

ATTACHMENT A

AVERAGE ANNUAL EMISSIONS SUMMARY BY MAJOR SOURCE CATEGORY

TABLE A-1

Average Annual Day Emissions in the South Coast Air Basin
1987 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.03	0.02	0.00	0.53	0.00	0.01	0.01
Oil and Gas Production	7.29	0.80	3.18	18.48	0.05	0.08	0.08
Petroleum Refining	4.50	1.68	6.90	46.10	3.64	4.47	4.32
Other Manufacturing/Industrial	20.33	3.42	19.28	53.64	4.05	2.53	2.44
Electric Utilities	8.70	1.81	7.82	37.30	3.47	1.53	1.52
Other Service and Commerce	8.13	2.60	17.18	23.56	2.21	1.25	1.21
Residential	3.11	1.25	10.60	28.71	0.37	2.21	2.14
Other	0.55	0.42	8.07	1.42	0.10	0.10	0.10
Fuel Combustion	52.64	12.00	73.03	209.74	13.89	12.18	11.82
Waste Burning							
Agricultural Debris	0.02	0.01	0.18	0.00	0.00	0.02	0.02
Range Management	0.76	0.41	4.14	0.00	0.00	0.70	0.61
Forest Management	1.56	0.85	12.27	0.64	0.00	1.60	1.41
Incineration	0.07	0.01	0.09	0.98	0.14	0.19	0.11
Other	0.65	0.30	0.16	0.67	0.40	0.37	0.37
Waste Burning	3.06	1.58	16.84	2.29	0.54	2.88	2.52
Solvent Use							
Dry Cleaning	14.43	0.59	0.00	0.03	0.00	0.01	0.01
Degreasing	220.25	100.71	0.00	0.03	0.00	0.00	0.00
Architectural Coating	59.62	55.30	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	261.51	242.93	0.18	0.41	0.02	1.88	1.80
Asphalt Paving	0.45	0.45	0.00	0.00	0.00	0.00	0.00
Printing	5.66	5.66	0.01	0.04	0.00	0.03	0.03
Consumer Products	102.54	101.94	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	15.65	10.65	0.00	0.00	0.00	0.06	0.06
Other	2.59	1.91	0.00	0.00	0.00	0.02	0.02
Solvent Use	682.70	520.14	0.19	0.51	0.02	2.00	1.92

TABLE A-1
(Continued)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	91.63	38.70	0.03	0.32	2.00	0.04	0.02
Petroleum Refining	31.38	23.61	5.11	7.69	17.22	4.19	2.56
Petroleum Marketing	88.46	40.76	0.03	0.22	0.02	0.07	0.06
Other	1.73	1.60	0.46	0.02	0.06	0.09	0.07
Petroleum Process, Storage & Transfer	213.20	104.67	5.63	8.25	19.30	4.39	2.71
Industrial Processes							
Chemical	21.01	14.40	0.41	1.14	3.18	1.70	1.53
Food and Agricultural	5.72	4.91	0.04	0.14	0.03	14.36	13.89
Mineral Processes	0.55	0.39	1.49	6.02	2.72	2.63	1.89
Metal Processes	0.68	0.51	1.02	0.46	0.51	3.09	2.56
Wood and Paper	0.08	0.05	0.00	0.01	0.00	12.78	8.95
Other	11.00	7.70	0.00	0.11	0.00	0.33	0.27
Industrial Processes	39.04	27.96	2.96	7.88	6.44	34.89	29.09
Miscellaneous Processes							
Pesticide Application	11.89	11.89	0.00	0.00	0.00	0.00	0.00
Farming Operations	124.27	9.94	0.00	0.00	0.00	25.99	12.38
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	181.83	116.37
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	354.05	162.86
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	89.49	54.59
Unplanned Fires	0.77	0.54	7.73	0.19	0.00	0.87	0.86
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	112.85	56.43
Waste Disposal	129.39	2.04	0.00	0.00	0.00	5.39	3.78
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOx/SOx RECLAIM	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	25.92	15.70	4.80	7.99	0.73	1.90	1.49
Miscellaneous Processes	292.24	40.11	12.53	8.18	0.73	772.37	408.76

TABLE A-1
(Concluded)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
On-Road Vehicles							
Light-Duty Passenger	679.05	627.41	4370.48	380.95	15.70	9.35	5.68
Light- and Medium-Duty Trucks	291.27	267.43	1844.34	190.46	7.19	3.63	2.30
Heavy-Duty Gas Trucks	65.57	63.22	617.45	56.66	3.31	0.74	0.54
Heavy-Duty Diesel Trucks	20.43	19.86	70.28	133.35	7.97	17.94	16.86
Motorcycles	9.97	9.44	26.65	1.67	0.08	0.12	0.10
Heavy-Duty Diesel - Urban Bus	0.72	0.70	1.03	8.26	0.44	0.26	0.23
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	1067.01	988.06	6930.23	771.35	34.69	32.04	25.71
Other Mobile							
Off-Road Vehicles	36.85	35.37	187.07	3.69	0.15	0.99	0.98
Commercial Boats	0.50	0.48	2.05	10.29	2.64	0.22	0.21
Trains	1.41	1.37	4.27	28.41	2.33	0.64	0.62
Ships	2.47	2.39	3.15	33.77	37.31	3.70	3.52
Aircraft - Government	4.88	4.13	10.40	1.87	0.24	1.52	1.49
Aircraft - Other	10.65	9.35	69.23	11.41	0.85	0.05	0.05
Mobile Equipment	47.89	46.19	877.81	204.02	5.76	12.19	11.71
Utility Equipment	25.75	24.72	209.37	0.90	0.05	0.50	0.49
Other Mobile	130.40	124.00	1363.35	294.36	49.33	19.81	19.07
Stationary and Area Sources	1282.88	706.46	111.18	236.85	40.92	828.71	456.82
On-Road Vehicles	1067.01	988.06	6930.23	771.35	34.69	32.04	25.71
Other Mobile	130.40	124.00	1363.35	294.36	49.33	19.81	19.07
Total - All Sources	2480.29	1818.52	8404.76	1302.56	124.94	880.56	501.60

TABLE A-2

Average Annual Day Emissions in the South Coast Air Basin
1990 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.10	0.03	0.03	0.05	0.00	0.01	0.01
Oil and Gas Production	5.20	0.66	2.46	12.28	0.98	0.08	0.08
Petroleum Refining	3.39	1.39	10.70	35.10	5.10	4.91	4.76
Other Manufacturing/Industrial	19.82	3.41	24.04	51.24	5.87	2.47	2.35
Electric Utilities	3.29	1.14	6.40	24.58	4.17	1.38	1.35
Other Service and Commerce	12.03	2.88	26.77	26.64	1.29	2.45	2.39
Residential	3.28	1.32	11.20	30.04	0.38	2.33	2.26
Other	2.40	1.48	15.56	12.98	0.79	1.15	1.13
Fuel Combustion	49.51	12.31	97.16	192.91	18.58	14.78	14.33
Waste Burning							
Agricultural Debris	0.02	0.01	0.17	0.00	0.00	0.02	0.02
Range Management	0.77	0.42	4.19	0.00	0.00	0.70	0.62
Forest Management	1.53	0.83	12.02	0.63	0.00	1.57	1.38
Incineration	0.41	0.16	0.68	1.14	0.15	0.32	0.15
Other	0.71	0.34	1.45	0.84	0.08	0.31	0.31
Waste Burning	3.44	1.76	18.51	2.61	0.23	2.92	2.48
Solvent Use							
Dry Cleaning	14.58	0.33	0.01	0.05	0.00	0.00	0.00
Degreasing	222.13	101.16	0.02	0.07	0.00	0.03	0.03
Architectural Coating	60.24	55.88	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	197.51	182.15	0.37	0.57	0.05	1.19	1.14
Asphalt Paving	0.47	0.47	0.00	0.00	0.00	0.00	0.00
Printing	12.18	12.18	0.02	0.06	0.00	0.05	0.05
Consumer Products	110.04	109.38	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	22.91	9.36	0.01	0.05	0.01	0.04	0.04
Other	5.08	2.62	0.02	0.03	0.00	0.03	0.03
Solvent Use	645.14	473.53	0.45	0.83	0.06	1.34	1.29

TABLE A-2
(Continued)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	93.48	43.30	0.06	0.12	0.00	0.01	0.00
Petroleum Refining	30.56	21.79	3.18	4.47	11.80	4.10	2.49
Petroleum Marketing	89.06	40.99	0.01	0.05	0.00	0.01	0.01
Other	3.06	2.62	0.49	0.15	0.41	0.09	0.06
Petroleum Process, Storage & Transfer	216.16	108.70	3.74	4.79	12.21	4.21	2.56
Industrial Processes							
Chemical	24.31	15.13	0.46	0.62	2.31	1.23	1.11
Food and Agricultural	8.84	7.08	0.12	0.30	0.27	14.20	13.61
Mineral Processes	0.54	0.35	0.58	5.18	1.94	4.43	3.00
Metal Processes	1.22	0.90	1.41	0.75	0.29	3.77	3.08
Wood and Paper	0.11	0.08	0.01	0.02	0.00	11.73	8.21
Other	10.44	7.38	0.03	0.10	0.00	0.28	0.20
Industrial Processes	45.46	30.92	2.61	6.97	4.81	35.64	29.21
Miscellaneous Processes							
Pesticide Application	12.23	12.23	0.00	0.00	0.00	0.00	0.00
Farming Operations	164.61	13.17	0.00	0.00	0.00	26.08	12.43
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	150.42	96.27
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	375.41	172.69
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	88.74	54.13
Unplanned Fires	0.80	0.56	8.11	0.20	0.00	0.89	0.88
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	111.96	55.98
Waste Disposal	138.94	2.14	0.00	0.00	0.00	5.79	4.05
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOx/SOx RECLAIM	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	5.03	2.93	0.35	0.98	0.08	1.18	0.82
Miscellaneous Processes	321.61	31.03	8.46	1.18	0.08	760.47	397.25

TABLE A-2
(Concluded)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
On-Road Vehicles							
Light-Duty Passenger	582.57	533.96	4202.43	373.79	14.54	10.73	6.65
Light- and Medium-Duty Trucks	273.09	247.16	1984.02	222.62	7.42	4.35	2.74
Heavy-Duty Gas Trucks	44.72	43.14	342.19	54.33	3.32	0.86	0.63
Heavy-Duty Diesel Trucks	33.56	32.63	130.41	230.00	8.92	30.35	28.49
Motorcycles	5.44	5.08	19.19	1.33	0.06	0.08	0.07
Heavy-Duty Diesel - Urban Bus	0.69	0.67	0.86	8.61	0.26	0.22	0.19
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	940.07	862.64	6679.10	890.68	34.52	46.59	38.77
Other Mobile							
Off-Road Vehicles	40.45	38.84	204.59	4.03	0.15	1.16	1.15
Commercial Boats	0.51	0.50	2.13	10.63	1.71	0.22	0.21
Trains	1.52	1.48	4.60	30.58	1.48	0.69	0.67
Ships	2.55	2.46	3.25	34.88	25.23	3.82	3.64
Aircraft - Government	5.52	4.69	13.04	2.04	0.25	1.69	1.65
Aircraft - Other	11.04	9.70	72.21	11.81	0.89	0.05	0.05
Mobile Equipment	51.26	49.45	939.37	218.46	3.75	13.05	12.54
Utility Equipment	21.15	20.31	173.33	0.75	0.04	0.41	0.41
Other Mobile	134.00	127.43	1412.52	313.18	33.50	21.09	20.32
Stationary and Area Sources	1281.32	658.25	130.93	209.29	35.97	819.36	447.12
On-Road Vehicles	940.07	862.64	6679.10	890.68	34.52	46.59	38.77
Other Mobile	134.00	127.43	1412.52	313.18	33.50	21.09	20.32
Total - All Sources	2355.39	1648.32	8222.55	1413.15	103.99	887.04	506.21

TABLE A-3

Average Annual Day Emissions in the South Coast Air Basin
1993 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.04	0.03	0.00	0.00	0.00	0.01	0.01
Oil and Gas Production	3.98	0.56	1.62	8.82	0.03	0.05	0.05
Petroleum Refining	3.97	1.34	7.31	19.95	5.16	3.83	3.65
Other Manufacturing/Industrial	19.08	2.92	15.47	36.10	1.18	1.57	1.54
Electric Utilities	9.09	2.56	6.67	21.55	0.40	1.02	1.01
Other Service and Commerce	9.61	1.69	18.15	16.94	0.54	0.83	0.82
Residential	3.35	1.35	11.56	29.29	0.39	2.39	2.32
Other	1.29	0.44	4.11	3.51	0.17	0.33	0.33
Fuel Combustion	50.41	10.89	64.89	136.16	7.87	10.03	9.73
Waste Burning							
Agricultural Debris	0.02	0.01	0.18	0.00	0.00	0.02	0.02
Range Management	0.81	0.44	4.43	0.00	0.00	0.74	0.65
Forest Management	1.56	0.85	12.27	0.64	0.00	1.60	1.41
Incineration	0.29	0.04	0.17	1.36	1.34	0.22	0.12
Other	0.13	0.06	0.34	0.51	0.24	0.23	0.23
Waste Burning	2.81	1.40	17.39	2.51	1.58	2.81	2.43
Solvent Use							
Dry Cleaning	7.81	0.10	0.01	0.02	0.00	0.00	0.00
Degreasing	109.34	64.11	0.00	0.00	0.00	0.00	0.00
Architectural Coating	60.71	56.31	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	82.05	75.39	0.16	0.25	0.02	0.57	0.55
Asphalt Paving	0.40	0.40	0.00	0.00	0.00	0.00	0.00
Printing	5.81	5.81	0.01	0.03	0.00	0.02	0.02
Consumer Products	105.29	104.66	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	47.74	19.79	0.00	0.00	0.00	0.00	0.00
Other	7.58	4.02	0.00	0.00	0.00	0.02	0.02
Solvent Use	426.73	330.59	0.18	0.30	0.02	0.61	0.59

TABLE A-3
(Continued)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	25.13	13.75	0.00	0.00	0.00	0.00	0.00
Petroleum Refining	14.99	11.36	4.63	7.62	11.18	3.26	2.46
Petroleum Marketing	74.24	30.88	0.00	0.00	0.00	0.00	0.00
Other	2.32	1.98	0.00	0.02	0.00	0.02	0.02
Petroleum Process, Storage & Transfer	116.68	57.97	4.63	7.64	11.18	3.28	2.48
Industrial Processes							
Chemical	15.04	10.20	0.03	0.46	0.38	0.38	0.35
Food and Agricultural	6.51	5.27	0.02	0.06	0.04	11.71	11.44
Mineral Processes	1.75	1.59	0.76	5.35	1.48	1.41	0.97
Metal Processes	0.09	0.06	0.05	0.10	0.19	0.73	0.61
Wood and Paper	0.02	0.01	0.01	0.01	0.00	10.70	7.49
Other	1.18	0.83	0.00	0.01	0.00	0.07	0.05
Industrial Processes	24.59	17.96	0.87	5.99	2.09	25.00	20.91
Miscellaneous Processes							
Pesticide Application	12.03	12.03	0.00	0.00	0.00	0.00	0.00
Farming Operations	151.91	12.15	0.00	0.00	0.00	32.95	15.69
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	69.16	44.26
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	367.10	168.87
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	85.97	52.44
Unplanned Fires	0.83	0.58	8.42	0.21	0.00	0.92	0.90
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	108.49	54.24
Waste Disposal	146.09	2.21	0.00	0.00	0.00	6.09	4.26
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	10.64	5.09	2.09	0.84	0.38	4.31	3.02
Miscellaneous Processes	321.50	32.06	10.51	1.05	0.38	674.99	343.68

TABLE A-3
(Concluded)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
On-Road Vehicles							
Light-Duty Passenger	464.73	420.15	3592.70	330.53	8.80	9.02	4.88
Light- and Medium-Duty Trucks	222.34	197.92	1717.06	215.37	4.86	3.84	2.13
Heavy-Duty Gas Trucks	25.53	24.19	229.89	50.61	1.44	1.85	1.61
Heavy-Duty Diesel Trucks	28.90	28.09	123.12	188.75	9.34	20.12	18.65
Motorcycles	4.51	4.16	18.39	1.38	0.02	0.09	0.07
Heavy-Duty Diesel - Urban Bus	0.68	0.66	0.77	8.00	0.26	0.16	0.13
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	746.69	675.17	5681.93	794.64	24.72	35.08	27.47
Other Mobile							
Off-Road Vehicles	40.45	38.84	206.03	4.00	0.11	1.19	1.18
Commercial Boats	0.49	0.47	2.04	9.52	1.61	0.17	0.17
Trains	1.54	1.50	4.66	29.19	1.51	0.56	0.54
Ships	2.40	2.32	3.06	31.15	23.73	3.06	2.91
Aircraft - Government	3.47	2.95	9.67	3.28	0.12	0.77	0.75
Aircraft - Other	11.88	10.41	75.24	12.95	0.87	0.05	0.05
Mobile Equipment	44.19	42.62	832.50	155.38	2.97	8.59	8.26
Utility Equipment	15.70	15.07	131.18	0.57	0.02	0.31	0.31
Other Mobile	120.12	114.18	1264.38	246.04	30.94	14.70	14.17
Stationary and Area Sources	942.72	450.87	98.47	153.65	23.12	716.72	379.82
On-Road Vehicles	746.69	675.17	5681.93	794.64	24.72	35.08	27.47
Other Mobile	120.12	114.18	1264.38	246.04	30.94	14.70	14.17
Total - All Sources	1809.53	1240.22	7044.78	1194.33	78.78	766.50	421.46

TABLE A-4

Average Annual Day Emissions in the South Coast Air Basin
1997 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.04	0.03	0.00	0.00	0.00	0.01	0.01
Oil and Gas Production	3.98	0.56	1.62	1.97	0.01	0.05	0.05
Petroleum Refining	3.96	1.33	7.11	0.09	0.01	3.83	3.65
Other Manufacturing/Industrial	19.71	3.01	15.74	24.13	0.79	1.64	1.60
Electric Utilities	6.92	1.93	5.03	0.54	0.05	0.80	0.79
Other Service and Commerce	10.40	1.81	18.84	7.30	0.16	0.89	0.89
Residential	3.36	1.36	11.77	28.20	0.33	2.42	2.34
Other	1.27	0.40	4.01	1.17	0.05	0.34	0.33
Fuel Combustion	49.64	10.43	64.12	63.40	1.40	9.98	9.66
Waste Burning							
Agricultural Debris	0.02	0.01	0.18	0.00	0.00	0.02	0.02
Range Management	0.80	0.44	4.37	0.00	0.00	0.73	0.65
Forest Management	6.59	3.59	51.69	2.69	0.00	6.76	5.95
Incineration	0.30	0.04	0.17	0.35	0.04	0.23	0.12
Other	0.12	0.06	0.36	0.53	0.05	0.25	0.25
Waste Burning	7.83	4.14	56.77	3.57	0.09	7.99	6.99
Solvent Use							
Dry Cleaning	8.28	0.11	0.01	0.02	0.00	0.00	0.00
Degreasing	118.09	68.66	0.00	0.00	0.00	0.00	0.00
Architectural Coating	62.36	57.84	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	81.46	75.14	0.17	0.28	0.02	0.63	0.60
Asphalt Paving	0.44	0.44	0.00	0.00	0.00	0.00	0.00
Printing	5.66	5.66	0.01	0.03	0.00	0.03	0.03
Consumer Products	96.51	95.94	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	51.49	20.72	0.00	0.00	0.00	0.00	0.00
Other	8.01	4.16	0.00	0.00	0.00	0.02	0.02
Solvent Use	432.30	328.67	0.19	0.33	0.02	0.68	0.65

TABLE A-4
(Continued)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	23.70	13.21	0.00	0.00	0.00	0.00	0.00
Petroleum Refining	14.05	10.50	4.63	0.01	0.01	3.26	2.46
Petroleum Marketing	64.58	21.92	0.00	0.00	0.00	0.00	0.00
Other	2.36	2.00	0.00	0.02	0.00	0.02	0.02
Petroleum Process, Storage & Transfer	104.69	47.63	4.63	0.03	0.01	3.28	2.48
Industrial Processes							
Chemical	17.40	11.93	0.03	0.04	0.00	0.44	0.39
Food and Agricultural	5.09	4.12	0.02	0.06	0.00	11.87	11.60
Mineral Processes	1.72	1.55	0.82	0.03	0.00	1.44	1.00
Metal Processes	0.09	0.07	0.05	0.05	0.02	0.80	0.67
Wood and Paper	0.02	0.01	0.01	0.00	0.00	11.45	8.02
Other	1.26	0.89	0.00	0.00	0.00	0.07	0.05
Industrial Processes	25.58	18.57	0.93	0.18	0.02	26.07	21.73
Miscellaneous Processes							
Pesticide Application	11.76	11.76	0.00	0.00	0.00	0.00	0.00
Farming Operations	150.61	12.05	0.00	0.00	0.00	32.71	15.58
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	76.59	49.02
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	371.79	171.02
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	85.97	52.44
Unplanned Fires	0.85	0.59	8.66	0.21	0.00	0.93	0.92
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	108.49	54.24
Waste Disposal	124.63	2.00	0.00	0.00	0.00	5.19	3.63
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOx/SOx RECLAIM	0.00	0.00	0.00	77.85	22.24	0.00	0.00
Other	11.49	5.50	2.31	0.36	0.32	4.67	3.27
Miscellaneous Processes	299.34	31.90	10.97	78.42	22.56	686.34	350.12

TABLE A-4
(Concluded)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
On-Road Vehicles							
Light-Duty Passenger	313.42	281.91	2245.23	230.48	2.30	8.56	4.34
Light- and Medium-Duty Trucks	142.06	125.37	1118.35	158.00	1.36	3.75	1.91
Heavy-Duty Gas Trucks	11.57	10.77	124.94	38.66	0.38	0.83	0.60
Heavy-Duty Diesel Trucks	21.71	21.10	118.98	169.39	9.74	13.88	12.64
Motorcycles	3.95	3.63	16.89	1.48	0.01	0.09	0.07
Heavy-Duty Diesel - Urban Bus	0.65	0.63	0.64	7.59	0.25	0.09	0.07
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	493.36	443.41	3625.03	605.60	14.04	27.20	19.63
Other Mobile							
Off-Road Vehicles	40.69	39.06	193.69	4.59	0.03	1.35	1.34
Commercial Boats	0.49	0.47	1.94	9.69	1.64	0.18	0.17
Trains	1.46	1.42	4.44	27.79	1.39	0.54	0.51
Ships	2.52	2.44	3.21	32.75	24.98	3.22	3.06
Aircraft - Government	3.45	2.94	9.04	3.28	0.12	0.77	0.75
Aircraft - Other	12.98	11.33	79.23	14.59	0.97	0.05	0.05
Mobile Equipment	42.02	40.50	820.80	157.20	3.07	8.05	7.74
Utility Equipment	14.30	13.73	136.13	1.31	0.01	0.33	0.32
Other Mobile	117.91	111.89	1248.48	251.20	32.21	14.49	13.94
Stationary and Area Sources	919.38	441.34	137.61	145.93	24.10	734.34	391.63
On-Road Vehicles	493.36	443.41	3625.03	605.60	14.04	27.20	19.63
Other Mobile	117.91	111.89	1248.48	251.20	32.21	14.49	13.94
Total - All Sources	1530.65	996.64	5011.12	1002.73	70.35	776.03	425.20

TABLE A-5

Average Annual Day Emissions in the South Coast Air Basin
1999 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.04	0.03	0.00	0.00	0.00	0.01	0.01
Oil and Gas Production	3.98	0.56	1.62	1.97	0.01	0.05	0.05
Petroleum Refining	3.96	1.33	7.11	0.09	0.01	3.83	3.65
Other Manufacturing/Industrial	20.16	3.09	16.18	24.41	0.80	1.69	1.65
Electric Utilities	5.08	1.40	3.64	0.40	0.03	0.60	0.60
Other Service and Commerce	10.96	1.93	20.12	7.66	0.16	0.95	0.94
Residential	3.39	1.37	11.96	28.01	0.33	2.44	2.36
Other	1.31	0.41	4.16	1.21	0.05	0.35	0.34
Fuel Combustion	48.88	10.12	64.79	63.75	1.39	9.92	9.60
Waste Burning							
Agricultural Debris	0.02	0.01	0.18	0.00	0.00	0.02	0.02
Range Management	0.79	0.43	4.33	0.00	0.00	0.73	0.64
Forest Management	9.38	5.11	73.59	3.83	0.00	9.62	8.47
Incineration	0.30	0.04	0.18	0.36	0.04	0.24	0.12
Other	0.12	0.05	0.37	0.55	0.05	0.25	0.25
Waste Burning	10.61	5.64	78.65	4.74	0.09	10.86	9.50
Solvent Use							
Dry Cleaning	8.23	0.11	0.01	0.02	0.00	0.00	0.00
Degreasing	112.98	62.70	0.00	0.00	0.00	0.00	0.00
Architectural Coating	63.52	58.92	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	79.60	73.57	0.18	0.30	0.02	0.67	0.64
Asphalt Paving	0.47	0.47	0.00	0.00	0.00	0.00	0.00
Printing	5.18	5.18	0.01	0.04	0.00	0.03	0.03
Consumer Products	87.76	87.25	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	50.06	18.19	0.00	0.00	0.00	0.00	0.00
Other	7.44	3.55	0.00	0.00	0.00	0.02	0.02
Solvent Use	415.24	309.94	0.20	0.36	0.02	0.72	0.69

TABLE A-5
(Continued)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	20.91	12.19	0.00	0.00	0.00	0.00	0.00
Petroleum Refining	12.96	9.55	4.63	0.01	0.01	3.27	2.46
Petroleum Marketing	64.64	22.17	0.00	0.00	0.00	0.00	0.00
Other	2.37	2.02	0.00	0.02	0.00	0.03	0.02
Petroleum Process, Storage & Transfer	100.88	45.93	4.63	0.03	0.01	3.30	2.48
Industrial Processes							
Chemical	19.11	13.13	0.03	0.04	0.00	0.47	0.42
Food and Agricultural	5.12	4.16	0.02	0.06	0.00	11.98	11.71
Mineral Processes	1.76	1.57	0.86	0.03	0.00	1.46	1.02
Metal Processes	0.10	0.07	0.06	0.06	0.02	0.85	0.71
Wood and Paper	0.02	0.01	0.01	0.00	0.00	11.95	8.37
Other	1.37	0.96	0.00	0.00	0.00	0.07	0.05
Industrial Processes	27.48	19.90	0.98	0.19	0.02	26.78	22.28
Miscellaneous Processes							
Pesticide Application	11.32	11.32	0.00	0.00	0.00	0.00	0.00
Farming Operations	149.78	11.98	0.00	0.00	0.00	32.56	15.51
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	81.57	52.20
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	385.09	177.14
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	85.97	52.44
Unplanned Fires	0.86	0.60	8.82	0.21	0.00	0.94	0.93
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	108.49	54.24
Waste Disposal	117.53	1.92	0.00	0.00	0.00	4.89	3.42
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOx/SOx RECLAIM	0.00	0.00	0.00	54.46	18.30	0.00	0.00
Other	12.07	5.78	2.46	0.37	0.33	4.91	3.44
Miscellaneous Processes	291.56	31.60	11.28	55.04	18.63	704.42	359.32

TABLE A-5
(Concluded)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
On-Road Vehicles							
Light-Duty Passenger	269.48	242.81	1930.33	200.65	2.17	8.36	4.14
Light- and Medium-Duty Trucks	118.89	104.76	974.99	142.37	1.34	3.72	1.85
Heavy-Duty Gas Trucks	9.80	9.07	105.11	35.40	0.37	0.82	0.60
Heavy-Duty Diesel Trucks	18.84	18.32	119.81	160.23	9.88	11.54	10.37
Motorcycles	3.99	3.67	17.06	1.52	0.01	0.09	0.07
Heavy-Duty Diesel - Urban Bus	0.64	0.62	0.61	7.37	0.24	0.08	0.06
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	421.64	379.25	3147.91	547.54	14.01	24.61	17.09
Other Mobile							
Off-Road Vehicles	40.14	38.53	199.61	4.88	0.03	1.45	1.44
Commercial Boats	0.49	0.47	1.95	9.78	1.65	0.18	0.17
Trains	1.41	1.37	4.28	26.87	1.34	0.52	0.50
Ships	2.59	2.50	3.29	33.56	25.61	3.29	3.14
Aircraft - Government	3.45	2.94	9.04	3.28	0.12	0.77	0.75
Aircraft - Other	13.53	11.80	81.37	15.43	1.02	0.05	0.05
Mobile Equipment	43.51	41.94	847.09	148.92	3.20	8.40	8.07
Utility Equipment	14.67	14.08	139.61	1.35	0.01	0.34	0.33
Other Mobile	119.79	113.63	1286.24	244.07	32.98	15.00	14.45
Stationary and Area Sources	894.65	423.13	160.53	124.11	20.16	756.00	403.87
On-Road Vehicles	421.64	379.25	3147.91	547.54	14.01	24.61	17.09
Other Mobile	119.79	113.63	1286.24	244.07	32.98	15.00	14.45
Total - All Sources	1436.08	916.01	4594.68	915.72	67.15	795.61	435.41

TABLE A-6

Average Annual Day Emissions in the South Coast Air Basin
2000 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.04	0.03	0.00	0.00	0.00	0.01	0.01
Oil and Gas Production	3.98	0.56	1.62	1.97	0.01	0.05	0.05
Petroleum Refining	3.96	1.33	7.11	0.09	0.01	3.83	3.65
Other Manufacturing/Industrial	20.38	3.12	16.39	24.57	0.80	1.72	1.68
Electric Utilities	3.25	0.87	2.25	0.24	0.02	0.40	0.40
Other Service and Commerce	11.24	1.98	20.74	7.84	0.17	0.97	0.97
Residential	3.40	1.37	12.04	27.91	0.33	2.46	2.37
Other	1.34	0.42	4.24	1.22	0.06	0.35	0.34
Fuel Combustion	47.59	9.68	64.39	63.84	1.40	9.79	9.47
Waste Burning							
Agricultural Debris	0.02	0.01	0.18	0.00	0.00	0.02	0.02
Range Management	0.79	0.43	4.31	0.00	0.00	0.72	0.64
Forest Management	10.87	5.93	85.26	4.44	0.00	11.15	9.81
Incineration	0.30	0.04	0.18	0.36	0.04	0.24	0.12
Other	0.10	0.05	0.38	0.56	0.05	0.26	0.26
Waste Burning	12.08	6.46	90.31	5.36	0.09	12.39	10.85
Solvent Use							
Dry Cleaning	8.42	0.11	0.01	0.03	0.00	0.00	0.00
Degreasing	116.24	64.50	0.00	0.00	0.00	0.00	0.00
Architectural Coating	64.08	59.44	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	81.87	75.66	0.19	0.30	0.02	0.69	0.66
Asphalt Paving	0.49	0.49	0.00	0.00	0.00	0.00	0.00
Printing	5.35	5.35	0.01	0.04	0.00	0.03	0.03
Consumer Products	88.83	88.31	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	51.38	18.56	0.00	0.00	0.00	0.00	0.00
Other	7.62	3.64	0.00	0.00	0.00	0.02	0.02
Solvent Use	424.28	316.06	0.21	0.37	0.02	0.74	0.71

TABLE A-6
(Continued)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	19.53	11.68	0.00	0.00	0.00	0.00	0.00
Petroleum Refining	12.42	9.08	4.63	0.01	0.01	3.27	2.46
Petroleum Marketing	64.65	22.29	0.00	0.00	0.00	0.00	0.00
Other	2.36	2.00	0.00	0.02	0.00	0.03	0.03
Petroleum Process, Storage & Transfer	98.96	45.05	4.63	0.03	0.01	3.30	2.49
Industrial Processes							
Chemical	19.96	13.72	0.03	0.05	0.00	0.49	0.44
Food and Agricultural	5.14	4.17	0.02	0.06	0.00	12.04	11.72
Mineral Processes	1.77	1.58	0.88	0.03	0.00	1.46	1.03
Metal Processes	0.10	0.07	0.06	0.06	0.02	0.88	0.73
Wood and Paper	0.02	0.01	0.01	0.00	0.00	12.20	8.54
Other	1.42	1.00	0.00	0.00	0.00	0.07	0.05
Industrial Processes	28.41	20.55	1.00	0.20	0.02	27.14	22.51
Miscellaneous Processes							
Pesticide Application	11.45	11.45	0.00	0.00	0.00	0.00	0.00
Farming Operations	149.33	11.95	0.00	0.00	0.00	32.47	15.47
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	84.04	53.78
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	391.68	180.17
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	85.97	52.44
Unplanned Fires	0.87	0.61	8.90	0.22	0.00	0.95	0.93
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	108.49	54.24
Waste Disposal	119.12	1.94	0.00	0.00	0.00	4.96	3.47
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOx/SOx RECLAIM	0.00	0.00	0.00	43.44	16.34	0.00	0.00
Other	12.36	5.92	2.53	0.38	0.34	5.03	3.52
Miscellaneous Processes	293.13	31.87	11.43	44.04	16.68	713.59	364.02

TABLE A-6
(Concluded)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
On-Road Vehicles							
Light-Duty Passenger	249.12	224.64	1803.19	187.93	2.13	8.36	4.11
Light- and Medium-Duty Trucks	108.25	95.39	924.65	133.79	1.35	3.76	1.85
Heavy-Duty Gas Trucks	8.99	8.30	97.01	34.05	0.37	0.82	0.60
Heavy-Duty Diesel Trucks	17.68	17.19	120.79	155.85	9.94	10.62	9.48
Motorcycles	4.01	3.69	17.16	1.54	0.01	0.09	0.07
Heavy-Duty Diesel - Urban Bus	0.63	0.62	0.61	7.33	0.24	0.08	0.06
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	388.68	349.83	2963.41	520.49	14.04	23.73	16.17
Other Mobile							
Off-Road Vehicles	41.37	39.72	205.52	5.02	0.03	1.49	1.48
Commercial Boats	0.49	0.48	1.96	9.82	1.65	0.18	0.17
Trains	1.39	1.35	4.21	26.42	1.32	0.51	0.49
Ships	2.62	2.53	3.33	33.96	25.92	3.33	3.17
Aircraft - Government	3.45	2.94	9.04	3.28	0.12	0.77	0.75
Aircraft - Other	13.80	12.03	82.42	15.84	1.05	0.05	0.05
Mobile Equipment	43.70	42.12	846.11	151.49	3.27	8.48	8.15
Utility Equipment	11.12	10.67	116.96	1.73	0.01	0.27	0.27
Other Mobile	117.94	111.84	1269.55	247.56	33.37	15.08	14.53
Stationary and Area Sources	904.45	429.67	171.97	113.84	18.22	766.95	410.05
On-Road Vehicles	388.68	349.83	2963.41	520.49	14.04	23.73	16.17
Other Mobile	117.94	111.84	1269.55	247.56	33.37	15.08	14.53
Total - All Sources	1411.07	891.34	4404.93	881.89	65.63	805.76	440.75

TABLE A-7

Average Annual Day Emissions in the South Coast Air Basin
2002 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.04	0.03	0.00	0.00	0.00	0.01	0.01
Oil and Gas Production	3.98	0.56	1.62	1.94	0.01	0.05	0.05
Petroleum Refining	3.96	1.33	7.11	0.09	0.01	3.83	3.65
Other Manufacturing/Industrial	20.54	3.16	16.66	24.40	0.80	1.74	1.70
Electric Utilities	3.38	0.90	2.35	0.24	0.02	0.42	0.42
Other Service and Commerce	11.81	2.10	22.05	7.84	0.17	1.04	1.03
Residential	3.49	1.41	12.40	28.44	0.34	2.52	2.44
Other	1.38	0.43	4.37	1.10	0.06	0.36	0.35
Fuel Combustion	48.58	9.92	66.56	64.05	1.41	9.97	9.65
Waste Burning							
Agricultural Debris	0.02	0.01	0.17	0.00	0.00	0.02	0.02
Range Management	0.77	0.42	4.21	0.00	0.00	0.71	0.62
Forest Management	12.36	6.74	96.94	5.05	0.00	12.68	11.16
Incineration	0.31	0.04	0.19	0.37	0.04	0.24	0.13
Other	0.11	0.05	0.39	0.58	0.05	0.27	0.27
Waste Burning	13.57	7.26	101.90	6.00	0.09	13.92	12.20
Solvent Use							
Dry Cleaning	8.93	0.11	0.01	0.03	0.00	0.00	0.00
Degreasing	121.62	67.50	0.00	0.00	0.00	0.00	0.00
Architectural Coating	65.81	61.05	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	84.08	77.75	0.20	0.32	0.02	0.72	0.69
Asphalt Paving	0.50	0.50	0.00	0.00	0.00	0.00	0.00
Printing	5.75	5.75	0.01	0.04	0.00	0.03	0.03
Consumer Products	91.03	90.50	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	53.55	19.29	0.00	0.00	0.00	0.00	0.00
Other	8.04	3.82	0.00	0.00	0.00	0.02	0.02
Solvent Use	439.31	326.27	0.22	0.39	0.02	0.77	0.74

TABLE A-7
(Continued)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	19.53	11.68	0.00	0.00	0.00	0.00	0.00
Petroleum Refining	12.44	9.09	4.63	0.01	0.01	3.27	2.46
Petroleum Marketing	65.74	22.42	0.00	0.00	0.00	0.00	0.00
Other	2.43	2.06	0.00	0.02	0.00	0.03	0.03
Petroleum Process, Storage & Transfer	100.14	45.25	4.63	0.03	0.01	3.30	2.49
Industrial Processes							
Chemical	21.20	14.58	0.03	0.05	0.00	0.52	0.46
Food and Agricultural	5.09	4.13	0.01	0.06	0.00	11.95	11.66
Mineral Processes	1.80	1.60	0.90	0.03	0.00	1.48	1.04
Metal Processes	0.10	0.07	0.06	0.06	0.03	0.90	0.75
Wood and Paper	0.02	0.01	0.01	0.00	0.00	12.50	8.75
Other	1.49	1.05	0.00	0.00	0.00	0.07	0.05
Industrial Processes	29.70	21.44	1.01	0.20	0.03	27.42	22.71
Miscellaneous Processes							
Pesticide Application	11.66	11.66	0.00	0.00	0.00	0.00	0.00
Farming Operations	145.39	11.63	0.00	0.00	0.00	31.58	15.04
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	86.84	55.58
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	397.06	182.65
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	85.97	52.44
Unplanned Fires	0.89	0.62	9.12	0.22	0.00	0.96	0.95
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	108.49	54.24
Waste Disposal	122.17	1.97	0.00	0.00	0.00	5.09	3.56
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	0.00	0.00	35.65	13.02	0.00	0.00
Other	12.90	6.16	2.64	0.40	0.34	5.17	3.62
Miscellaneous Processes	293.01	32.04	11.76	36.27	13.36	721.16	368.08

