509	45719	40079	41123	41730	38171
All low-level	36317	46466	49851	44062	44982	45609	42040
Elevated point	93	105	95	93	104	105	105
Total Anthropogenic	4076	4061	4227	4076	3964	3983	3974
TOTAL	36410	46570	49946	44155	45086	45713	42145

CO	070704	070705	070706	070707	070708	070709	070710
Area	1752	1759	1754	1752	1759	1759	1759
Motor vehicle	7912	10455	9042	7912	9513	9702	9608
Non-road	7288	6331	7288	7288	6331	6331	6331
Low-level point	203	225	212	203	225	225	225
All low-level	17155	18770	18297	17155	17828	18017	17923
Elevated point	880	941	889	880	939	941	941
Total Anthropogenic	18035	19712	19185	18035	18767	18958	18863
TOTAL	18035	19712	19185	18035	18767	18958	18863

Table B-34
Summary of 2012 Baseline Emissions for August/September 1999 Episode (tons/day) in Grid 1

NOX	120829	120830	120831	120901	120902	120903	120904	120905	120906	120907	120908	120909
Area	1942	2131	2131	2131	2131	2131	2005	1942	1942	2131	2131	2131
Motor vehicle	4045	4864	4960	4912	5008	5345	4623	4045	4045	4960	4912	5008
Non-road	4994	6012	6012	6012	6012	6012	4994	4994	4994	6012	6012	6012
Low-level point	1732	1865	1865	1865	1865	1865	1776	1732	1732	1865	1865	1865
Biogenic	3411	3014	3040	3319	3475	3421	3406	3248	3239	3177	3016	2809
All low-level	16124	17886	18007	18238	18491	18774	16803	15960	15951	18145	17936	17825
Elevated point	8120	8685	8666	8683	8725	8698	8368	8120	8142	8688	8705	8725
Total Anthropogenic	20833	23556	23634	23603	23741	24051	21765	20833	20854	23656	23625	23741
TOTAL	24244	26570	26674	26922	27216	27473	25171	24080	24093	26832	26641	26550

VOC	120829	120830	120831	120901	120902	120903	120904	120905	120906	120907	120908	120909
Area	11906	11910	11910	11910	11910	11910	11907	11906	11906	11910	11910	11910
Motor vehicle	3028	3640	3713	3676	3749	4001	3460	3028	3028	3713	3676	3749
Non-road	3021	1988	1988	1988	1988	1988	3021	3021	3021	1988	1988	1988
Low-level point	1522	2212	2212	2212	2212	2212	1657	1522	1522	2212	2212	2212
Biogenic	136177	93572	88106	97692	99489	96235	91448	84182	96556	92786	85907	72467
All low-level	155653	113322	107928	117478	119348	116345	111493	103658	116032	112609	105693	92325
Elevated point	472	535	536	536	537	537	496	472	472	536	536	537
Total Anthropogenic	19948	20285	20358	20322	20395	20647	20540	19948	19948	20358	20322	20395
TOTAL	156125	113857	108464	118014	119885	116882	111988	104130	116504	113145	106229	92862

CO	120829	120830	120831	120901	120902	120903	120904	120905	120906	120907	120908	120909
Area	10423	10475	10475	10475	10475	10475	10440	10423	10423	10475	10475	10475
Motor vehicle	32316	38857	39626	39241	40011	42704	36933	32316	32316	39626	39241	40011
Non-road	36621	35400	35400	35400	35400	35400	36621	36621	36621	35400	35400	35400
Low-level point	3474	3791	3791	3791	3791	3791	3581	3474	3474	3791	3791	3791
All low-level	82834	88522	89291	88907	89676	92369	87575	82834	82834	89291	88907	89676
Elevated point	4815	5154	5165	5164	5170	5167	5046	4815	4815	5165	5164	5170
Total Anthropogenic	87648	93676	94456	94071	94846	97536	92621	87648	87648	94456	94071	94846
TOTAL	87648	93676	94456	94071	94846	97536	92621	87648	87648	94456	94071	94846

Table B-35
Summary of 2012 Baseline Emissions for August/September 1999 Episode (tons/day) in Grid 2