TABLE A-7
(Concluded)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
On-Road Vehicles							
Light-Duty Passenger	214.96	194.39	1597.09	162.73	2.10	8.46	4.10
Light- and Medium-Duty Trucks	91.13	80.65	829.38	117.17	1.38	3.90	1.88
Heavy-Duty Gas Trucks	8.17	7.47	89.96	32.23	0.38	0.84	0.61
Heavy-Duty Diesel Trucks	16.98	16.51	132.22	151.87	10.37	9.44	8.30
Motorcycles	4.22	3.88	18.23	1.57	0.01	0.10	0.08
Heavy-Duty Diesel - Urban Bus	0.67	0.65	0.63	7.14	0.24	0.07	0.05
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	336.13	303.55	2667.51	472.71	14.48	22.81	15.02
Other Mobile							
Off-Road Vehicles	41.05	39.41	212.11	5.30	0.04	1.58	1.57
Commercial Boats	0.49	0.48	1.97	9.90	1.67	0.18	0.17
Trains	1.39	1.35	4.21	26.42	1.32	0.51	0.49
Ships	2.74	2.65	3.48	35.53	27.14	3.49	3.32
Aircraft - Government	3.45	2.94	9.04	3.28	0.12	0.77	0.75
Aircraft - Other	14.35	12.50	84.55	16.67	1.10	0.05	0.05
Mobile Equipment	44.58	42.97	862.88	137.02	3.34	8.62	8.29
Utility Equipment	11.39	10.94	119.92	1.77	0.01	0.28	0.28
Other Mobile	119.44	113.24	1298.16	235.89	34.74	15.48	14.92
Stationary and Area Sources	924.31	442.18	186.08	106.94	14.92	776.54	415.87
On-Road Vehicles	336.13	303.55	2667.51	472.71	14.48	22.81	15.02
Other Mobile	119.44	113.24	1298.16	235.89	34.74	15.48	14.92
Total - All Sources	1379.88	858.97	4151.75	815.54	64.14	814.83	445.81

TABLE A-8

Average Annual Day Emissions in the South Coast Air Basin
2003 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.04	0.03	0.00	0.00	0.00	0.01	0.01
Oil and Gas Production	3.98	0.56	1.62	1.93	0.01	0.05	0.05
Petroleum Refining	3.96	1.33	7.11	0.09	0.01	3.83	3.65
Other Manufacturing/Industrial	20.63	3.17	16.78	24.33	0.80	1.76	1.72
Electric Utilities	3.46	0.93	2.41	0.24	0.02	0.43	0.43
Other Service and Commerce	12.08	2.16	22.68	7.81	0.18	1.06	1.05
Residential	3.53	1.42	12.57	28.70	0.34	2.55	2.47
Other	1.40	0.44	4.44	1.04	0.06	0.36	0.36
Fuel Combustion	49.08	10.04	67.61	64.14	1.42	10.05	9.74
Waste Burning							
Agricultural Debris	0.02	0.01	0.17	0.00	0.00	0.02	0.02
Range Management	0.76	0.42	4.16	0.00	0.00	0.70	0.61
Forest Management	12.36	6.74	96.94	5.05	0.00	12.68	11.16
Incineration	0.31	0.04	0.19	0.38	0.04	0.25	0.13
Other	0.11	0.05	0.39	0.58	0.05	0.27	0.27
Waste Burning	13.56	7.26	101.85	6.01	0.09	13.92	12.19
Solvent Use							
Dry Cleaning	9.18	0.12	0.01	0.03	0.00	0.00	0.00
Degreasing	124.30	69.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	66.64	61.81	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	85.10	78.72	0.20	0.33	0.03	0.74	0.71
Asphalt Paving	0.51	0.51	0.00	0.00	0.00	0.00	0.00
Printing	5.95	5.95	0.01	0.04	0.00	0.03	0.03
Consumer Products	92.13	91.59	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	54.63	19.65	0.00	0.00	0.00	0.00	0.00
Other	8.25	3.91	0.00	0.00	0.00	0.02	0.02
Solvent Use	446.69	331.26	0.22	0.40	0.03	0.79	0.76

TABLE A-8
(Continued)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	19.53	11.69	0.00	0.00	0.00	0.00	0.00
Petroleum Refining	12.44	9.10	4.63	0.01	0.01	3.27	2.46
Petroleum Marketing	66.28	22.48	0.00	0.00	0.00	0.00	0.00
Other	2.47	2.09	0.00	0.02	0.00	0.03	0.03
Petroleum Process, Storage & Transfer	100.72	45.36	4.63	0.03	0.01	3.30	2.49
Industrial Processes							
Chemical	21.82	15.01	0.03	0.05	0.00	0.53	0.48
Food and Agricultural	5.06	4.11	0.01	0.06	0.00	11.90	11.62
Mineral Processes	1.81	1.61	0.91	0.03	0.00	1.48	1.05
Metal Processes	0.10	0.08	0.06	0.06	0.03	0.91	0.75
Wood and Paper	0.02	0.01	0.01	0.00	0.00	12.64	8.85
Other	1.53	1.08	0.00	0.00	0.00	0.07	0.05
Industrial Processes	30.34	21.90	1.02	0.20	0.03	27.53	22.58
Miscellaneous Processes							
Pesticide Application	11.77	11.77	0.00	0.00	0.00	0.00	0.00
Farming Operations	143.39	11.47	0.00	0.00	0.00	31.13	14.83
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	88.25	56.48
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	399.75	183.88
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	85.97	52.44
Unplanned Fires	0.89	0.62	9.24	0.22	0.00	0.97	0.95
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	108.49	54.24
Waste Disposal	123.76	1.99	0.00	0.00	0.00	5.15	3.61
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	0.00	0.00	31.76	11.37	0.00	0.00
Other	13.17	6.27	2.70	0.41	0.34	5.25	3.68
Miscellaneous Processes	292.98	32.12	11.94	32.39	11.71	724.96	370.11

TABLE A-8
(Concluded)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
On-Road Vehicles							
Light-Duty Passenger	197.74	179.05	1499.96	151.57	2.09	8.53	4.11
Light- and Medium-Duty Trucks	82.73	73.35	769.85	110.63	1.41	3.98	1.91
Heavy-Duty Gas Trucks	7.98	7.28	87.74	30.94	0.38	0.85	0.62
Heavy-Duty Diesel Trucks	16.77	16.30	138.06	150.22	10.59	9.01	7.86
Motorcycles	4.33	3.98	18.76	1.59	0.01	0.10	0.08
Heavy-Duty Diesel - Urban Bus	0.69	0.67	0.65	7.01	0.24	0.06	0.04
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	310.24	280.63	2515.02	451.96	14.72	22.53	14.62
Other Mobile							
Off-Road Vehicles	42.21	40.52	217.84	5.44	0.04	1.63	1.62
Commercial Boats	0.50	0.48	1.97	9.94	1.67	0.18	0.17
Trains	1.39	1.35	4.21	26.42	1.32	0.51	0.49
Ships	2.80	2.71	3.56	36.31	27.75	3.56	3.39
Aircraft - Government	3.45	2.94	9.04	3.28	0.12	0.77	0.75
Aircraft - Other	14.63	12.73	85.60	17.09	1.13	0.05	0.05
Mobile Equipment	45.02	43.40	871.35	138.30	3.37	8.69	8.35
Utility Equipment	11.53	11.07	121.39	1.79	0.01	0.28	0.28
Other Mobile	121.53	115.20	1314.96	238.57	35.41	15.67	15.10
Stationary and Area Sources	933.37	447.94	187.27	103.17	13.29	780.55	418.09
On-Road Vehicles	310.24	280.63	2515.02	451.96	14.72	22.53	14.62
Other Mobile	121.53	115.20	1314.96	238.57	35.41	15.67	15.10
Total - All Sources	1365.14	843.77	4017.25	793.70	63.42	818.75	447.81

TABLE A-9

Average Annual Day Emissions in the South Coast Air Basin
2005 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.03	0.03	0.00	0.00	0.00	0.01	0.01
Oil and Gas Production	3.98	0.56	1.62	1.90	0.01	0.05	0.05
Petroleum Refining	3.96	1.33	7.11	0.08	0.01	3.83	3.65
Other Manufacturing/Industrial	20.80	3.20	17.04	24.17	0.79	1.77	1.74
Electric Utilities	3.62	0.97	2.53	0.23	0.02	0.46	0.45
Other Service and Commerce	12.65	2.27	23.98	7.72	0.19	1.12	1.11
Residential	3.61	1.46	12.92	29.23	0.35	2.62	2.53
Other	1.44	0.45	4.58	0.92	0.06	0.37	0.36
Fuel Combustion	50.09	10.27	69.78	64.25	1.43	10.23	9.90
Waste Burning							
Agricultural Debris	0.02	0.01	0.17	0.00	0.00	0.02	0.02
Range Management	0.74	0.41	4.06	0.00	0.00	0.68	0.60
Forest Management	12.36	6.74	96.94	5.05	0.00	12.68	11.16
Incineration	0.32	0.05	0.20	0.39	0.05	0.25	0.13
Other	0.11	0.05	0.41	0.60	0.05	0.28	0.28
Waste Burning	13.55	7.26	101.78	6.04	0.10	13.91	12.19
Solvent Use							
Dry Cleaning	9.70	0.12	0.01	0.03	0.00	0.00	0.00
Degreasing	129.66	71.99	0.00	0.00	0.00	0.00	0.00
Architectural Coating	68.32	63.37	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	87.15	80.65	0.21	0.34	0.03	0.77	0.74
Asphalt Paving	0.53	0.53	0.00	0.00	0.00	0.00	0.00
Printing	6.33	6.33	0.01	0.04	0.00	0.04	0.03
Consumer Products	87.22	86.67	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	56.77	20.37	0.00	0.00	0.00	0.00	0.00
Other	8.67	4.09	0.00	0.00	0.00	0.02	0.02
Solvent Use	454.35	334.12	0.23	0.41	0.03	0.83	0.79

TABLE A-9
(Continued)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	19.54	11.69	0.00	0.00	0.00	0.00	0.00
Petroleum Refining	12.46	9.12	4.63	0.01	0.01	3.27	2.46
Petroleum Marketing	67.35	22.58	0.00	0.00	0.00	0.00	0.00
Other	2.53	2.14	0.00	0.02	0.00	0.03	0.03
Petroleum Process, Storage & Transfer	101.88	45.53	4.63	0.03	0.01	3.30	2.49
Industrial Processes							
Chemical	23.07	15.88	0.03	0.05	0.00	0.56	0.50
Food and Agricultural	5.00	4.07	0.01	0.06	0.00	11.81	11.53
Mineral Processes	1.84	1.63	0.92	0.03	0.00	1.49	1.06
Metal Processes	0.11	0.08	0.06	0.06	0.03	0.92	0.77
Wood and Paper	0.02	0.02	0.01	0.00	0.00	12.94	9.06
Other	1.60	1.13	0.00	0.00	0.00	0.07	0.05
Industrial Processes	31.64	22.81	1.03	0.20	0.03	27.79	22.97
Miscellaneous Processes							
Pesticide Application	11.98	11.98	0.00	0.00	0.00	0.00	0.00
Farming Operations	139.37	11.15	0.00	0.00	0.00	30.22	14.39
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	91.07	58.29
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	405.18	186.38
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	85.97	52.44
Unplanned Fires	0.91	0.64	9.46	0.23	0.00	0.98	0.97
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	108.49	54.24
Waste Disposal	126.95	2.02	0.00	0.00	0.00	5.29	3.70
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	0.00	0.00	31.76	11.37	0.00	0.00
Other	13.70	6.50	2.81	0.42	0.35	5.38	3.77
Miscellaneous Processes	292.91	32.29	12.27	32.41	11.72	732.58	374.18

TABLE A-9
(Concluded)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
On-Road Vehicles							
Light-Duty Passenger	165.80	150.58	1322.69	132.43	2.08	8.66	4.13
Light- and Medium-Duty Trucks	68.76	61.21	632.99	100.84	1.46	4.14	1.96
Heavy-Duty Gas Trucks	7.44	6.78	84.90	27.90	0.39	0.87	0.63
Heavy-Duty Diesel Trucks	16.61	16.15	149.84	148.16	11.08	8.40	7.23
Motorcycles	4.54	4.18	19.83	1.62	0.01	0.10	0.08
Heavy-Duty Diesel - Urban Bus	0.72	0.70	0.68	6.85	0.24	0.06	0.04
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	263.87	239.60	2210.93	417.80	15.26	22.23	14.07
Other Mobile							
Off-Road Vehicles	43.90	42.15	228.46	5.72	0.04	1.72	1.71
Commercial Boats	0.50	0.48	1.98	10.02	1.68	0.18	0.18
Trains	1.39	1.35	4.21	26.42	1.32	0.51	0.49
Ships	2.93	2.83	3.71	37.92	29.00	3.72	3.54
Aircraft - Government	3.45	2.94	9.04	3.28	0.12	0.77	0.75
Aircraft - Other	15.18	13.20	87.74	17.92	1.18	0.05	0.05
Mobile Equipment	45.91	44.25	888.20	125.87	3.44	8.83	8.48
Utility Equipment	11.81	11.34	124.31	1.84	0.01	0.29	0.29
Other Mobile	125.07	118.54	1347.65	228.99	36.79	16.07	15.49
Stationary and Area Sources	944.42	452.28	189.72	103.34	13.32	788.64	422.52
On-Road Vehicles	263.87	239.60	2210.93	417.80	15.26	22.23	14.07
Other Mobile	125.07	118.54	1347.65	228.99	36.79	16.07	15.49
Total - All Sources	1333.36	810.42	3748.30	750.13	65.37	826.94	452.08

TABLE A-10

Average Annual Day Emissions in the South Coast Air Basin
2006 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.03	0.03	0.00	0.00	0.00	0.01	0.01
Oil and Gas Production	3.98	0.56	1.62	1.89	0.01	0.05	0.05
Petroleum Refining	3.96	1.33	7.11	0.08	0.01	3.83	3.65
Other Manufacturing/Industrial	20.92	3.23	17.22	24.13	0.79	1.79	1.75
Electric Utilities	3.67	0.99	2.57	0.23	0.02	0.46	0.46
Other Service and Commerce	12.94	2.34	24.70	7.65	0.19	1.15	1.14
Residential	3.66	1.48	13.09	29.49	0.36	2.65	2.56
Other	1.46	0.46	4.64	0.86	0.06	0.37	0.37
Fuel Combustion	50.62	10.42	70.95	64.33	1.44	10.31	9.99
Waste Burning							
Agricultural Debris	0.02	0.01	0.17	0.00	0.00	0.02	0.02
Range Management	0.74	0.41	4.06	0.00	0.00	0.68	0.60
Forest Management	12.36	6.74	96.94	5.05	0.00	12.68	11.16
Incineration	0.32	0.05	0.20	0.40	0.05	0.26	0.13
Other	0.12	0.05	0.41	0.61	0.05	0.28	0.28
Waste Burning	13.56	7.26	101.78	6.06	0.10	13.92	12.19
Solvent Use							
Dry Cleaning	9.86	0.12	0.01	0.03	0.00	0.00	0.00
Degreasing	133.01	73.85	0.00	0.00	0.00	0.00	0.00
Architectural Coating	69.17	64.16	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	88.54	81.95	0.22	0.35	0.03	0.79	0.76
Asphalt Paving	0.53	0.53	0.00	0.00	0.00	0.00	0.00
Printing	6.54	6.54	0.01	0.05	0.00	0.04	0.04
Consumer Products	88.26	87.70	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	58.23	20.87	0.00	0.00	0.00	0.00	0.00
Other	8.85	4.17	0.00	0.00	0.00	0.02	0.02
Solvent Use	462.99	339.89	0.24	0.43	0.03	0.85	0.82

TABLE A-10
(Continued)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	19.54	11.69	0.00	0.00	0.00	0.00	0.00
Petroleum Refining	12.47	9.13	4.63	0.01	0.01	3.27	2.46
Petroleum Marketing	67.87	22.62	0.00	0.00	0.00	0.00	0.00
Other	2.57	2.16	0.00	0.02	0.00	0.03	0.03
Petroleum Process, Storage & Transfer	102.45	45.60	4.63	0.03	0.01	3.30	2.49
Industrial Processes							
Chemical	23.92	16.47	0.03	0.06	0.00	0.58	0.52
Food and Agricultural	5.00	4.07	0.01	0.06	0.00	11.80	11.52
Mineral Processes	1.85	1.64	0.93	0.03	0.00	1.49	1.06
Metal Processes	0.11	0.08	0.06	0.06	0.03	0.94	0.78
Wood and Paper	0.02	0.02	0.01	0.00	0.00	13.12	9.19
Other	1.66	1.17	0.00	0.00	0.00	0.07	0.05
Industrial Processes	32.56	23.45	1.04	0.21	0.03	28.00	23.12
Miscellaneous Processes							
Pesticide Application	12.12	12.12	0.00	0.00	0.00	0.00	0.00
Farming Operations	139.21	11.14	0.00	0.00	0.00	30.16	14.37
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	91.87	58.80
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	407.81	187.59
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	85.97	52.44
Unplanned Fires	0.92	0.64	9.57	0.23	0.00	0.99	0.98
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	108.49	54.24
Waste Disposal	128.40	2.03	0.00	0.00	0.00	5.35	3.74
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	0.00	0.00	31.76	11.37	0.00	0.00
Other	14.00	6.63	2.86	0.43	0.35	5.46	3.83
Miscellaneous Processes	294.65	32.56	12.43	32.42	11.72	736.10	375.99

TABLE A-10
(Concluded)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
On-Road Vehicles							
Light-Duty Passenger	151.63	137.95	1244.47	124.50	2.09	8.75	4.15
Light- and Medium-Duty Trucks	62.95	56.22	597.80	95.67	1.49	4.22	1.99
Heavy-Duty Gas Trucks	7.18	6.54	83.75	26.49	0.40	0.88	0.64
Heavy-Duty Diesel Trucks	16.69	16.22	156.11	148.14	11.36	8.23	7.04
Motorcycles	4.66	4.28	20.40	1.64	0.01	0.10	0.08
Heavy-Duty Diesel - Urban Bus	0.74	0.72	0.69	6.84	0.24	0.06	0.04
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	243.85	221.93	2103.22	403.28	15.59	22.24	13.94
Other Mobile							
Off-Road Vehicles	44.95	43.15	233.66	5.85	0.04	1.76	1.75
Commercial Boats	0.50	0.48	1.99	10.06	1.69	0.18	0.18
Trains	1.38	1.34	4.18	26.27	1.31	0.51	0.49
Ships	2.99	2.89	3.79	38.70	29.61	3.80	3.62
Aircraft - Government	3.45	2.94	9.04	3.28	0.12	0.77	0.75
Aircraft - Other	15.46	13.43	88.83	18.33	1.21	0.05	0.05
Mobile Equipment	46.20	44.53	894.35	126.46	3.46	8.85	8.51
Utility Equipment	12.04	11.56	126.72	1.87	0.01	0.29	0.29
Other Mobile	126.97	120.32	1362.56	230.82	37.45	16.21	15.64
Stationary and Area Sources	956.83	459.18	191.07	103.48	13.33	792.48	424.60
On-Road Vehicles	243.85	221.93	2103.22	403.28	15.59	22.24	13.94
Other Mobile	126.97	120.32	1362.56	230.82	37.45	16.21	15.64
Total - All Sources	1327.65	801.43	3656.85	737.58	66.37	830.93	454.18

TABLE A-11

Average Annual Day Emissions in the South Coast Air Basin
2007 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.04	0.03	0.00	0.00	0.00	0.01	0.01
Oil and Gas Production	3.99	0.56	1.62	1.88	0.01	0.05	0.05
Petroleum Refining	3.96	1.33	7.11	0.08	0.01	3.83	3.65
Other Manufacturing/Industrial	21.04	3.25	17.38	24.09	0.79	1.80	1.76
Electric Utilities	3.64	0.98	2.54	0.21	0.02	0.46	0.46
Other Service and Commerce	13.22	2.39	25.44	7.58	0.20	1.17	1.16
Residential	3.70	1.49	13.26	29.75	0.36	2.69	2.59
Other	1.48	0.46	4.70	0.79	0.06	0.37	0.37
Fuel Combustion	51.07	10.49	72.05	64.38	1.45	10.38	10.05
Waste Burning							
Agricultural Debris	0.02	0.01	0.16	0.00	0.00	0.02	0.02
Range Management	0.74	0.41	4.06	0.00	0.00	0.68	0.60
Forest Management	12.36	6.74	96.94	5.05	0.00	12.68	11.16
Incineration	0.32	0.05	0.20	0.40	0.05	0.26	0.13
Other	0.12	0.05	0.42	0.61	0.05	0.29	0.29
Waste Burning	13.56	7.26	101.78	6.06	0.10	13.93	12.20
Solvent Use							
Dry Cleaning	10.03	0.12	0.01	0.03	0.00	0.00	0.00
Degreasing	136.35	75.71	0.00	0.00	0.00	0.00	0.00
Architectural Coating	70.04	64.97	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	89.88	83.21	0.22	0.36	0.03	0.81	0.78
Asphalt Paving	0.54	0.54	0.00	0.00	0.00	0.00	0.00
Printing	6.73	6.73	0.01	0.05	0.00	0.04	0.04
Consumer Products	89.23	88.66	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	59.67	21.35	0.00	0.00	0.00	0.00	0.00
Other	9.04	4.25	0.00	0.00	0.00	0.02	0.02
Solvent Use	471.51	345.54	0.24	0.44	0.03	0.87	0.84

TABLE A-11
(Continued)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	19.54	11.69	0.00	0.00	0.00	0.00	0.00
Petroleum Refining	12.48	9.13	4.63	0.01	0.01	3.27	2.46
Petroleum Marketing	68.39	22.67	0.00	0.00	0.00	0.00	0.00
Other	2.60	2.19	0.00	0.02	0.00	0.03	0.03
Petroleum Process, Storage & Transfer	103.01	45.68	4.63	0.03	0.01	3.30	2.49
Industrial Processes							
Chemical	24.78	17.07	0.04	0.06	0.00	0.59	0.54
Food and Agricultural	4.99	4.07	0.01	0.06	0.00	11.78	11.50
Mineral Processes	1.86	1.65	0.93	0.03	0.00	1.49	1.07
Metal Processes	0.11	0.08	0.06	0.06	0.03	0.95	0.79
Wood and Paper	0.02	0.02	0.01	0.00	0.00	13.31	9.32
Other	1.71	1.20	0.00	0.00	0.00	0.07	0.05
Industrial Processes	33.47	24.09	1.05	0.21	0.03	28.19	23.27
Miscellaneous Processes							
Pesticide Application	12.25	12.25	0.00	0.00	0.00	0.00	0.00
Farming Operations	138.91	11.11	0.00	0.00	0.00	30.07	14.32
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	92.68	59.32
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	410.47	188.81
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	85.97	52.44
Unplanned Fires	0.93	0.65	9.69	0.24	0.00	1.00	0.98
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	108.49	54.24
Waste Disposal	130.00	2.05	0.00	0.00	0.00	5.42	3.79
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	0.00	0.00	31.76	11.37	0.00	0.00
Other	14.29	6.76	2.91	0.44	0.35	5.55	3.89
Miscellaneous Processes	296.38	32.82	12.60	32.44	11.72	739.65	377.79

TABLE A-11
(Concluded)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
On-Road Vehicles							
Light-Duty Passenger	137.54	125.29	1169.23	117.15	2.09	8.82	4.18
Light- and Medium-Duty Trucks	57.12	51.19	565.70	91.12	1.51	4.30	2.01
Heavy-Duty Gas Trucks	6.89	6.28	82.20	25.18	0.40	0.89	0.65
Heavy-Duty Diesel Trucks	16.78	16.31	161.73	148.09	11.61	8.09	6.88
Motorcycles	4.76	4.37	20.90	1.65	0.01	0.11	0.08
Heavy-Duty Diesel - Urban Bus	0.76	0.73	0.71	6.87	0.24	0.06	0.04
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	223.85	204.17	2000.47	390.06	15.86	22.27	13.84
Other Mobile							
Off-Road Vehicles	46.05	44.21	239.11	5.98	0.04	1.80	1.79
Commercial Boats	0.50	0.49	1.99	10.10	1.70	0.18	0.18
Trains	1.37	1.34	4.16	26.13	1.30	0.50	0.48
Ships	3.05	2.95	3.86	39.49	30.22	3.87	3.69
Aircraft - Government	3.45	2.94	9.04	3.28	0.12	0.77	0.75
Aircraft - Other	15.74	13.66	89.88	18.75	1.24	0.05	0.05
Mobile Equipment	46.49	44.81	900.23	121.65	3.48	8.87	8.53
Utility Equipment	12.24	11.75	128.81	1.90	0.01	0.30	0.30
Other Mobile	128.89	122.15	1377.08	227.28	38.11	16.34	15.77
Stationary and Area Sources	969.00	465.88	192.35	103.56	13.34	796.32	426.64
On-Road Vehicles	223.85	204.17	2000.47	390.06	15.86	22.27	13.84
Other Mobile	128.89	122.15	1377.08	227.28	38.11	16.34	15.77
Total - All Sources	1321.74	792.20	3569.90	720.90	67.31	834.93	456.25

TABLE A-12

Average Annual Day Emissions in the South Coast Air Basin
2008 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.03	0.03	0.00	0.00	0.00	0.01	0.01
Oil and Gas Production	3.99	0.56	1.62	1.86	0.01	0.05	0.05
Petroleum Refining	3.96	1.33	7.11	0.08	0.01	3.83	3.65
Other Manufacturing/Industrial	21.14	3.27	17.55	24.04	0.79	1.81	1.78
Electric Utilities	3.65	0.98	2.55	0.21	0.02	0.47	0.46
Other Service and Commerce	13.51	2.46	26.16	7.49	0.20	1.20	1.20
Residential	3.74	1.51	13.43	29.99	0.36	2.72	2.62
Other	1.50	0.47	4.76	0.72	0.06	0.38	0.37
Fuel Combustion	51.52	10.61	73.18	64.39	1.45	10.47	10.14
Waste Burning							
Agricultural Debris	0.02	0.01	0.16	0.00	0.00	0.02	0.02
Range Management	0.74	0.41	4.06	0.00	0.00	0.68	0.60
Forest Management	12.36	6.74	96.94	5.05	0.00	12.68	11.16
Incineration	0.32	0.05	0.20	0.41	0.05	0.26	0.13
Other	0.12	0.05	0.42	0.62	0.05	0.29	0.29
Waste Burning	13.56	7.26	101.78	6.08	0.10	13.93	12.20
Solvent Use							
Dry Cleaning	10.20	0.12	0.01	0.03	0.00	0.00	0.00
Degreasing	139.71	77.58	0.00	0.00	0.00	0.00	0.00
Architectural Coating	70.85	65.72	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	91.19	84.44	0.23	0.37	0.03	0.83	0.80
Asphalt Paving	0.54	0.54	0.00	0.00	0.00	0.00	0.00
Printing	6.92	6.92	0.01	0.05	0.00	0.04	0.04
Consumer Products	90.26	89.69	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	61.11	21.83	0.00	0.00	0.00	0.00	0.00
Other	9.22	4.33	0.00	0.00	0.00	0.02	0.02
Solvent Use	480.00	351.17	0.25	0.45	0.03	0.89	0.86

TABLE A-12
(Continued)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	19.55	11.70	0.00	0.00	0.00	0.00	0.00
Petroleum Refining	12.48	9.14	4.63	0.01	0.01	3.27	2.46
Petroleum Marketing	68.91	22.71	0.00	0.00	0.00	0.00	0.00
Other	2.62	2.20	0.00	0.02	0.00	0.03	0.03
Petroleum Process, Storage & Transfer	103.56	45.75	4.63	0.03	0.01	3.30	2.49
Industrial Processes							
Chemical	25.63	17.67	0.04	0.06	0.00	0.61	0.55
Food and Agricultural	4.99	4.07	0.01	0.06	0.00	11.75	11.48
Mineral Processes	1.87	1.66	0.94	0.03	0.00	1.49	1.07
Metal Processes	0.11	0.08	0.06	0.06	0.03	0.96	0.80
Wood and Paper	0.02	0.02	0.01	0.00	0.00	13.49	9.44
Other	1.76	1.24	0.00	0.00	0.00	0.07	0.05
Industrial Processes	34.38	24.74	1.06	0.21	0.03	28.37	23.39
Miscellaneous Processes							
Pesticide Application	12.39	12.39	0.00	0.00	0.00	0.00	0.00
Farming Operations	138.74	11.10	0.00	0.00	0.00	30.01	14.29
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	93.49	59.83
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	413.18	190.06
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	85.97	52.44
Unplanned Fires	0.94	0.66	9.79	0.24	0.00	1.00	0.99
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	108.49	54.24
Waste Disposal	131.59	2.07	0.00	0.00	0.00	5.48	3.84
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOx/SOx RECLAIM	0.00	0.00	0.00	31.76	11.37	0.00	0.00
Other	14.60	6.88	2.97	0.45	0.35	5.63	3.94
Miscellaneous Processes	298.26	33.10	12.76	32.45	11.72	743.25	379.63

TABLE A-12
(Concluded)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
On-Road Vehicles							
Light-Duty Passenger	125.03	114.08	1102.17	110.76	2.10	8.88	4.18
Light- and Medium-Duty Trucks	52.47	47.15	548.46	87.26	1.54	4.39	2.05
Heavy-Duty Gas Trucks	6.60	6.01	80.64	24.08	0.41	0.90	0.66
Heavy-Duty Diesel Trucks	16.96	16.49	167.81	148.81	11.88	8.02	6.79
Motorcycles	4.86	4.47	21.43	1.66	0.01	0.11	0.09
Heavy-Duty Diesel - Urban Bus	0.77	0.75	0.72	6.84	0.25	0.06	0.03
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	206.69	188.95	1921.23	379.41	16.19	22.36	13.80
Other Mobile							
Off-Road Vehicles	47.16	45.27	244.58	6.11	0.04	1.85	1.84
Commercial Boats	0.50	0.49	2.00	10.14	1.70	0.19	0.18
Trains	1.37	1.33	4.14	25.99	1.30	0.50	0.48
Ships	3.12	3.01	3.94	40.27	30.83	3.95	3.76
Aircraft - Government	3.45	2.94	9.04	3.28	0.12	0.77	0.75
Aircraft - Other	16.01	13.90	90.98	19.16	1.26	0.05	0.05
Mobile Equipment	46.79	45.10	906.44	122.19	3.50	8.90	8.56
Utility Equipment	12.41	11.91	130.58	1.93	0.01	0.30	0.30
Other Mobile	130.81	123.95	1391.70	229.07	38.76	16.51	15.92
Stationary and Area Sources	981.28	472.63	193.66	103.61	13.34	800.21	428.71
On-Road Vehicles	206.69	188.95	1921.23	379.41	16.19	22.36	13.80
Other Mobile	130.81	123.95	1391.70	229.07	38.76	16.51	15.92
Total - All Sources	1318.78	785.53	3506.59	712.09	68.29	839.08	458.43

TABLE A-13

Average Annual Day Emissions in the South Coast Air Basin
2010 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.04	0.03	0.00	0.00	0.00	0.01	0.01
Oil and Gas Production	3.99	0.56	1.62	1.84	0.01	0.05	0.05
Petroleum Refining	3.96	1.33	7.11	0.08	0.01	3.83	3.65
Other Manufacturing/Industrial	21.38	3.31	17.90	23.95	0.79	1.84	1.80
Electric Utilities	3.67	0.98	2.56	0.19	0.02	0.47	0.47
Other Service and Commerce	14.08	2.58	27.62	7.27	0.21	1.25	1.25
Residential	3.82	1.55	13.78	30.50	0.37	2.78	2.68
Other	1.53	0.48	4.88	0.58	0.06	0.38	0.38
Fuel Combustion	52.47	10.82	75.47	64.41	1.47	10.61	10.29
Waste Burning							
Agricultural Debris	0.02	0.01	0.16	0.00	0.00	0.02	0.02
Range Management	0.75	0.41	4.07	0.00	0.00	0.68	0.60
Forest Management	12.36	6.74	96.94	5.05	0.00	12.68	11.16
Incineration	0.33	0.05	0.21	0.42	0.05	0.27	0.13
Other	0.12	0.06	0.44	0.64	0.05	0.30	0.30
Waste Burning	13.58	7.27	101.82	6.11	0.10	13.95	12.21
Solvent Use							
Dry Cleaning	10.54	0.13	0.01	0.03	0.00	0.00	0.00
Degreasing	146.40	81.30	0.00	0.00	0.00	0.00	0.00
Architectural Coating	72.58	67.32	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	93.74	86.83	0.24	0.38	0.03	0.87	0.84
Asphalt Paving	0.55	0.55	0.00	0.00	0.00	0.00	0.00
Printing	7.29	7.29	0.02	0.05	0.00	0.04	0.04
Consumer Products	92.31	91.72	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	64.02	22.80	0.00	0.00	0.00	0.00	0.00
Other	9.60	4.49	0.00	0.00	0.00	0.02	0.02
Solvent Use	497.03	362.43	0.27	0.46	0.03	0.93	0.90

TABLE A-13
(Continued)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	19.55	11.70	0.00	0.00	0.00	0.00	0.00
Petroleum Refining	12.50	9.16	4.63	0.01	0.01	3.27	2.46
Petroleum Marketing	69.96	22.81	0.00	0.00	0.00	0.00	0.00
Other	2.68	2.24	0.00	0.02	0.00	0.03	0.03
Petroleum Process, Storage & Transfer	104.69	45.91	4.63	0.03	0.01	3.30	2.49
Industrial Processes							
Chemical	27.34	18.86	0.04	0.06	0.00	0.65	0.58
Food and Agricultural	4.98	4.05	0.01	0.06	0.00	11.72	11.44
Mineral Processes	1.90	1.68	0.95	0.03	0.00	1.50	1.07
Metal Processes	0.12	0.08	0.06	0.07	0.03	0.98	0.82
Wood and Paper	0.02	0.02	0.01	0.00	0.00	13.86	9.70
Other	1.87	1.32	0.00	0.00	0.00	0.08	0.05
Industrial Processes	36.23	26.01	1.07	0.22	0.03	28.79	23.66
Miscellaneous Processes							
Pesticide Application	12.66	12.66	0.00	0.00	0.00	0.00	0.00
Farming Operations	138.34	11.07	0.00	0.00	0.00	29.87	14.23
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	95.07	60.85
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	418.54	192.53
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	85.97	52.44
Unplanned Fires	0.96	0.67	10.02	0.24	0.00	1.02	1.00
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	108.49	54.24
Waste Disposal	134.64	2.10	0.00	0.00	0.00	5.61	3.93
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOx/SOx RECLAIM	0.00	0.00	0.00	31.76	11.37	0.00	0.00
Other	15.22	7.13	3.07	0.46	0.36	5.79	4.06
Miscellaneous Processes	301.82	33.63	13.09	32.46	11.73	750.36	383.28

TABLE A-13
(Concluded)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
On-Road Vehicles							
Light-Duty Passenger	105.18	96.38	999.08	100.18	2.13	9.08	4.25
Light- and Medium-Duty Trucks	44.28	40.03	527.21	81.30	1.61	4.59	2.14
Heavy-Duty Gas Trucks	6.11	5.56	79.24	22.28	0.42	0.92	0.67
Heavy-Duty Diesel Trucks	17.62	17.12	180.60	153.08	12.49	7.96	6.68
Motorcycles	5.09	4.68	22.55	1.70	0.01	0.11	0.09
Heavy-Duty Diesel - Urban Bus	0.81	0.79	0.76	6.83	0.25	0.06	0.03
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	179.09	164.56	1809.44	365.37	16.91	22.72	13.86
Other Mobile							
Off-Road Vehicles	49.48	47.51	256.04	6.39	0.04	1.94	1.92
Commercial Boats	0.51	0.49	2.00	10.22	1.71	0.19	0.18
Trains	1.35	1.31	4.10	25.70	1.28	0.49	0.47
Ships	3.24	3.13	4.09	41.84	32.05	4.10	3.91
Aircraft - Government	3.45	2.94	9.04	3.28	0.12	0.77	0.75
Aircraft - Other	16.57	14.37	93.12	19.99	1.32	0.05	0.05
Mobile Equipment	46.77	45.07	918.49	119.16	3.53	8.85	8.50
Utility Equipment	4.79	4.60	48.06	1.15	0.01	0.17	0.17
Other Mobile	126.16	119.42	1334.94	227.73	40.06	16.56	15.95
Stationary and Area Sources	1005.82	486.07	196.35	103.69	13.37	807.94	432.83
On-Road Vehicles	179.09	164.56	1809.44	365.37	16.91	22.72	13.86
Other Mobile	126.16	119.42	1334.94	227.73	40.06	16.56	15.95
Total - All Sources	1311.07	770.05	3340.73	696.79	70.34	847.22	462.64

TABLE A-14

Average Annual Day Emissions in the South Coast Air Basin
2020 Baseline Year (Tons per Day)

Source Category	TOG	VOC	CO	NOx	SOx	TSP	PM10
Fuel Combustion							
Agricultural	0.03	0.03	0.00	0.00	0.00	0.01	0.01
Oil and Gas Production	3.99	0.56	1.62	1.84	0.01	0.05	0.05
Petroleum Refining	3.96	1.33	7.11	0.08	0.01	3.83	3.65
Other Manufacturing/Industrial	22.56	3.53	19.51	23.42	0.76	1.98	1.94
Electric Utilities	3.74	1.00	2.61	0.19	0.02	0.52	0.52
Other Service and Commerce	17.03	3.26	35.92	8.85	0.27	1.56	1.56
Residential	4.46	1.80	16.20	35.07	0.43	3.26	3.14
Other	1.65	0.53	5.42	0.62	0.06	0.40	0.40
Fuel Combustion	57.42	12.04	88.39	70.07	1.56	11.61	11.27
Waste Burning							
Agricultural Debris	0.02	0.01	0.16	0.00	0.00	0.02	0.01
Range Management	0.69	0.37	3.74	0.00	0.00	0.63	0.55
Forest Management	12.36	6.74	96.94	5.05	0.00	12.68	11.16
Incineration	0.35	0.05	0.23	0.47	0.05	0.29	0.14
Other	0.13	0.06	0.49	0.70	0.06	0.34	0.34
Waste Burning	13.55	7.23	101.56	6.22	0.11	13.96	12.20
Solvent Use							
Dry Cleaning	12.02	0.13	0.01	0.03	0.00	0.00	0.00
Degreasing	182.97	101.59	0.00	0.00	0.00	0.00	0.00
Architectural Coating	83.80	77.73	0.00	0.00	0.00	0.00	0.00
Other Surface Coating	115.48	107.15	0.30	0.47	0.04	1.09	1.05
Asphalt Paving	0.57	0.57	0.00	0.00	0.00	0.00	0.00
Printing	9.33	9.33	0.02	0.07	0.00	0.05	0.05
Consumer Products	104.81	104.15	0.00	0.00	0.00	0.00	0.00
Industrial Solvent Use	79.97	28.24	0.00	0.00	0.00	0.00	0.00
Other	11.53	5.27	0.00	0.00	0.00	0.02	0.02
Solvent Use	600.48	434.16	0.33	0.57	0.04	1.16	1.12

TABLE A-14
(Continued)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
Petroleum Process, Storage & Transfer							
Oil and Gas Extraction	19.56	11.71	0.00	0.00	0.00	0.00	0.00
Petroleum Refining	12.55	9.21	4.63	0.01	0.01	3.27	2.46
Petroleum Marketing	73.35	26.10	0.00	0.00	0.00	0.00	0.00
Other	2.94	2.43	0.00	0.02	0.00	0.05	0.04
Petroleum Process, Storage & Transfer	108.40	49.45	4.63	0.03	0.01	3.32	2.50
Industrial Processes							
Chemical	37.19	25.74	0.05	0.09	0.00	0.85	0.76
Food and Agricultural	4.79	3.90	0.01	0.05	0.00	11.29	11.01
Mineral Processes	1.95	1.72	1.02	0.03	0.00	1.50	1.10
Metal Processes	0.13	0.09	0.07	0.08	0.04	1.10	0.92
Wood and Paper	0.03	0.02	0.01	0.00	0.00	15.09	10.56
Other	2.48	1.74	0.01	0.00	0.00	0.08	0.06
Industrial Processes	46.57	33.21	1.17	0.25	0.04	29.91	24.41
Miscellaneous Processes							
Pesticide Application	13.96	13.96	0.00	0.00	0.00	0.00	0.00
Farming Operations	131.13	10.49	0.00	0.00	0.00	28.59	13.62
Construction and Demolition	0.00	0.00	0.00	0.00	0.00	98.74	63.20
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00	0.00	439.94	202.37
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00	0.00	85.97	52.44
Unplanned Fires	1.08	0.76	11.51	0.28	0.00	1.11	1.10
Fugitive Windblown Dust	0.00	0.00	0.00	0.00	0.00	108.49	54.24
Waste Disposal	152.18	2.27	0.00	0.00	0.00	6.35	4.44
Natural Sources	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	0.00	0.00	31.76	11.37	0.00	0.00
Other	18.61	8.51	3.71	0.55	0.38	6.78	4.75
Miscellaneous Processes	316.96	35.99	15.22	32.59	11.75	775.97	396.16

TABLE A-14
(Concluded)

Source Category	TOG	VOC	CO	NO _x	SO _x	TSP	PM ₁₀
On-Road Vehicles							
Light-Duty Passenger	60.38	56.60	767.64	82.12	2.37	10.30	4.78
Light- and Medium-Duty Trucks	31.38	28.80	590.38	87.11	2.02	5.80	2.69
Heavy-Duty Gas Trucks	4.54	4.11	86.56	17.94	0.42	0.93	0.68
Heavy-Duty Diesel Trucks	20.14	19.57	225.00	172.61	14.35	8.40	6.95
Motorcycles	6.16	5.66	27.96	1.99	0.01	0.13	0.10
Heavy-Duty Diesel - Urban Bus	0.85	0.83	0.81	6.92	0.25	0.05	0.03
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
On-Road Vehicles	123.45	115.57	1698.35	368.69	19.42	25.61	15.23
Other Mobile							
Off-Road Vehicles	58.71	56.36	302.60	7.63	0.05	2.31	2.29
Commercial Boats	0.51	0.49	2.00	10.22	1.71	0.19	0.18
Trains	1.22	1.19	3.70	23.26	1.17	0.45	0.43
Ships	4.00	3.87	5.03	51.54	39.60	5.05	4.82
Aircraft - Government	3.45	2.94	9.04	3.28	0.12	0.77	0.75
Aircraft - Other	16.58	14.38	93.12	19.99	1.32	0.05	0.05
Mobile Equipment	48.88	47.10	970.78	122.11	3.58	8.97	8.63
Utility Equipment	5.41	5.19	54.31	1.30	0.01	0.19	0.19
Other Mobile	138.76	131.52	1440.58	239.33	47.56	17.98	17.34
Stationary and Area Sources	1143.38	572.08	211.30	109.73	13.51	835.93	447.66
On-Road Vehicles	123.45	115.57	1698.35	368.69	19.42	25.61	15.23
Other Mobile	138.76	131.52	1440.58	239.33	47.56	17.98	17.34
Total - All Sources	1405.59	819.17	3350.23	717.75	80.49	879.52	480.23

ATTACHMENT B

PLANNING EMISSIONS SUMMARY BY MAJOR SOURCE CATEGORY

TABLE B-1

Planning Emissions Inventory for the South Coast Air Basin
1987 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.56	0.01	0.56
Oil and Gas Production	0.81	18.64	3.28	18.64
Petroleum Refining	1.70	46.44	6.98	46.43
Other Manufacturing/Industrial	3.77	57.80	20.86	56.14
Electric Utilities	1.81	37.10	7.92	37.67
Other Service and Commerce	3.14	27.77	20.11	27.76
Residential	0.72	20.87	16.16	36.55
Other	0.52	1.80	10.00	1.84
Fuel Combustion	12.47	210.98	85.32	225.59
Waste Burning				
Agricultural Debris	0.01	0.00	0.22	0.00
Range Management	0.33	0.00	4.96	0.00
Forest Management	0.44	0.33	27.96	1.46
Incineration	0.02	1.10	0.14	1.10
Other	0.35	0.70	0.18	0.72
Waste Burning	1.15	2.13	33.46	3.28
Solvent Use				
Dry Cleaning	0.78	0.03	0.00	0.03
Degreasing	101.91	0.04	0.00	0.04
Architectural Coating	65.21	0.00	0.00	0.00
Other Surface Coating	316.15	0.47	0.19	0.47
Asphalt Paving	0.57	0.00	0.00	0.00
Printing	7.22	0.04	0.01	0.04
Consumer Products	101.94	0.00	0.00	0.00
Industrial Solvent Use	14.03	0.00	0.00	0.00
Other	2.36	0.00	0.00	0.00
Solvent Use	610.17	0.58	0.20	0.58

TABLE B-1
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	38.77	0.32	0.03	0.32
Petroleum Refining	23.98	7.76	5.45	7.76
Petroleum Marketing	40.95	0.23	0.03	0.23
Other	1.66	0.02	0.50	0.02
Petroleum Process, Storage & Transfer	105.36	8.33	6.01	8.33
Industrial Processes				
Chemical	22.24	1.33	0.45	1.35
Food and Agricultural	4.94	0.18	0.05	0.18
Mineral Processes	0.51	6.33	1.53	5.95
Metal Processes	0.65	0.67	1.05	0.67
Wood and Paper	0.07	0.02	0.00	0.02
Other	10.45	0.14	0.01	0.14
Industrial Processes	38.86	8.67	3.09	8.31
Miscellaneous Processes				
Pesticide Application	12.46	0.00	0.00	0.00
Farming Operations	9.94	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.54	0.19	7.73	0.19
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	2.04	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	0.00	0.00	0.00
Other	21.10	9.85	5.82	9.43
Miscellaneous Processes	46.08	10.04	13.55	9.62

TABLE B-1
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	592.21	366.27	4877.30	401.44
Light- and Medium-Duty Trucks	252.04	182.95	2051.28	200.94
Heavy-Duty Gas Trucks	69.16	57.63	589.43	55.29
Heavy-Duty Diesel Trucks	19.86	133.35	70.27	133.35
Motorcycles	9.85	1.60	27.01	1.76
Heavy-Duty Diesel - Urban Bus	0.70	8.26	1.03	8.26
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	943.82	750.06	7616.32	801.04
Other Mobile				
Off-Road Vehicles	40.83	4.29	156.90	3.10
Commercial Boats	0.48	10.29	2.04	10.29
Trains	1.37	28.41	4.27	28.41
Ships	2.39	33.77	3.15	33.77
Aircraft - Government	5.17	2.42	13.51	2.59
Aircraft - Other	9.76	12.23	67.61	11.56
Mobile Equipment	63.09	268.14	1219.21	267.91
Utility Equipment	27.74	1.01	183.83	0.79
Other Mobile	150.83	360.56	1650.52	358.42
Stationary and Area Sources	814.09	240.73	141.63	255.71
On-Road Vehicles	943.82	750.06	7616.32	801.04
Other Mobile	150.83	360.56	1650.52	358.42
Total - All Sources	1908.74	1351.35	9408.47	1415.17

TABLE B-2

Planning Emissions Inventory for the South Coast Air Basin
1990 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.01	0.07	0.03	0.07
Oil and Gas Production	0.68	12.45	2.53	12.46
Petroleum Refining	1.44	35.87	11.06	35.85
Other Manufacturing/Industrial	4.00	55.46	30.66	55.01
Electric Utilities	1.23	26.73	5.89	22.49
Other Service and Commerce	4.14	32.11	33.19	32.62
Residential	0.75	21.85	17.11	38.22
Other	2.05	17.38	19.64	18.51
Fuel Combustion	14.30	201.92	120.11	215.23
Waste Burning				
Agricultural Debris	0.01	0.00	0.21	0.00
Range Management	0.33	0.00	5.03	0.00
Forest Management	0.43	0.33	27.39	1.43
Incineration	0.16	1.23	0.74	1.23
Other	0.38	0.96	1.69	0.96
Waste Burning	1.31	2.52	35.06	3.62
Solvent Use				
Dry Cleaning	0.56	0.06	0.01	0.06
Degreasing	102.24	0.09	0.03	0.09
Architectural Coating	65.89	0.00	0.00	0.00
Other Surface Coating	237.66	0.82	0.53	0.82
Asphalt Paving	0.60	0.00	0.00	0.00
Printing	15.11	0.07	0.02	0.07
Consumer Products	109.38	0.00	0.00	0.00
Industrial Solvent Use	12.51	0.07	0.02	0.07
Other	3.22	0.04	0.02	0.04
Solvent Use	547.17	1.15	0.63	1.15

TABLE B-2
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	43.45	0.13	0.33	0.17
Petroleum Refining	22.09	4.63	3.74	4.63
Petroleum Marketing	41.15	0.06	0.02	0.06
Other	3.05	0.19	0.56	0.19
Petroleum Process, Storage & Transfer	109.74	5.01	4.65	5.05
Industrial Processes				
Chemical	20.40	0.71	0.51	0.71
Food and Agricultural	8.00	0.38	0.16	0.38
Mineral Processes	0.59	5.42	1.20	5.32
Metal Processes	1.20	1.00	1.55	1.00
Wood and Paper	0.11	0.03	0.01	0.03
Other	10.11	0.14	0.03	0.14
Industrial Processes	40.41	7.68	3.46	7.58
Miscellaneous Processes				
Pesticide Application	12.86	0.00	0.00	0.00
Farming Operations	13.17	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.56	0.20	8.11	0.20
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	2.14	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	0.00	0.00	0.00
Other	4.09	1.40	0.50	1.40
Miscellaneous Processes	32.82	1.60	8.61	1.60

TABLE B-2
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	510.84	359.23	4692.12	394.12
Light- and Medium-Duty Trucks	235.98	213.78	2213.81	234.95
Heavy-Duty Gas Trucks	47.60	55.62	324.06	52.52
Heavy-Duty Diesel Trucks	32.62	229.98	130.41	229.98
Motorcycles	5.13	1.28	19.49	1.41
Heavy-Duty Diesel - Urban Bus	0.67	8.61	0.86	8.61
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	832.84	868.50	7380.75	921.59
Other Mobile				
Off-Road Vehicles	44.95	4.69	171.25	3.37
Commercial Boats	0.50	10.63	2.11	10.63
Trains	1.48	30.58	4.60	30.58
Ships	2.46	34.88	3.25	34.88
Aircraft - Government	4.84	2.23	14.32	2.34
Aircraft - Other	10.12	12.68	70.46	11.94
Mobile Equipment	67.56	287.35	1305.08	287.13
Utility Equipment	22.78	0.84	152.19	0.66
Other Mobile	154.69	383.88	1723.26	381.53
Stationary and Area Sources	745.75	219.88	172.52	234.23
On-Road Vehicles	832.84	868.50	7380.75	921.59
Other Mobile	154.69	383.88	1723.26	381.53
Total - All Sources	1733.28	1472.26	9276.53	1537.35

TABLE B-3

Planning Emissions Inventory for the South Coast Air Basin
1993 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.00	0.00	0.00
Oil and Gas Production	0.56	8.86	1.64	8.86
Petroleum Refining	1.35	20.14	7.39	20.14
Other Manufacturing/Industrial	3.12	38.63	16.74	38.63
Electric Utilities	2.59	22.03	7.01	22.03
Other Service and Commerce	1.97	18.46	21.12	18.46
Residential	0.77	21.87	17.69	36.72
Other	0.52	4.15	4.84	4.15
Fuel Combustion	10.88	134.14	76.43	148.99
Waste Burning				
Agricultural Debris	0.01	0.00	0.22	0.00
Range Management	0.35	0.00	5.31	0.00
Forest Management	0.44	0.33	27.96	1.46
Incineration	0.04	1.40	0.17	1.40
Other	0.08	0.64	0.41	0.64
Waste Burning	0.92	2.37	34.07	3.50
Solvent Use				
Dry Cleaning	0.12	0.02	0.01	0.02
Degreasing	64.40	0.00	0.00	0.00
Architectural Coating	66.40	0.00	0.00	0.00
Other Surface Coating	90.47	0.27	0.16	0.27
Asphalt Paving	0.51	0.00	0.00	0.00
Printing	6.91	0.03	0.01	0.03
Consumer Products	104.66	0.00	0.00	0.00
Industrial Solvent Use	26.15	0.00	0.00	0.00
Other	5.02	0.00	0.00	0.00
Solvent Use	364.64	0.32	0.18	0.32

TABLE B-3
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	13.75	0.00	0.00	0.00
Petroleum Refining	11.42	7.62	4.63	7.62
Petroleum Marketing	31.21	0.00	0.00	0.00
Other	2.16	0.02	0.00	0.02
Petroleum Process, Storage & Transfer	58.54	7.64	4.63	7.64
Industrial Processes				
Chemical	14.09	0.47	0.03	0.47
Food and Agricultural	5.36	0.06	0.02	0.06
Mineral Processes	1.64	5.44	0.77	5.44
Metal Processes	0.07	0.14	0.05	0.14
Wood and Paper	0.01	0.01	0.01	0.01
Other	1.20	0.01	0.00	0.01
Industrial Processes	22.37	6.13	0.88	6.13
Miscellaneous Processes				
Pesticide Application	12.62	0.00	0.00	0.00
Farming Operations	12.15	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.58	0.21	8.42	0.21
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	2.21	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	0.00	0.00	0.00
Other	6.44	0.96	2.26	0.96
Miscellaneous Processes	34.00	1.17	10.68	1.17

TABLE B-3
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	400.17	317.86	3759.28	348.33
Light- and Medium-Duty Trucks	188.46	207.07	1803.79	227.04
Heavy-Duty Gas Trucks	26.07	51.92	203.91	48.78
Heavy-Duty Diesel Trucks	28.09	188.76	123.13	188.76
Motorcycles	4.13	1.33	17.49	1.46
Heavy-Duty Diesel - Urban Bus	0.66	8.00	0.77	8.00
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	647.58	774.94	5908.37	822.37
Other Mobile				
Off-Road Vehicles	44.93	4.65	172.52	3.35
Commercial Boats	0.48	9.52	2.02	9.52
Trains	1.50	29.19	4.66	29.19
Ships	2.32	31.15	3.06	31.15
Aircraft - Government	2.99	3.34	10.42	3.56
Aircraft - Other	10.86	13.84	73.40	13.06
Mobile Equipment	58.21	203.98	1156.55	203.76
Utility Equipment	16.91	0.64	115.18	0.50
Other Mobile	138.20	296.31	1537.81	294.09
Stationary and Area Sources	491.35	151.77	126.87	167.75
On-Road Vehicles	647.58	774.94	5908.37	822.37
Other Mobile	138.20	296.31	1537.81	294.09
Total - All Sources	1277.13	1223.02	7573.05	1284.21

TABLE B-4

Planning Emissions Inventory for the South Coast Air Basin
1997 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.00	0.00	0.00
Oil and Gas Production	0.56	1.98	1.64	1.98
Petroleum Refining	1.34	0.12	7.19	0.12
Other Manufacturing/Industrial	3.22	24.81	17.05	24.81
Electric Utilities	1.95	0.64	5.29	0.64
Other Service and Commerce	2.12	7.88	21.92	7.88
Residential	0.77	21.55	18.09	34.84
Other	0.48	1.45	4.69	1.45
Fuel Combustion	10.44	58.43	75.87	71.72
Waste Burning				
Agricultural Debris	0.01	0.00	0.22	0.00
Range Management	0.35	0.00	5.24	0.00
Forest Management	1.87	1.40	117.82	6.13
Incineration	0.04	0.36	0.18	0.36
Other	0.07	0.67	0.43	0.67
Waste Burning	2.34	2.43	123.89	7.16
Solvent Use				
Dry Cleaning	0.13	0.02	0.01	0.02
Degreasing	68.97	0.00	0.00	0.00
Architectural Coating	68.20	0.00	0.00	0.00
Other Surface Coating	88.23	0.29	0.18	0.29
Asphalt Paving	0.57	0.00	0.00	0.00
Printing	6.82	0.03	0.01	0.03
Consumer Products	95.94	0.00	0.00	0.00
Industrial Solvent Use	27.43	0.00	0.00	0.00
Other	5.21	0.00	0.00	0.00
Solvent Use	361.50	0.34	0.20	0.34

TABLE B-4
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	13.21	0.00	0.00	0.00
Petroleum Refining	10.56	0.01	4.63	0.01
Petroleum Marketing	22.24	0.00	0.00	0.00
Other	2.19	0.03	0.00	0.03
Petroleum Process, Storage & Transfer	48.20	0.04	4.63	0.04
Industrial Processes				
Chemical	16.51	0.06	0.03	0.06
Food and Agricultural	4.16	0.06	0.02	0.06
Mineral Processes	1.61	0.04	0.84	0.04
Metal Processes	0.08	0.08	0.05	0.08
Wood and Paper	0.01	0.00	0.01	0.00
Other	1.28	0.00	0.00	0.00
Industrial Processes	23.65	0.24	0.95	0.24
Miscellaneous Processes				
Pesticide Application	12.34	0.00	0.00	0.00
Farming Operations	12.05	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.59	0.21	8.66	0.21
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	2.00	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	80.96	0.00	80.96
Other	6.99	0.48	2.48	0.48
Miscellaneous Processes	33.97	81.65	11.14	81.65

TABLE B-4
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	266.18	221.90	2532.60	242.70
Light- and Medium-Duty Trucks	117.74	152.18	1270.41	166.35
Heavy-Duty Gas Trucks	11.17	39.80	118.07	37.14
Heavy-Duty Diesel Trucks	21.12	169.54	119.11	169.59
Motorcycles	3.55	1.42	17.00	1.56
Heavy-Duty Diesel - Urban Bus	0.63	7.59	0.64	7.60
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	420.39	592.43	4057.83	624.94
Other Mobile				
Off-Road Vehicles	45.19	5.33	162.15	3.84
Commercial Boats	0.47	9.69	1.93	9.69
Trains	1.42	27.79	4.44	27.79
Ships	2.44	32.75	3.21	32.75
Aircraft - Government	2.97	3.34	9.76	3.56
Aircraft - Other	11.81	15.59	77.42	14.72
Mobile Equipment	55.41	206.30	1139.26	206.07
Utility Equipment	15.40	1.47	119.52	1.15
Other Mobile	135.11	302.26	1517.69	299.57
Stationary and Area Sources	480.10	143.13	216.68	161.15
On-Road Vehicles	420.39	592.43	4057.83	624.94
Other Mobile	135.11	302.26	1517.69	299.57
Total - All Sources	1035.60	1037.82	5792.20	1085.66

TABLE B-5

Planning Emissions Inventory for the South Coast Air Basin
1999 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.00	0.00	0.00
Oil and Gas Production	0.56	1.98	1.64	1.98
Petroleum Refining	1.34	0.12	7.19	0.12
Other Manufacturing/Industrial	3.31	25.13	17.56	25.13
Electric Utilities	1.41	0.47	3.82	0.47
Other Service and Commerce	2.26	8.29	23.49	8.29
Residential	0.77	21.56	18.41	34.46
Other	0.49	1.50	4.88	1.50
Fuel Combustion	10.14	59.05	76.99	71.95
Waste Burning				
Agricultural Debris	0.01	0.00	0.22	0.00
Range Management	0.35	0.00	5.20	0.00
Forest Management	2.66	1.99	167.73	8.73
Incineration	0.04	0.37	0.19	0.37
Other	0.07	0.70	0.45	0.70
Waste Burning	3.13	3.06	173.79	9.80
Solvent Use				
Dry Cleaning	0.13	0.03	0.01	0.03
Degreasing	63.02	0.00	0.00	0.00
Architectural Coating	69.48	0.00	0.00	0.00
Other Surface Coating	85.93	0.31	0.19	0.31
Asphalt Paving	0.60	0.00	0.00	0.00
Printing	6.24	0.04	0.01	0.04
Consumer Products	87.25	0.00	0.00	0.00
Industrial Solvent Use	24.04	0.00	0.00	0.00
Other	4.43	0.00	0.00	0.00
Solvent Use	341.12	0.38	0.21	0.38

TABLE B-5
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	12.19	0.00	0.00	0.00
Petroleum Refining	9.61	0.01	4.63	0.01
Petroleum Marketing	22.50	0.00	0.00	0.00
Other	2.21	0.03	0.00	0.03
Petroleum Process, Storage & Transfer	46.51	0.04	4.63	0.04
Industrial Processes				
Chemical	18.17	0.06	0.03	0.06
Food and Agricultural	4.19	0.06	0.02	0.06
Mineral Processes	1.63	0.04	0.88	0.04
Metal Processes	0.08	0.08	0.06	0.08
Wood and Paper	0.01	0.00	0.01	0.00
Other	1.39	0.00	0.00	0.00
Industrial Processes	25.47	0.24	1.00	0.24
Miscellaneous Processes				
Pesticide Application	11.87	0.00	0.00	0.00
Farming Operations	11.98	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.60	0.21	8.82	0.21
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	1.92	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	56.64	0.00	56.64
Other	7.35	0.50	2.64	0.50
Miscellaneous Processes	33.72	57.35	11.46	57.35

TABLE B-5
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	230.78	193.19	2167.25	211.07
Light- and Medium-Duty Trucks	98.81	137.16	1107.34	149.66
Heavy-Duty Gas Trucks	9.41	36.45	99.20	33.94
Heavy-Duty Diesel Trucks	18.31	160.22	119.80	160.22
Motorcycles	3.58	1.46	17.14	1.61
Heavy-Duty Diesel - Urban Bus	0.62	7.37	0.61	7.37
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	361.51	535.85	3511.34	563.87
Other Mobile				
Off-Road Vehicles	44.55	5.67	167.12	4.08
Commercial Boats	0.48	9.78	1.94	9.78
Trains	1.37	26.87	4.28	26.87
Ships	2.50	33.56	3.29	33.56
Aircraft - Government	2.97	3.34	9.76	3.56
Aircraft - Other	12.30	16.48	79.57	15.56
Mobile Equipment	57.35	196.03	1175.54	195.81
Utility Equipment	15.80	1.51	122.58	1.18
Other Mobile	137.32	293.24	1564.08	290.40
Stationary and Area Sources	460.09	120.12	268.08	139.76
On-Road Vehicles	361.51	535.85	3511.34	563.87
Other Mobile	137.32	293.24	1564.08	290.40
Total - All Sources	958.92	949.21	5343.50	994.03

TABLE B-6

Planning Emissions Inventory for the South Coast Air Basin
2000 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.00	0.00	0.00
Oil and Gas Production	0.56	1.98	1.64	1.98
Petroleum Refining	1.34	0.12	7.19	0.12
Other Manufacturing/Industrial	3.35	25.32	17.81	25.32
Electric Utilities	0.88	0.29	2.37	0.29
Other Service and Commerce	2.33	8.50	24.26	8.50
Residential	0.77	21.56	18.57	34.26
Other	0.50	1.52	4.97	1.52
Fuel Combustion	9.73	59.29	76.81	71.99
Waste Burning				
Agricultural Debris	0.01	0.00	0.22	0.00
Range Management	0.34	0.00	5.17	0.00
Forest Management	3.09	2.31	194.32	10.11
Incineration	0.05	0.37	0.19	0.37
Other	0.06	0.71	0.46	0.71
Waste Burning	3.55	3.39	200.36	11.19
Solvent Use				
Dry Cleaning	0.13	0.03	0.01	0.03
Degreasing	64.83	0.00	0.00	0.00
Architectural Coating	70.09	0.00	0.00	0.00
Other Surface Coating	88.39	0.32	0.19	0.32
Asphalt Paving	0.62	0.00	0.00	0.00
Printing	6.45	0.04	0.01	0.04
Consumer Products	88.31	0.00	0.00	0.00
Industrial Solvent Use	24.58	0.00	0.00	0.00
Other	4.54	0.00	0.00	0.00
Solvent Use	347.94	0.39	0.21	0.39

TABLE B-6
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	11.68	0.00	0.00	0.00
Petroleum Refining	9.14	0.01	4.63	0.01
Petroleum Marketing	22.63	0.00	0.00	0.00
Other	2.20	0.03	0.00	0.03
Petroleum Process, Storage & Transfer	45.65	0.04	4.63	0.04
Industrial Processes				
Chemical	18.99	0.07	0.03	0.07
Food and Agricultural	4.21	0.06	0.02	0.06
Mineral Processes	1.64	0.04	0.90	0.04
Metal Processes	0.08	0.08	0.06	0.08
Wood and Paper	0.01	0.00	0.01	0.00
Other	1.44	0.00	0.00	0.00
Industrial Processes	26.37	0.25	1.02	0.25
Miscellaneous Processes				
Pesticide Application	12.01	0.00	0.00	0.00
Farming Operations	11.95	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.61	0.22	8.90	0.22
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	1.94	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	45.18	0.00	45.18
Other	7.52	0.51	2.71	0.51
Miscellaneous Processes	34.03	45.91	11.61	45.91

TABLE B-6
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	214.16	180.96	2018.99	197.65
Light- and Medium-Duty Trucks	90.22	128.93	1048.71	140.59
Heavy-Duty Gas Trucks	8.60	35.06	91.52	32.63
Heavy-Duty Diesel Trucks	17.19	155.85	120.79	155.85
Motorcycles	3.60	1.48	17.24	1.63
Heavy-Duty Diesel - Urban Bus	0.62	7.33	0.61	7.33
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	334.39	509.61	3297.86	535.68
Other Mobile				
Off-Road Vehicles	45.92	5.84	172.06	4.20
Commercial Boats	0.48	9.82	1.94	9.82
Trains	1.35	26.42	4.21	26.42
Ships	2.53	33.96	3.33	33.96
Aircraft - Government	2.97	3.34	9.76	3.56
Aircraft - Other	12.54	16.93	80.63	15.98
Mobile Equipment	57.62	199.34	1174.98	199.11
Utility Equipment	11.97	1.94	102.69	1.52
Other Mobile	135.38	297.59	1549.60	294.57
Stationary and Area Sources	467.27	109.27	294.64	129.77
On-Road Vehicles	334.39	509.61	3297.86	535.68
Other Mobile	135.38	297.59	1549.60	294.57
Total - All Sources	937.04	916.47	5142.10	960.02

TABLE B-7

Planning Emissions Inventory for the South Coast Air Basin
2002 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.00	0.00	0.00
Oil and Gas Production	0.56	1.96	1.64	1.96
Petroleum Refining	1.34	0.12	7.19	0.12
Other Manufacturing/Industrial	3.39	25.17	18.13	25.17
Electric Utilities	0.91	0.28	2.47	0.28
Other Service and Commerce	2.48	8.47	25.85	8.47
Residential	0.79	22.09	19.12	34.79
Other	0.52	1.37	5.12	1.37
Fuel Combustion	9.99	59.46	79.52	72.16
Waste Burning				
Agricultural Debris	0.01	0.00	0.21	0.00
Range Management	0.34	0.00	5.05	0.00
Forest Management	3.51	2.63	220.94	11.50
Incineration	0.05	0.39	0.19	0.39
Other	0.06	0.73	0.47	0.73
Waste Burning	3.97	3.75	226.86	12.62
Solvent Use				
Dry Cleaning	0.13	0.03	0.01	0.03
Degreasing	67.84	0.00	0.00	0.00
Architectural Coating	71.98	0.00	0.00	0.00
Other Surface Coating	90.84	0.34	0.20	0.34
Asphalt Paving	0.64	0.00	0.00	0.00
Printing	6.92	0.04	0.01	0.04
Consumer Products	90.50	0.00	0.00	0.00
Industrial Solvent Use	25.53	0.00	0.00	0.00
Other	4.78	0.00	0.00	0.00
Solvent Use	359.16	0.41	0.22	0.41

TABLE B-7
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	11.69	0.00	0.00	0.00
Petroleum Refining	9.16	0.01	4.63	0.01
Petroleum Marketing	22.77	0.00	0.00	0.00
Other	2.27	0.03	0.00	0.03
Petroleum Process, Storage & Transfer	45.89	0.04	4.63	0.04
Industrial Processes				
Chemical	20.19	0.07	0.03	0.07
Food and Agricultural	4.17	0.06	0.01	0.06
Mineral Processes	1.67	0.04	0.92	0.04
Metal Processes	0.09	0.09	0.06	0.09
Wood and Paper	0.02	0.00	0.01	0.00
Other	1.52	0.00	0.00	0.00
Industrial Processes	27.66	0.26	1.03	0.26
Miscellaneous Processes				
Pesticide Application	12.24	0.00	0.00	0.00
Farming Operations	11.63	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.62	0.22	9.12	0.22
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	1.97	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	37.08	0.00	37.08
Other	7.83	0.53	2.83	0.53
Miscellaneous Processes	34.29	37.83	11.95	37.83

TABLE B-7
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	186.41	156.72	1774.54	171.15
Light- and Medium-Duty Trucks	76.80	112.99	935.12	123.01
Heavy-Duty Gas Trucks	7.71	33.21	84.79	30.85
Heavy-Duty Diesel Trucks	16.51	151.87	132.22	151.87
Motorcycles	3.80	1.51	18.24	1.67
Heavy-Duty Diesel - Urban Bus	0.65	7.14	0.63	7.14
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	291.88	463.44	2945.54	485.69
Other Mobile				
Off-Road Vehicles	45.54	6.17	177.58	4.43
Commercial Boats	0.48	9.90	1.95	9.90
Trains	1.35	26.42	4.21	26.42
Ships	2.65	35.53	3.48	35.53
Aircraft - Government	2.97	3.34	9.76	3.56
Aircraft - Other	13.02	17.81	82.78	16.82
Mobile Equipment	58.77	180.79	1198.20	180.55
Utility Equipment	12.27	1.99	105.29	1.56
Other Mobile	137.05	281.95	1583.25	278.77
Stationary and Area Sources	480.96	101.75	324.21	123.32
On-Road Vehicles	291.88	463.44	2945.54	485.69
Other Mobile	137.05	281.95	1583.25	278.77
Total - All Sources	909.89	847.14	4853.00	887.78

TABLE B-8

Planning Emissions Inventory for the South Coast Air Basin
2003 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.00	0.00	0.00
Oil and Gas Production	0.56	1.94	1.64	1.94
Petroleum Refining	1.34	0.12	7.19	0.12
Other Manufacturing/Industrial	3.41	25.10	18.28	25.10
Electric Utilities	0.93	0.28	2.53	0.28
Other Service and Commerce	2.54	8.41	26.63	8.41
Residential	0.80	22.35	19.39	35.05
Other	0.53	1.30	5.20	1.30
Fuel Combustion	10.11	59.50	80.86	72.20
Waste Burning				
Agricultural Debris	0.01	0.00	0.21	0.00
Range Management	0.33	0.00	4.99	0.00
Forest Management	3.51	2.63	220.94	11.50
Incineration	0.05	0.39	0.20	0.39
Other	0.06	0.74	0.48	0.74
Waste Burning	3.96	3.76	226.82	12.63
Solvent Use				
Dry Cleaning	0.13	0.03	0.01	0.03
Degreasing	69.34	0.00	0.00	0.00
Architectural Coating	72.89	0.00	0.00	0.00
Other Surface Coating	91.97	0.34	0.21	0.34
Asphalt Paving	0.65	0.00	0.00	0.00
Printing	7.17	0.04	0.01	0.04
Consumer Products	91.59	0.00	0.00	0.00
Industrial Solvent Use	26.01	0.00	0.00	0.00
Other	4.90	0.00	0.00	0.00
Solvent Use	364.65	0.41	0.23	0.41

TABLE B-8
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	11.69	0.00	0.00	0.00
Petroleum Refining	9.17	0.01	4.63	0.01
Petroleum Marketing	22.83	0.00	0.00	0.00
Other	2.30	0.03	0.00	0.03
Petroleum Process, Storage & Transfer	45.99	0.04	4.63	0.04
Industrial Processes				
Chemical	20.78	0.07	0.03	0.07
Food and Agricultural	4.15	0.06	0.01	0.06
Mineral Processes	1.68	0.04	0.92	0.04
Metal Processes	0.09	0.09	0.06	0.09
Wood and Paper	0.02	0.00	0.01	0.00
Other	1.56	0.00	0.00	0.00
Industrial Processes	28.28	0.26	1.03	0.26
Miscellaneous Processes				
Pesticide Application	12.36	0.00	0.00	0.00
Farming Operations	11.47	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.62	0.22	9.24	0.22
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	1.99	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	33.03	0.00	33.03
Other	7.99	0.54	2.89	0.54
Miscellaneous Processes	34.43	33.79	12.13	33.79

TABLE B-8
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	172.39	145.98	1659.44	159.42
Light- and Medium-Duty Trucks	70.15	106.73	864.93	116.11
Heavy-Duty Gas Trucks	7.53	31.91	82.67	29.60
Heavy-Duty Diesel Trucks	16.30	150.23	138.07	150.23
Motorcycles	3.89	1.52	18.74	1.68
Heavy-Duty Diesel - Urban Bus	0.67	7.01	0.65	7.01
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	270.93	443.38	2764.50	464.05
Other Mobile				
Off-Road Vehicles	46.83	6.33	182.37	4.55
Commercial Boats	0.48	9.94	1.96	9.94
Trains	1.35	26.42	4.21	26.42
Ships	2.71	36.31	3.56	36.31
Aircraft - Government	2.97	3.34	9.76	3.56
Aircraft - Other	13.26	18.26	83.84	17.24
Mobile Equipment	59.35	182.48	1209.92	182.24
Utility Equipment	12.42	2.01	106.58	1.57
Other Mobile	139.37	285.09	1602.20	281.83
Stationary and Area Sources	487.42	97.76	325.70	119.33
On-Road Vehicles	270.93	443.38	2764.50	464.05
Other Mobile	139.37	285.09	1602.20	281.83
Total - All Sources	897.72	826.23	4692.40	865.21

TABLE B-9

Planning Emissions Inventory for the South Coast Air Basin
2005 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.00	0.00	0.00
Oil and Gas Production	0.56	1.91	1.64	1.91
Petroleum Refining	1.34	0.11	7.19	0.11
Other Manufacturing/Industrial	3.45	24.94	18.59	24.94
Electric Utilities	0.98	0.27	2.66	0.27
Other Service and Commerce	2.69	8.27	28.20	8.27
Residential	0.82	22.88	19.94	35.58
Other	0.54	1.15	5.36	1.15
Fuel Combustion	10.38	59.53	83.58	72.23
Waste Burning				
Agricultural Debris	0.01	0.00	0.20	0.00
Range Management	0.32	0.00	4.87	0.00
Forest Management	3.51	2.63	220.94	11.50
Incineration	0.05	0.41	0.20	0.41
Other	0.07	0.76	0.49	0.76
Waste Burning	3.96	3.80	226.70	12.67
Solvent Use				
Dry Cleaning	0.14	0.03	0.01	0.03
Degreasing	72.35	0.00	0.00	0.00
Architectural Coating	74.73	0.00	0.00	0.00
Other Surface Coating	94.25	0.36	0.22	0.36
Asphalt Paving	0.67	0.00	0.00	0.00
Printing	7.63	0.04	0.01	0.04
Consumer Products	86.67	0.00	0.00	0.00
Industrial Solvent Use	26.96	0.00	0.00	0.00
Other	5.13	0.00	0.00	0.00
Solvent Use	368.53	0.43	0.24	0.43

TABLE B-9
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	11.69	0.00	0.00	0.00
Petroleum Refining	9.19	0.01	4.63	0.01
Petroleum Marketing	22.95	0.00	0.00	0.00
Other	2.36	0.03	0.00	0.03
Petroleum Process, Storage & Transfer	46.19	0.04	4.63	0.04
Industrial Processes				
Chemical	21.98	0.08	0.04	0.08
Food and Agricultural	4.11	0.06	0.01	0.06
Mineral Processes	1.70	0.04	0.94	0.04
Metal Processes	0.09	0.09	0.06	0.09
Wood and Paper	0.02	0.00	0.01	0.00
Other	1.63	0.00	0.00	0.00
Industrial Processes	29.53	0.27	1.06	0.27
Miscellaneous Processes				
Pesticide Application	12.59	0.00	0.00	0.00
Farming Operations	11.15	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.64	0.23	9.46	0.23
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	2.02	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	33.03	0.00	33.03
Other	8.29	0.57	3.00	0.57
Miscellaneous Processes	34.69	33.83	12.46	33.83

TABLE B-9
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	145.72	127.54	1448.99	139.29
Light- and Medium-Duty Trucks	58.78	97.31	704.25	105.78
Heavy-Duty Gas Trucks	7.04	28.80	79.96	26.65
Heavy-Duty Diesel Trucks	16.15	148.16	149.85	148.16
Motorcycles	4.09	1.55	19.74	1.71
Heavy-Duty Diesel - Urban Bus	0.70	6.85	0.68	6.85
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	232.48	410.21	2403.47	428.44
Other Mobile				
Off-Road Vehicles	48.71	6.66	191.25	4.79
Commercial Boats	0.49	10.02	1.97	10.02
Trains	1.35	26.42	4.21	26.42
Ships	2.83	37.92	3.71	37.92
Aircraft - Government	2.97	3.34	9.76	3.56
Aircraft - Other	13.75	19.14	85.99	18.08
Mobile Equipment	60.50	166.69	1233.26	166.49
Utility Equipment	12.72	2.06	109.14	1.61
Other Mobile	143.32	272.25	1639.29	268.89
Stationary and Area Sources	493.28	97.90	328.67	119.47
On-Road Vehicles	232.48	410.21	2403.47	428.44
Other Mobile	143.32	272.25	1639.29	268.89
Total - All Sources	869.08	780.36	4371.43	816.80

TABLE B-10

Planning Emissions Inventory for the South Coast Air Basin
2006 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.00	0.00	0.00
Oil and Gas Production	0.56	1.90	1.64	1.90
Petroleum Refining	1.34	0.11	7.19	0.11
Other Manufacturing/Industrial	3.48	24.90	18.80	24.90
Electric Utilities	1.00	0.27	2.70	0.27
Other Service and Commerce	2.76	8.18	29.10	8.18
Residential	0.83	23.15	20.21	35.83
Other	0.55	1.08	5.42	1.08
Fuel Combustion	10.52	59.59	85.06	72.27
Waste Burning				
Agricultural Debris	0.01	0.00	0.20	0.00
Range Management	0.32	0.00	4.87	0.00
Forest Management	3.51	2.63	220.94	11.50
Incineration	0.05	0.41	0.20	0.41
Other	0.07	0.77	0.50	0.77
Waste Burning	3.96	3.81	226.71	12.68
Solvent Use				
Dry Cleaning	0.14	0.03	0.01	0.03
Degreasing	74.22	0.00	0.00	0.00
Architectural Coating	75.66	0.00	0.00	0.00
Other Surface Coating	95.76	0.37	0.22	0.37
Asphalt Paving	0.68	0.00	0.00	0.00
Printing	7.88	0.05	0.01	0.05
Consumer Products	87.70	0.00	0.00	0.00
Industrial Solvent Use	27.62	0.00	0.00	0.00
Other	5.22	0.00	0.00	0.00
Solvent Use	374.88	0.45	0.24	0.45