NOX	120829	120830	120831	120901	120902	120903	120904	120905	120906	120907	120908	120909
Area	908	1003	1003	1003	1003	1003	940	908	908	1003	1003	1003
Motor vehicle	1684	2025	2065	2045	2085	2226	1925	1684	1684	2065	2045	2085
Non-road	1985	2365	2365	2365	2365	2365	1985	1985	1985	2365	2365	2365
Low-level point	638	688	688	688	688	688	654	638	638	688	688	688
Biogenic	1074	928	880	959	969	960	993	990	1002	952	900	858
All low-level	6288	7008	7000	7060	7109	7241	6496	6205	6216	7072	7001	6998
Elevated point	3372	3439	3433	3449	3467	3454	3363	3372	3393	3455	3470	3467
Total Anthropogenic	8587	9520	9553	9549	9607	9735	8866	8587	8608	9575	9571	9607
TOTAL	9660	10447	10433	10508	10576	10695	9859	9576	9610	10527	10471	10465

VOC	120829	120830	120831	120901	120902	120903	120904	120905	120906	120907	120908	120909
Area	5088	5090	5090	5090	5090	5090	5088	5088	5088	5090	5090	5090
Motor vehicle	1280	1539	1569	1554	1584	1691	1462	1280	1280	1569	1554	1584
Non-road	1155	749	749	749	749	749	1155	1155	1155	749	749	749
Low-level point	679	1056	1056	1056	1056	1056	753	679	679	1056	1056	1056
Biogenic	84768	58404	52616	57869	57446	57926	63006	52505	61920	57271	52025	41736
All low-level	92969	66838	61080	66318	65926	66512	71465	60706	70121	65735	60475	50216
Elevated point	195	228	229	229	229	229	205	195	195	229	229	229
Total Anthropogenic	8397	8662	8693	8678	8709	8816	8664	8397	8397	8693	8678	8709
TOTAL	93164	67066	61309	66547	66155	66741	71670	60901	70316	65964	60704	50445

CO	120829	120830	120831	120901	120902	120903	120904	120905	120906	120907	120908	120909
Area	5073	5096	5096	5096	5096	5096	5081	5073	5073	5096	5096	5096
Motor vehicle	14274	17163	17503	17333	17673	18863	16314	14274	14274	17503	17333	17673
Non-road	13283	12972	12972	12972	12972	12972	13283	13283	13283	12972	12972	12972
Low-level point	1186	1249	1249	1249	1249	1249	1208	1186	1186	1249	1249	1249
All low-level	33816	36480	36820	36650	36990	38179	35884	33816	33816	36820	36650	36990
Elevated point	1875	1954	1961	1965	1965	1967	1892	1875	1875	1961	1965	1965
Total Anthropogenic	35691	38434	38781	38615	38955	40146	37776	35691	35691	38781	38615	38955
TOTAL	35691	38434	38781	38615	38955	40146	37776	35691	35691	38781	38615	38955

Table B-36
Summary of 2012 Baseline Emissions for August/September 1999 Episode (tons/day) in Grid 3

NOX	120829	120830	120831	120901	120902	120903	120904	120905	120906	120907	120908	120909
Area	265	291	291	291	291	291	273	265	265	291	291	291
Motor vehicle	818	984	1003	994	1013	1081	935	818	818	1003	994	1013
Non-road	762	933	933	933	933	933	762	762	762	933	933	933
Low-level point	127	141	141	141	141	141	131	127	127	141	141	141
Biogenic	378	336	314	353	377	375	362	363	358	346	327	306
All low-level	2349	2685	2683	2711	2755	2821	2464	2334	2329	2714	2686	2684
Elevated point	1078	1117	1116	1122	1137	1128	1074	1078	1100	1138	1143	1137
Total Anthropogenic	3050	3466	3485	3480	3515	3574	3175	3050	3071	3506	3502	3515
TOTAL	3427	3801	3799	3833	3892	3949	3538	3412	3429	3852	3829	3820

VOC	120829	120830	120831	120901	120902	120903	120904	120905	120906	120907	120908	120909
Area	2144	2144	2144	2144	2144	2144	2144	2144	2144	2144	2144	2144
Motor vehicle	612	735	750	743	757	808	699	612	612	750	743	757
Non-road	544	347	347	347	347	347	544	544	544	347	347	347
Low-level point	269	410	410	410	410	410	304	269	269	410	410	410
Biogenic	33636	25595	21501	26083	28484	28505	29671	24904	25682	25391	24251	16207
All low-level	37204	29232	25152	29727	32142	32214	33362	28473	29251	29042	27894	19865
Elevated point	98	112	113	113	113	113	101	98	98	113	113	113
Total Anthropogenic	3667	3748	3763	3756	3771	3822	3792	3667	3667	3763	3756	3771
TOTAL	37302	29344	25265	29840	32255	32327	33463	28571	29349	29155	28007	19978