TABLE B-10
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	11.69	0.00	0.00	0.00
Petroleum Refining	9.20	0.01	4.63	0.01
Petroleum Marketing	23.00	0.00	0.00	0.00
Other	2.39	0.03	0.00	0.03
Petroleum Process, Storage & Transfer	46.28	0.04	4.63	0.04
Industrial Processes				
Chemical	22.81	0.08	0.04	0.08
Food and Agricultural	4.11	0.06	0.01	0.06
Mineral Processes	1.71	0.04	0.94	0.04
Metal Processes	0.09	0.09	0.06	0.09
Wood and Paper	0.02	0.00	0.01	0.00
Other	1.69	0.00	0.00	0.00
Industrial Processes	30.43	0.27	1.06	0.27
Miscellaneous Processes				
Pesticide Application	12.74	0.00	0.00	0.00
Farming Operations	11.14	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.64	0.23	9.57	0.23
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	2.03	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	33.03	0.00	33.03
Other	8.45	0.58	3.06	0.58
Miscellaneous Processes	35.00	33.84	12.63	33.84

TABLE B-10
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	134.16	119.89	1355.96	130.94
Light- and Medium-Duty Trucks	54.38	92.33	662.03	100.33
Heavy-Duty Gas Trucks	6.80	27.35	78.86	25.28
Heavy-Duty Diesel Trucks	16.22	148.14	156.10	148.14
Motorcycles	4.19	1.57	20.27	1.73
Heavy-Duty Diesel - Urban Bus	0.72	6.84	0.69	6.84
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	216.47	396.12	2273.91	413.26
Other Mobile				
Off-Road Vehicles	49.88	6.81	195.59	4.89
Commercial Boats	0.49	10.06	1.97	10.06
Trains	1.34	26.27	4.18	26.27
Ships	2.89	38.70	3.79	38.70
Aircraft - Government	2.97	3.34	9.76	3.56
Aircraft - Other	13.99	19.59	87.09	18.50
Mobile Equipment	60.89	167.48	1241.78	167.28
Utility Equipment	12.97	2.10	111.26	1.64
Other Mobile	145.42	274.35	1655.42	270.90
Stationary and Area Sources	501.07	98.00	330.33	119.55
On-Road Vehicles	216.47	396.12	2273.91	413.26
Other Mobile	145.42	274.35	1655.42	270.90
Total - All Sources	862.96	768.47	4259.66	803.71

TABLE B-11

Planning Emissions Inventory for the South Coast Air Basin
2007 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.00	0.00	0.00
Oil and Gas Production	0.56	1.89	1.64	1.89
Petroleum Refining	1.34	0.11	7.19	0.11
Other Manufacturing/Industrial	3.50	24.87	19.00	24.87
Electric Utilities	0.99	0.25	2.67	0.25
Other Service and Commerce	2.84	8.07	30.00	8.07
Residential	0.84	23.41	20.48	36.08
Other	0.56	0.99	5.49	0.99
Fuel Combustion	10.63	59.59	86.47	72.26
Waste Burning				
Agricultural Debris	0.01	0.00	0.20	0.00
Range Management	0.32	0.00	4.87	0.00
Forest Management	3.51	2.63	220.94	11.50
Incineration	0.05	0.42	0.21	0.42
Other	0.07	0.78	0.51	0.78
Waste Burning	3.96	3.83	226.73	12.70
Solvent Use				
Dry Cleaning	0.14	0.03	0.01	0.03
Degreasing	76.09	0.00	0.00	0.00
Architectural Coating	76.61	0.00	0.00	0.00
Other Surface Coating	97.23	0.38	0.23	0.38
Asphalt Paving	0.68	0.00	0.00	0.00
Printing	8.11	0.05	0.01	0.05
Consumer Products	88.66	0.00	0.00	0.00
Industrial Solvent Use	28.26	0.00	0.00	0.00
Other	5.32	0.00	0.00	0.00
Solvent Use	381.10	0.46	0.25	0.46

TABLE B-11
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	11.70	0.00	0.00	0.00
Petroleum Refining	9.20	0.01	4.63	0.01
Petroleum Marketing	23.05	0.00	0.00	0.00
Other	2.42	0.03	0.00	0.03
Petroleum Process, Storage & Transfer	46.37	0.04	4.63	0.04
Industrial Processes				
Chemical	23.63	0.08	0.04	0.08
Food and Agricultural	4.11	0.06	0.01	0.06
Mineral Processes	1.72	0.04	0.95	0.04
Metal Processes	0.09	0.09	0.06	0.09
Wood and Paper	0.02	0.00	0.01	0.00
Other	1.74	0.00	0.00	0.00
Industrial Processes	31.31	0.27	1.07	0.27
Miscellaneous Processes				
Pesticide Application	12.88	0.00	0.00	0.00
Farming Operations	11.11	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.65	0.24	9.69	0.24
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	2.05	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	33.03	0.00	33.03
Other	8.61	0.59	3.11	0.59
Miscellaneous Processes	35.30	33.86	12.80	33.86

TABLE B-11
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	122.20	112.81	1266.93	123.22
Light- and Medium-Duty Trucks	49.49	87.95	623.76	95.56
Heavy-Duty Gas Trucks	6.55	26.01	77.41	24.01
Heavy-Duty Diesel Trucks	16.31	148.09	161.73	148.09
Motorcycles	4.28	1.58	20.74	1.74
Heavy-Duty Diesel - Urban Bus	0.73	6.87	0.71	6.87
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	199.56	383.31	2151.28	399.49
Other Mobile				
Off-Road Vehicles	51.11	6.96	200.14	5.00
Commercial Boats	0.49	10.10	1.97	10.10
Trains	1.34	26.13	4.16	26.13
Ships	2.95	39.49	3.86	39.49
Aircraft - Government	2.97	3.34	9.76	3.56
Aircraft - Other	14.24	20.03	88.15	18.92
Mobile Equipment	61.26	161.34	1249.93	161.15
Utility Equipment	13.19	2.13	113.10	1.67
Other Mobile	147.55	269.52	1671.07	266.02
Stationary and Area Sources	508.67	98.05	331.95	119.59
On-Road Vehicles	199.56	383.31	2151.28	399.49
Other Mobile	147.55	269.52	1671.07	266.02
Total - All Sources	855.78	750.88	4154.30	785.10

TABLE B-12

Planning Emissions Inventory for the South Coast Air Basin
2008 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.00	0.00	0.00
Oil and Gas Production	0.56	1.87	1.64	1.87
Petroleum Refining	1.34	0.10	7.19	0.10
Other Manufacturing/Industrial	3.53	24.82	19.19	24.82
Electric Utilities	0.99	0.24	2.68	0.24
Other Service and Commerce	2.91	7.94	30.89	7.94
Residential	0.85	23.67	20.75	36.32
Other	0.56	0.91	5.56	0.91
Fuel Combustion	10.74	59.55	87.90	72.20
Waste Burning				
Agricultural Debris	0.01	0.00	0.20	0.00
Range Management	0.32	0.00	4.88	0.00
Forest Management	3.51	2.63	220.94	11.50
Incineration	0.05	0.42	0.21	0.42
Other	0.07	0.79	0.51	0.79
Waste Burning	3.96	3.84	226.74	12.71
Solvent Use				
Dry Cleaning	0.14	0.03	0.01	0.03
Degreasing	77.96	0.00	0.00	0.00
Architectural Coating	77.50	0.00	0.00	0.00
Other Surface Coating	98.65	0.39	0.23	0.39
Asphalt Paving	0.69	0.00	0.00	0.00
Printing	8.34	0.05	0.01	0.05
Consumer Products	89.69	0.00	0.00	0.00
Industrial Solvent Use	28.89	0.00	0.00	0.00
Other	5.43	0.00	0.00	0.00
Solvent Use	387.29	0.47	0.25	0.47

TABLE B-12
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	11.70	0.00	0.00	0.00
Petroleum Refining	9.21	0.01	4.63	0.01
Petroleum Marketing	23.09	0.00	0.00	0.00
Other	2.44	0.03	0.00	0.03
Petroleum Process, Storage & Transfer	46.44	0.04	4.63	0.04
Industrial Processes				
Chemical	24.46	0.09	0.04	0.09
Food and Agricultural	4.11	0.06	0.01	0.06
Mineral Processes	1.73	0.04	0.96	0.04
Metal Processes	0.09	0.09	0.06	0.09
Wood and Paper	0.02	0.00	0.01	0.00
Other	1.80	0.00	0.00	0.00
Industrial Processes	32.21	0.28	1.08	0.28
Miscellaneous Processes				
Pesticide Application	13.02	0.00	0.00	0.00
Farming Operations	11.10	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.66	0.24	9.79	0.24
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	2.07	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	33.03	0.00	33.03
Other	8.78	0.60	3.17	0.60
Miscellaneous Processes	35.63	33.87	12.96	33.87

TABLE B-12
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	111.88	106.65	1187.40	116.50
Light- and Medium-Duty Trucks	45.84	84.24	601.40	91.47
Heavy-Duty Gas Trucks	6.28	24.89	75.94	22.95
Heavy-Duty Diesel Trucks	16.48	148.81	167.80	148.81
Motorcycles	4.38	1.60	21.24	1.76
Heavy-Duty Diesel - Urban Bus	0.75	6.84	0.72	6.84
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	185.61	373.03	2054.50	388.33
Other Mobile				
Off-Road Vehicles	52.34	7.11	204.71	5.11
Commercial Boats	0.49	10.14	1.98	10.14
Trains	1.33	25.99	4.14	25.99
Ships	3.01	40.27	3.94	40.27
Aircraft - Government	2.97	3.34	9.76	3.56
Aircraft - Other	14.48	20.47	89.25	19.34
Mobile Equipment	61.65	162.09	1258.54	161.89
Utility Equipment	13.37	2.16	114.65	1.69
Other Mobile	149.64	271.57	1686.97	267.99
Stationary and Area Sources	516.27	98.05	333.56	119.57
On-Road Vehicles	185.61	373.03	2054.50	388.33
Other Mobile	149.64	271.57	1686.97	267.99
Total - All Sources	851.52	742.65	4075.03	775.89

TABLE B-13

Planning Emissions Inventory for the South Coast Air Basin
2010 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.00	0.00	0.00
Oil and Gas Production	0.56	1.85	1.64	1.85
Petroleum Refining	1.34	0.10	7.19	0.10
Other Manufacturing/Industrial	3.58	24.75	19.60	24.75
Electric Utilities	0.99	0.22	2.70	0.22
Other Service and Commerce	3.06	7.65	32.68	7.65
Residential	0.87	24.20	21.28	36.80
Other	0.58	0.74	5.69	0.74
Fuel Combustion	10.98	59.51	90.78	72.11
Waste Burning				
Agricultural Debris	0.01	0.00	0.20	0.00
Range Management	0.33	0.00	4.89	0.00
Forest Management	3.51	2.63	220.94	11.50
Incineration	0.05	0.44	0.22	0.44
Other	0.07	0.80	0.53	0.80
Waste Burning	3.97	3.87	226.78	12.74
Solvent Use				
Dry Cleaning	0.15	0.03	0.01	0.03
Degreasing	81.69	0.00	0.00	0.00
Architectural Coating	79.38	0.00	0.00	0.00
Other Surface Coating	101.43	0.40	0.24	0.40
Asphalt Paving	0.70	0.00	0.00	0.00
Printing	8.78	0.05	0.02	0.05
Consumer Products	91.72	0.00	0.00	0.00
Industrial Solvent Use	30.18	0.00	0.00	0.00
Other	5.63	0.00	0.00	0.00
Solvent Use	399.66	0.48	0.27	0.48

TABLE B-13
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	11.70	0.00	0.00	0.00
Petroleum Refining	9.23	0.02	4.63	0.02
Petroleum Marketing	23.20	0.00	0.00	0.00
Other	2.49	0.03	0.00	0.03
Petroleum Process, Storage & Transfer	46.62	0.05	4.63	0.05
Industrial Processes				
Chemical	26.12	0.09	0.04	0.09
Food and Agricultural	4.09	0.06	0.01	0.06
Mineral Processes	1.75	0.04	0.97	0.04
Metal Processes	0.10	0.10	0.07	0.10
Wood and Paper	0.02	0.00	0.01	0.00
Other	1.90	0.00	0.00	0.00
Industrial Processes	33.98	0.29	1.10	0.29
Miscellaneous Processes				
Pesticide Application	13.32	0.00	0.00	0.00
Farming Operations	11.07	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.67	0.24	10.02	0.24
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	2.10	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	33.03	0.00	33.03
Other	9.11	0.63	3.28	0.63
Miscellaneous Processes	36.27	33.90	13.30	33.90

TABLE B-13
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	95.18	96.49	1063.18	105.35
Light- and Medium-Duty Trucks	39.41	78.54	571.78	85.17
Heavy-Duty Gas Trucks	5.84	23.04	74.49	21.21
Heavy-Duty Diesel Trucks	17.12	153.08	180.60	153.08
Motorcycles	4.58	1.63	22.29	1.80
Heavy-Duty Diesel - Urban Bus	0.79	6.83	0.76	6.83
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	162.92	359.61	1913.10	373.44
Other Mobile				
Off-Road Vehicles	54.93	7.43	214.27	5.34
Commercial Boats	0.49	10.22	1.99	10.22
Trains	1.31	25.70	4.10	25.70
Ships	3.13	41.84	4.09	41.84
Aircraft - Government	2.97	3.34	9.76	3.56
Aircraft - Other	14.97	21.36	91.40	20.18
Mobile Equipment	61.65	158.29	1275.24	158.09
Utility Equipment	5.16	1.29	42.19	1.01
Other Mobile	144.61	269.47	1643.04	265.94
Stationary and Area Sources	531.48	98.10	336.86	119.57
On-Road Vehicles	162.92	359.61	1913.10	373.44
Other Mobile	144.61	269.47	1643.04	265.94
Total - All Sources	839.01	727.18	3893.00	758.95

TABLE B-14

Planning Emissions Inventory for the South Coast Air Basin
2020 Baseline Year (Tons per Day)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Fuel Combustion				
Agricultural	0.00	0.00	0.00	0.00
Oil and Gas Production	0.56	1.85	1.64	1.85
Petroleum Refining	1.34	0.10	7.19	0.10
Other Manufacturing/Industrial	3.84	24.38	21.54	24.38
Electric Utilities	1.01	0.22	2.75	0.22
Other Service and Commerce	3.91	9.35	42.99	9.35
Residential	1.01	27.83	25.13	42.31
Other	0.63	0.78	6.27	0.78
Fuel Combustion	12.30	64.51	107.51	78.99
Waste Burning				
Agricultural Debris	0.01	0.00	0.19	0.00
Range Management	0.30	0.00	4.48	0.00
Forest Management	3.51	2.63	220.94	11.50
Incineration	0.05	0.49	0.24	0.49
Other	0.08	0.89	0.59	0.89
Waste Burning	3.95	4.01	226.44	12.88
Solvent Use				
Dry Cleaning	0.15	0.03	0.01	0.03
Degreasing	102.06	0.00	0.00	0.00
Architectural Coating	91.65	0.00	0.00	0.00
Other Surface Coating	124.95	0.50	0.30	0.50
Asphalt Paving	0.73	0.00	0.00	0.00
Printing	11.26	0.07	0.02	0.07
Consumer Products	104.15	0.00	0.00	0.00
Industrial Solvent Use	37.45	0.00	0.00	0.00
Other	6.62	0.00	0.00	0.00
Solvent Use	479.02	0.60	0.33	0.60

TABLE B-14
(Continued)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Petroleum Process, Storage & Transfer				
Oil and Gas Extraction	11.71	0.00	0.00	0.00
Petroleum Refining	9.30	0.02	4.63	0.02
Petroleum Marketing	26.53	0.00	0.00	0.00
Other	2.72	0.03	0.00	0.03
Petroleum Process, Storage & Transfer	50.26	0.05	4.63	0.05
Industrial Processes				
Chemical	35.67	0.13	0.05	0.13
Food and Agricultural	3.94	0.06	0.01	0.06
Mineral Processes	1.80	0.04	1.04	0.04
Metal Processes	0.11	0.12	0.07	0.12
Wood and Paper	0.02	0.00	0.01	0.00
Other	2.52	0.00	0.01	0.00
Industrial Processes	44.06	0.35	1.19	0.35
Miscellaneous Processes				
Pesticide Application	14.71	0.00	0.00	0.00
Farming Operations	10.49	0.00	0.00	0.00
Construction and Demolition	0.00	0.00	0.00	0.00
Entrained Road Dust - Paved	0.00	0.00	0.00	0.00
Entrained Road Dust - Unpaved	0.00	0.00	0.00	0.00
Unplanned Fires	0.76	0.28	11.51	0.28
Fugitive Windblown Dust	0.00	0.00	0.00	0.00
Waste Disposal	2.27	0.00	0.00	0.00
Natural Sources	0.00	0.00	0.00	0.00
NO _x /SO _x RECLAIM	0.00	33.03	0.00	33.03
Other	10.92	0.74	3.92	0.74
Miscellaneous Processes	39.15	34.05	15.43	34.05

TABLE B-14
(Concluded)

Source Category	Summer		Winter	
	VOC	NO _x	CO	NO ₂
On-Road Vehicles				
Light-Duty Passenger	58.00	79.18	772.27	86.23
Light- and Medium-Duty Trucks	28.83	84.22	624.67	91.16
Heavy-Duty Gas Trucks	4.35	18.59	80.72	17.03
Heavy-Duty Diesel Trucks	19.57	172.61	225.00	172.61
Motorcycles	5.56	1.91	27.32	2.11
Heavy-Duty Diesel - Urban Bus	0.83	6.92	0.81	6.92
Other	0.00	0.00	0.00	0.00
On-Road Vehicles	117.14	363.43	1730.79	376.06
Other Mobile				
Off-Road Vehicles	65.19	8.88	253.19	6.38
Commercial Boats	0.49	10.22	1.99	10.22
Trains	1.19	23.26	3.70	23.26
Ships	3.87	51.54	5.03	51.54
Aircraft - Government	2.97	3.34	9.76	3.56
Aircraft - Other	14.98	21.36	91.40	20.18
Mobile Equipment	64.43	162.07	1347.94	161.82
Utility Equipment	5.83	1.46	47.68	1.14
Other Mobile	158.95	282.13	1760.69	278.10
Stationary and Area Sources	628.74	103.57	355.53	126.92
On-Road Vehicles	117.14	363.43	1730.79	376.06
Other Mobile	158.95	282.13	1760.69	278.10
Total - All Sources	904.83	749.13	3847.01	781.08

ATTACHMENT C

ON-ROAD MOBILE EMISSIONS BY VEHICLE CLASS

TABLE C-1

1993 Annual Average On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus		Heavy Gas Truck			Heavy Die. Motorcyc		TOTAL
Daily VMT (x 1000)	190679				70706				7354			362		7909			13595		291813
No. of Hot Trips	8670283				3220558				322655			0		0			0		12291027
No. of Cold Trips	12490161				4533872				480565			0		0			0		17557462
No. of Daily Trips	21160452				7754438				803228			0		0			0		29848507
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL	
Total Organic Gas Emissions																			
Running Exhaust	65.04	143.69	0.82	209.55	28.05	82.90	0.32	111.27	1.13	8.48	9.61	0.68	8.69	3.34	12.03	28.27	2.73	374.13	
Cold Start Exhaust	9.38	87.12	0.09	96.59	6.12	44.77	0.06	50.95	0.31	5.36	5.66	0.00	0.00	0.00	0.00	0.00	0.84	154.06	
Hot Start Exhaust	6.40	10.92	0.05	17.36	3.86	8.50	0.04	12.41	0.20	1.03	1.23	0.00	0.00	0.00	0.00	0.00	0.37	31.39	
Total Exhaust	80.82	241.73	0.96	323.51	38.03	136.17	0.42	174.62	1.63	14.87	16.51	0.68	8.69	3.34	12.03	28.27	3.95	559.57	
Diurnal Evaporation	25.72	52.58	0.00	78.31	11.83	20.76	0.00	32.59	0.55	1.40	1.95	0.00	11.90	0.74	12.64	0.00	0.40	125.88	
Resting Losses	0.89	22.10	0.00	23.00	1.52	8.11	0.00	9.62	0.07	0.71	0.79	0.00	0.00	0.00	0.00	0.00	0.00	33.41	
Hot Soak Evaporation	12.64	22.52	0.00	35.16	5.76	9.12	0.00	14.87	0.27	0.53	0.80	0.00	0.99	0.46	1.46	0.00	0.14	52.42	
Running Losses	5.17	33.05	0.00	38.22	1.76	9.21	0.00	10.97	0.07	0.84	0.90	0.00	1.03	0.43	1.46	0.00	0.00	51.55	
Total TOG Emission	125.25	371.99	0.96	498.19	58.90	183.36	0.42	242.68	2.59	18.35	20.95	0.68	22.61	4.97	27.59	28.27	4.48	822.83	
Reactive Organic Gas Emissions																			
Running Exhaust	59.51	118.98	0.80	179.28	25.66	68.64	0.31	94.61	1.03	7.02	8.06	0.66	7.95	2.77	10.72	27.47	2.49	323.29	
Cold Start Exhaust	8.58	72.14	0.09	80.81	5.60	37.07	0.06	42.73	0.28	4.44	4.72	0.00	0.00	0.00	0.00	0.00	0.78	129.03	
Hot Start Exhaust	5.86	9.04	0.05	14.94	3.54	7.04	0.04	10.62	0.18	0.85	1.03	0.00	0.00	0.00	0.00	0.00	0.35	26.94	
Total Exhaust	73.95	200.16	0.93	275.04	34.80	112.75	0.41	147.96	1.50	12.32	13.81	0.66	7.95	2.77	10.72	27.47	3.62	479.27	
Diurnal Evaporation	25.72	52.58	0.00	78.31	11.83	20.76	0.00	32.59	0.55	1.40	1.95	0.00	11.90	0.74	12.64	0.00	0.40	125.88	
Resting Losses	0.89	22.10	0.00	23.00	1.52	8.11	0.00	9.62	0.07	0.71	0.79	0.00	0.00	0.00	0.00	0.00	0.00	33.41	
Hot Soak Evaporation	12.64	22.52	0.00	35.16	5.76	9.12	0.00	14.87	0.27	0.53	0.80	0.00	0.99	0.46	1.46	0.00	0.14	52.42	
Running Losses	5.17	33.05	0.00	38.22	1.76	9.21	0.00	10.97	0.07	0.84	0.90	0.00	1.03	0.43	1.46	0.00	0.00	51.55	
Total ROG Emissions	118.38	330.41	0.93	449.72	55.67	159.93	0.41	216.01	2.46	15.79	18.25	0.66	21.87	4.40	26.28	27.47	4.15	742.52	
Carbon Monoxide Emissions																			
Running Exhaust	829.36	2560.24	2.92	3392.53	349.49	1344.87	1.14	1695.49	15.12	60.78	75.90	0.78	187.98	45.12	233.10	122.77	12.69	5533.26	
Cold Start Exhaust	46.81	912.39	0.84	960.04	31.70	462.93	0.33	494.96	1.65	42.73	44.38	0.00	0.00	0.00	0.00	0.00	4.38	1503.75	
Hot Start Exhaust	32.98	106.08	0.68	139.74	16.06	89.91	0.37	106.34	0.83	8.36	9.20	0.00	0.00	0.00	0.00	0.00	1.04	256.32	
Total Exhaust	909.15	3578.71	4.44	4492.30	397.25	1897.71	1.84	2296.80	17.60	111.86	129.48	0.78	187.98	45.12	233.10	122.77	18.12	7293.32	
Oxides of Nitrogen Emissions																			
Running Exhaust	29.83	283.58	4.01	317.43	12.44	175.86	1.51	189.81	0.56	23.19	23.74	8.56	24.69	26.19	50.88	196.85	1.37	788.65	
Cold Start Exhaust	0.59	37.82	0.05	38.47	0.22	19.24	0.07	19.53	0.01	2.48	2.50	0.00	0.00	0.00	0.00	0.00	0.04	60.52	
Hot Start Exhaust	0.80	10.92	0.03	11.75	0.46	7.74	0.08	8.26	0.03	1.00	1.02	0.00	0.00	0.00	0.00	0.00	0.07	21.12	
Total Exhaust	31.22	332.32	4.09	367.63	13.12	202.84	1.66	217.62	0.59	26.67	27.26	8.56	24.69	26.19	50.88	196.85	1.48	870.29	
Particulate Matter Emissions																			
Exhaust	0.26	1.05	0.84	2.15	0.10	0.46	0.41	0.98	0.01	0.04	0.06	0.12	0.19	0.27	0.47	18.80	0.05	22.63	
Tire Wear	0.29	6.44	0.09	6.81	0.11	2.38	0.04	2.52	0.00	0.26	0.26	0.03	0.15	0.22	0.37	1.17	0.03	11.21	
Total PM Emissions	0.55	7.49	0.93	8.97	0.22	2.84	0.45	3.51	0.01	0.30	0.30	0.15	0.35	0.49	0.83	19.97	0.10	33.83	
Fuel Consumed in 1000 Gallons																			
Gasoline	620.65			8104.85	281.65			3855.93	12.67		652.69		569.14		1374.63		23.11	14011.21	
Diesel				82.52				37.22				65.45				2378.11		2563.30	

TABLE C-2

1993 Summer On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus		Heavy Gas Truck		Heavy Die. Motorcyc		TOTAL
Daily VMT (x 1000)	190701				70719				7358			367		7915		13602		291845
No. of Hot Trips	8671121				3220887				322684			0		0		0		77521 12292225
No. of Cold Trips	12491358				4534332				480609			0		0		0		52848 17559157
No. of Daily Trips	21162484				7755226				803297			0		0		0		130375 29851396
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																		
Running Exhaust	63.02	146.53	0.82	210.36	27.23	84.96	0.32	112.51	1.10	8.70	9.80	0.68	8.83	3.42	12.25	28.27	2.77	376.65
Cold Start Exhaust	8.00	70.63	0.09	78.72	5.23	35.66	0.06	40.96	0.26	4.44	4.70	0.00	0.00	0.00	0.00	0.00	0.68	125.05
Hot Start Exhaust	5.72	9.08	0.05	14.84	3.46	6.96	0.04	10.47	0.18	0.88	1.05	0.00	0.00	0.00	0.00	0.00	0.40	26.78
Total Exhaust	76.74	226.23	0.96	303.92	35.92	127.58	0.42	163.92	1.53	14.02	15.56	0.68	8.83	3.42	12.25	28.27	3.86	528.48
Diurnal Evaporation	30.77	63.15	0.00	93.92	14.18	25.15	0.00	39.34	0.66	1.70	2.36	0.00	14.41	0.90	15.32	0.00	0.49	151.39
Resting Losses	0.83	18.84	0.00	19.67	1.29	6.94	0.00	8.23	0.06	0.60	0.67	0.00	0.00	0.00	0.00	0.00	0.00	28.57
Hot Soak Evaporation	10.53	18.75	0.00	29.28	4.82	7.61	0.00	12.43	0.22	0.44	0.67	0.00	0.83	0.39	1.23	0.00	0.12	43.71
Running Losses	3.92	29.70	0.00	33.62	1.34	7.84	0.00	9.17	0.05	0.78	0.82	0.00	0.81	0.43	1.24	0.00	0.00	44.86
Total TOG Emission	122.78	356.68	0.96	480.42	57.55	175.12	0.42	233.08	2.54	17.54	20.08	0.68	24.89	5.14	30.04	28.27	4.45	797.01
Reactive Organic Gas Emissions																		
Running Exhaust	57.66	121.33	0.80	179.78	24.92	70.35	0.31	95.58	1.00	7.21	8.21	0.66	8.08	2.83	10.91	27.48	2.53	325.14
Cold Start Exhaust	7.32	58.48	0.09	65.89	4.78	29.53	0.06	34.37	0.24	3.68	3.92	0.00	0.00	0.00	0.00	0.00	0.63	104.80
Hot Start Exhaust	5.23	7.52	0.05	12.80	3.17	5.76	0.04	8.97	0.16	0.73	0.89	0.00	0.00	0.00	0.00	0.00	0.38	23.03
Total Exhaust	70.21	187.32	0.93	258.47	32.87	105.64	0.41	138.91	1.41	11.61	13.02	0.66	8.08	2.83	10.91	27.48	3.53	452.98
Diurnal Evaporation	30.77	63.15	0.00	93.92	14.18	25.15	0.00	39.34	0.66	1.70	2.36	0.00	14.41	0.90	15.32	0.00	0.49	151.39
Resting Losses	0.83	18.84	0.00	19.67	1.29	6.94	0.00	8.23	0.06	0.60	0.67	0.00	0.00	0.00	0.00	0.00	0.00	28.57
Hot Soak Evaporation	10.53	18.75	0.00	29.28	4.82	7.61	0.00	12.43	0.22	0.44	0.67	0.00	0.83	0.39	1.23	0.00	0.12	43.71
Running Losses	3.92	29.70	0.00	33.62	1.34	7.84	0.00	9.17	0.05	0.78	0.82	0.00	0.81	0.43	1.24	0.00	0.00	44.86
Total ROG Emissions	116.26	317.77	0.93	434.96	54.50	153.17	0.41	208.08	2.41	15.13	17.54	0.66	24.14	4.55	28.70	27.48	4.12	721.51
Carbon Monoxide Emissions																		
Running Exhaust	833.89	2688.83	2.92	3525.66	352.43	1415.65	1.14	1769.21	15.25	64.01	79.25	0.78	203.42	48.45	251.87	122.79	13.85	5763.41
Cold Start Exhaust	46.36	735.63	0.84	782.84	33.40	368.63	0.33	402.35	1.74	34.76	36.50	0.00	0.00	0.00	0.00	0.00	3.65	1225.33
Hot Start Exhaust	31.50	86.53	0.68	118.71	16.98	72.39	0.37	89.76	0.88	6.90	7.79	0.00	0.00	0.00	0.00	0.00	1.13	217.39
Total Exhaust	911.75	3511.00	4.44	4427.18	402.81	1856.68	1.842	261.33	17.87	105.67	123.55	0.78	203.42	48.45	251.87	122.79	18.65	7206.12
Oxides of Nitrogen Emissions																		
Running Exhaust	29.03	272.24	4.01	305.30	12.11	168.82	1.51	182.44	0.54	22.33	22.87	8.56	25.25	26.94	52.19	196.87	1.31	769.54
Cold Start Exhaust	0.57	36.24	0.05	36.86	0.21	18.44	0.07	18.72	0.01	2.38	2.39	0.00	0.00	0.00	0.00	0.00	0.04	58.01
Hot Start Exhaust	0.77	10.52	0.03	11.32	0.44	7.46	0.08	7.97	0.02	0.96	0.99	0.00	0.00	0.00	0.00	0.00	0.06	20.37
Total Exhaust	30.38	319.00	4.09	353.47	12.77	194.71	1.66	209.14	0.58	25.68	26.26	8.56	25.25	26.94	52.19	196.87	1.42	847.92
Particulate Matter Emissions																		
Exhaust	0.26	1.05	0.84	2.15	0.10	0.46	0.41	0.98	0.01	0.04	0.06	0.12	0.19	0.27	0.47	18.80	0.05	22.63
Tire Wear	0.29	6.44	0.09	6.81	0.11	2.38	0.04	2.52	0.00	0.26	0.26	0.03	0.15	0.22	0.37	1.17	0.03	11.21
Total PM Emissions	0.55	7.49	0.93	8.97	0.22	2.84	0.45	3.51	0.01	0.30	0.30	0.15	0.35	0.49	0.83	19.97	0.10	33.83
Fuel Consumed in 1000 Gallons																		
Gasoline	620.71			8105.66	281.68			3856.35	12.67		652.75		569.20		1374.79		23.11	14012.66
Diesel				82.53				37.22				65.45				2378.43		2563.63

TABLE C-3

1993 Winter On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus		Heavy Gas Truck		Heavy Die. Motorcyc		TOTAL
Daily VMT (x 1000)	190701				70719				7358			367		7915		13602		291845
No. of Hot Trips	8671121				3220887				322684			0		0		0		77521 12292225
No. of Cold Trips	12491358				4534332				480609			0		0		0		52848 17559157
No. of Daily Trips	21162484				7755226				803297			0		0		0		130375 29851396
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																		
Running Exhaust	67.89	139.75	0.82	208.46	29.19	80.03	0.32	109.55	1.18	8.17	9.35	0.68	8.50	3.23	11.73	28.27	2.67	370.69
Cold Start Exhaust	11.31	110.24	0.09	121.63	7.38	57.52	0.06	64.96	0.37	6.65	7.01	0.00	0.00	0.00	0.00	0.00	1.07	194.70
Hot Start Exhaust	7.36	13.49	0.05	20.90	4.43	10.67	0.04	15.14	0.22	1.25	1.48	0.00	0.00	0.00	0.00	0.00	0.33	37.85
Total Exhaust	86.56	263.48	0.96	350.99	41.00	148.22	0.42	189.64	1.77	16.07	17.84	0.68	8.50	3.23	11.73	28.27	4.09	603.24
Diurnal Evaporation	18.67	37.80	0.00	56.47	8.54	14.62	0.00	23.16	0.39	0.98	1.38	0.00	8.38	0.52	8.90	0.00	0.29	90.21
Resting Losses	0.99	26.67	0.00	27.67	1.83	9.75	0.00	11.57	0.09	0.87	0.96	0.00	0.00	0.00	0.00	0.00	0.00	40.19
Hot Soak Evaporation	15.59	27.81	0.00	43.39	7.08	11.22	0.00	18.30	0.33	0.65	0.98	0.00	1.22	0.57	1.78	0.00	0.16	64.62
Running Losses	6.92	37.75	0.00	44.68	2.35	11.12	0.00	13.48	0.09	0.92	1.00	0.00	1.33	0.42	1.75	0.00	0.00	60.92
Total TOG Emission	128.73	393.51	0.96	523.20	60.80	194.94	0.42	256.17	2.68	19.49	22.16	0.68	19.43	4.74	24.17	28.27	4.53	859.17
Reactive Organic Gas Emissions																		
Running Exhaust	62.12	115.72	0.80	178.63	26.71	66.27	0.31	93.28	1.08	6.76	7.84	0.66	7.77	2.67	10.45	27.48	2.44	320.78
Cold Start Exhaust	10.35	91.28	0.09	101.71	6.75	47.63	0.06	54.44	0.34	5.51	5.85	0.00	0.00	0.00	0.00	0.00	0.99	162.98
Hot Start Exhaust	6.73	11.17	0.05	17.95	4.05	8.83	0.04	12.93	0.20	1.03	1.24	0.00	0.00	0.00	0.00	0.00	0.31	32.43
Total Exhaust	79.20	218.16	0.93	298.29	37.52	122.73	0.41	160.65	1.62	13.31	14.93	0.66	7.77	2.67	10.45	27.48	3.74	516.19
Diurnal Evaporation	18.67	37.80	0.00	56.47	8.54	14.62	0.00	23.16	0.39	0.98	1.38	0.00	8.38	0.52	8.90	0.00	0.29	90.21
Resting Losses	0.99	26.67	0.00	27.67	1.83	9.75	0.00	11.57	0.09	0.87	0.96	0.00	0.00	0.00	0.00	0.00	0.00	40.19
Hot Soak Evaporation	15.59	27.81	0.00	43.39	7.08	11.22	0.00	18.30	0.33	0.65	0.98	0.00	1.22	0.57	1.78	0.00	0.16	64.62
Running Losses	6.92	37.75	0.00	44.68	2.35	11.12	0.00	13.48	0.09	0.92	1.00	0.00	1.33	0.42	1.75	0.00	0.00	60.92
Total ROG Emissions	121.37	348.19	0.93	470.50	57.32	169.44	0.41	227.17	2.53	16.72	19.25	0.66	18.70	4.19	22.89	27.48	4.18	772.13
Carbon Monoxide Emissions																		
Running Exhaust	823.21	2380.80	2.92	3206.93	345.47	1246.12	1.14	1592.73	14.95	56.26	71.21	0.78	166.42	40.47	206.89	122.79	11.07	5212.40
Cold Start Exhaust	47.45	1160.05	0.84	1208.34	29.33	595.06	0.33	624.72	1.53	53.89	55.41	0.00	0.00	0.00	0.00	0.00	5.39	1893.86
Hot Start Exhaust	35.06	133.46	0.68	169.21	14.76	114.44	0.37	129.57	0.77	10.40	11.17	0.00	0.00	0.00	0.00	0.00	0.91	310.86
Total Exhaust	905.72	3674.31	4.44	4584.47	389.56	1955.63	1.84	2347.03	17.24	120.56	137.80	0.78	166.42	40.47	206.89	122.79	17.38	7417.13
Oxides of Nitrogen Emissions																		
Running Exhaust	30.96	299.52	4.01	334.50	12.91	185.77	1.51	200.18	0.58	24.39	24.97	8.56	23.91	25.16	49.06	196.87	1.46	815.60
Cold Start Exhaust	0.63	40.04	0.05	40.72	0.23	20.37	0.07	20.67	0.01	2.63	2.64	0.00	0.00	0.00	0.00	0.00	0.03	64.06
Hot Start Exhaust	0.83	11.48	0.03	12.34	0.48	8.13	0.08	8.68	0.03	1.05	1.07	0.00	0.00	0.00	0.00	0.00	0.07	22.18
Total Exhaust	32.41	351.04	4.09	387.55	13.62	214.27	1.66	229.54	0.62	28.06	28.68	8.56	23.91	25.16	49.06	196.87	1.56	901.83
Particulate Matter Emissions																		
Exhaust	0.26	1.05	0.84	2.15	0.10	0.46	0.41	0.98	0.01	0.04	0.06	0.12	0.19	0.27	0.47	18.80	0.05	22.63
Tire Wear	0.29	6.44	0.09	6.81	0.11	2.38	0.04	2.52	0.00	0.26	0.26	0.03	0.15	0.22	0.37	1.17	0.03	11.21
Total PM Emissions	0.55	7.49	0.93	8.97	0.22	2.84	0.45	3.51	0.01	0.30	0.30	0.15	0.35	0.49	0.83	19.97	0.10	33.83
Fuel Consumed in 1000 Gallons																		
Gasoline	620.71			8105.66	281.68			3856.35	12.67		652.75		569.20		1374.79		23.11	14012.66
Diesel				82.53				37.22				65.45				2378.43		2563.63

TABLE C-4

2000 Annual Average On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus	Heavy Gas Truck			Heavy Die.	Motorcyc	TOTAL
Daily VMT (x 1000)	209775				78020				12404			377	7940			16107	1284	325931
No. of Hot Trips	9435783				3440465				545327			0	0			0	87464	13509049
No. of Cold Trips	14073718				5197993				828446			0	0			0	58121	20158289
No. of Daily Trips	23509509				8638464				1373782			0	0			0	145589	33667357
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																		
Running Exhaust	24.95	64.72	0.25	89.93	0.76	38.32	0.11	39.18	0.22	5.04	5.27	0.67	2.36	3.13	5.49	18.33	2.87	161.71
Cold Start Exhaust	3.23	63.14	0.03	66.42	0.27	33.73	0.03	34.03	0.06	5.72	5.78	0.00	0.00	0.00	0.00	0.00	0.75	106.96
Hot Start Exhaust	2.27	8.01	0.02	10.30	0.18	6.50	0.02	6.70	0.04	1.12	1.16	0.00	0.00	0.00	0.00	0.00	0.39	18.55
Total Exhaust	30.46	135.87	0.31	166.64	1.21	78.54	0.16	79.90	0.33	11.88	12.20	0.67	2.36	3.13	5.49	18.33	3.99	287.22
Diurnal Evaporation	11.51	46.69	0.00	58.20	0.75	18.71	0.00	19.47	0.15	2.03	2.17	0.00	1.86	1.69	3.55	0.00	0.21	83.60
Resting Losses	0.29	10.86	0.00	11.15	0.08	4.09	0.00	4.17	0.02	0.44	0.46	0.00	0.00	0.00	0.00	0.00	0.00	15.79
Hot Soak Evaporation	3.89	14.15	0.00	18.02	0.28	5.74	0.00	6.02	0.05	0.53	0.59	0.00	0.16	0.58	0.73	0.00	0.10	25.47
Running Losses	1.28	28.85	0.00	30.13	0.07	7.72	0.00	7.78	0.01	1.06	1.08	0.00	0.31	0.71	1.01	0.00	0.00	40.00
Total TOG Emission	47.42	236.42	0.31	284.15	2.38	114.80	0.16	117.35	0.55	15.95	16.48	0.67	4.69	6.10	10.78	18.33	4.30	452.06
Reactive Organic Gas Emissions																		
Running Exhaust	22.83	53.59	0.25	76.67	0.69	31.72	0.10	32.52	0.20	4.18	4.38	0.65	2.16	2.59	4.75	17.81	2.62	139.39
Cold Start Exhaust	2.96	52.28	0.03	55.28	0.25	27.93	0.03	28.20	0.06	4.74	4.79	0.00	0.00	0.00	0.00	0.00	0.68	88.95
Hot Start Exhaust	2.08	6.63	0.02	8.73	0.16	5.38	0.02	5.57	0.04	0.92	0.96	0.00	0.00	0.00	0.00	0.00	0.36	15.61
Total Exhaust	27.87	112.50	0.30	140.67	1.11	65.03	0.15	66.29	0.30	9.84	10.13	0.65	2.16	2.59	4.75	17.81	3.66	243.96
Diurnal Evaporation	11.51	46.69	0.00	58.20	0.75	18.71	0.00	19.47	0.15	2.03	2.17	0.00	1.86	1.69	3.55	0.00	0.21	83.60
Resting Losses	0.29	10.86	0.00	11.15	0.08	4.09	0.00	4.17	0.02	0.44	0.46	0.00	0.00	0.00	0.00	0.00	0.00	15.79
Hot Soak Evaporation	3.89	14.15	0.00	18.02	0.28	5.74	0.00	6.02	0.05	0.53	0.59	0.00	0.16	0.58	0.73	0.00	0.10	25.47
Running Losses	1.28	28.85	0.00	30.13	0.07	7.72	0.00	7.78	0.01	1.06	1.08	0.00	0.31	0.71	1.01	0.00	0.00	40.00
Total ROG Emissions	44.83	213.05	0.30	258.18	2.28	101.29	0.15	103.73	0.52	13.91	14.42	0.65	4.49	5.56	10.04	17.81	3.96	408.80
Carbon Monoxide Emissions																		
Running Exhaust	307.47	1112.04	0.96	1420.46	19.97	641.45	0.40	661.81	3.16	63.76	66.92	0.64	50.24	51.12	101.36	125.49	12.81	2389.49
Cold Start Exhaust	15.78	628.35	0.43	644.56	1.79	341.34	0.17	343.29	0.36	63.20	63.56	0.00	0.00	0.00	0.00	0.00	4.16	1055.58
Hot Start Exhaust	11.41	73.96	0.35	85.71	0.93	67.19	0.19	68.31	0.19	12.59	12.79	0.00	0.00	0.00	0.00	0.00	1.34	168.15
Total Exhaust	334.66	1814.35	1.73	2150.74	22.69	1049.97	0.76	1073.42	3.71	139.55	143.25	0.64	50.24	51.12	101.36	125.49	18.30	3613.22
Oxides of Nitrogen Emissions																		
Running Exhaust	11.97	163.49	1.17	176.63	0.74	101.31	0.47	102.52	0.15	21.92	22.07	7.53	7.49	27.30	34.78	159.04	1.47	504.05
Cold Start Exhaust	0.22	24.92	0.02	25.15	0.01	13.95	0.03	13.99	0.00	2.85	2.86	0.00	0.00	0.00	0.00	0.00	0.02	42.02
Hot Start Exhaust	0.30	7.83	0.01	8.13	0.03	5.99	0.03	6.05	0.01	1.22	1.23	0.00	0.00	0.00	0.00	0.00	0.05	15.48
Total Exhaust	12.48	196.24	1.20	209.91	0.78	121.24	0.54	122.56	0.16	26.00	26.15	7.53	7.49	27.30	34.78	159.04	1.58	561.56
Particulate Matter Emissions																		
Exhaust	0.00	1.03	0.24	1.27	0.00	0.41	0.13	0.54	0.00	0.06	0.07	0.05	0.00	0.41	0.41	9.54	0.05	11.93
Tire Wear	0.11	7.39	0.02	7.52	0.01	2.78	0.01	2.81	0.00	0.44	0.46	0.03	0.04	0.33	0.37	1.31	0.03	12.51
Total PM Emissions	0.11	8.43	0.26	8.79	0.01	3.19	0.14	3.34	0.00	0.50	0.51	0.08	0.04	0.74	0.80	10.85	0.11	24.47
Fuel Consumed in 1000 Gallons																		
Gasoline	235.92			7892.69	15.25		3783.05	2.91		1060.58			161.88		1384.67		25.63	14146.61
Diesel				22.98			11.38				62.81				2604.99			2702.17

TABLE C-5

2000 Summer On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus	Heavy Gas Truck			Heavy Die.	Motorcyc	TOTAL
Daily VMT (x 1000)	209765				78019				12406			378	7942			16108	1285	325916
No. of Hot Trips	9435246				3440282				545300			0	0			0	87460	13508293
No. of Cold Trips	14072918				5197713				828403			0	0			0	58119	20157160
No. of Daily Trips	23508170				8637999				1373709			0	0			0	145585	33665466
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																		
Running Exhaust	23.92	65.59	0.25	89.78	0.73	38.94	0.11	39.78	0.21	5.13	5.35	0.67	2.38	3.18	5.58	18.33	2.88	162.33
Cold Start Exhaust	2.73	52.11	0.03	54.88	0.23	27.21	0.03	27.47	0.05	4.80	4.86	0.00	0.00	0.00	0.00	0.00	0.59	87.77
Hot Start Exhaust	2.01	6.76	0.02	8.80	0.16	5.38	0.02	5.56	0.04	0.96	1.00	0.00	0.00	0.00	0.00	0.00	0.43	15.78
Total Exhaust	28.66	124.47	0.31	153.44	1.12	71.54	0.16	72.81	0.30	10.90	11.19	0.67	2.38	3.18	5.58	18.33	3.88	265.88
Diurnal Evaporation	13.81	56.20	0.00	70.01	0.91	22.72	0.00	23.63	0.18	2.47	2.64	0.00	2.26	2.05	4.30	0.00	0.25	100.85
Resting Losses	0.27	9.61	0.00	9.87	0.07	3.60	0.00	3.67	0.01	0.38	0.39	0.00	0.00	0.00	0.00	0.00	0.00	13.95
Hot Soak Evaporation	2.96	10.75	0.00	13.69	0.21	4.40	0.00	4.62	0.04	0.41	0.45	0.00	0.12	0.44	0.56	0.00	0.08	19.39
Running Losses	0.83	27.73	0.00	28.56	0.04	7.24	0.00	7.28	0.01	1.06	1.08	0.00	0.22	0.72	0.95	0.00	0.00	37.85
Total TOG Emission	46.53	228.75	0.31	275.59	2.35	109.50	0.16	112.02	0.54	15.21	15.73	0.67	4.99	6.40	11.38	18.33	4.20	437.92
Reactive Organic Gas Emissions																		
Running Exhaust	21.89	54.31	0.25	76.45	0.67	32.25	0.10	33.01	0.00	4.25	4.44	0.65	2.18	2.63	4.81	17.81	2.63	139.81
Cold Start Exhaust	2.50	43.15	0.03	45.68	0.21	22.53	0.03	22.77	0.05	3.98	4.03	0.00	0.00	0.00	0.00	0.00	0.53	73.01
Hot Start Exhaust	1.84	5.60	0.02	7.46	0.14	4.46	0.02	4.62	0.03	0.80	0.83	0.00	0.00	0.00	0.00	0.00	0.39	13.30
Total Exhaust	26.23	103.06	0.30	129.59	1.02	59.23	0.15	60.41	0.28	9.02	9.30	0.65	2.18	2.63	4.81	17.81	3.55	226.12
Diurnal Evaporation	13.81	56.20	0.00	70.01	0.91	22.72	0.00	23.63	0.18	2.47	2.64	0.00	2.26	2.05	4.30	0.00	0.25	100.85
Resting Losses	0.27	9.61	0.00	9.87	0.07	3.60	0.00	3.67	0.01	0.38	0.39	0.00	0.00	0.00	0.00	0.00	0.00	13.95
Hot Soak Evaporation	2.96	10.75	0.00	13.69	0.21	4.40	0.00	4.62	0.04	0.41	0.45	0.00	0.12	0.44	0.56	0.00	0.08	19.39
Running Losses	0.83	27.73	0.00	28.56	0.04	7.24	0.00	7.28	0.01	1.06	1.08	0.00	0.22	0.72	0.95	0.00	0.00	37.85
Total ROG Emissions	44.09	207.34	0.30	251.74	2.26	97.20	0.15	99.62	0.51	13.34	13.84	0.65	4.79	5.85	10.62	17.81	3.87	398.16
Carbon Monoxide Emissions																		
Running Exhaust	296.56	1122.67	0.96	1420.18	19.32	648.72	0.40	668.45	3.06	64.52	67.57	0.64	52.46	52.89	105.34	125.49	13.48	2401.15
Cold Start Exhaust	15.02	491.54	0.43	506.99	1.81	262.05	0.17	264.03	0.36	50.14	50.51	0.00	0.00	0.00	0.00	0.00	3.27	824.79
Hot Start Exhaust	10.48	58.65	0.35	69.47	0.95	52.34	0.19	53.47	0.19	10.18	10.38	0.00	0.00	0.00	0.00	0.00	1.42	134.75
Total Exhaust	322.07	1672.86	1.73	1996.66	22.08	963.12	0.76	985.95	3.61	124.84	128.44	0.64	52.46	52.89	105.34	125.49	18.15	3360.72
Oxides of Nitrogen Emissions																		
Running Exhaust	11.65	157.36	1.17	170.18	0.72	97.59	0.47	98.78	0.15	21.18	21.32	7.53	7.67	28.13	35.79	159.03	1.41	494.05
Cold Start Exhaust	0.21	23.88	0.02	24.10	0.01	13.37	0.03	13.41	0.00	2.74	2.74	0.00	0.00	0.00	0.00	0.00	0.03	40.29
Hot Start Exhaust	0.29	7.54	0.01	7.84	0.03	5.78	0.03	5.84	0.01	1.18	1.19	0.00	0.00	0.00	0.00	0.00	0.05	14.92
Total Exhaust	12.15	188.77	1.20	202.11	0.76	116.74	0.53	118.03	0.16	25.10	25.25	7.53	7.67	28.13	35.79	159.03	1.52	549.28
Particulate Matter Emissions																		
Exhaust	0.00	1.03	0.24	1.27	0.00	0.41	0.13	0.54	0.00	0.06	0.07	0.05	0.00	0.41	0.41	9.54	0.05	11.93
Tire Wear	0.11	7.39	0.02	7.52	0.01	2.78	0.01	2.81	0.00	0.44	0.46	0.03	0.04	0.33	0.37	1.31	0.03	12.51
Total PM Emissions	0.11	8.43	0.26	8.79	0.01	3.19	0.14	3.34	0.00	0.50	0.51	0.08	0.04	0.74	0.80	10.85	0.11	24.47
Fuel Consumed in 1000 Gallons																		
Gasoline	235.91			7892.26	15.25		3782.86	2.91		1060.52			161.87		1384.60		25.63	14145.87
Diesel				22.98			11.37				62.81				2604.89			2702.05

TABLE C-6

2000 Winter On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus		Heavy Gas Truck			Heavy Die.		Motorcyc	TOTAL
Daily VMT (x 1000)	209765				78019				12406			378		7942			16108		1285	325916
No. of Hot Trips	9435246				3440282				545300			0		0			0		87460	13508293
No. of Cold Trips	14072918				5197713				828403			0		0			0		58119	20157160
No. of Daily Trips	23508170				8637999				1373709			0		0			0		145585	33665466
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL		
Total Organic Gas Emissions																				
Running Exhaust	26.39	63.48	0.25	90.12	0.80	37.43	0.11	38.33	0.23	4.92	5.16	0.67	2.32	3.06	5.37	18.33	2.85	160.83		
Cold Start Exhaust	3.94	78.58	0.03	82.56	0.33	42.85	0.03	43.21	0.08	7.00	7.08	0.00	0.00	0.00	0.00	0.00	0.97	133.80		
Hot Start Exhaust	2.64	9.75	0.02	12.40	0.21	8.06	0.02	8.30	0.05	1.33	1.38	0.00	0.00	0.00	0.00	0.00	0.33	22.42		
Total Exhaust	32.97	151.81	0.31	185.09	1.34	88.33	0.16	89.82	0.36	13.25	13.61	0.67	2.32	3.06	5.37	18.33	4.15	317.06		
Diurnal Evaporation	8.28	33.37	0.00	41.65	0.53	13.10	0.00	13.63	0.10	1.42	1.51	0.00	1.31	1.18	2.49	0.00	0.15	59.44		
Resting Losses	0.31	12.62	0.00	12.93	0.09	4.78	0.00	4.88	0.02	0.54	0.56	0.00	0.00	0.00	0.00	0.00	0.00	18.36		
Hot Soak Evaporation	5.19	18.91	0.00	24.09	0.37	7.61	0.00	7.98	0.07	0.70	0.78	0.00	0.21	0.76	0.97	0.00	0.14	33.97		
Running Losses	1.92	30.41	0.00	32.33	0.10	8.39	0.00	8.48	0.01	1.06	1.08	0.00	0.43	0.68	1.11	0.00	0.00	43.00		
Total TOG Emission	48.66	247.12	0.31	296.09	2.43	122.21	0.16	124.79	0.56	16.98	17.53	0.67	4.26	5.69	9.95	18.33	4.43	471.80		
Reactive Organic Gas Emissions																				
Running Exhaust	24.15	52.56	0.25	76.96	0.73	30.99	0.10	31.82	0.21	4.08	4.29	0.65	2.12	2.53	4.65	17.81	2.61	138.79		
Cold Start Exhaust	3.61	65.06	0.03	68.70	0.31	35.48	0.03	35.81	0.07	5.80	5.87	0.00	0.00	0.00	0.00	0.00	0.89	111.27		
Hot Start Exhaust	2.42	8.07	0.02	10.51	0.19	6.67	0.02	6.88	0.04	1.10	1.15	0.00	0.00	0.00	0.00	0.00	0.31	18.85		
Total Exhaust	30.17	125.70	0.30	156.17	1.22	73.14	0.15	74.52	0.33	10.98	11.30	0.65	2.12	2.53	4.65	17.81	3.81	268.90		
Diurnal Evaporation	8.28	33.37	0.00	41.65	0.53	13.10	0.00	13.63	0.10	1.42	1.51	0.00	1.31	1.18	2.49	0.00	0.15	59.44		
Resting Losses	0.31	12.62	0.00	12.93	0.09	4.78	0.00	4.88	0.02	0.54	0.56	0.00	0.00	0.00	0.00	0.00	0.00	18.36		
Hot Soak Evaporation	5.19	18.91	0.00	24.09	0.37	7.61	0.00	7.98	0.07	0.70	0.78	0.00	0.21	0.76	0.97	0.00	0.14	33.97		
Running Losses	1.92	30.41	0.00	32.33	0.10	8.39	0.00	8.48	0.01	1.06	1.08	0.00	0.43	0.68	1.11	0.00	0.00	43.00		
Total ROG Emissions	45.86	221.01	0.30	267.17	2.32	107.02	0.15	109.48	0.53	14.70	15.22	0.65	4.07	5.16	9.23	17.81	4.09	423.65		
Carbon Monoxide Emissions																				
Running Exhaust	322.69	1097.02	0.96	1420.67	20.86	631.19	0.40	652.45	3.30	62.68	65.99	0.64	47.12	48.65	95.77	125.49	11.87	2372.86		
Cold Start Exhaust	16.85	819.79	0.43	837.07	1.76	452.28	0.17	454.21	0.35	81.48	81.83	0.00	0.00	0.00	0.00	0.00	5.41	1378.53		
Hot Start Exhaust	12.70	95.39	0.35	108.44	0.91	87.96	0.19	89.07	0.18	15.97	16.15	0.00	0.00	0.00	0.00	0.00	1.22	214.89		
Total Exhaust	352.24	2012.20	1.73	2366.17	23.54	1171.43	0.76	1195.73	3.84	160.13	163.96	0.64	47.12	48.65	95.77	125.49	18.51	3966.26		
Oxides of Nitrogen Emissions																				
Running Exhaust	12.41	172.06	1.17	185.63	0.77	106.50	0.47	107.74	0.16	22.96	23.11	7.53	7.22	26.14	33.36	159.03	1.56	517.98		
Cold Start Exhaust	0.23	26.38	0.02	26.62	0.01	14.75	0.03	14.78	0.00	3.01	3.01	0.00	0.00	0.00	0.00	0.00	0.01	44.44		
Hot Start Exhaust	0.31	8.23	0.01	8.55	0.03	6.29	0.03	6.35	0.01	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.05	16.26		
Total Exhaust	12.95	206.66	1.20	220.81	0.81	127.53	0.53	128.88	0.17	27.25	27.42	7.53	7.22	26.14	33.36	159.03	1.66	578.70		
Particulate Matter Emissions																				
Exhaust	0.00	1.03	0.24	1.27	0.00	0.41	0.13	0.54	0.00	0.06	0.07	0.05	0.00	0.41	0.41	9.54	0.05	11.93		
Tire Wear	0.11	7.39	0.02	7.52	0.01	2.78	0.01	2.81	0.00	0.44	0.46	0.03	0.04	0.33	0.37	1.31	0.03	12.51		
Total PM Emissions	0.11	8.43	0.26	8.79	0.01	3.19	0.14	3.34	0.00	0.50	0.51	0.08	0.04	0.74	0.80	10.85	0.11	24.47		
Fuel Consumed in 1000 Gallons																				
Gasoline	235.91			7892.26	15.25			3782.86	2.91		1060.52		161.87		1384.60		25.63	14145.87		
Diesel				22.98				11.37				62.81				2604.89		2702.05		

TABLE C-7

2006 Annual Average On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus		Heavy Gas Truck		Heavy Die. Motorcyc		TOTAL
Daily VMT (x 1000)	226003				89783				16167			391		8277		18974		361054
No. of Hot Trips	9881034				3864780				694190			0		0		0		14534483
No. of Cold Trips	14996040				5884347				1059964			0		0		0		2003114
No. of Daily Trips	24877087				9749136				1754165			0		0		0		6537615
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																		
Running Exhaust	6.92	38.78	0.12	45.81	0.00	17.56	0.06	17.62	0.01	3.48	3.49	0.76	0.90	3.50	4.40	17.08	3.48	92.63
Cold Start Exhaust	0.82	37.72	0.01	38.56	0.00	19.85	0.01	19.87	0.00	4.46	4.46	0.00	0.00	0.00	0.00	0.00	0.80	63.68
Hot Start Exhaust	0.58	4.61	0.01	5.20	0.00	3.72	0.01	3.73	0.00	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.42	10.18
Total Exhaust	8.32	81.11	0.14	89.57	0.00	41.13	0.09	41.22	0.01	8.77	8.77	0.76	0.90	3.50	4.40	17.08	4.70	166.50
Diurnal Evaporation	3.26	39.45	0.00	42.71	0.00	13.13	0.00	13.12	0.00	2.10	2.11	0.00	0.40	2.14	2.53	0.00	0.23	60.71
Resting Losses	0.10	5.89	0.00	5.99	0.00	2.20	0.00	2.20	0.00	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00	8.49
Hot Soak Evaporation	0.99	10.61	0.00	11.59	0.00	3.50	0.00	3.50	0.00	0.50	0.50	0.00	0.03	0.61	0.64	0.00	0.11	16.34
Running Losses	0.42	28.76	0.00	29.17	0.00	8.74	0.00	8.74	0.00	1.34	1.35	0.00	0.15	0.75	0.90	0.00	0.00	40.15
Total TOG Emission	13.08	165.81	0.14	179.03	0.00	68.69	0.09	68.78	0.01	13.02	13.03	0.76	1.48	6.99	8.47	17.08	5.03	292.19
Reactive Organic Gas Emissions																		
Running Exhaust	6.33	32.11	0.12	38.55	0.00	14.54	0.06	14.60	0.01	2.88	2.89	0.74	0.83	2.89	3.72	16.60	3.19	80.28
Cold Start Exhaust	0.75	31.23	0.01	32.00	0.00	16.44	0.01	16.45	0.00	3.69	3.69	0.00	0.00	0.00	0.00	0.00	0.73	52.87
Hot Start Exhaust	0.53	3.82	0.01	4.36	0.00	3.08	0.01	3.09	0.00	0.69	0.69	0.00	0.00	0.00	0.00	0.00	0.39	8.52
Total Exhaust	7.61	67.16	0.14	74.91	0.00	34.05	0.08	34.14	0.01	7.26	7.27	0.74	0.83	2.89	3.72	16.60	4.30	141.67
Diurnal Evaporation	3.26	39.45	0.00	42.71	0.00	13.13	0.00	13.12	0.00	2.10	2.11	0.00	0.40	2.14	2.53	0.00	0.23	60.71
Resting Losses	0.10	5.89	0.00	5.99	0.00	2.20	0.00	2.20	0.00	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00	8.49
Hot Soak Evaporation	0.99	10.61	0.00	11.59	0.00	3.50	0.00	3.50	0.00	0.50	0.50	0.00	0.03	0.61	0.64	0.00	0.11	16.34
Running Losses	0.42	28.76	0.00	29.17	0.00	8.74	0.00	8.74	0.00	1.34	1.35	0.00	0.15	0.75	0.90	0.00	0.00	40.15
Total ROG Emissions	12.38	151.86	0.14	164.37	0.00	61.62	0.08	61.70	0.01	11.51	11.53	0.74	1.40	6.39	7.79	16.60	4.63	267.36
Carbon Monoxide Emissions																		
Running Exhaust	94.74	915.30	0.46	1010.50	0.00	433.85	0.26	434.12	0.16	67.45	67.61	0.72	17.35	69.51	86.87	160.87	16.14	1776.83
Cold Start Exhaust	4.03	407.16	0.21	411.40	0.00	204.92	0.10	205.03	0.01	47.78	47.79	0.00	0.00	0.00	0.00	0.00	4.48	668.68
Hot Start Exhaust	2.90	46.13	0.17	49.21	0.00	38.68	0.12	38.80	0.00	9.10	9.10	0.00	0.00	0.00	0.00	0.00	1.45	98.55
Total Exhaust	101.66	1368.59	0.84	1471.09	0.00	677.45	0.48	677.93	0.17	124.33	124.50	0.72	17.35	69.51	86.87	160.87	22.06	2544.05
Oxides of Nitrogen Emissions																		
Running Exhaust	2.93	111.90	0.49	115.32	0.00	71.63	0.25	71.88	0.01	18.32	18.33	6.82	2.52	23.84	26.35	147.93	1.55	388.18
Cold Start Exhaust	0.05	18.57	0.01	18.62	0.00	11.08	0.02	11.09	0.00	2.75	2.76	0.00	0.00	0.00	0.00	0.00	0.03	32.51
Hot Start Exhaust	0.07	7.17	0.00	7.24	0.00	5.60	0.02	5.62	0.00	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.06	14.34
Total Exhaust	3.05	137.64	0.50	141.19	0.00	88.31	0.28	88.59	0.01	22.49	22.49	6.82	2.52	23.84	26.35	147.93	1.66	435.04
Particulate Matter Emissions																		
Exhaust	0.00	1.05	0.10	1.15	0.00	0.41	0.06	0.47	0.00	0.08	0.08	0.02	0.00	0.47	0.46	6.67	0.07	8.92
Tire Wear	0.03	8.09	0.01	8.13	0.00	3.23	0.01	3.23	0.00	0.58	0.59	0.03	0.02	0.37	0.39	1.53	0.03	13.92
Total PM Emissions	0.03	9.14	0.11	9.28	0.00	3.63	0.06	3.70	0.00	0.66	0.67	0.06	0.02	0.85	0.87	8.20	0.11	22.86
Fuel Consumed in 1000 Gallons																		
Gasoline	59.50			7918.66	0.00			4108.49	0.15		1357.12		54.15		1447.72		28.22	14860.20
Diesel				9.18				5.69				62.01				2906.02		2982.90

TABLE C-8

2006 Summer On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus		Heavy Gas Truck		Heavy Die. Motorcyc		TOTAL
Daily VMT (x 1000)	226003				89788				16172			395		8281		18980		361050
No. of Hot Trips	9880810				3864694				694179			0		0		0		94457 14534153
No. of Cold Trips	14995695				5884217				1059943			0		0		0		62744 22002612
No. of Daily Trips	24876515				9748916				1754126			0		0		0		157207 36536778
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																		
Running Exhaust	6.64	39.37	0.12	46.12	0.00	17.87	0.06	17.93	0.01	3.54	3.55	0.76	0.92	3.57	4.50	17.08	3.50	93.43
Cold Start Exhaust	0.70	31.86	0.01	32.58	0.00	16.37	0.01	16.39	0.00	3.78	3.78	0.00	0.00	0.00	0.00	0.00	0.62	53.36
Hot Start Exhaust	0.51	3.95	0.01	4.47	0.00	3.15	0.01	3.16	0.00	0.72	0.71	0.00	0.00	0.00	0.00	0.00	0.47	8.81
Total Exhaust	7.85	75.19	0.14	83.16	0.00	37.39	0.09	37.48	0.01	8.04	8.04	0.76	0.92	3.57	4.50	17.08	4.58	155.61
Diurnal Evaporation	3.93	47.56	0.00	51.50	0.00	15.98	0.00	15.98	0.00	2.56	2.57	0.00	0.48	2.61	3.08	0.00	0.27	73.41
Resting Losses	0.09	4.91	0.00	5.00	0.00	1.91	0.00	1.91	0.00	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	7.18
Hot Soak Evaporation	0.75	8.11	0.00	8.86	0.00	2.68	0.00	2.68	0.00	0.38	0.38	0.00	0.02	0.46	0.50	0.00	0.09	12.50
Running Losses	0.27	28.24	0.00	28.51	0.00	8.55	0.00	8.55	0.00	1.36	1.36	0.00	0.11	0.77	0.89	0.00	0.00	39.30
Total TOG Emission	12.89	164.00	0.14	177.03	0.00	66.52	0.09	66.61	0.01	12.62	12.63	0.76	1.54	7.42	8.95	17.08	4.93	287.99
Reactive Organic Gas Emissions																		
Running Exhaust	6.07	32.60	0.12	38.79	0.00	14.79	0.06	14.85	0.01	2.93	2.94	0.74	0.84	2.96	3.80	16.60	3.20	80.91
Cold Start Exhaust	0.64	26.38	0.01	27.03	0.00	13.56	0.01	13.57	0.00	3.13	3.13	0.00	0.00	0.00	0.00	0.00	0.57	44.31
Hot Start Exhaust	0.47	3.27	0.01	3.75	0.00	2.61	0.01	2.62	0.00	0.60	0.60	0.00	0.00	0.00	0.00	0.00	0.42	7.39
Total Exhaust	7.18	62.25	0.14	69.57	0.00	30.96	0.08	31.04	0.01	6.66	6.67	0.74	0.84	2.96	3.80	16.60	4.19	132.60
Diurnal Evaporation	3.93	47.56	0.00	51.50	0.00	15.98	0.00	15.98	0.00	2.56	2.57	0.00	0.48	2.61	3.08	0.00	0.27	73.41
Resting Losses	0.09	4.91	0.00	5.00	0.00	1.91	0.00	1.91	0.00	0.27	0.27	0.00	0.00	0.00	0.00	0.00	0.00	7.18
Hot Soak Evaporation	0.75	8.11	0.00	8.86	0.00	2.68	0.00	2.68	0.00	0.38	0.38	0.00	0.02	0.46	0.50	0.00	0.09	12.50
Running Losses	0.27	28.24	0.00	28.51	0.00	8.55	0.00	8.55	0.00	1.36	1.36	0.00	0.11	0.77	0.89	0.00	0.00	39.30
Total ROG Emissions	12.23	151.07	0.14	163.44	0.00	60.08	0.08	60.17	0.01	11.24	11.25	0.74	1.46	6.80	8.25	16.60	4.54	264.99
Carbon Monoxide Emissions																		
Running Exhaust	91.70	925.24	0.46	1017.39	0.00	439.30	0.26	439.56	0.15	68.33	68.49	0.72	18.16	72.25	90.41	160.87	17.05	1794.49
Cold Start Exhaust	3.85	331.56	0.21	335.62	0.00	160.68	0.10	160.79	0.01	38.15	38.16	0.00	0.00	0.00	0.00	0.00	3.51	538.07
Hot Start Exhaust	2.68	37.79	0.17	40.65	0.00	30.83	0.12	30.96	0.00	7.41	7.41	0.00	0.00	0.00	0.00	0.00	1.54	80.55
Total Exhaust	98.23	1294.59	0.84	1393.64	0.00	630.81	0.48	631.30	0.16	113.89	114.06	0.72	18.16	72.25	90.41	160.87	22.09	2413.10
Oxides of Nitrogen Emissions																		
Running Exhaust	2.85	107.85	0.49	111.19	0.00	69.13	0.25	69.38	0.01	17.71	17.72	6.82	2.59	24.62	27.20	147.93	1.48	381.71
Cold Start Exhaust	0.05	17.75	0.01	17.80	0.00	10.63	0.02	10.64	0.00	2.64	2.65	0.00	0.00	0.00	0.00	0.00	0.04	31.13
Hot Start Exhaust	0.07	6.90	0.00	6.97	0.00	5.40	0.02	5.42	0.00	1.37	1.36	0.00	0.00	0.00	0.00	0.00	0.05	13.82
Total Exhaust	2.97	132.49	0.50	135.96	0.00	85.16	0.28	85.44	0.01	21.72	21.72	6.82	2.59	24.62	27.20	147.93	1.59	426.67
Particulate Matter Emissions																		
Exhaust	0.00	1.05	0.10	1.15	0.00	0.41	0.06	0.47	0.00	0.08	0.08	0.02	0.00	0.47	0.46	6.67	0.07	8.92
Tire Wear	0.03	8.09	0.01	8.13	0.00	3.23	0.01	3.23	0.00	0.58	0.59	0.03	0.02	0.37	0.39	1.53	0.03	13.92
Total PM Emissions	0.03	9.14	0.11	9.28	0.00	3.63	0.06	3.70	0.00	0.66	0.67	0.06	0.02	0.85	0.87	8.20	0.11	22.86
Fuel Consumed in 1000 Gallons																		
Gasoline	59.49			7918.48	0.00			4108.40	0.15		1357.08		54.15		1447.69		28.22	14859.88
Diesel				9.18				5.69				62.01				2905.98		2982.86

TABLE C-9

2006 Winter On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus		Heavy Gas Truck		Heavy Die. Motorcyc		TOTAL
Daily VMT (x 1000)	226003				89788				16172			395		8281		18980		361050
No. of Hot Trips	9880810				3864694				694179			0		0		0		94457 14534153
No. of Cold Trips	14995695				5884217				1059943			0		0		0		62744 22002612
No. of Daily Trips	24876515				9748916				1754126			0		0		0		157207 36536778
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																		
Running Exhaust	7.31	37.95	0.12	45.38	0.00	17.12	0.06	17.18	0.01	3.39	3.40	0.76	0.88	3.39	4.26	17.08	3.46	91.52
Cold Start Exhaust	1.00	45.91	0.01	46.94	0.00	24.72	0.01	24.74	0.00	5.41	5.42	0.00	0.00	0.00	0.00	0.00	1.05	78.13
Hot Start Exhaust	0.67	5.53	0.01	6.21	0.00	4.52	0.01	4.54	0.00	0.98	0.99	0.00	0.00	0.00	0.00	0.00	0.36	12.09
Total Exhaust	8.98	89.39	0.14	98.53	0.00	46.36	0.09	46.45	0.01	9.78	9.79	0.76	0.88	3.39	4.26	17.08	4.88	181.73
Diurnal Evaporation	2.33	28.08	0.00	30.41	0.00	9.13	0.00	9.12	0.00	1.46	1.47	0.00	0.28	1.49	1.76	0.00	0.16	42.94
Resting Losses	0.11	7.27	0.00	7.38	0.00	2.60	0.00	2.60	0.00	0.35	0.34	0.00	0.00	0.00	0.00	0.00	0.00	10.32
Hot Soak Evaporation	1.31	14.10	0.00	15.42	0.00	4.65	0.00	4.65	0.00	0.66	0.66	0.00	0.04	0.81	0.85	0.00	0.15	21.71
Running Losses	0.62	29.48	0.00	30.10	0.00	9.00	0.00	9.00	0.00	1.32	1.32	0.00	0.20	0.72	0.91	0.00	0.00	41.35
Total TOG Emission	13.35	168.33	0.14	181.82	0.00	71.73	0.09	71.81	0.01	13.58	13.59	0.76	1.39	6.40	7.79	17.08	5.18	298.05
Reactive Organic Gas Emissions																		
Running Exhaust	6.69	31.42	0.12	38.23	0.00	14.18	0.06	14.23	0.01	2.81	2.81	0.74	0.80	2.80	3.61	16.60	3.17	79.39
Cold Start Exhaust	0.92	38.02	0.01	38.95	0.00	20.47	0.01	20.48	0.00	4.48	4.48	0.00	0.00	0.00	0.00	0.00	0.96	64.87
Hot Start Exhaust	0.62	4.58	0.01	5.20	0.00	3.75	0.01	3.76	0.00	0.81	0.81	0.00	0.00	0.00	0.00	0.00	0.34	10.11
Total Exhaust	8.22	74.02	0.14	82.38	0.00	38.39	0.08	38.47	0.01	8.10	8.11	0.74	0.80	2.80	3.61	16.60	4.46	154.36
Diurnal Evaporation	2.33	28.08	0.00	30.41	0.00	9.13	0.00	9.12	0.00	1.46	1.47	0.00	0.28	1.49	1.76	0.00	0.16	42.94
Resting Losses	0.11	7.27	0.00	7.38	0.00	2.60	0.00	2.60	0.00	0.35	0.34	0.00	0.00	0.00	0.00	0.00	0.00	10.32
Hot Soak Evaporation	1.31	14.10	0.00	15.42	0.00	4.65	0.00	4.65	0.00	0.66	0.66	0.00	0.04	0.81	0.85	0.00	0.15	21.71
Running Losses	0.62	29.48	0.00	30.10	0.00	9.00	0.00	9.00	0.00	1.32	1.32	0.00	0.20	0.72	0.91	0.00	0.00	41.35
Total ROG Emissions	12.59	152.95	0.14	165.67	0.00	63.76	0.08	63.83	0.01	11.89	11.91	0.74	1.32	5.82	7.14	16.60	4.76	270.68
Carbon Monoxide Emissions																		
Running Exhaust	98.99	901.34	0.46	1000.78	0.00	426.21	0.26	426.47	0.16	66.22	66.39	0.72	16.22	65.68	81.90	160.87	14.87	1752.00
Cold Start Exhaust	4.27	512.97	0.21	517.47	0.00	266.83	0.10	266.94	0.01	61.26	61.26	0.00	0.00	0.00	0.00	0.00	5.84	851.50
Hot Start Exhaust	3.21	57.80	0.17	61.18	0.00	49.65	0.12	49.77	0.00	11.46	11.46	0.00	0.00	0.00	0.00	0.00	1.32	123.75
Total Exhaust	106.47	1472.11	0.84	1579.42	0.00	742.70	0.48	743.18	0.17	138.94	139.11	0.72	16.22	65.68	81.90	160.87	22.02	2727.23
Oxides of Nitrogen Emissions																		
Running Exhaust	3.04	117.57	0.49	121.09	0.00	75.13	0.25	75.39	0.01	19.17	19.19	6.82	2.42	22.74	25.16	147.93	1.65	397.22
Cold Start Exhaust	0.06	19.72	0.01	19.78	0.00	11.71	0.02	11.73	0.00	2.90	2.91	0.00	0.00	0.00	0.00	0.00	0.02	34.44
Hot Start Exhaust	0.08	7.55	0.00	7.62	0.00	5.87	0.02	5.89	0.00	1.48	1.49	0.00	0.00	0.00	0.00	0.00	0.07	15.07
Total Exhaust	3.17	144.84	0.50	148.51	0.00	92.71	0.28	93.00	0.01	23.56	23.57	6.82	2.42	22.74	25.16	147.93	1.75	446.73
Particulate Matter Emissions																		
Exhaust	0.00	1.05	0.10	1.15	0.00	0.41	0.06	0.47	0.00	0.08	0.08	0.02	0.00	0.47	0.46	6.67	0.07	8.92
Tire Wear	0.03	8.09	0.01	8.13	0.00	3.23	0.01	3.23	0.00	0.58	0.59	0.03	0.02	0.37	0.39	1.53	0.03	13.92
Total PM Emissions	0.03	9.14	0.11	9.28	0.00	3.63	0.06	3.70	0.00	0.66	0.67	0.06	0.02	0.85	0.87	8.20	0.11	22.86
Fuel Consumed in 1000																		
Gasoline	59.49			7918.48	0.00			4108.40	0.15		1357.08		54.15		1447.69		28.22	14859.88
Diesel				9.18				5.69				62.01				2905.98		2982.86