CO	120829	120830	120831	120901	120902	120903	120904	120905	120906	120907	120908	120909
Area	1676	1683	1683	1683	1683	1683	1678	1676	1676	1683	1683	1683
Motor vehicle	6982	8395	8561	8478	8644	9226	7979	6982	6982	8561	8478	8644
Non-road	6169	6076	6076	6076	6076	6076	6169	6169	6169	6076	6076	6076
Low-level point	217	238	238	238	238	238	226	217	217	238	238	238
All low-level	15044	16392	16558	16475	16641	17223	16053	15044	15044	16558	16475	16641
Elevated point	935	994	1001	1003	1005	1004	947	935	935	1001	1003	1005
Total Anthropogenic	15979	17386	17559	17478	17646	18227	17000	15979	15979	17559	17478	17646
TOTAL	15979	17386	17559	17478	17646	18227	17000	15979	15979	17559	17478	17646

Table B-37
Summary of 2012 Baseline Emissions for June 2001 Episode (tons/day) in Grid 1

NOX	120616	120617	120618	120619	120620	120621	120622
Area	2005	1942	2131	2131	2131	2131	2131
Motor vehicle	4622	4044	4863	4959	4911	5007	5344
Non-road	5808	5808	7055	7055	7055	7055	7055
Low-level point	1800	1755	1889	1889	1889	1889	1889
Biogenic	3468	3466	3640	3313	2979	2964	2958
All low-level	17703	17015	19578	19347	18965	19046	19377
Elevated point	8910	8633	9304	9286	9303	9322	9296
Total Anthropogenic	23145	22182	25242	25319	25288	25404	25715
TOTAL	26614	25648	28882	28632	28268	28368	28673

VOC	120616	120617	120618	120619	120620	120621	120622
Area	11907	11906	11910	11910	11910	11910	11910
Motor vehicle	3472	3038	3653	3725	3689	3761	4014
Non-road	5100	5100	2807	2807	2807	2807	2807
Low-level point	1654	1519	2207	2207	2207	2207	2207
Biogenic	132346	140983	155781	121735	96098	83973	78561
All low-level	154479	162546	176358	142384	116710	104658	99499
Elevated point	501	477	539	540	540	541	541
Total Anthropogenic	22634	22040	21115	21189	21153	21226	21479
TOTAL	154980	163023	176897	142924	117251	105199	100040

CO	120616	120617	120618	120619	120620	120621	120622
Area	10440	10423	10475	10475	10475	10475	10475
Motor vehicle	36902	32289	38824	39592	39208	39977	42668
Non-road	56739	56739	48868	48868	48868	48868	48868
Low-level point	3604	3498	3836	3836	3836	3836	3836
All low-level	107685	102948	102002	102771	102387	103155	105846
Elevated point	5101	4871	5210	5220	5220	5225	5222
Total Anthropogenic	112786	107819	107212	107991	107606	108381	111069
TOTAL	112786	107819	107212	107991	107606	108381	111069

Table B-38
Summary of 2012 Baseline Emissions for June 2001 Episode (tons/day) in Grid 2

NOX	120616	120617	120618	120619	120620	120621	120622
Area	940	908	1003	1003	1003	1003	1003
Motor vehicle	1925	1684	2025	2065	2045	2085	2226
Non-road	2209	2209	2632	2632	2632	2632	2632
Low-level point	650	634	686	686	686	686	686
Biogenic	1009	1075	1116	1063	980	912	869
All low-level	6733	6511	7462	7450	7346	7318	7416
Elevated point	3513	3519	3609	3603	3618	3615	3602
Total Anthropogenic	9236	8955	9955	9989	9985	10021	10149
TOTAL	10245	10030	11071	11052	10965	10933	11018

VOC	120616	120617	120618	120619	120620	120621	120622
Area	5088	5088	5090	5090	5090	5090	5090
Motor vehicle	1472	1288	1549	1579	1564	1595	1702
Non-road	1875	1875	1018	1018	1018	1018	1018
Low-level point	754	680	1056	1056	1056	1056	1056
Biogenic	82542	93498	100850	76477	61065	50946	43749
All low-level	91732	102429	109562	85220	69792	59704	52615
Elevated point	208	197	228	228	229	229	229
Total Anthropogenic	9397	9128	8940	8971	8956	8987	9095
TOTAL	91939	102626	109790	85448	70021	59933	52844