TABLE C-10

2010 Annual Average On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck			Med. Duty Truck			Urban Bus		Heavy Gas Truck		Heavy Die. Motorcyc		TOTAL
Daily VMT (x 1000)	236828				97634			18683			410		8507		20894		1497 384479140
No. of Hot Trips	10214991				4152916			794620			0		0		0		99124 15261665
No. of Cold Trips	15574130				6336699			1213227			0		0		0		65828 23189897
No. of Daily Trips	25789129				10489622			2007855			0		0		0		164959 38451575
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																	
Running Exhaust	0.33	26.76	0.08	27.17	0.00	8.93	0.02	8.94	0.00	2.45	2.46	0.82	0.19	3.28	3.47	17.92	64.67
Cold Start Exhaust	0.05	25.46	0.01	25.52	0.00	12.11	0.00	12.11	0.00	3.62	3.62	0.00	0.00	0.00	0.00	0.83	42.09
Hot Start Exhaust	0.04	2.98	0.00	3.03	0.00	2.16	0.00	2.15	0.00	0.64	0.64	0.00	0.00	0.00	0.00	0.45	6.26
Total Exhaust	0.42	55.19	0.09	55.71	0.00	23.20	0.02	23.22	0.00	6.71	6.70	0.82	0.19	3.28	3.47	17.92	113.04
Diurnal Evaporation	0.37	33.18	0.00	33.56	0.00	10.32	0.00	10.32	0.00	2.07	2.06	0.00	0.12	2.33	2.45	0.24	48.64
Resting Losses	0.03	4.43	0.00	4.46	0.00	1.30	0.00	1.30	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.00	6.02
Hot Soak Evaporation	0.10	8.38	0.00	8.48	0.00	2.38	0.00	2.38	0.00	0.46	0.45	0.00	0.01	0.60	0.61	0.12	12.04
Running Losses	0.05	25.66	0.00	25.71	0.00	7.68	0.00	7.69	0.00	1.32	1.31	0.00	0.06	0.67	0.74	0.00	35.45
Total TOG Emission	0.98	126.85	0.09	127.93	0.00	44.88	0.02	44.89	0.00	10.80	10.80	0.82	0.39	6.89	7.26	17.92	215.17
Reactive Organic Gas Emissions																	
Running Exhaust	0.30	22.16	0.08	22.54	0.00	7.40	0.01	7.41	0.00	2.03	2.03	0.80	0.18	2.71	2.89	3.56	56.65
Cold Start Exhaust	0.05	21.08	0.01	21.14	0.00	10.02	0.00	10.03	0.00	3.00	3.00	0.00	0.00	0.00	0.00	0.77	34.93
Hot Start Exhaust	0.03	2.46	0.00	2.50	0.00	1.79	0.00	1.79	0.00	0.53	0.53	0.00	0.00	0.00	0.00	0.40	5.23
Total Exhaust	0.39	45.70	0.09	46.18	0.00	19.21	0.02	19.23	0.00	5.56	5.56	0.80	0.18	2.71	2.89	4.73	96.80
Diurnal Evaporation	0.37	33.18	0.00	33.56	0.00	10.32	0.00	10.32	0.00	2.07	2.06	0.00	0.12	2.33	2.45	0.24	48.64
Resting Losses	0.03	4.43	0.00	4.46	0.00	1.30	0.00	1.30	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.00	6.02
Hot Soak Evaporation	0.10	8.38	0.00	8.48	0.00	2.38	0.00	2.38	0.00	0.46	0.45	0.00	0.01	0.60	0.61	0.12	12.04
Running Losses	0.05	25.66	0.00	25.71	0.00	7.68	0.00	7.69	0.00	1.32	1.31	0.00	0.06	0.67	0.74	0.00	35.45
Total ROG Emissions	0.94	117.36	0.09	118.39	0.00	40.89	0.02	40.90	0.00	9.64	9.66	0.80	0.37	6.32	6.68	17.42	198.94
Carbon Monoxide Emissions																	
Running Exhaust	11.88	822.71	0.31	834.90	0.00	386.93	0.06	386.99	0.00	73.62	73.62	0.78	2.33	79.54	81.88	185.47	1582.00
Cold Start Exhaust	0.36	307.66	0.14	308.16	0.00	147.96	0.02	147.97	0.00	41.10	41.09	0.00	0.00	0.00	0.00	4.70	501.92
Hot Start Exhaust	0.26	33.33	0.11	33.70	0.00	26.25	0.02	26.28	0.00	7.44	7.43	0.00	0.00	0.00	0.00	1.52	68.95
Total Exhaust	12.51	1163.70	0.56	1176.76	0.00	561.14	0.11	561.25	0.00	122.16	122.16	0.78	2.33	79.54	81.88	185.47	2152.87
Running Exhaust	0.34	91.69	0.30	92.32	0.00	56.20	0.06	56.26	0.00	16.72	16.72	6.68	0.76	21.04	21.80	151.18	346.57
Cold Start Exhaust	0.00	15.72	0.00	15.73	0.00	8.91	0.00	8.92	0.00	2.65	2.65	0.00	0.00	0.00	0.00	0.03	27.33
Hot Start Exhaust	0.01	6.97	0.00	6.98	0.00	5.18	0.00	5.19	0.00	1.53	1.53	0.00	0.00	0.00	0.00	0.06	13.76
Total Exhaust	0.35	114.38	0.31	115.05	0.00	70.30	0.06	70.36	0.00	20.90	20.90	6.68	0.76	21.04	21.80	151.18	387.67
Particulate Matter Emissions																	
Exhaust	0.00	1.04	0.06	1.10	0.00	0.43	0.02	0.45	0.00	0.09	0.09	0.02	0.00	0.50	0.50	6.16	8.37
Tire Wear	0.00	8.52	0.01	8.53	0.00	3.52	0.00	3.52	0.00	0.67	0.67	0.04	0.01	0.40	0.40	1.68	14.87
Total PM Emissions	0.00	9.56	0.07	9.63	0.00	3.95	0.02	3.96	0.00	0.76	0.77	0.05	0.01	0.89	0.90	7.84	23.26
Fuel Consumed in 1000 Gallons																	
Gasoline	5.86			8112.49	0.00			4413.76	0.00		1562.06		16.99		1489.79	29.94	15608.05
Diesel				5.62				1.45				62.75			3156.34		3226.16

TABLE C-11

2010 Summer On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus		Heavy Gas Truck		Heavy Die. Motorcyc		TOTAL
Daily VMT (x 1000)	236832				97637				18686			412		8509		20895 1499		384481
No. of Hot Trips	10214993				4152917				794624			0		0		0 99126		15261666
No. of Cold Trips	15574133				6336701				1213230			0		0		0 65831		23189899
No. of Daily Trips	25789131				10489623				2007857			0		0		0 164960		38451576
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																		
Running Exhaust	0.32	27.19	0.08	27.59	0.00	9.09	0.02	9.10	0.00	2.50	2.51	0.82	0.20	3.36	3.56	17.92	3.92	65.41
Cold Start Exhaust	0.05	21.96	0.01	22.02	0.00	10.25	0.00	10.25	0.00	3.10	3.09	0.00	0.00	0.00	0.00	0.00	0.64	36.03
Hot Start Exhaust	0.03	2.59	0.00	2.63	0.00	1.87	0.00	1.87	0.00	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.50	5.53
Total Exhaust	0.40	51.74	0.09	52.24	0.00	21.22	0.02	21.24	0.00	6.16	6.14	0.82	0.20	3.36	3.56	17.92	5.05	106.98
Diurnal Evaporation	0.45	40.05	0.00	40.51	0.00	12.57	0.00	12.58	0.00	2.52	2.52	0.00	0.15	2.85	2.99	0.00	0.28	58.89
Resting Losses	0.03	3.96	0.00	3.99	0.00	1.21	0.00	1.20	0.00	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	5.43
Hot Soak Evaporation	0.07	6.42	0.00	6.49	0.00	1.81	0.00	1.82	0.00	0.35	0.35	0.00	0.01	0.46	0.47	0.00	0.10	9.20
Running Losses	0.04	25.32	0.00	25.36	0.00	7.72	0.00	7.73	0.00	1.34	1.33	0.00	0.06	0.69	0.76	0.00	0.00	35.17
Total TOG Emission	0.99	127.48	0.09	128.56	0.00	44.53	0.02	44.55	0.00	10.60	10.60	0.82	0.41	7.36	7.76	17.92	5.42	215.65
Reactive Organic Gas Emissions																		
Running Exhaust	0.29	22.51	0.08	22.88	0.00	7.53	0.01	7.55	0.00	2.07	2.07	0.80	0.18	2.78	2.96	17.42	3.58	57.25
Cold Start Exhaust	0.04	18.18	0.01	18.24	0.00	8.49	0.00	8.49	0.00	2.57	2.57	0.00	0.00	0.00	0.00	0.00	0.60	29.89
Hot Start Exhaust	0.03	2.14	0.00	2.18	0.00	1.55	0.00	1.55	0.00	0.46	0.46	0.00	0.00	0.00	0.00	0.00	0.44	4.63
Total Exhaust	0.36	42.84	0.09	43.30	0.00	17.57	0.02	17.59	0.00	5.10	5.10	0.80	0.18	2.78	2.96	17.42	4.62	91.78
Diurnal Evaporation	0.45	40.05	0.00	40.51	0.00	12.57	0.00	12.58	0.00	2.52	2.52	0.00	0.15	2.85	2.99	0.00	0.28	58.89
Resting Losses	0.03	3.96	0.00	3.99	0.00	1.21	0.00	1.20	0.00	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	5.43
Hot Soak Evaporation	0.07	6.42	0.00	6.49	0.00	1.81	0.00	1.82	0.00	0.35	0.35	0.00	0.01	0.46	0.47	0.00	0.10	9.20
Running Losses	0.04	25.32	0.00	25.36	0.00	7.72	0.00	7.73	0.00	1.34	1.33	0.00	0.06	0.69	0.76	0.00	0.00	35.17
Total ROG Emissions	0.95	118.58	0.09	119.62	0.00	40.88	0.02	40.90	0.00	9.54	9.55	0.80	0.39	6.78	7.16	17.42	4.98	200.45
Carbon Monoxide Emissions																		
Running Exhaust	11.52	832.19	0.31	844.03	0.00	391.98	0.06	392.04	0.00	74.61	74.61	0.78	2.43	82.88	85.31	185.47	19.43	1601.67
Cold Start Exhaust	0.34	260.41	0.14	260.89	0.00	118.12	0.02	118.14	0.00	33.02	33.01	0.00	0.00	0.00	0.00	0.00	3.67	415.71
Hot Start Exhaust	0.24	28.19	0.11	28.55	0.00	21.37	0.02	21.40	0.00	6.10	6.10	0.00	0.00	0.00	0.00	0.00	1.62	57.67
Total Exhaust	12.10	1120.79	0.56	1133.45	0.00	531.47	0.11	531.58	0.00	113.73	113.73	0.78	2.43	82.88	85.31	185.47	24.71	2075.04
Oxides of Nitrogen Emissions																		
Running Exhaust	0.33	88.44	0.30	89.06	0.00	54.35	0.06	54.40	0.00	16.18	16.17	6.68	0.79	21.76	22.55	151.18	1.52	341.58
Cold Start Exhaust	0.00	15.00	0.00	15.00	0.00	8.56	0.00	8.57	0.00	2.54	2.55	0.00	0.00	0.00	0.00	0.00	0.04	26.16
Hot Start Exhaust	0.01	6.70	0.00	6.71	0.00	5.00	0.00	5.01	0.00	1.47	1.47	0.00	0.00	0.00	0.00	0.00	0.05	13.24
Total Exhaust	0.34	110.14	0.31	110.80	0.00	67.91	0.06	67.96	0.00	20.19	20.20	6.68	0.79	21.76	22.55	151.18	1.64	381.00
Particulate Matter Emissions																		
Exhaust	0.00	1.04	0.06	1.10	0.00	0.43	0.02	0.45	0.00	0.09	0.09	0.02	0.00	0.50	0.50	6.16	0.09	8.37
Tire Wear	0.00	8.52	0.01	8.53	0.00	3.52	0.00	3.52	0.00	0.67	0.67	0.04	0.01	0.40	0.40	1.68	0.03	14.87
Total PM Emissions	0.00	9.56	0.07	9.63	0.00	3.95	0.02	3.96	0.00	0.76	0.77	0.05	0.01	0.89	0.90	7.84	0.11	23.26
Fuel Consumed in 1000 Gallons																		
Gasoline	5.86			8112.49	0.00			4413.76	0.00		1562.06		16.99		1489.79		29.94	15608.05
Diesel				5.62				1.45				62.75				3156.34		3226.16

TABLE C-12

2010 Winter On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus	Heavy Gas Truck			Heavy Die.	Motorcyc	TOTAL
Daily VMT (x 1000)	236832				97637				18686			412	8509			20895	1499	384481
No. of Hot Trips	10214993				4152917				794624			0	0			0	99126	15261666
No. of Cold Trips	15574133				6336701				1213230			0	0			0	65831	23189899
No. of Daily Trips	25789131				10489623				2007857			0	0			0	164960	38451576
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																		
Running Exhaust	0.35	26.15	0.08	26.58	0.00	8.71	0.02	8.71	0.00	2.39	2.39	0.82	0.18	3.17	3.34	17.92	3.86	63.65
Cold Start Exhaust	0.07	30.35	0.01	30.43	0.00	14.70	0.00	14.71	0.00	4.35	4.35	0.00	0.00	0.00	0.00	0.00	1.10	50.58
Hot Start Exhaust	0.04	3.52	0.00	3.58	0.00	2.56	0.00	2.55	0.00	0.75	0.75	0.00	0.00	0.00	0.00	0.00	0.38	7.27
Total Exhaust	0.46	60.03	0.09	60.58	0.00	25.97	0.02	26.00	0.00	7.49	7.48	0.82	0.18	3.17	3.34	17.92	5.36	121.51
Diurnal Evaporation	0.27	23.56	0.00	23.83	0.00	7.16	0.00	7.16	0.00	1.43	1.42	0.00	0.08	1.61	1.69	0.00	0.17	34.29
Resting Losses	0.04	5.10	0.00	5.13	0.00	1.43	0.00	1.44	0.00	0.27	0.28	0.00	0.00	0.00	0.00	0.00	0.00	6.85
Hot Soak Evaporation	0.13	11.14	0.00	11.26	0.00	3.18	0.00	3.17	0.00	0.61	0.61	0.00	0.01	0.80	0.81	0.00	0.15	16.01
Running Losses	0.08	26.14	0.00	26.21	0.00	7.63	0.00	7.62	0.00	1.29	1.29	0.00	0.07	0.65	0.72	0.00	0.00	35.85
Total TOG Emission	0.97	125.97	0.09	127.03	0.00	45.37	0.02	45.38	0.00	11.08	11.09	0.82	0.35	22	6.56	17.92	5.67	214.49
Reactive Organic Gas Emissions																		
Running Exhaust	0.32	21.66	0.08	22.05	0.00	7.21	0.01	7.22	0.00	1.98	1.98	0.80	0.17	2.62	2.79	17.42	3.54	55.81
Cold Start Exhaust	0.06	25.13	0.01	25.20	0.00	12.17	0.00	12.18	0.00	3.60	3.60	0.00	0.00	0.00	0.00	0.00	1.00	41.98
Hot Start Exhaust	0.04	2.92	0.00	2.96	0.00	2.12	0.00	2.12	0.00	0.62	0.62	0.00	0.00	0.00	0.00	0.00	0.35	6.06
Total Exhaust	0.42	49.70	0.09	50.22	0.00	21.50	0.02	21.52	0.00	6.20	6.20	0.80	0.17	2.62	2.79	17.42	4.90	103.84
Diurnal Evaporation	0.27	23.56	0.00	23.83	0.00	7.16	0.00	7.16	0.00	1.43	1.42	0.00	0.08	1.61	1.69	0.00	0.17	34.29
Resting Losses	0.04	5.10	0.00	5.13	0.00	1.43	0.00	1.44	0.00	0.27	0.28	0.00	0.00	0.00	0.00	0.00	0.00	6.85
Hot Soak Evaporation	0.13	11.14	0.00	11.26	0.00	3.18	0.00	3.17	0.00	0.61	0.61	0.00	0.01	0.80	0.81	0.00	0.15	16.01
Running Losses	0.08	26.14	0.00	26.21	0.00	7.63	0.00	7.62	0.00	1.29	1.29	0.00	0.07	0.65	0.72	0.00	0.00	35.85
Total ROG Emissions	0.93	115.64	0.09	116.67	0.00	40.90	0.02	40.90	0.00	9.79	9.81	0.80	0.34	5.68	6.01	17.42	5.21	196.82
Carbon Monoxide Emissions																		
Running Exhaust	12.39	809.43	0.31	822.13	0.00	379.87	0.06	379.93	0.00	72.24	72.24	0.78	2.20	74.86	77.07	185.47	16.86	1554.47
Cold Start Exhaust	0.39	373.83	0.14	374.35	0.00	189.73	0.02	189.75	0.00	52.41	52.41	0.00	0.00	0.00	0.00	0.00	6.13	622.62
Hot Start Exhaust	0.29	40.52	0.11	40.92	0.00	33.09	0.02	33.11	0.00	9.31	9.30	0.00	0.00	0.00	0.00	0.00	1.39	84.74
Total Exhaust	13.07	1223.77	0.56	1237.40	0.00	602.69	0.11	602.79	0.00	133.96	133.97	0.78	2.20	74.86	77.07	185.47	24.37	2261.84
Oxides of Nitrogen Emissions																		
Running Exhaust	0.35	96.24	0.30	96.90	0.00	58.80	0.06	58.87	0.00	17.49	17.49	6.68	0.73	20.03	20.75	151.18	1.71	353.56
Cold Start Exhaust	0.00	16.74	0.00	16.74	0.00	9.41	0.00	9.41	0.00	2.79	2.79	0.00	0.00	0.00	0.00	0.00	0.02	28.98
Hot Start Exhaust	0.01	7.35	0.00	7.36	0.00	5.44	0.00	5.44	0.00	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.08	14.47
Total Exhaust	0.37	120.33	0.31	121.00	0.00	73.65	0.06	73.71	0.00	21.88	21.89	6.68	0.73	20.03	20.75	151.18	1.80	397.01
Particulate Matter Emissions																		
Exhaust	0.00	1.04	0.06	1.10	0.00	0.43	0.02	0.45	0.00	0.09	0.09	0.02	0.00	0.50	0.50	6.16	0.09	8.37
Tire Wear	0.00	8.52	0.01	8.53	0.00	3.52	0.00	3.52	0.00	0.67	0.67	0.04	0.01	0.40	0.40	1.68	0.03	14.87
Total PM Emissions	0.00	9.56	0.07	9.63	0.00	3.95	0.02	3.96	0.00	0.76	0.77	0.05	0.01	0.89	0.90	7.84	0.11	23.26
Fuel Consumed in 1000 Gallons																		
Gasoline	5.86			8112.49	0.00			4413.76	0.00		1562.06		16.99		1489.79		29.94	15608.05
Diesel				5.62				1.45				62.75				3156.34		3226.16

TABLE C-13

2020 Annual Average On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus		Heavy Gas Truck		Heavy Die. Motorcyc		TOTAL
Daily VMT (x 1000)	259471				122892				23963			431		8694		24446		441630
No. of Hot Trips	11002132				5135631				1001748			0		0		0		111500
No. of Cold Trips	16806972				7843858				1530012			0		0		0		74128
No. of Daily Trips	27809113				12979494				2531765			0		0		0		185632
	CAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																		
Running Exhaust	0.00	10.88	0.00	10.87	0.00	5.24	0.00	5.23	0.00	1.55	1.55	0.85	0.00	2.51	2.51	20.14	4.48	45.64
Cold Start Exhaust	0.00	11.10	0.00	11.09	0.00	7.23	0.00	7.23	0.00	2.64	2.64	0.00	0.00	0.00	0.00	0.00	0.94	21.90
Hot Start Exhaust	0.00	1.08	0.00	1.07	0.00	1.09	0.00	1.09	0.00	0.40	0.40	0.00	0.00	0.00	0.00	0.00	0.49	3.06
Total Exhaust	0.00	23.05	0.00	23.05	0.00	13.56	0.00	13.56	0.00	4.59	4.60	0.85	0.00	2.51	2.51	20.14	5.92	70.62
Diurnal Evaporation	0.00	23.15	0.00	23.15	0.00	8.08	0.00	8.08	0.00	1.99	1.99	0.00	0.00	2.10	2.11	0.00	0.27	35.60
Resting Losses	0.00	2.42	0.00	2.42	0.00	0.71	0.00	0.71	0.00	0.18	0.19	0.00	0.00	0.00	0.00	0.00	0.00	3.31
Hot Soak Evaporation	0.00	4.80	0.00	4.80	0.00	1.63	0.00	1.63	0.00	0.38	0.39	0.00	0.00	0.52	0.52	0.00	0.12	7.46
Running Losses	0.00	18.22	0.00	18.21	0.00	6.48	0.00	6.47	0.00	1.26	1.26	0.00	0.00	0.20	0.20	0.00	0.00	26.15
Total TOG Emission	0.00	71.64	0.00	71.64	0.00	30.45	0.00	30.46	0.00	8.41	8.41	0.85	0.00	5.33	5.32	20.14	6.32	143.14
Reactive Organic Gas Emissions																		
Running Exhaust	0.00	9.00	0.00	9.00	0.00	4.34	0.00	4.34	0.00	1.28	1.28	0.83	0.00	2.08	2.08	19.57	4.10	41.20
Cold Start Exhaust	0.00	9.19	0.00	9.19	0.00	5.99	0.00	5.99	0.00	2.19	2.19	0.00	0.00	0.00	0.00	0.00	0.86	18.22
Hot Start Exhaust	0.00	0.89	0.00	0.89	0.00	0.90	0.00	0.90	0.00	0.33	0.33	0.00	0.00	0.00	0.00	0.00	0.46	2.58
Total Exhaust	0.00	19.08	0.00	19.08	0.00	11.22	0.00	11.22	0.00	3.80	3.80	0.83	0.00	2.08	2.08	19.57	5.42	62.01
Diurnal Evaporation	0.00	23.15	0.00	23.15	0.00	8.08	0.00	8.08	0.00	1.99	1.99	0.00	0.00	2.10	2.11	0.00	0.27	35.60
Resting Losses	0.00	2.42	0.00	2.42	0.00	0.71	0.00	0.71	0.00	0.18	0.19	0.00	0.00	0.00	0.00	0.00	0.00	3.31
Hot Soak Evaporation	0.00	4.80	0.00	4.80	0.00	1.63	0.00	1.63	0.00	0.38	0.39	0.00	0.00	0.52	0.52	0.00	0.12	7.46
Running Losses	0.00	18.22	0.00	18.21	0.00	6.48	0.00	6.47	0.00	1.26	1.26	0.00	0.00	0.20	0.20	0.00	0.00	26.15
Total ROG Emissions	0.00	67.68	0.00	67.67	0.00	28.12	0.00	28.12	0.00	7.62	7.61	0.83	0.00	4.90	4.89	19.57	5.82	134.53
Carbon Monoxide Emissions																		
Running Exhaust	0.00	669.99	0.00	669.99	0.00	463.73	0.00	463.74	0.00	90.67	90.67	0.81	0.00	86.56	86.56	225.00	21.40	1558.16
Cold Start Exhaust	0.00	180.24	0.01	180.25	0.00	133.76	0.00	133.76	0.00	35.23	35.22	0.00	0.00	0.00	0.00	0.00	5.26	354.50
Hot Start Exhaust	0.00	16.86	0.01	16.86	0.00	21.28	0.00	21.27	0.00	5.67	5.66	0.00	0.00	0.00	0.00	0.00	1.71	45.51
Total Exhaust	0.00	867.09	0.02	867.10	0.00	618.77	0.00	618.77	0.00	131.56	131.56	0.81	0.00	86.56	86.56	225.00	28.38	1958.20
Oxides of Nitrogen Emissions																		
Running Exhaust	0.00	73.00	0.00	73.00	0.00	60.03	0.00	60.03	0.00	18.08	18.09	6.92	0.00	17.94	17.95	172.61	1.87	350.44
Cold Start Exhaust	0.00	12.38	0.00	12.37	0.00	8.85	0.00	8.84	0.00	2.69	2.69	0.00	0.00	0.00	0.00	0.00	0.04	23.96
Hot Start Exhaust	0.00	6.78	0.00	6.78	0.00	5.97	0.00	5.97	0.00	1.80	1.80	0.00	0.00	0.00	0.00	0.00	0.08	14.63
Total Exhaust	0.00	92.15	0.00	92.16	0.00	74.85	0.00	74.85	0.00	22.57	22.56	6.92	0.00	17.94	17.95	172.61	1.99	389.04
Particulate Matter Emissions																		
Exhaust	0.00	1.13	0.00	1.12	0.00	0.53	0.00	0.54	0.00	0.11	0.11	0.02	0.00	0.52	0.52	6.42	0.10	8.81
Tire Wear	0.00	9.40	0.00	9.41	0.00	4.46	0.00	4.46	0.00	0.87	0.88	0.04	0.00	0.41	0.41	1.98	0.03	17.20
Total PM Emissions	0.00	10.53	0.00	10.53	0.00	4.99	0.00	4.99	0.00	0.98	0.99	0.05	0.00	0.93	0.92	8.40	0.13	26.03
Fuel Consumed in 1000 Gallons																		
Gasoline	0.00			8789.57	0.00			5532.80	0.00		2008.80		0.00		1532.82		34.39	17898.38
Diesel				0.00				0.00				65.00				3680.96		3745.96

TABLE C-14

2020 Summer On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus		Heavy Gas Truck		Heavy Die. Motorcyc		TOTAL
Daily VMT (x 1000)	259473				122893				23966			432		8696		24449		41632
No. of Hot Trips	11002133				5135632				1001750			0		0		0		11501
No. of Cold Trips	16806973				7843860				1530013			0		0		0		4131
No. of Daily Trips	27809114				12979496				2531767			0		0		0		85633
	CAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																		
Running Exhaust	0.00	11.07	0.00	11.07	0.00	5.34	0.00	5.33	0.00	1.58	1.59	0.85	0.00	2.58	2.59	20.14	4.50	46.07
Cold Start Exhaust	0.00	10.39	0.00	10.38	0.00	6.21	0.00	6.22	0.00	2.27	2.27	0.00	0.00	0.00	0.00	0.00	0.73	19.61
Hot Start Exhaust	0.00	1.00	0.00	1.00	0.00	0.95	0.00	0.96	0.00	0.35	0.36	0.00	0.00	0.00	0.00	0.00	0.54	2.86
Total Exhaust	0.00	22.47	0.00	22.47	0.00	12.51	0.00	12.51	0.00	4.20	4.21	0.85	0.00	2.58	2.59	20.14	5.78	68.53
Diurnal Evaporation	0.00	28.05	0.00	28.05	0.00	9.88	0.00	9.87	0.00	2.43	2.44	0.00	0.00	2.58	2.59	0.00	0.33	43.27
Resting Losses	0.00	2.14	0.00	2.14	0.00	0.56	0.00	0.56	0.00	0.19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	2.89
Hot Soak Evaporation	0.00	3.66	0.00	3.65	0.00	1.26	0.00	1.25	0.00	0.29	0.29	0.00	0.00	0.40	0.40	0.00	0.10	5.70
Running Losses	0.00	18.40	0.00	18.38	0.00	6.57	0.00	6.57	0.00	1.28	1.27	0.00	0.00	0.20	0.21	0.00	0.00	26.45
Total TOG Emission	0.00	74.72	0.00	74.72	0.00	30.77	0.00	30.78	0.00	8.40	8.39	0.85	0.00	5.77	5.76	20.14	6.20	146.84
Reactive Organic Gas Emissions																		
Running Exhaust	0.00	9.17	0.00	9.17	0.00	4.42	0.00	4.42	0.00	1.31	1.31	0.83	0.00	2.14	2.14	19.57	4.12	41.56
Cold Start Exhaust	0.00	8.61	0.00	8.61	0.00	5.14	0.00	5.14	0.00	1.88	1.88	0.00	0.00	0.00	0.00	0.00	0.67	16.30
Hot Start Exhaust	0.00	0.83	0.00	0.83	0.00	0.79	0.00	0.79	0.00	0.29	0.29	0.00	0.00	0.00	0.00	0.00	0.50	2.42
Total Exhaust	0.00	18.61	0.00	18.61	0.00	10.35	0.00	10.35	0.00	3.48	3.48	0.83	0.00	2.14	2.14	19.57	5.29	60.27
Diurnal Evaporation	0.00	28.05	0.00	28.05	0.00	9.88	0.00	9.87	0.00	2.43	2.44	0.00	0.00	2.58	2.59	0.00	0.33	43.27
Resting Losses	0.00	2.14	0.00	2.14	0.00	0.56	0.00	0.56	0.00	0.19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	2.89
Hot Soak Evaporation	0.00	3.66	0.00	3.65	0.00	1.26	0.00	1.25	0.00	0.29	0.29	0.00	0.00	0.40	0.40	0.00	0.10	5.70
Running Losses	0.00	18.40	0.00	18.38	0.00	6.57	0.00	6.57	0.00	1.28	1.27	0.00	0.00	0.20	0.21	0.00	0.00	26.45
Total ROG Emissions	0.00	70.86	0.00	70.85	0.00	28.62	0.00	28.63	0.00	7.67	7.66	0.83	0.00	5.32	5.31	19.57	5.71	138.58
Carbon Monoxide Emissions																		
Running Exhaust	0.00	678.85	0.00	678.84	0.00	470.17	0.00	470.17	0.00	91.98	91.98	0.81	0.00	90.72	90.74	225.00	22.78	1580.31
Cold Start Exhaust	0.00	170.21	0.01	170.22	0.00	107.62	0.00	107.62	0.00	28.34	28.33	0.00	0.00	0.00	0.00	0.00	4.10	310.28
Hot Start Exhaust	0.00	15.93	0.01	15.93	0.00	17.50	0.00	17.49	0.00	4.66	4.65	0.00	0.00	0.00	0.00	0.00	1.83	39.90
Total Exhaust	0.00	864.98	0.02	865.00	0.00	595.29	0.00	595.29	0.00	124.98	124.98	0.81	0.00	90.72	90.74	225.00	28.70	1930.51
Oxides of Nitrogen Emissions																		
Running Exhaust	0.00	70.59	0.00	70.60	0.00	58.12	0.00	58.12	0.00	17.50	17.51	6.92	0.00	18.59	18.60	172.61	1.78	346.11
Cold Start Exhaust	0.00	11.78	0.00	11.77	0.00	8.49	0.00	8.49	0.00	2.59	2.58	0.00	0.00	0.00	0.00	0.00	0.05	22.92
Hot Start Exhaust	0.00	6.51	0.00	6.50	0.00	5.76	0.00	5.77	0.00	1.74	1.73	0.00	0.00	0.00	0.00	0.00	0.08	14.08
Total Exhaust	0.00	88.88	0.00	88.89	0.00	72.37	0.00	72.38	0.00	21.82	21.82	6.92	0.00	18.59	18.60	172.61	1.91	383.11
Particulate Matter Emissions																		
Exhaust	0.00	1.13	0.00	1.12	0.00	0.53	0.00	0.54	0.00	0.11	0.11	0.02	0.00	0.52	0.52	6.42	0.10	8.81
Tire Wear	0.00	9.40	0.00	9.41	0.00	4.46	0.00	4.46	0.00	0.87	0.88	0.04	0.00	0.41	0.41	1.98	0.03	17.20
Total PM Emissions	0.00	10.53	0.00	10.53	0.00	4.99	0.00	4.99	0.00	0.98	0.99	0.05	0.00	0.93	0.92	8.40	0.13	26.03
Fuel Consumed in 1000 Gallons																		
Gasoline	0.00			8789.57	0.00			5532.80	0.00		2008.80		0.00		1532.82		34.39	17898.38
Diesel				0.00				0.00				65.00				3680.96		3745.96

TABLE C-15

2020 Winter On-Road Emissions by Vehicle Class
South Coast Air Basin - Tons/Day

	Light Duty Auto				Light Duty Truck				Med. Duty Truck			Urban Bus		Heavy Gas Truck		Heavy Die. Motorcyc		TOTAL
Daily VMT (x 1000)	259473				122893				23966			432		8696		24449		441632
No. of Hot Trips	11002133				5135632				1001750			0		0		0		111501 17251024
No. of Cold Trips	16806973				7843860				1530013			0		0		0		74131 26254982
No. of Daily Trips	27809114				12979496				2531767			0		0		0		185633 43506016
	NCAT	CAT	DSL	TOTAL	NCAT	CAT	DSL	TOTAL	NCAT	CAT	TOTAL	DSL	NCAT	CAT	TOTAL	DSL	NCAT	TOTAL
Total Organic Gas Emissions																		
Running Exhaust	0.00	10.60	0.00	10.61	0.00	5.10	0.00	5.10	0.00	1.51	1.51	0.85	0.00	2.40	2.41	20.14	4.45	45.04
Cold Start Exhaust	0.00	12.08	0.00	12.08	0.00	8.65	0.00	8.65	0.00	3.16	3.16	0.00	0.00	0.00	0.00	0.00	1.24	25.12
Hot Start Exhaust	0.00	1.18	0.00	1.17	0.00	1.27	0.00	1.27	0.00	0.47	0.46	0.00	0.00	0.00	0.00	0.00	0.43	3.35
Total Exhaust	0.00	23.85	0.00	23.85	0.00	15.02	0.00	15.02	0.00	5.14	5.16	0.85	0.00	2.40	2.41	20.14	6.12	73.53
Reactive Organic Gas Emissions																		
Running Exhaust	0.00	8.78	0.00	8.78	0.00	4.22	0.00	4.22	0.00	1.25	1.25	0.83	0.00	1.99	1.99	19.57	4.07	40.71
Cold Start Exhaust	0.00	10.00	0.00	10.00	0.00	7.16	0.00	7.16	0.00	2.62	2.62	0.00	0.00	0.00	0.00	0.00	1.13	20.91
Hot Start Exhaust	0.00	0.97	0.00	0.97	0.00	1.05	0.00	1.05	0.00	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.40	2.81
Total Exhaust	0.00	19.75	0.00	19.75	0.00	12.44	0.00	12.44	0.00	4.25	4.25	0.83	0.00	1.99	1.99	19.57	5.60	64.43
Carbon Monoxide Emissions																		
Running Exhaust	0.00	657.59	0.00	657.59	0.00	454.73	0.00	454.73	0.00	88.83	88.83	0.81	0.00	80.72	80.71	225.00	19.47	1527.16
Cold Start Exhaust	0.00	194.28	0.01	194.30	0.00	170.36	0.00	170.36	0.00	44.87	44.86	0.00	0.00	0.00	0.00	0.00	6.88	416.40
Hot Start Exhaust	0.00	18.17	0.01	18.17	0.00	26.57	0.00	26.56	0.00	7.08	7.07	0.00	0.00	0.00	0.00	0.00	1.55	53.37
Total Exhaust	0.00	870.03	0.02	870.04	0.00	651.65	0.00	651.64	0.00	140.77	140.77	0.81	0.00	80.72	80.71	225.00	27.94	1996.95
Oxides of Nitrogen Emissions																		
Running Exhaust	0.00	76.37	0.00	76.38	0.00	62.71	0.00	62.71	0.00	18.88	18.89	6.92	0.00	17.03	17.04	172.61	1.99	356.51
Cold Start Exhaust	0.00	13.21	0.00	13.21	0.00	9.35	0.00	9.35	0.00	2.84	2.84	0.00	0.00	0.00	0.00	0.00	0.03	25.42
Hot Start Exhaust	0.00	7.15	0.00	7.16	0.00	6.26	0.00	6.26	0.00	1.89	1.89	0.00	0.00	0.00	0.00	0.00	0.10	15.39
Total Exhaust	0.00	96.73	0.00	96.74	0.00	78.32	0.00	78.31	0.00	23.61	23.61	6.92	0.00	17.03	17.04	172.61	2.10	397.34
Exhaust	0.00	1.13	0.00	1.12	0.00	0.53	0.00	0.54	0.00	0.11	0.11	0.02	0.00	0.52	0.52	6.42	0.10	8.81
Tire Wear	0.00	9.40	0.00	9.41	0.00	4.46	0.00	4.46	0.00	0.87	0.88	0.04	0.00	0.41	0.41	1.98	0.03	17.20
Total PM Emissions	0.00	10.53	0.00	10.53	0.00	4.99	0.00	4.99	0.00	0.98	0.99	0.05	0.00	0.93	0.92	8.40	0.13	26.03
Fuel Consumed in 1000 Gallons																		
Gasoline	0.00			8789.57	0.00			5532.80	0.00		2008.80		0.00		1532.82		34.39	17898.38
Diesel				0.00				0.00				65.00				3680.96		3745.96

ATTACHMENT D

PROJECTED CONTROLLED EMISSIONS FOR YEARS 2000, 2006, 2010, 2020

Attachment D: Projected Controlled Emissions for Years 2000, 2006, 2010, 2020

TABLE D-1

**Year 2000 Emission Reductions Excluding Natural Sources By Control Measures in the
South Coast Air Basin (Planning Inventory - Tons/Day)**

(A) Reductions Without Overlapping/Double-Counting With Other Control Measures (1)

Base Year : 1993

MEASURE NAME		VOC RED. NOX RED. CO RED. NO2 RED.			
		TPD	TPD	TPD	TPD
BA-01	NSR Impact	29.92	11.19	5.58	11.19
BA-03	Adjustment for PAR 1130.1	-0.13	0.00	0.00	0.00
BA-04	Natural Event Policy on Windblown Dust	0.00	0.00	0.00	0.00
DPR-01	COE fr Pesticide Applications	0.00	0.00	0.00	0.00
BCM-01	Emissions Reductions from Paved Roads (R403)	0.00	0.00	0.00	0.00
BCM-06	Ems Red fr Fugitive Dust Sources to meet BACM Requirements (R403)	0.00	0.00	0.00	0.00
BCM-03	Fur Ems Red fr Unpaved Roads & Parking Lot and Staging Area(R403)	0.00	0.00	0.00	0.00
BCM-04	Emissions Reductions from Agricultural Activities (R403)	0.00	0.00	0.00	0.00
CMB-02B	Control of Ems from Small Boil and Proc Heaters	0.00	1.78	0.00	1.78
CMB-03	Area Source Credits for Commercial & Residential Combustion Equip	0.00	0.00	0.00	0.00
CMB-04	Area Source Credits for Energy Conservation/Efficiency	0.00	0.00	0.00	0.00
CMB-06	Emission Red. from Std for New Commercial & Residential Water Htr	0.00	0.00	0.00	0.00
CMB-07	Ems Red for Petroleum Flares	0.00	0.00	0.00	0.00
CMB-09	Ems Red from Petro Ref FCCU	0.00	0.00	0.00	0.00
CP-02	Mid Term Consumer Product Measure	0.00	0.00	0.00	0.00
CTS-02E	Fur Ems Red fr Adhesives (R1168)	0.00	0.00	0.00	0.00
CTS-02H	Fur Ems Red fr Metal Parts and Products (R1107)	5.08	0.00	0.00	0.00
CTS-02M	Fur Ems Red fr Plastic,Rubber,Glass Coatings (R1145)	0.97	0.00	0.00	0.00
CTS-02N	Fur Ems Red fr Solvent Degreaser (R1122)	0.00	0.00	0.00	0.00
CTS-02O	Fur Ems Red fr Usage of Solvents (R442C)	0.00	0.00	0.00	0.00
CTS-03	Consumer Product Education Labeling Program	0.00	0.00	0.00	0.00
CTS-04	Public Awareness/Education Programs-Area Sources	0.00	0.00	0.00	0.00
CTS-07	Further Emission Reductions from Architectural Coatings (R1113)	3.36	0.00	0.00	0.00
FUG-03	Further Emission Reductions from Floating Roof Tanks	0.00	0.00	0.00	0.00
FUG-04	Further Emission Reductions from Fugitive Sources (R1173)	0.71	0.00	0.00	0.00
MSC-01	Promotion of Ligher Color Roofing,Road Materials,Tree Planting	0.00	0.00	0.00	0.00
MSC-02	In-Use Compliance program for Air Pollution Control Equipment	0.00	0.00	0.00	0.00
MSC-03	Promotion of Catalyst-Surface Coating Technology Programs	0.00	0.00	0.00	0.00
PRC-01	Emission Reductions from Woodwork Operations	0.00	0.00	0.00	0.00
PRC-03	Emission Reductions from Restaurant Operations	0.14	0.00	0.00	0.00
WST-01	Emissions Reductions from Livestock Waste	3.55	0.00	0.00	0.00
WST-02	Emissions Reductions from Composting of Dewatered Sewage Sludge	0.00	0.00	0.00	0.00
WST-03	Emissions Reductions from Waste Burning (Rule 444)	0.00	0.00	0.00	0.00
WST-04	Disposal of Materials Containing VOC	0.28	0.00	0.00	0.00
TCM-01	Transportation Improvements	0.00	0.00	0.00	0.00
ATT-01	Telecommunications	0.00	0.00	0.00	0.00
ATT-02	Advanced Shuttle Transit	0.00	0.00	0.00	0.00
ATT-03	Zero-Emission Vehicles/Infrastructure	0.00	0.00	0.00	0.00
ATT-04	Alternative Fuel Vehicles/Infrastructure	0.00	0.00	0.00	0.00
ATT-05	Intelligent Vehicle Highway Systems (IVHS)	0.00	0.00	0.00	0.00
FLX-01	Intercredit Trading Program	0.00	0.00	0.00	0.00
FLX-02	Air Quality Investment Program	0.00	0.00	0.00	0.00
FSS-02	Market-Based Transportation Pricing	0.00	0.00	0.00	0.00
FSS-04	Emiss. Charges of \$5000/ton of VOC for Stat Srce emit >10t/yr	0.00	0.00	0.00	0.00
M1&M2	Combination of M-01 & M-02 (5)	9.29	4.57	172.76	4.99
M4,5,6&7	Combination of M-04-05-06-07	0.00	6.95	0.00	6.95
M11&M12	Industrial Eq	0.00	0.00	0.00	0.00
M-13	Marine	0.00	1.00	0.00	1.00
M-14	Locomotives/Trains	0.00	0.00	0.00	0.00
M-16	Pleasure Water Craft	1.29	0.00	0.00	0.00
MOF-07	Polluting Engines	0.00	0.00	0.00	0.00
MON-09	In Use Vehicle Emission Mitigation	0.00	0.00	0.00	0.00
MON-10	Emission Reduction Credit for Trucks Stop Electrification	0.00	0.00	0.00	0.00
ADV-CP-4	Long Term Measures for Consumer Products	0.00	0.00	0.00	0.00
ADV-CTS	Advance Tech-CTS	0.00	0.00	0.00	0.00
ADV-ARCH	Advance Tech-Achitectural Ctgs	0.00	0.00	0.00	0.00
ADV-CLNG	Advance Tech-Cleaning	0.00	0.00	0.00	0.00
ADV-FUG	Advance Tech-FUG	0.00	0.00	0.00	0.00
ADV-PRC	Advance Tech-PRC	0.00	0.00	0.00	0.00
ADV-MISC	Advance Tech-misc	0.00	0.00	0.00	0.00