CO	120616	120617	120618	120619	120620	120621	120622
Area	5081	5073	5096	5096	5096	5096	5096
Motor vehicle	16289	14253	17137	17477	17307	17646	18834
Non-road	18965	18965	16245	16245	16245	16245	16245
Low-level point	1211	1190	1257	1257	1257	1257	1257
All low-level	41546	39480	39735	40075	39905	40244	41432
Elevated point	1908	1891	1966	1974	1977	1978	1979
Total Anthropogenic	43454	41371	41701	42048	41882	42222	43411
TOTAL	43454	41371	41701	42048	41882	42222	43411

Table B-39
Summary of 2012 Baseline Emissions for June 2001 Episode (tons/day) in Grid 3

NOX	120616	120617	120618	120619	120620	120621	120622
Area	273	265	291	291	291	291	291
Motor vehicle	935	818	983	1003	993	1012	1081
Non-road	835	835	1014	1014	1014	1014	1014
Low-level point	130	125	141	141	141	141	141
Biogenic	350	389	400	391	374	336	307
All low-level	2522	2431	2828	2838	2812	2794	2833
Elevated point	1077	1082	1142	1141	1147	1140	1132
Total Anthropogenic	3250	3124	3570	3589	3585	3598	3657
TOTAL	3599	3513	3970	3980	3958	3934	3965

VOC	120616	120617	120618	120619	120620	120621	120622
Area	2144	2144	2144	2144	2144	2144	2144
Motor vehicle	705	617	741	756	749	763	815
Non-road	827	827	450	450	450	450	450
Low-level point	307	272	413	413	413	413	413
Biogenic	32242	38969	39530	33605	31571	24887	16452
All low-level	36224	42828	43278	37368	35327	28658	20275
Elevated point	101	99	110	111	111	111	111
Total Anthropogenic	4084	3958	3859	3874	3867	3882	3933
TOTAL	36326	42927	43388	37479	35438	28769	20386

CO	120616	120617	120618	120619	120620	120621	120622
Area	1678	1676	1683	1683	1683	1683	1683
Motor vehicle	7961	6966	8376	8541	8458	8624	9205
Non-road	8026	8026	7031	7031	7031	7031	7031
Low-level point	222	213	235	235	235	235	235
All low-level	17887	16880	17325	17491	17408	17574	18154
Elevated point	946	934	988	995	997	999	998
Total Anthropogenic	18833	17814	18313	18486	18405	18573	19153
TOTAL	18833	17814	18313	18486	18405	18573	19153

Table B-40
Summary of 2012 Baseline Emissions for July 2002 Episode (tons/day) in Grid 1

NOX	120704	120705	120706	120707	120708	120709	120710
Area	1942	2131	2005	1942	2131	2131	2131
Motor vehicle	4034	5330	4610	4034	4850	4946	4898
Non-road	5727	6941	5727	5727	6941	6941	6941
Low-level point	1755	1889	1800	1755	1889	1889	1889
Biogenic	4236	3944	3766	3962	4238	4206	3747
All low-level	17693	20235	17908	17419	20049	20113	19606
Elevated point	8633	9296	8932	8655	9304	9264	9281
Total Anthropogenic	22091	25587	23074	22112	25115	25171	25140
TOTAL	26327	29531	26840	26074	29353	29377	28887

VOC	120704	120705	120706	120707	120708	120709	120710
Area	11906	11910	11907	11906	11910	11910	11910
Motor vehicle	3055	4037	3492	3055	3674	3746	3710
Non-road	4993	2766	4993	4993	2766	2766	2766
Low-level point	1519	2207	1654	1519	2207	2207	2207
Biogenic	145738	141756	139354	149280	157141	141002	119165
All low-level	167212	162676	161400	170753	177696	161631	139757
Elevated point	477	541	501	477	539	540	540
Total Anthropogenic	21950	21460	22546	21950	21095	21169	21132
TOTAL	167689	163216	161901	171230	178236	162171	140297