Appendix III Base and Future Year Emission Inventories

ADV-ON	Market Incentives, Operational Measures (94AQMP : M-19)	0.00	0.00	0.00	0.00
ADV-M910	Off-Road 2.5g/bhp NOx std. & Ind, Mbl, Farm/NonFarm Equip	0.00	0.00	0.00	0.00
ADV-M15	Non-Military Aircraft (5)	0.15	0.17	0.00	0.16
ADV-OFF	Market Incentives, Operational Measures (94AQMP : M-20)	0.00	0.00	0.00	0.00
GRAND TOTAL (NET)		54.62	25.67	178.34	26.08

TABLE D-1

Year 2000 Emission Reductions Excluding Natural Sources By Control Measures in the South Coast Air Basin (Planning Inventory - Tons/Day)

(B) Reductions With Overlapping/Double-Counting With Other Control Measures (2) Base Year : 1993

MEASURE NAME		VOC RED.	NOX RED.	CO RED.	NO2 RED.
		TPD	TPD	TPD	TPD
BA-01	NSR Impact	29.92	11.19	5.58	11.19
BA-03	Adjustment for PAR 1130.1		-0.13	0.00	0.00
BA-04	Natural Event Policy on Windblown Dust		0.00	0.00	0.00
DPR-01	COE fr Pesticide Applications		0.00	0.00	0.00
BCM-01	Emissions Reductions from Paved Roads (R403)			0.00	0.00
BCM-06	Ems Red fr Fugitive Dust Sources to meet BACM Requirements (R403)			0.00	0.00
0.00	0.00				
BCM-03	Fur Ems Red fr Unpaved Roads & Parking Lot and Staging Area(R403)			0.00	0.00
0.00	0.00				
BCM-04	Emissions Reductions from Agricultural Activities (R403)			0.00	0.00
0.00					
CMB-02B	Control of Ems from Small Boil and Proc Heaters			0.00	1.78
CMB-03	Area Source Credits for Commercial & Residential Combustion Equip			0.00	0.00
0.00	0.00				
CMB-04	Area Source Credits for Energy Conservation/Efficiency			0.00	0.00
0.00					
CMB-06	Emission Red. from Std for New Commercial & Residential Water Htr			0.00	0.00
0.00	0.00				
CMB-07	Ems Red for Petroleum Flares		0.00	0.00	0.00
CMB-09	Ems Red from Petro Ref FCCU		0.00	0.00	0.00
CP-02	Mid Term Consumer Product Measure		0.00	0.00	0.00
CTS-02E	Fur Ems Red fr Adhesives (R1168)		0.00	0.00	0.00
CTS-02H	Fur Ems Red fr Metal Parts and Products (R1107)		5.08	0.00	0.00
CTS-02M	Fur Ems Red fr Plastic,Rubber,Glass Coatings (R1145)		0.97	0.00	0.00
0.00					
CTS-02N	Fur Ems Red fr Solvent Degreaser (R1122)		0.00	0.00	0.00
CTS-02O	Fur Ems Red fr Usage of Solvents (R442C)		0.00	0.00	0.00
CTS-03	Consumer Product Education Labeling Program		0.00	0.00	0.00
CTS-04	Public Awareness/Education Programs-Area Sources		0.00	0.00	0.00
0.00					
CTS-07	Further Emission Reductions from Architectural Coatings (R1113)		3.36	0.00	0.00
0.00					

Attachment D: Projected Controlled Emissions for Years 2000, 2006, 2010, 2020

FUG-03	Further Emission Reductions from Floating Roof Tanks	0.00	0.00	0.00	
0.00					
FUG-04	Further Emission Reductions from Fugitive Sources (R1173)	0.71	0.00	0.00	
0.00					
MSC-01	Promotion of Ligther Color Roofing,Road Materials,Tree Planting	0.00	0.00	0.00	
0.00					
MSC-02	In-Use Compliance program for Air Pollution Control Equipment	0.00	0.00	0.00	
0.00					
MSC-03	Promotion of Catalyst-Surface Coating Technology Programs	0.00	0.00	0.00	
0.00					
PRC-01	Emission Reductions from Woodwork Operations	0.00	0.00	0.00	
0.00					
PRC-03	Emission Reductions from Restaurant Operations	0.14	0.00	0.00	0.00
WST-01	Emissions Reductions from Livestock Waste	3.55	0.00	0.00	0.00
WST-02	Emissions Reductions from Composting of Dewatered Sewage Sludge		0.00	0.00	
0.00	0.00				
WST-03	Emissions Reductions from Waste Burning (Rule 444)	0.00	0.00	0.00	
0.00					
WST-04	Disposal of Materials Containing VOC	0.28	0.00	0.00	0.00
TCM-01	Transportation Improvements	0.00	0.00	0.00	0.00
ATT-01	Telecommunications	0.00	0.00	0.00	0.00
ATT-02	Advanced Shuttle Transit	0.00	0.00	0.00	0.00
ATT-03	Zero-Emission Vehicles/Infrastructure	0.00	0.00	0.00	0.00
ATT-04	Alternative Fuel Vehicles/Infrastructure	0.00	0.00	0.00	0.00
ATT-05	Intelligent Vehicle Highway Systems (IVHS)	0.00	0.00	0.00	0.00
FLX-01	Intercredit Trading Program	0.00	0.00	0.00	0.00
FLX-02	Air Quality Investment Program	0.00	0.00	0.00	0.00
FSS-02	Market-Based Transportation Pricing	0.00	0.00	0.00	0.00
FSS-04	Emiss. Charges of \$5000/ton of VOC for Stat Srce emit >10t/yr	0.00	0.00	0.00	
0.00					
M1&M2	Combination of M-01 & M-02 (5)	9.29	4.57	172.76	4.99
M4,5,6&7	Combination of M-04-05-06-07	0.00	6.95	0.00	6.95
M11&M12	Industrial Eq	0.00	0.00	0.00	0.00
M-13	Marine	0.00	1.00	0.00	1.00
M-14	Locomotives/Trains	0.00	0.00	0.00	0.00
M-16	Pleasure Water Craft	1.29	0.00	0.00	0.00
MOF-07	Polluting Engines	0.00	0.00	0.00	0.00
MON-09	In Use Vehicle Emission Mitigation	0.00	0.00	0.00	0.00
MON-10	Emission Reduction Credit for Trucks Stop Electrification	0.00	0.00	0.00	
0.00					
ADV-CP-4	Long Term Measures for Consumer Products	0.00	0.00	0.00	0.00
ADV-CTS	Advance Tech-CTS	0.00	0.00	0.00	0.00
ADV-ARCH	Advance Tech-Achitectural Ctgs	0.00	0.00	0.00	0.00

Appendix III Base and Future Year Emission Inventories

ADV-CLNG	Advance Tech-Cleaning	0.00	0.00	0.00	0.00
ADV-FUG	Advance Tech-FUG	0.00	0.00	0.00	0.00
ADV-PRC	Advance Tech-PRC	0.00	0.00	0.00	0.00
ADV-MISC	Advance Tech-misc	0.00	0.00	0.00	0.00
ADV-ON	Market Incentives, Operational Measures (94AQMP : M-19)			0.00	0.00
0.00					0.00
ADV-M910	Off-Road 2.5g/bhp NOx std. & Ind, Mbl, Farm/NonFarm Equip			0.00	0.00
0.00	0.00				
ADV-M15	Non-Military Aircraft (5)	0.15	0.17	0.00	0.16
ADV-OFF	Market Incentives, Operational Measures (94AQMP : M-20)			0.00	0.00
0.00					0.00

TABLE D-1

Year 2000 Emission Reductions Excluding Natural Sources By Control Measures in the
South Coast Air Basin (Planning Inventory - Tons/Day)

(C) Emission Summary for (Point, Area, Mobile Source, and Off-Road MV) Base Year : 1993

	Summer VOC	Winter NOX	CO	NO2
BASELINE EMISSIONS				
Point source	110.279	11.278	57.854	11.278
Area (nonfed)	350.229	52.794	236.758	73.296
Area (fed)	6.649	0.000	0.000	0.000
Reclaim	45.180		45.180	
Total Stationary	467.157	109.252	294.612	129.754
On-road	334.391	509.613	3297.852	535.670
Off-road (nonfed)	66.689	131.220	1240.116	130.172
Off-road (fed)	68.655	166.348	309.462	164.397
TOTAL	936.892	916.433	5142.042	959.993
EMISSION REDUCTIONS				
Point source	33.665	3.744	5.578	3.744
Area (nonfed)	10.227	9.235	0.000	9.235
Area (fed)	0.000	0.000	0.000	0.000
Total Stationary	43.892	12.978	5.578	12.978
On-road	9.289	11.524	172.761	11.942
Off-road (nonfed)	0.000	0.000	0.000	0.000
Off-road (fed)	1.437	1.167	0.000	1.157
TOTAL	54.618	25.669	178.339	26.078
REMAINING EMISSIONS				
Point source	76.616	7.534	52.276	7.534

Attachment D: Projected Controlled Emissions for Years 2000, 2006, 2010, 2020

Area (nonfed)	340.002	43.559	236.758	64.061
Area (fed)	6.649	0.000	0.000	0.000
Reclaim	45.180		45.180	
Total Stationary	423.267	96.274	289.034	116.776
On-road	325.102	498.089	3125.091	523.728
Off-road (nonfed)	66.689	131.220	1240.116	130.172
Off-road (fed)	67.218	165.181	309.462	163.239
TOTAL	882.275	890.764	4963.702	933.915
ERCs	4.475	1.529	1.972	1.529
HILO (3)	0.090	0.019	0.000	0.019
NSR Exemption	11.060	5.182	1.201	5.182
R518.2	1.500	1.500	1.500	1.500
ODC Conversion	9.350	0.000	0.000	0.000
GRAND TOTAL (T/D)	908.750	898.994	4968.375	942.145

- (1) Emission reductions for individual measures were estimated based on the sequence of listing contained here. When the sequence changes, reductions from each measure could be affected, but the net total reductions remain the same. The purpose of this table is to estimate total emission reductions without overlapping or double-counting between measures.
- (2) Emission reductions for individual measures were estimated in the absence of other measures. Therefore, the sequence of listing does not affect the reduction estimates. The purpose of this table is to provide emission reduction estimates for Appendix IV control measure summary tables as well as cost effectiveness analysis.
- (3) HILO=Bank for High employment LOw polluting companies.
- (4) Mobility Adjustment includes TCM-01, ATT-01, ATT-02, ATT-05 and adjustments are reflected in the CEPA baseline beyond year 2000.
- (5) M-02 and ADV-M15 are classified as 182 (e) (5) measures.

TABLE D-2

Year 2006 Emission Reductions Excluding Natural Sources By Control Measures in the
South Coast Air Basin (Annual Average Inventory - Tons/Day)

(A) Reductions Without Overlapping/Double-Counting With Other Control Measures (1) Base Year :
1993

MEASURE	NAME	VOC RED.	NOX RED.	CO RED.	SOX RED.	PM RED.
		TPD	TPD	TPD	TPD	TPD
BA-01	NSR Impact	42.86	16.15	8.96	0.19	1.91
BA-03	Adjustment for PAR 1130.1	0.00	0.00	0.00	0.00	0.00
BA-04	Natural Event Policy on Windblown Dust	0.00	0.00	0.00	0.00	54.24
DPR-01	COE fr Pesticide Applications	1.34	0.00	0.00	0.00	0.00
BCM-01	Emissions Reductions from Paved Roads (R403)	0.00	0.00	0.00	0.00	54.40
BCM-06	Ems Red fr Fugitive Dust Sources to meet BACM Requirements (R403)	0.00	0.00	0.00	0.00	5.88
BCM-03	Fur Ems Red fr Unpaved Roads & Parking Lot and Staging Area(R403)	0.00	0.00	0.00	0.00	15.21
BCM-04	Emissions Reductions from Agricultural Activities (R403)	0.00	0.00	0.00	0.00	0.03
CMB-02B	Control of Ems from Small Boil and Proc Heaters	0.00	1.46	0.00	0.00	0.00
CMB-03	Area Source Credits for Commercial & Residential Combustion Equip	0.00	0.00	0.00	0.00	0.00
CMB-04	Area Source Credits for Energy Conservation/Efficiency	0.00	0.00	0.00	0.00	0.00
CMB-06	Emission Red. from Std for New Commercial & Residential Water Htr	0.00	3.57	0.00	0.00	0.00
CMB-07	Ems Red for Petroleum Flares	0.00	0.00	0.00	0.00	0.00
CMB-09	Ems Red from Petro Ref FCCU	0.00	0.00	0.00	0.00	0.48
CP-02	Mid Term Consumer Product Measure	31.45	0.00	0.00	0.00	0.00
CTS-02E	Fur Ems Red fr Adhesives (R1168)	0.00	0.00	0.00	0.00	0.00
CTS-02H	Fur Ems Red fr Metal Parts and Products (R1107)	4.69	0.00	0.00	0.00	0.00
CTS-02M	Fur Ems Red fr Plastic,Rubber,Glass Coatings (R1145)	0.64	0.00	0.00	0.00	0.00
CTS-02N	Fur Ems Red fr Solvent Degreaser (R1122)	31.99	0.00	0.00	0.00	0.00
CTS-02O	Fur Ems Red fr Usage of Solvents (R442C)	2.63	0.00	0.00	0.00	0.00
CTS-03	Consumer Product Education Labeling Program	0.00	0.00	0.00	0.00	0.00
CTS-04	Public Awareness/Education Programs-Area Sources	0.00	0.00	0.00	0.00	0.00
CTS-07	Further Emission Reductions from Architectural Coatings (R1113)	17.45	0.00	0.00	0.00	0.00
FUG-03	Further Emission Reductions from Floating Roof Tanks	0.00	0.00	0.00	0.00	0.00
FUG-04	Further Emission Reductions from Fugitive Sources (R1173)	0.56	0.00	0.00	0.00	0.00
MSC-01	Promotion of Ligther Color Roofing,Road Materials,Tree Planting	0.00	0.00	0.00	0.00	0.00
MSC-02	In-Use Compliance program for Air Pollution Control Equipment	0.00	0.00	0.00	0.00	0.00
MSC-03	Promotion of Catalyst-Surface Coating Technology Programs	0.00	0.00	0.00	0.00	0.00
PRC-01	Emission Reductions from Woodwork Operations	0.00	0.00	0.00	0.00	8.61
PRC-03	Emission Reductions from Restaurant Operations	1.12	0.00	0.00	0.00	7.87
WST-01	Emissions Reductions from Livestock Waste	3.31	0.00	0.00	0.00	5.96
WST-02	Emissions Reductions from Composting of Dewatered Sewage Sludge	0.00	0.00	0.00	0.00	0.00
WST-03	Emissions Reductions from Waste Burning (Rule 444)	0.00	0.00	0.00	0.00	0.00
WST-04	Disposal of Materials Containing VOC	0.73	0.00	0.00	0.00	0.00
TCM-01	Transportation Improvements	0.00	0.00	0.00	0.00	0.00
ATT-01	Telecommunications	0.00	0.00	0.00	0.00	0.00
ATT-02	Advanced Shuttle Transit	0.00	0.00	0.00	0.00	0.00
ATT-03	Zero-Emission Vehicles/Infrastructure	0.00	0.00	0.00	0.00	0.00
ATT-04	Alternative Fuel Vehicles/Infrastructure	0.00	0.00	0.00	0.00	0.00
ATT-05	Intelligent Vehicle Highway Systems (IVHS)	0.00	0.00	0.00	0.00	0.00
FLX-01	Intercredit Trading Program	0.00	0.00	0.00	0.00	0.00
FLX-02	Air Quality Investment Program	0.00	0.00	0.00	0.00	0.00
FSS-02	Market-Based Transportation Pricing	0.00	0.00	0.00	0.00	0.00
FSS-04	Emiss. Charges of \$5000/ton of VOC for Stat Srce emit >10t/yr	0.00	0.00	0.00	0.00	0.00
M1&M2	Combination of M-01 & M-02 (5)	15.17	9.28	262.25	0.00	0.10

TABLE D-2

(A) Concluded.

M4,5& 7	Combination of M-04-05-06-07	4.85	46.04	0.00	0.00	0.00
M11&M12	Industrial Eq	13.37	7.50	512.12	0.00	0.00
M-13	Marine	0.00	11.88	0.00	0.00	0.00

Attachment D: Projected Controlled Emissions for Years 2000, 2006, 2010, 2020

M-14	Locomotives/Trains	0.00	11.11	0.00	0.00	0.00
M-16	Pleasure Water Craft	9.08	0.00	0.00	0.00	0.00
MOF-07	Polluting Engines	0.00	0.00	0.00	0.00	0.00
MON-09	In Use Vehicle Emission Mitigation	0.00	0.00	0.00	0.00	0.00
MON-10	Emission Reduction Credit for Trucks Stop Electrification	0.00	0.00	0.00	0.00	0.00
ADV-CP-4	Long Term Measures for Consumer Products	0.00	0.00	0.00	0.00	0.00
ADV-CTS	Advance Tech-CTS	6.13	0.00	0.00	0.00	0.00
ADV-ARCH	Advance Tech-Achitectural Ctgs	4.72	0.00	0.00	0.00	0.00
ADV-CLNG	Advance Tech-Cleaning	3.39	0.00	0.00	0.00	0.00
ADV-FUG	Advance Tech-FUG	3.85	0.00	0.00	0.00	0.00
ADV-PRC	Advance Tech-PRC	1.02	0.00	0.00	0.00	0.00
ADV-MISC	Advance Tech-misc	0.47	0.00	0.00	0.00	0.00
ADV-ON	Market Incentives, Operational Measures (94AQMP : M-19)	0.00	0.00	0.00	0.00	0.00
ADV-M910	Off-Road 2.5g/bhp NOx std. & Ind, Mbl, Farm/NonFarm Equip	0.92	8.51	0.00	0.00	0.00
ADV-M15	Non-Military Aircraft (5)	1.45	1.89	0.00	0.00	0.00
ADV-OFF	Market Incentives, Operational Measures (94AQMP : M-20)	0.00	0.00	0.00	0.00	0.00
GRAND TOTAL (NET)		203.20	117.39	783.33	0.19	154.69

TABLE D-2

Year 2006 Emission Reductions Excluding Natural Sources By Control Measures in the
South Coast Air Basin (Annual Average Inventory - Tons/Day)

(B) Reductions With Overlapping/Double-Counting With Other Control Measures(2) Base Year : 1993

MEASURE	NAME	VOC RED.	NOX RED.	CO RED.	SOX RED.	PM RED.
		TPD	TPD	TPD	TPD	TPD
BA-01	NSR Impact	42.86	16.15	8.96	0.19	1.91
BA-03	Adjustment for PAR 1130.1	0.00	0.00	0.00	0.00	0.00
BA-04	Natural Event Policy on Windblown Dust	0.00	0.00	0.00	0.00	54.24
DPR-01	COE fr Pesticide Applications	1.34	0.00	0.00	0.00	0.00
BCM-01	Emissions Reductions from Paved Roads (R403)	0.00	0.00	0.00	0.00	54.40
BCM-06	Ems Red fr Fugitive Dust Sources to meet BACM Requirements (R403)	0.00	0.00	0.00	0.00	5.88
BCM-03	Fur Ems Red fr Unpaved Roads & Parking Lot and Staging Area(R403)	0.00	0.00	0.00	0.00	15.21
BCM-04	Emissions Reductions from Agricultural Activities (R403)	0.00	0.00	0.00	0.00	0.03
CMB-02B	Control of Ems from Small Boil and Proc Heaters	0.00	1.46	0.00	0.00	0.00
CMB-03	Area Source Credits for Commercial & Residential Combustion Equip	0.00	0.00	0.00	0.00	0.00
CMB-04	Area Source Credits for Energy Conservation/Efficiency	0.00	0.00	0.00	0.00	0.00
CMB-06	Emission Red. from Std for New Commercial & Residential Water Htr	0.00	3.57	0.00	0.00	0.00
CMB-07	Ems Red for Petroleum Flares	0.00	0.00	0.00	0.00	0.00
CMB-09	Ems Red from Petro Ref FCCU	0.00	0.00	0.00	0.00	0.48
CP-02	Mid Term Consumer Product Measure	31.45	0.00	0.00	0.00	0.00
CTS-02E	Fur Ems Red fr Adhesives (R1168)	0.00	0.00	0.00	0.00	0.00
CTS-02H	Fur Ems Red fr Metal Parts and Products (R1107)	4.69	0.00	0.00	0.00	0.00
CTS-02M	Fur Ems Red fr Plastic,Rubber,Glass Coatings (R1145)	0.64	0.00	0.00	0.00	0.00
CTS-02N	Fur Ems Red fr Solvent Degreaser (R1122)	31.99	0.00	0.00	0.00	0.00
CTS-02O	Fur Ems Red fr Usage of Solvents (R442C)	2.63	0.00	0.00	0.00	0.00
CTS-03	Consumer Product Education Labeling Program	0.00	0.00	0.00	0.00	0.00
CTS-04	Public Awareness/Education Programs-Area Sources	0.00	0.00	0.00	0.00	0.00
CTS-07	Further Emission Reductions from Architectural Coatings (R1113)	17.45	0.00	0.00	0.00	0.00

TABLE D-2

(B) Concluded

FUG-03	Further Emission Reductions from Floating Roof Tanks	0.00	0.00	0.00	0.00	0.00
FUG-04	Further Emission Reductions from Fugitive Sources (R1173)	0.56	0.00	0.00	0.00	0.00
MSC-01	Promotion of Lighter Color Roofing, Road Materials, Tree Planting	0.00	0.00	0.00	0.00	0.00
MSC-02	In-Use Compliance program for Air Pollution Control Equipment	0.00	0.00	0.00	0.00	0.00
MSC-03	Promotion of Catalyst-Surface Coating Technology Programs	0.00	0.00	0.00	0.00	0.00
PRC-01	Emission Reductions from Woodwork Operations	0.00	0.00	0.00	0.00	8.61
PRC-03	Emission Reductions from Restaurant Operations	1.12	0.00	0.00	0.00	7.87
WST-01	Emissions Reductions from Livestock Waste	3.31	0.00	0.00	0.00	5.96
WST-02	Emissions Reductions from Composting of Dewatered Sewage Sludge	0.00	0.00	0.00	0.00	0.00
WST-03	Emissions Reductions from Waste Burning (Rule 444)	0.00	0.00	0.00	0.00	0.00
WST-04	Disposal of Materials Containing VOC	0.73	0.00	0.00	0.00	0.00
TCM-01	Transportation Improvements	0.00	0.00	0.00	0.00	0.00
ATT-01	Telecommunications	0.00	0.00	0.00	0.00	0.00
ATT-02	Advanced Shuttle Transit	0.00	0.00	0.00	0.00	0.00
ATT-03	Zero-Emission Vehicles/Infrastructure	0.00	0.00	0.00	0.00	0.00
ATT-04	Alternative Fuel Vehicles/Infrastructure	0.00	0.00	0.00	0.00	0.00
ATT-05	Intelligent Vehicle Highway Systems (IVHS)	0.00	0.00	0.00	0.00	0.00
FLX-01	Intercredit Trading Program	0.00	0.00	0.00	0.00	0.00
FLX-02	Air Quality Investment Program	0.00	0.00	0.00	0.00	0.00
FSS-02	Market-Based Transportation Pricing	0.00	0.00	0.00	0.00	0.00
FSS-04	Emiss. Charges of \$5000/ton of VOC for Stat Srce emit >10t/yr	0.00	0.00	0.00	0.00	0.00
M1&M2	Combination of M-01 & M-02 (5)	15.17	9.28	262.25	0.00	0.10
M4,5,6& 7	Combination of M-04-05-06-07	4.85	46.04	0.00	0.00	0.00
M11&M12	Industrial Eq	13.37	7.50	512.12	0.00	0.00
M-13	Marine	0.00	11.88	0.00	0.00	0.00
M-14	Locomotives/Trains	0.00	11.11	0.00	0.00	0.00
M-16	Pleasure Water Craft	9.08	0.00	0.00	0.00	0.00
MOF-07	Polluting Engines	0.00	0.00	0.00	0.00	0.00
MON-09	In Use Vehicle Emission Mitigation	0.00	0.00	0.00	0.00	0.00
MON-10	Emission Reduction Credit for Trucks Stop Electrification	0.00	0.00	0.00	0.00	0.00
ADV-CP-4	Long Term Measures for Consumer Products	0.00	0.00	0.00	0.00	0.00
ADV-CTS	Advance Tech-CTS	6.13	0.00	0.00	0.00	0.00
ADV-ARCH	Advance Tech-Achitectural Ctgs	4.72	0.00	0.00	0.00	0.00
ADV-CLNG	Advance Tech-Cleaning	3.39	0.00	0.00	0.00	0.00
ADV-FUG	Advance Tech-FUG	3.85	0.00	0.00	0.00	0.00
ADV-PRC	Advance Tech-PRC	1.02	0.00	0.00	0.00	0.00
ADV-MISC	Advance Tech-misc	0.47	0.00	0.00	0.00	0.00
ADV-ON	Market Incentives, Operational Measures (94AQMP : M-19)	0.00	0.00	0.00	0.00	0.00
ADV-M910	Off-Road 2.5g/bhp NOx std. & Ind, Mbl, Farm/NonFarm Equip	0.92	8.51	0.00	0.00	0.00
ADV-M15	Non-Military Aircraft (5)	1.45	1.89	0.00	0.00	0.00
ADV-OFF	Market Incentives, Operational Measures (94AQMP : M-20)	0.00	0.00	0.00	0.00	0.00

TABLE D-2

Year 2006 Emission Reductions Excluding Natural Sources By Control Measures in the
South Coast Air Basin (Annual Average Inventory - Tons/Day)
(C) Emission Summary for (Point, Area, Mobile Source, and Off-Road MV) Base Year : 1993

	VOC	NOX	CO	SOX	PM10
BASELINE EMISSIONS					
Point source	97.263	8.325	57.703	0.681	14.728
Area (nonfed)	355.100	63.376	133.397	1.266	409.847
Area (fed)	6.703	0.000	0.000	0.000	0.000
Reclaim	31.764		11.374		
Total Stationary	459.066	103.465	191.100	13.321	424.575
On-road	207.204	405.528	2010.213	15.490	13.802
Off-road (nonfed)	52.209	86.362	1008.379	2.116	5.922
Off-road (fed)	68.081	144.451	354.158	35.332	9.706
TOTAL	786.560	739.806	3563.852	66.259	454.005
EMISSION REDUCTIONS					
Point source	51.422	4.448	8.961	0.190	2.396
Area (nonfed)	105.597	16.731	0.000	0.000	152.203
Area (fed)	1.341	0.000	0.000	0.000	0.000
Total Stationary	158.359	21.179	8.961	0.190	154.599
On-road	20.017	55.325	262.251	0.000	0.096
Off-road (nonfed)	13.222	12.715	491.261	0.000	0.000
Off-road (fed)	11.599	28.175	20.859	0.000	0.000
TOTAL	203.197	117.394	783.332	0.190	154.695
REMAINING EMISSIONS					
Point source	45.843	3.877	48.741	0.491	12.332
Area (nonfed)	249.503	46.645	133.397	1.266	257.643
Area (fed)	5.362	0.000	0.000	0.000	0.000
Reclaim	31.764		11.374		
Total Stationary	300.709	82.286	182.138	13.131	269.976
On-road	187.187	350.203	1747.962	15.490	13.706
Off-road (nonfed)	38.987	73.646	517.118	2.116	5.922
Off-road (fed)	56.482	116.276	333.299	35.332	9.706
TOTAL	583.364	622.412	2780.518	66.069	299.310
ERCs	8.260	1.730	3.630	0.120	1.210
HILO (3)	0.090	0.019	0.000	0.014	0.019
NSR Exemption	19.250	9.020	2.090	0.000	0.000
R518.2	1.500	1.500	1.500	0.500	0.500
ODC Conversion	10.470	0.000	0.000	0.000	0.000
GRAND TOTAL (T/D)	622.934	634.681	2787.738	66.703	301.039

- (1) Emission reductions for individual measures were estimated based on the sequence of listing contained here. When the sequence changes, reductions from each measure could be affected, but the net total reductions remain the same. The purpose of this table is to estimate total emission reductions without overlapping or double-counting between measures.
- (2) Emission reductions for individual measures were estimated in the absence of other measures. Therefore, the sequence of listing does not affect the reduction estimates. The purpose of this table is to provide emission reduction estimates for Appendix IV control measure summary tables as well as cost effectiveness analysis.
- (3) HILO=Bank for High employment LOW polluting companies.
- (4) Mobility Adjustment includes TCM-01, ATT-01, ATT-02, ATT-05 and adjustments are reflected in the CEPA baseline beyond year 2000. Emission reductions from the adjustment are 14.73 T/D, -2.25 T/D, 93.01 T/D, 0.09 T/D and 0.14 T/D for VOC, NOx, CO, SOx and PM₁₀ respectively. The reductions are reflected in the CEPA baseline.
- (5) M-02 and ADV-M15 are classified as 182 (e) (5) measures.

Appendix III Base and Future Year Emission Inventories

TABLE D-3

Year 2010 Emission Reductions Excluding Natural Sources By Control Measures in the South Coast Air Basin (Planning Inventory - Tons/Day)

(A) Reductions Without Overlapping/Double-Counting With Other Control Measures (1) Base Year : 1993

MEASURE NAME		VOC RED.		NOX RED.		CO RED.		NO2 RED.	
		TPD	TPD	TPD	TPD	TPD	TPD	TPD	TPD
BA-01	NSR Impact	66.31	20.14	9.32	20.14				
BA-03	Adjustment for PAR 1130.1		0.00	0.00	0.00	0.00			
BA-04	Natural Event Policy on Windblown Dust			0.00	0.00	0.00	0.00	0.00	
DPR-01	COE fr Pesticide Applications		1.46	0.00	0.00	0.00			
BCM-01	Emissions Reductions from Paved Roads (R403)			0.00	0.00	0.00	0.00		
BCM-06	Ems Red fr Fugitive Dust Sources to meet BACM Requirements (R403)				0.00	0.00	0.00	0.00	
BCM-03	Fur Ems Red fr Unpaved Roads & Parking Lot and Staging Area(R403)				0.00	0.00	0.00	0.00	
BCM-04	Emissions Reductions from Agricultural Activities (R403)			0.00	0.00	0.00	0.00	0.00	
CMB-02B	Control of Ems from Small Boil and Proc Heaters			0.00	1.28	0.00	1.28		
CMB-03	Area Source Credits for Commercial & Residential Combustion Equip				0.00	0.00	0.00	0.00	
CMB-04	Area Source Credits for Energy Conservation/Efficiency			0.00	0.00	0.00	0.00		
CMB-06	Emission Red. from Std for New Commercial & Residential Water Htr				0.00	7.63	0.00	7.63	
CMB-07	Ems Red for Petroleum Flares		0.00	0.00	0.00	0.00			
CMB-09	Ems Red from Petro Ref FCCU		0.00	0.00	0.00	0.00			
CP-02	Mid Term Consumer Product Measure		34.02	0.00	0.00	0.00			
CTS-02E	Fur Ems Red fr Adhesives (R1168)		1.32	0.00	0.00	0.00			
CTS-02H	Fur Ems Red fr Metal Parts and Products (R1107)			5.36	0.00	0.00	0.00		
CTS-02M	Fur Ems Red fr Plastic,Rubber,Glass Coatings (R1145)			0.83	0.00	0.00	0.00	0.00	
CTS-02N	Fur Ems Red fr Solvent Degreaser (R1122)		35.25	0.00	0.00	0.00	0.00		
CTS-02O	Fur Ems Red fr Usage of Solvents (R442C)		3.22	0.00	0.00	0.00			
CTS-03	Consumer Product Education Labeling Program			0.00	0.00	0.00	0.00		
CTS-04	Public Awareness/Education Programs-Area Sources			0.00	0.00	0.00	0.00		
CTS-07	Further Emission Reductions from Architectural Coatings (R1113)			39.30	0.00	0.00	0.00	0.00	
FUG-03	Further Emission Reductions from Floating Roof Tanks			0.00	0.00	0.00	0.00	0.00	
FUG-04	Further Emission Reductions from Fugitive Sources (R1173)			0.50	0.00	0.00	0.00	0.00	
MSC-01	Promotion of Ligher Color Roofing,Road Materials,Tree Planting				0.00	0.00	0.00	0.00	
MSC-02	In-Use Compliance program for Air Pollution Control Equipment				0.00	0.00	0.00	0.00	
MSC-03	Promotion of Catalyst-Surface Coating Technology Programs				0.00	0.00	0.00	0.00	
PRC-01	Emission Reductions from Woodwork Operations			0.00	0.00	0.00	0.00	0.00	
PRC-03	Emission Reductions from Restaurant Operations			1.11	0.00	0.00	0.00	0.00	
WST-01	Emissions Reductions from Livestock Waste		3.29	0.00	0.00	0.00			
WST-02	Emissions Reductions from Composting of Dewatered Sewage Sludge				0.00	0.00	0.00	0.00	
WST-03	Emissions Reductions from Waste Burning (Rule 444)			0.00	0.00	0.00	0.00	0.00	
WST-04	Disposal of Materials Containing VOC		0.75	0.00	0.00	0.00	0.00		
TCM-01	Transportation Improvements		0.00	0.00	0.00	0.00			
ATT-01	Telecommunications		0.00	0.00	0.00	0.00			
ATT-02	Advanced Shuttle Transit		0.00	0.00	0.00	0.00			
ATT-03	Zero-Emission Vehicles/Infrastructure			0.00	0.00	0.00	0.00		
ATT-04	Alternative Fuel Vehicles/Infrastructure			0.00	0.00	0.00	0.00		
ATT-05	Intelligent Vehicle Highway Systems (IVHS)			0.00	0.00	0.00	0.00	0.00	
FLX-01	Intercredit Trading Program		0.00	0.00	0.00	0.00			
FLX-02	Air Quality Investment Program		0.00	0.00	0.00	0.00			
FSS-02	Market-Based Transportation Pricing			0.00	0.00	0.00	0.00		
FSS-04	Emiss. Charges of \$5000/ton of VOC for Stat Srce emit >10t/yr				0.00	0.00	0.00	0.00	
M1&M2	Combination of M-01 & M-02 (5)		19.41	17.09	301.75	18.62			
M4,5,6&7	Combination of M-04-05-06-07		8.82	61.74	0.00	61.74			
M11&M12	Industrial Eq		32.40	17.44	1038.32	17.44			
M-13	Marine		0.00	15.33	0.00	15.33			
M-14	Locomotives/Trains		0.00	17.22	0.00	17.22			
M-16	Pleasure Water Craft		21.43	0.00	0.00	0.00			
MOF-07	Polluting Engines		0.00	0.00	0.00	0.00			
MON-09	In Use Vehicle Emission Mitigation			0.00	0.00	0.00	0.00		
MON-10	Emission Reduction Credit for Trucks Stop Electrification				0.00	0.00	0.00	0.00	
ADV-CP-4	Long Term Measures for Consumer Products			42.91	0.00	0.00	0.00		
ADV-CTS	Advance Tech-CTS		20.29	0.00	0.00	0.00			
ADV-ARCH	Advance Tech-Achitectural Ctgs			20.25	0.00	0.00	0.00	0.00	
ADV-CLNG	Advance Tech-Cleaning		19.09	0.00	0.00	0.00			
ADV-FUG	Advance Tech-FUG		18.30	0.00	0.00	0.00			
ADV-PRC	Advance Tech-PRC		8.24	0.00	0.00	0.00			
ADV-MISC	Advance Tech-misc		2.76	0.00	0.00	0.00			
ADV-ON	Market Incentives, Operational Measures (94AQMP : M-19)			36.78	6.25	0.00	6.51		
ADV-M910	Off-Road 2.5g/bhp NOx std. & Ind, Mbl, Farm/NonFarm Equip			4.48	46.55	0.00	46.49		

Attachment D: Projected Controlled Emissions for Years 2000, 2006, 2010, 2020

ADV-M15	Non-Military Aircraft (5)	3.13	5.55	0.00	5.25		
ADV-OFF	Market Incentives, Operational Measures (94AQMP : M-20)	18.04	3.01	0.00	2.96		
GRAND TOTAL (NET)		469.02	219.23	1349.39	220.61		

TABLE D-3

**Year 2010 Emission Reductions Excluding Natural Sources By Control Measures in the
South Coast Air Basin (Planning Inventory - Tons/Day)**

(B) Reductions With Overlapping/Double-Counting With Other Control Measures (2) Base Year : 1993