CO	120704	120705	120706	120707	120708	120709	120710
Area	10423	10475	10440	10423	10475	10475	10475
Motor vehicle	32252	42618	36859	32252	38779	39547	39163
Non-road	55453	47776	55453	55453	47776	47776	47776
Low-level point	3498	3836	3604	3498	3836	3836	3836
All low-level	101625	104705	106357	101625	100866	101634	101250
Elevated point	4871	5222	5101	4871	5210	5220	5220
Total Anthropogenic	106496	109928	111458	106496	106076	106854	106470
TOTAL	106496	109928	111458	106496	106076	106854	106470

Table B-41
Summary of 2012 Baseline Emissions for July 2002 Episode (tons/day) in Grid 2

NOX	120704	120705	120706	120707	120708	120709	120710
Area	908	1003	940	908	1003	1003	1003
Motor vehicle	1672	2209	1911	1672	2010	2050	2030
Non-road	2181	2592	2181	2181	2592	2592	2592
Low-level point	634	686	650	634	686	686	686
Biogenic	1203	1179	1137	1124	1166	1198	1145
All low-level	6597	7669	6818	6519	7457	7529	7456
Elevated point	3519	3602	3534	3541	3609	3581	3597
Total Anthropogenic	8914	10092	9215	8936	9900	9912	9908
TOTAL	10117	11271	10352	10060	11066	11110	11053

VOC	120704	120705	120706	120707	120708	120709	120710
Area	5088	5090	5088	5088	5090	5090	5090
Motor vehicle	1300	1718	1485	1300	1563	1594	1578
Non-road	1835	1004	1835	1835	1004	1004	1004
Low-level point	680	1056	754	680	1056	1056	1056
Biogenic	87514	90505	90960	92573	96242	92838	76053
All low-level	96416	99372	100123	101476	104954	101581	84780
Elevated point	197	229	208	197	228	228	229
Total Anthropogenic	9100	9096	9371	9100	8940	8971	8956
TOTAL	96614	99601	100331	101673	105182	101809	85009

CO	120704	120705	120706	120707	120708	120709	120710
Area	5073	5096	5081	5073	5096	5096	5096
Motor vehicle	14194	18756	16221	14194	17066	17404	17235
Non-road	18539	15893	18539	18539	15893	15893	15893
Low-level point	1190	1257	1211	1190	1257	1257	1257
All low-level	38995	41002	41052	38995	39312	39650	39481
Elevated point	1891	1979	1908	1891	1966	1974	1977
Total Anthropogenic	40886	42981	42960	40886	41279	41624	41458
TOTAL	40886	42981	42960	40886	41279	41624	41458

Table B-42
Summary of 2012 Baseline Emissions for July 2002 Episode (tons/day) in Grid 3

NOX	120704	120705	120706	120707	120708	120709	120710
Area	265	291	273	265	291	291	291
Motor vehicle	808	1068	924	808	972	991	981
Non-road	823	997	823	823	997	997	997
Low-level point	125	141	130	125	141	141	141
Biogenic	426	444	438	410	423	438	438
All low-level	2447	2940	2588	2431	2823	2857	2847
Elevated point	1082	1132	1099	1103	1142	1120	1125
Total Anthropogenic	3103	3628	3248	3124	3542	3539	3535
TOTAL	3529	4072	3686	3534	3965	3977	3973

VOC	120704	120705	120706	120707	120708	120709	120710
Area	2144	2144	2144	2144	2144	2144	2144
Motor vehicle	623	823	712	623	749	764	756
Non-road	809	443	809	809	443	443	443
Low-level point	272	413	307	272	413	413	413
Biogenic	32335	42509	45719	40079	41123	41730	38171
All low-level	36182	46333	49691	43927	44872	45494	41928
Elevated point	99	111	101	99	110	111	111
Total Anthropogenic	3946	3935	4073	3946	3859	3875	3868
TOTAL	36281	46444	49793	44025	44982	45605	42039

CO	120704	120705	120706	120707	120708	120709	120710
Area	1676	1683	1678	1676	1683	1683	1683
Motor vehicle	6918	9142	7907	6918	8319	8483	8401
Non-road	7849	6881	7849	7849	6881	6881	6881
Low-level point	213	235	222	213	235	235	235
All low-level	16656	17942	17656	16656	17118	17283	17200
Elevated point	934	998	946	934	988	995	997
Total Anthropogenic	17590	18940	18601	17590	18106	18278	18198
TOTAL	17590	18940	18601	17590	18106	18278	18198

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