MEASURE NAME		VOC RED.		NOX RED.		CO RED.		NO2 RED.	
		TPD	TPD	TPD	TPD				
BA-01	NSR Impact	66.31	20.14	9.32	20.14				
BA-03	Adjustment for PAR 1130.1		0.00	0.00	0.00	0.00			
BA-04	Natural Event Policy on Windblown Dust		0.00	0.00	0.00	0.00			
DPR-01	COE fr Pesticide Applications	1.46	0.00	0.00	0.00				
BCM-01	Emissions Reductions from Paved Roads (R403)		0.00	0.00	0.00	0.00			
BCM-06	Ems Red fr Fugitive Dust Sources to meet BACM Requirements (R403)		0.00	0.00	0.00	0.00			
BCM-03	Fur Ems Red fr Unpaved Roads & Parking Lot and Staging Area(R403)		0.00	0.00	0.00	0.00			
BCM-04	Emissions Reductions from Agricultural Activities (R403)		0.00	0.00	0.00	0.00			
CMB-02B	Control of Ems from Small Boil and Proc Heaters		0.00	1.28	0.00	1.28			
CMB-03	Area Source Credits for Commercial & Residential Combustion Equip		0.00	0.00	0.00	0.00			
CMB-04	Area Source Credits for Energy Conservation/Efficiency		0.00	0.00	0.00	0.00			
CMB-06	Emission Red. from Std for New Commercial & Residential Water Htr		0.00	7.63	0.00	7.63			
CMB-07	Ems Red for Petroleum Flares	0.00	0.00	0.00	0.00				
CMB-09	Ems Red from Petro Ref FCCU	0.00	0.00	0.00	0.00				
CP-02	Mid Term Consumer Product Measure		34.02	0.00	0.00	0.00			
CTS-02E	Fur Ems Red fr Adhesives (R1168)	1.32	0.00	0.00	0.00				
CTS-02H	Fur Ems Red fr Metal Parts and Products (R1107)		5.36	0.00	0.00	0.00			
CTS-02M	Fur Ems Red fr Plastic,Rubber,Glass Coatings (R1145)		0.83	0.00	0.00	0.00			
CTS-02N	Fur Ems Red fr Solvent Degreaser (R1122)		35.25	0.00	0.00	0.00			
CTS-02O	Fur Ems Red fr Usage of Solvents (R442C)		3.22	0.00	0.00	0.00			
CTS-03	Consumer Product Education Labeling Program		0.00	0.00	0.00	0.00			
CTS-04	Public Awareness/Education Programs-Area Sources		0.00	0.00	0.00	0.00			
CTS-07	Further Emission Reductions from Architectural Coatings (R1113)		39.30	0.00	0.00	0.00			
FUG-03	Further Emission Reductions from Floating Roof Tanks		0.00	0.00	0.00	0.00			
FUG-04	Further Emission Reductions from Fugitive Sources (R1173)		0.50	0.00	0.00	0.00			
MSC-01	Promotion of Lighter Color Roofing,Road Materials,Tree Planting		0.00	0.00	0.00	0.00			
MSC-02	In-Use Compliance program for Air Pollution Control Equipment		0.00	0.00	0.00	0.00			
MSC-03	Promotion of Catalyst-Surface Coating Technology Programs		0.00	0.00	0.00	0.00			
PRC-01	Emission Reductions from Woodwork Operations		0.00	0.00	0.00	0.00			
PRC-03	Emission Reductions from Restaurant Operations		1.11	0.00	0.00	0.00			
WST-01	Emissions Reductions from Livestock Waste		3.29	0.00	0.00	0.00			
WST-02	Emissions Reductions from Composting of Dewatered Sewage Sludge		0.00	0.00	0.00	0.00			
WST-03	Emissions Reductions from Waste Burning (Rule 444)		0.00	0.00	0.00	0.00			
WST-04	Disposal of Materials Containing VOC	0.75	0.00	0.00	0.00				
TCM-01	Transportation Improvements	0.00	0.00	0.00	0.00				
ATT-01	Telecommunications	0.00	0.00	0.00	0.00				
ATT-02	Advanced Shuttle Transit	0.00	0.00	0.00	0.00				
ATT-03	Zero-Emission Vehicles/Infrastructure	0.00	0.00	0.00	0.00				
ATT-04	Alternative Fuel Vehicles/Infrastructure	0.00	0.00	0.00	0.00				
ATT-05	Intelligent Vehicle Highway Systems (IVHS)	0.00	0.00	0.00	0.00				
FLX-01	Intercredit Trading Program	0.00	0.00	0.00	0.00				
FLX-02	Air Quality Investment Program	0.00	0.00	0.00	0.00				
FSS-02	Market-Based Transportation Pricing	0.00	0.00	0.00	0.00				
FSS-04	Emiss. Charges of \$5000/ton of VOC for Stat Srce emit >10t/yr		0.00	0.00	0.00	0.00			
M1&M2	Combination of M-01 & M-02 (5)	19.41	17.09	301.75	18.62				
M4,5,6&7	Combination of M-04-05-06-07	8.82	61.74	0.00	61.74				
M11&M12	Industrial Eq	32.40	17.44	1038.32	17.44				
M-13	Marine	0.00	15.33	0.00	15.33				
M-14	Locomotives/Trains	0.00	17.22	0.00	17.22				
M-16	Pleasure Water Craft	21.43	0.00	0.00	0.00				
MOF-07	Polluting Engines	0.00	0.00	0.00	0.00				
MON-09	In Use Vehicle Emission Mitigation	0.00	0.00	0.00	0.00				
MON-10	Emission Reduction Credit for Trucks Stop Electrification		0.00	0.00	0.00	0.00			
ADV-CP-4	Long Term Measures for Consumer Products		42.91	0.00	0.00	0.00			
ADV-CTS	Advance Tech-CTS	20.29	0.00	0.00	0.00				
ADV-ARCH	Advance Tech-Achitectural Ctgs		20.25	0.00	0.00	0.00			
ADV-CLNG	Advance Tech-Cleaning	19.09	0.00	0.00	0.00				
ADV-FUG	Advance Tech-FUG	18.30	0.00	0.00	0.00				

Appendix III Base and Future Year Emission Inventories

ADV-PRC	Advance Tech-PRC	8.24	0.00	0.00	0.00		
ADV-MISC	Advance Tech-misc	2.76	0.00	0.00	0.00		
ADV-ON	Market Incentives, Operational Measures (94AQMP : M-19)			36.78	6.25	0.00	8.28
ADV-M910	Off-Road 2.5g/bhp NOx std. & Ind, Mbl, Farm/NonFarm Equip			4.48	46.55	0.00	46.49
ADV-M15	Non-Military Aircraft (5)	3.13	5.55	0.00	5.25		
ADV-OFF	Market Incentives, Operational Measures (94AQMP : M-20)			18.04	3.01	0.00	4.79

TABLE D-3

Year 2010 Emission Reductions Excluding Natural Sources By Control Measures in the South Coast Air Basin (Planning Inventory - Tons/Day)

(C) Emission Summary for (Point, Area, Mobile Source, and Off-Road MV) Base Year : 1993

	Summer		Winter	
	VOC	NOX	CO	NO2
BASELINE EMISSIONS				
Point source	126.855	9.101	69.920	9.101
Area (nonfed)	397.280	55.953	266.978	77.421
Area (fed)	7.297	0.000	0.000	0.000
Reclaim	33.035		33.035	
Total Stationary	531.432	98.089	336.898	119.557
On-road	145.739	362.844	1785.275	376.472
Off-road (nonfed)	60.504	105.543	1276.361	104.578
Off-road (fed)	84.060	163.934	366.647	161.365
TOTAL	821.737	730.410	3765.183	761.972
EMISSION REDUCTIONS				
Point source	87.610	5.955	9.320	5.955
Area (nonfed)	235.472	23.086	0.000	23.086
Area (fed)	1.459	0.000	0.000	0.000
Total Stationary	324.542	29.042	9.320	29.042
On-road	65.006	85.078	301.748	86.874
Off-road (nonfed)	39.077	44.929	995.285	44.854
Off-road (fed)	40.398	60.184	43.037	59.836
TOTAL	469.023	219.233	1349.390	220.606
REMAINING EMISSIONS				
Point source	39.247	3.146	60.599	3.146
Area (nonfed)	161.808	32.867	266.978	54.335
Area (fed)	5.838	0.000	0.000	0.000
Reclaim	33.035		33.035	
Total Stationary	206.892	69.047	327.577	90.515
On-road	80.733	277.766	1483.527	289.598
Off-road (nonfed)	21.427	60.615	281.076	59.724
Off-road (fed)	43.662	103.749	323.610	101.529
TOTAL	352.714	511.177	2415.791	541.366
ERCs	14.801	2.187	4.588	2.187
HILO (3)	0.090	0.019	0.000	0.019
NSR Exemption	33.180	15.547	3.602	15.547
R518.2	1.500	1.500	1.500	1.500
ODC Conversion	11.290	0.000	0.000	0.000
GRAND TOTAL (T/D)	413.575	530.430	2425.481	560.619

- (1) Emission reductions for individual measures were estimated based on the sequence of listing contained here. When the sequence changes, reductions from each measure could be affected, but the net total reductions remain the same. The purpose of this table is to estimate total emission reductions without overlapping or double-counting between measures.
- (2) Emission reductions for individual measures were estimated in the absence of other measures. Therefore, the sequence of listing does not affect the reduction estimates. The purpose of this table is to provide emission reduction estimates for Appendix IV control measure summary tables as well as cost effectiveness analysis.
- (3) HILO=Bank for High employment LOw polluting companies.
- (4) Mobility Adjustment includes TCM-01, ATT-01, ATT-02, ATT-05 and adjustment are reflected in the CEPA baseline beyond year 2000. Emissions reductions from the adjustment are 17.18 T/D, -3.25 T/D, 127.81 T/D and -3.05 T/D for VOC, NOx, CO and NO₂ respectively. The reductions are reflected in the CEPA baseline.
- (5) M-02 and ADV-M15 are classified as 182 (e) (5) measures.

TABLE D-4

**Year 2020 Emission Reductions Excluding Natural Sources By Control Measures in the
South Coast Air Basin (Planning Inventory - Tons/Day)**

(A) Reductions Without Overlapping/Double-Counting With Other Control Measures (1) Base Year : 1993

MEASURE NAME		VOC RED. NOX RED. CO RED. NO2 RED.							
		TPD	TPD	TPD	TPD				
BA-01	NSR Impact	66.90	20.34	9.41	20.34				
BA-03	Adjustment for PAR 1130.1		0.00	0.00	0.00	0.00			
BA-04	Natural Event Policy on Windblown Dust			0.00	0.00	0.00	0.00		
DPR-01	COE fr Pesticide Applications	1.58	0.00	0.00	0.00				
BCM-01	Emissions Reductions from Paved Roads (R403)			0.00	0.00	0.00	0.00		
BCM-06	Ems Red fr Fugitive Dust Sources to meet BACM Requirements (R403)				0.00	0.00	0.00	0.00	0.00
BCM-03	Fur Ems Red fr Unpaved Roads & Parking Lot and Staging Area(R403)				0.00	0.00	0.00	0.00	0.00
BCM-04	Emissions Reductions from Agricultural Activities (R403)			0.00	0.00	0.00	0.00		
CMB-02B	Control of Ems from Small Boil and Proc Heaters			0.00	1.36	0.00	1.36		
CMB-03	Area Source Credits for Commercial & Residential Combustion Equip				0.00	0.00	0.00	0.00	0.00
CMB-04	Area Source Credits for Energy Conservation/Efficiency			0.00	0.00	0.00	0.00		
CMB-06	Emission Red. from Std for New Commercial & Residential Water Htr				0.00	8.90	0.00	8.90	
CMB-07	Ems Red for Petroleum Flares		0.00	0.00	0.00	0.00			
CMB-09	Ems Red from Petro Ref FCCU		0.00	0.00	0.00	0.00			
CP-02	Mid Term Consumer Product Measure		38.63	0.00	0.00	0.00	0.00		
CTS-02E	Fur Ems Red fr Adhesives (R1168)		1.68	0.00	0.00	0.00			
CTS-02H	Fur Ems Red fr Metal Parts and Products (R1107)			6.90	0.00	0.00	0.00		
CTS-02M	Fur Ems Red fr Plastic,Rubber,Glass Coatings (R1145)			1.29	0.00	0.00	0.00		
CTS-02N	Fur Ems Red fr Solvent Degreaser (R1122)			44.18	0.00	0.00	0.00		
CTS-02O	Fur Ems Red fr Usage of Solvents (R442C)			4.49	0.00	0.00	0.00		
CTS-03	Consumer Product Education Labeling Program			0.00	0.00	0.00	0.00	0.00	
CTS-04	Public Awareness/Education Programs-Area Sources			0.00	0.00	0.00	0.00		
CTS-07	Further Emission Reductions from Architectural Coatings (R1113)			45.37	0.00	0.00	0.00	0.00	
FUG-03	Further Emission Reductions from Floating Roof Tanks			0.00	0.00	0.00	0.00		
FUG-04	Further Emission Reductions from Fugitive Sources (R1173)			0.58	0.00	0.00	0.00	0.00	
MSC-01	Promotion of Lighther Color Roofing,Road Materials,Tree Planting				0.00	0.00	0.00	0.00	0.00
MSC-02	In-Use Compliance program for Air Pollution Control Equipment				0.00	0.00	0.00	0.00	0.00
MSC-03	Promotion of Catalyst-Surface Coating Technology Programs				0.00	0.00	0.00	0.00	0.00
PRC-01	Emission Reductions from Woodwork Operations			0.00	0.00	0.00	0.00		
PRC-03	Emission Reductions from Restaurant Operations			1.07	0.00	0.00	0.00	0.00	
WST-01	Emissions Reductions from Livestock Waste		3.12	0.00	0.00	0.00	0.00		
WST-02	Emissions Reductions from Composting of Dewatered Sewage Sludge				0.00	0.00	0.00	0.00	0.00
WST-03	Emissions Reductions from Waste Burning (Rule 444)			0.00	0.00	0.00	0.00	0.00	
WST-04	Disposal of Materials Containing VOC		0.83	0.00	0.00	0.00			
TCM-01	Transportation Improvements		0.00	0.00	0.00	0.00	0.00		
ATT-01	Telecommunications	0.00	0.00	0.00	0.00				
ATT-02	Advanced Shuttle Transit	0.00	0.00	0.00	0.00				
ATT-03	Zero-Emission Vehicles/Infrastructure		0.00	0.00	0.00	0.00			
ATT-04	Alternative Fuel Vehicles/Infrastructure		0.00	0.00	0.00	0.00			
ATT-05	Intelligent Vehicle Highway Systems (IVHS)		0.00	0.00	0.00	0.00	0.00		
FLX-01	Intercredit Trading Program	0.00	0.00	0.00	0.00				
FLX-02	Air Quality Investment Program	0.00	0.00	0.00	0.00				
FSS-02	Market-Based Transportation Pricing	0.00	0.00	0.00	0.00				
FSS-04	Emiss. Charges of \$5000/ton of VOC for Stat Srce emit >10t/yr			0.00	0.00	0.00	0.00	0.00	
M1&M2	Combination of M-01 & M-02 (5)		12.29	14.40	249.81	15.65			
M4,5,6&7	Combination of M-04-05-06-07		10.24	68.11	0.00	68.11			
M11&M12	Industrial Eq	34.29	18.84	1101.74	18.84				
M-13	Marine	0.00	17.91	0.00	17.91				
M-14	Locomotives/Trains	0.00	15.58	0.00	15.58				
M-16	Pleasure Water Craft	25.48	0.00	0.00	0.00				
MOF-07	Polluting Engines	0.00	0.00	0.00	0.00				
MON-09	In Use Vehicle Emission Mitigation		0.00	0.00	0.00	0.00			
MON-10	Emission Reduction Credit for Trucks Stop Electrification			0.00	0.00	0.00	0.00		
ADV-CP-4	Long Term Measures for Consumer Products			48.72	0.00	0.00	0.00		
ADV-CTS	Advance Tech-CTS	25.56	0.00	0.00	0.00				
ADV-ARCH	Advance Tech-Achitectural Ctgs		23.37	0.00	0.00	0.00	0.00		
ADV-CLNG	Advance Tech-Cleaning		24.58	0.00	0.00	0.00			
ADV-FUG	Advance Tech-FUG		20.99	0.00	0.00	0.00			
ADV-PRC	Advance Tech-PRC		11.32	0.00	0.00	0.00			
ADV-MISC	Advance Tech-misc		3.82	0.00	0.00	0.00			
ADV-ON	Market Incentives, Operational Measures (94AQMP : M-19)			25.99	6.03	0.00	6.26		
ADV-M910	Off-Road 2.5g/bhp NOx std. & Ind, Mbl, Farm/NonFarm Equip			4.51	47.03	0.00	46.96		

Appendix III Base and Future Year Emission Inventories

ADV-M15	Non-Military Aircraft (5)	3.13	5.55	0.00	5.25		
ADV-OFF	Market Incentives, Operational Measures (94AQMP : M-20)			19.85	3.19	0.00	3.12
GRAND TOTAL (NET)		510.74	227.23	1360.95	228.28		

TABLE D-4

Year 2020 Emission Reductions Excluding Natural Sources By Control Measures in the South Coast Air Basin (Planning Inventory - Tons/Day)

(B) Reductions With Overlapping/Double-Counting With Other Control Measures (2) Base Year : 1993

MEASURE NAME		VOC RED.		NOX RED.		CO RED.		NO2 RED.	
		TPD	TPD	TPD	TPD				
BA-01	NSR Impact		66.90	20.34	9.41	20.34			
BA-03	Adjustment for PAR 1130.1			0.00	0.00	0.00	0.00		
BA-04	Natural Event Policy on Windblown Dust			0.00	0.00	0.00	0.00		
DPR-01	COE for Pesticide Applications		1.58	0.00	0.00	0.00			
BCM-01	Emissions Reductions from Paved Roads (R403)			0.00	0.00	0.00	0.00		
BCM-06	Ems Red for Fugitive Dust Sources to meet BACM Requirements (R403)			0.00	0.00	0.00	0.00	0.00	
BCM-03	Fur Ems Red for Unpaved Roads & Parking Lot and Staging Area(R403)			0.00	0.00	0.00	0.00	0.00	0.00
BCM-04	Emissions Reductions from Agricultural Activities (R403)			0.00	0.00	0.00	0.00		
CMB-02B	Control of Ems from Small Boil and Proc Heaters			0.00	1.36	0.00	1.36		
CMB-03	Area Source Credits for Commercial & Residential Combustion Equip			0.00	0.00	0.00	0.00		
CMB-04	Area Source Credits for Energy Conservation/Efficiency			0.00	0.00	0.00	0.00		
CMB-06	Emission Red. from Std for New Commercial & Residential Water Htr			0.00	8.90	0.00	8.90		
CMB-07	Ems Red for Petroleum Flares		0.00	0.00	0.00	0.00			
CMB-09	Ems Red from Petro Ref FCCU		0.00	0.00	0.00	0.00			
CP-02	Mid Term Consumer Product Measure			38.63	0.00	0.00	0.00		
CTS-02E	Fur Ems Red for Adhesives (R1168)		1.68	0.00	0.00	0.00			
CTS-02H	Fur Ems Red for Metal Parts and Products (R1107)			6.90	0.00	0.00	0.00		
CTS-02M	Fur Ems Red for Plastic,Rubber,Glass Coatings (R1145)			1.29	0.00	0.00	0.00	0.00	
CTS-02N	Fur Ems Red for Solvent Degreaser (R1122)			44.18	0.00	0.00	0.00		
CTS-02O	Fur Ems Red for Usage of Solvents (R442C)			4.49	0.00	0.00	0.00		
CTS-03	Consumer Product Education Labeling Program			0.00	0.00	0.00	0.00		
CTS-04	Public Awareness/Education Programs-Area Sources			0.00	0.00	0.00	0.00		
CTS-07	Further Emission Reductions from Architectural Coatings (R1113)			45.37	0.00	0.00	0.00	0.00	
FUG-03	Further Emission Reductions from Floating Roof Tanks			0.00	0.00	0.00	0.00		
FUG-04	Further Emission Reductions from Fugitive Sources (R1173)			0.58	0.00	0.00	0.00		
MSC-01	Promotion of Lighter Color Roofing,Road Materials,Tree Planting			0.00	0.00	0.00	0.00		
MSC-02	In-Use Compliance program for Air Pollution Control Equipment			0.00	0.00	0.00	0.00		
MSC-03	Promotion of Catalyst-Surface Coating Technology Programs			0.00	0.00	0.00	0.00	0.00	
PRC-01	Emission Reductions from Woodwork Operations			0.00	0.00	0.00	0.00		
PRC-03	Emission Reductions from Restaurant Operations			1.07	0.00	0.00	0.00		
WST-01	Emissions Reductions from Livestock Waste			3.12	0.00	0.00	0.00		
WST-02	Emissions Reductions from Composting of Dewatered Sewage Sludge				0.00	0.00	0.00	0.00	
WST-03	Emissions Reductions from Waste Burning (Rule 444)			0.00	0.00	0.00	0.00	0.00	
WST-04	Disposal of Materials Containing VOC			0.83	0.00	0.00	0.00		
TCM-01	Transportation Improvements			0.00	0.00	0.00	0.00		
ATT-01	Telecommunications			0.00	0.00	0.00	0.00		
ATT-02	Advanced Shuttle Transit			0.00	0.00	0.00	0.00		
ATT-03	Zero-Emission Vehicles/Infrastructure			0.00	0.00	0.00	0.00		
ATT-04	Alternative Fuel Vehicles/Infrastructure			0.00	0.00	0.00	0.00		
ATT-05	Intelligent Vehicle Highway Systems (IVHS)			0.00	0.00	0.00	0.00		
FLX-01	Intercredit Trading Program			0.00	0.00	0.00	0.00		
FLX-02	Air Quality Investment Program			0.00	0.00	0.00	0.00		
FSS-02	Market-Based Transportation Pricing			0.00	0.00	0.00	0.00		
FSS-04	Emiss. Charges of \$5000/ton of VOC for Stat Srce emit >10t/yr				0.00	0.00	0.00	0.00	
M1&M2	Combination of M-01 & M-02 (5)			12.29	14.40	249.81	15.65		
M4,5,6&7	Combination of M-04-05-06-07			10.24	68.11	0.00	68.11		
M11&M12	Industrial Eq			34.29	18.84	1101.74	18.84		
M-13	Marine			0.00	17.91	0.00	17.91		
M-14	Locomotives/Trains			0.00	15.58	0.00	15.58		
M-16	Pleasure Water Craft			25.48	0.00	0.00	0.00		
MOF-07	Polluting Engines			0.00	0.00	0.00	0.00		
MON-09	In Use Vehicle Emission Mitigation			0.00	0.00	0.00	0.00		
MON-10	Emission Reduction Credit for Trucks Stop Electrification				0.00	0.00	0.00	0.00	
ADV-CP-4	Long Term Measures for Consumer Products				48.72	0.00	0.00	0.00	
ADV-CTS	Advance Tech-CTS			25.56	0.00	0.00	0.00		
ADV-ARCH	Advance Tech-Architectural Ctgs				23.37	0.00	0.00	0.00	
ADV-CLNG	Advance Tech-Cleaning			24.58	0.00	0.00	0.00		
ADV-FUG	Advance Tech-FUG			20.99	0.00	0.00	0.00		

Attachment D: Projected Controlled Emissions for Years 2000, 2006, 2010, 2020

ADV-PRC	Advance Tech-PRC	11.32	0.00	0.00	0.00		
ADV-MISC	Advance Tech-misc	3.82	0.00	0.00	0.00		
ADV-ON	Market Incentives, Operational Measures (94AQMP : M-19)			25.99	6.03	0.00	8.11
ADV-M910	Off-Road 2.5g/bhp NOx std. & Ind, Mbl, Farm/NonFarm Equip			4.51	47.03	0.00	46.96
ADV-M15	Non-Military Aircraft (5)	3.13	5.55	0.00	5.25		
ADV-OFF	Market Incentives, Operational Measures (94AQMP : M-20)			19.85	3.19	0.00	5.01

TABLE D-4

**Year 2020 Emission Reductions Excluding Natural Sources By Control Measures in the
South Coast Air Basin (Planning Inventory - Tons/Day)**

(C) Emission Summary for (Point, Area, Mobile Source, and Off-Road MV) Base Year : 1993

	Summer		Winter	
	VOC	NOX	CO	NO ₂
BASELINE EMISSIONS				
Point source	149.314	10.760	83.623	10.760
Area (nonfed)	471.511	59.738	271.961	83.096
Area (fed)	7.891	0.000	0.000	0.000
Reclaim	33.035		33.035	
Total Stationary	628.716	103.533	355.584	126.891
On-road	105.567	356.462	1579.588	368.422
Off-road (nonfed)	64.477	109.572	1360.843	108.452
Off-road (fed)	94.407	172.550	399.812	169.645
TOTAL	893.168	742.117	3695.828	773.410
EMISSION REDUCTIONS				
Point source	95.019	6.970	9.409	6.970
Area (nonfed)	278.370	23.629	0.000	23.629
Area (fed)	1.578	0.000	0.000	0.000
Total Stationary	374.968	30.599	9.409	30.599
On-road	48.520	88.529	249.807	90.019
Off-road (nonfed)	41.430	46.770	1058.583	46.679
Off-road (fed)	45.824	61.334	43.154	60.979
TOTAL	510.741	227.231	1360.953	228.276
REMAINING EMISSIONS				
Point source	54.294	3.790	74.214	3.790
Area (nonfed)	193.141	36.109	271.961	59.467
Area (fed)	6.313	0.000	0.000	0.000
Reclaim	33.035		33.035	
Total Stationary	253.747	72.934	346.175	96.292
On-road	57.047	267.933	1329.781	278.403
Off-road (nonfed)	23.047	62.802	302.259	61.773
Off-road (fed)	48.583	111.217	356.659	108.666
TOTAL	382.425	514.887	2334.875	545.135
ERCs	14.801	2.187	4.588	2.187
HILO (3)	0.090	0.019	0.000	0.019
NSR Exemption	33.180	15.547	3.602	15.547
R518.2	1.500	1.500	1.500	1.500
ODC Conversion	11.290	0.000	0.000	0.000
GRAND TOTAL (T/D)	443.286	534.140	2344.564	564.388

- (1) Emission reductions for individual measures were estimated based on the sequence of listing contained here. When the sequence changes, reductions from each measure could be affected, but the net total reductions remain the same. The purpose of this table is to estimate total emission reductions without overlapping or double-counting between measures.
- (2) Emission reductions for individual measures were estimated in the absence of other measures. Therefore, the sequence of listing does not affect the reduction estimates. The purpose of this table is to provide emission reduction estimates for Appendix IV control measure summary tables as well as cost effectiveness analysis.
- (3) HILO=Bank for High employment LOw polluting companies.
- (4) Mobility Adjustment includes TCM-01, ATT-01, ATT-02, ATT-05 and adjustments are reflected in the CEPA baseline beyond year 2000. Emissions reductions from the adjustment are 11.57 T/D, 6.97 T/D, 151.21 T/D/ and 7.63 T/D for VOC, NO_x, CO and NO₂ respectively. The Reductions are reflected in the CEPA baseline.
- (5) M-02 and ADV-M15 are classified as 182 (e) (5) measures.

FINAL APPENDIX III

BASE AND FUTURE YEAR EMISSION INVENTORIES

NOVEMBER 1996

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
GOVERNING BOARD**

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San Bernardino
County Representative

Vice Chairman:

WILLIAM A. BURKE, Ed.D.
Speaker of the Assembly Appointee

MEMBERS:

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LIST OF ACRONYMS

AQMP	Air Quality Management Plan
ARB	California Air Resources Board
CALTRANS	California Department of Transportation
CAA	Federal Clean Air Act
CAT	Catalytic Converters
CCAA	California Clean Air Act
CEC	California Energy Commission
CO	Carbon Monoxide
DTIM	Direct Travel Impact Model
EDS	Emission Data System
EIS	Emissions Inventory System
EPA	U.S. Environmental Protection Agency
ERC	Emission Reduction Credits
HD	Heavy-Duty
LDV	Light-Duty Vehicles
MDV	Medium-Duty Vehicles
NCAT	Non-Catalytic Converters
NO ₂	Nitrogen Dioxide
NO _x	Oxides of Nitrogen
NSR	New Source Review
PM	Particulate Matter

LIST OF ACRONYMS (continued)

PM ₁₀	Particulate Matter Less Than 10 Microns In Diameter
RECLAIM	REgional Clean Air Incentives Market
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCC	Source Classification Code
SIC	Standard Industrial Code
SO _x	Oxides of Sulfur
TOG	Total Organic Gases
UTM	Universal Transverse Mercator
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds

CHAPTER 1

INVENTORY DEVELOPMENT

Background

Air Contaminants

Inventory Source Category

Mobile Sources

Inventory Type

INVENTORY DEVELOPMENT

Background

To protect the public health and welfare, federal and state standards limit concentration levels of air contaminants in ambient air. An emissions inventory of air pollutants and their sources is essential to identify the major contributors of air contaminants and the measures required to reduce air pollution. In this document, emission levels of air contaminants in the South Coast Air Basin (Basin) are compiled for three historical years, 1987, 1990, and 1993 as well as future years (1997, 1999, 2000, 2002, 2003, 2005, 2006, 2007, 2008, 2010, and 2020). In addition, for future year inventories, both baseline and proposed controlled emission levels are presented for years 2000, 2006, 2010 and 2020. Both the federal and state Clean Air Acts specify 1990 as the base year to measure emission reduction progress. 1993 is the base year used to project future year emissions for the 1997 AQMP. In these inventories, only anthropogenic sources (i.e., those associated with human activity) are considered. The 1993 base year emissions inventory reflects adopted air regulations that are implemented as of 1993; whereas future baseline emissions inventories incorporate adopted rules with both current and future compliance dates. A list of District rules and regulations that are part of the base year and future-year baseline emissions inventories is presented in Table 1-1. Table 1-2 lists the adopted state rules and regulations in the 1997 AQMP baseline emissions. Some of these rules have not been approved by the U.S. EPA; however, the District is committed to implement these rules that are incorporated in the 1997 AQMP baseline emissions inventories.

Information necessary to produce an emission inventory for the Basin is obtained from the SCAQMD and other governmental agencies including: California Air Resources Board (ARB), California Department of Transportation (Caltrans), and Southern California Association of Governments (SCAG).

Each of these agencies is responsible for collecting and developing data (e.g., industry growth factors, travel activity levels, emission factors, emissions) and methodologies (e.g., model and demographic forecast improvements) required to generate a comprehensive emissions inventory. Emissions data are compiled and maintained by ARB (ARB, 1996a) in its California Emission Inventory Development and Reporting System (CEIDARS), the principal depository of emissions information for the entire state. SCAQMD has primary responsibility for generating future year inventories and analyzing information pertaining to the Basin.

TABLE 1-1 A

Total Emission Reductions of Adopted Rules in the 1997 AQMP Baseline Inventories
with U.S. EPA's Approval ¹

RULE	RULE TITLE	EMISSION REDUCTIONS (TONS/DAY)			
		VOC	NOx	SOx	PM10
403	Fugitive Dust				63.00
403.1	Coachella Valley Fugitive Dust				16.00
431.1	Sulfur Content of Gaseous Fuel			7.95	
431.2	Sulfur Content of Liquid Fuel			10.40	
461	Gasoline Transfer & Dispensing	110			
463	Organic Liquid Storage	6.00			
464	Wastewater Separators	15.00			
465	Vacuum-Producing Devices or Systems	0.00			
1102	Petro Solvent Cleaners	6.72			
1103	Pharmaceuticals & Cosmetics Manufacturing	0.00			
1104	Wood Flat Stock Coatings	3.50			
1106	Marine Coating Operations	0.50			
1106.1	Pleasure Craft Coating Operations	0.30			
1107	Metal Parts & Products	12.20			
1108	Cutback Asphalts	nil			
1111	NOx Ems from NG fired, Fan-Type Central Furnaces		2.00		
1112	Cement Kilns ²		0.00		
1115	MV Assembly Line Coatings	3.6			
1117	Metal Melting Furnaces ²		5.60		
1121	Cntrl of NOx fr Residential-Type, NG-Fired Water Heaters		11.00		
1123	Refinery Process Turnarounds ²		0.00		
1124	Aerospace Coatings	9.00			
1125	Can & Coil Coatings	1.70			
1126	Magnet Wire Coating Operations	<1			
1128	Paper, Fabric, & Film Coatings	6.20			
1130	Graphic Arts	18.10			
1130.1	Screen Printing Operations	2.60			
1136	Wood Products Coatings	26.00			
1141	Resin Manufacturing	10.60			
1142	Marine Tank Vessel Operations	8.10			
1145	Plastic, Rubber, & Glass Coatings	3.50			
1146	NOx fr Ind Inst & Comrcl Boilers, Stm Gen, Procs Htrs ²		4.50		
1146.1	NOx fr Sml Ind Inst & Comrcl Boilers, Stm Gen, Procs Htrs ²		0.92		

TABLE 1-1 A

(Continued)

RULE	RULE TITLE	EMISSION REDUCTIONS (TONS/DAY)			
		VOC	NO _x	SO _x	PM ₁₀
1151	MV & Mobile Eq Non-Assembly Line Coatings	35.20			
1153	Commercial Bakery Ovens	3.40			
1159	Nitric Acid Units ²		0.00		
1162	Polyester Resin Operations	12.60			
1164	Semiconductor Manufacturing	1.30			
1171	Solvent Cleaning Operations ³	23.50			
1173	Fugitive Emissions of VOC ⁴	11.70			
1175	Manufacturing of Polymeric Cellular Foam Products	5.30			
1176	Sumps & Wastewater Separators	4.50			
1179	Publicly Owned Treatment Works Operations	0.00			
	TOTAL	341.12	24.02	18.35	79.00

Notes:

- ¹ The rules/regulations contained in this table are in the 1997 AQMP baseline inventory. Emission reductions values specified are principally from the Staff Reports. The staff calculated the emission reductions using available emissions inventory data & modeling tools available at the time of rule adoption. The 1997 AQMP accounts for these rules partly through facility emission reports that include the emission reductions due to rule implementation.
- ² Emission reductions would be less or completely subsumed under the RECLAIM program.
- ³ Emission reductions would be higher if the 1996 ARB Degreasing Study was used.
- ⁴ Emission reductions would be smaller if 1995 EPA Correlation Equations were used.

TABLE 1-1 B

Total Emission Reductions of Adopted Rules in the 1997 AQMP Baseline Inventories Awaiting U.S. EPA's Approval ¹

RULE	RULE TITLE	EMISSION REDUCTIONS (TONS/DAY)			
		VOC	NOx	SOx	PM10
R461	Gasoline Transfer and Dispensing	3.43			
R462	Organic Liquid Loading	100.12			
R463	Storage of Organic Liquids	0.00			
R464	Wastewater Separators	0.00			
R1109	NOX Ems from Boilers & Process Htrs in Petro Refineries ²		2.00		
R1110.1&.2	Ems from Stationary ICE with Gaseous & Liquid Fuels		19.00		
R1112	NOX from Cement Kiln		0.30		
R1113	Architectural Coatings	29.00			
R1122	Solvent Degreasers ³	10.00			
R1134	NOX Ems from Stationary Gas Turbines		9.20		
R1135	NOX Ems from Electric Power Generating Systems		1.00		
R1141.1	Ems from Resin Manufacturing	Nil			
R1149	Storage Tank Degassing	0.40			
R1150.1&.2	Ems from Active and Inactive Landfills	8.00			
R1168	Ems from Adhesive Application	41.00			
R1176	Sumps and Water Separators	3.06			
R1501	Work Trip Reduction Plans	6.70	7.50		
R2202	On-Road MV Mitigation ⁴	7.84	9.33		0.31
Reg XX	RECLAIM		66.00		
	TOTAL	209.55	114.33	0.00	0.31
Reg XIII	New Source Review ⁵	57.00	2.00		

Notes:

- ¹ The rules/regulations contained in this table are in the 1997 AQMP baseline inventory. Emission reductions values specified are principally from the Staff Reports. The staff calculated the emission reductions using available emissions inventory data & modeling tools available at the time of rule adoption. The 1997 AQMP accounts for these rules partly through facility emissions reports that include the emission reductions due to rule implementation.
- ² All reductions are subsumed under RECLAIM if the 1997 AQMP inventory is used.
- ³ Emission reductions would be greater if the current inventory in the 1997 AQMP is used.
- ⁴ Emission reductions indicated are for year 2000. Emission reductions in year 2010 will be smaller.
- ⁵ Emission reductions are included in the AQMP remaining inventories instead of baseline inventories. Please refer to discussions under "Controlled Emissions Inventories".

TABLE 1-2

Adopted State Regulations in the 1997 AQMP Baseline Inventories
(Implementation Dates in 1996 or Later)

Initial Implementation	Regulation	Original Estimate of Statewide Emission Reductions in Staff Proposal (Tons per Day)		Staff Report/ Estimation Date
		VOC ¹	NOx	
1994MY-2003MY	Low-Emission Vehicles and Clean Fuels Program	29 tpd in 2000 185 tpd in 2010	36 tpd in 2000 248 tpd in 2010	1990
1995MY-1998MY	Evaporative Emissions	122 tpd (@ 75°F) 400 tpd (@ 105°F) in 2010	---	1990
1995MY-1999MY	Off-Highway Recreational Vehicles	39 tpd in 2010	<0.05>tpd ² in 2010	1993
1996	California Cleaner-Burning Gasoline	190 tpd in 1996	110 tpd in 1996	1996
1996MY	On-Board Diagnostics II	125 tpd in 2010	125 tpd in 2010	1989
1996MY	Heavy-Duty Diesel Urban Buses (4.0 g/bhp-hr NOx)	---	2 tpd in 2010 ³ (South Coast)	1994
1996MY-2001MY	Heavy-Duty Diesel Off-Road Equipment (6.9-5.8 g/bhp-hr NOx)	10 tpd in 2010	178 tpd in 2010	1992
1998MY	Heavy-Duty Diesel Trucks (4.0 g/bhp-hr NOx)	---	32 tpd in 2010 ³ (South Coast)	1994
1999MY	Lawn & Garden Equipment (Tier II)	58 tpd in 2005	<0.3>tpd ² in 2005	1990
1991-1999	Consumer Products (Antiperspirants & Deodorants)	4 tpd in 1996	---	1989
1993-1998	Consumer Products (Phase I)	45 tpd in 1998	---	1990
1995-1999	Consumer Products (Phase II)	10 tpd in 1998	---	1991

¹ Depending on regulations, synonymous here with ROG, NMOG, or HC.

- 2 Negligible NO_x increase due to substitution of cleaner-burning 4-stroke engines for the 2-stroke models.
- 3 Calculated external to model for 1994 Ozone SIP. Truck standard is included in baseline due to previously adopted national standard (parallel state standard adopted in 1995).

Air Contaminants

Currently, air quality standards exist for the following criteria air contaminants: ozone, nitrogen dioxide (NO₂), sulfur dioxide (SO₂), carbon monoxide (CO), fine suspended particulates (PM₁₀), lead, and sulfate. This appendix presents emission levels in the Basin for the criteria air contaminants or their precursors. Specifically, data are included for emissions of total organic gases (TOG), volatile organic compounds (VOC), oxides of nitrogen (NO_x), oxides of sulfur (SO_x), CO, particulate matter (PM), and PM₁₀. Ozone is formed from photochemical reactions involving other air contaminants so it is not inventoried. Although air quality standards for oxides of nitrogen and sulfur are based on NO₂ and SO₂, respectively, emissions of NO_x and SO_x are in the emissions inventory because multiple species of NO_x and SO_x contribute to the formation of particulates, and NO_x and VOC react in the presence of sunlight to produce ozone. TOG incorporates all gaseous compounds containing the element carbon with the exception of the inorganic compounds, CO, carbon dioxide (CO₂), carbonic acid, carbonates and metallic carbides. VOC, a subset of TOG, includes all organic gases except acetone, ethane, methane, methylene chloride, methylchloroform, perchloroethylene, and a number of Freon-type gases. It should be noted that this definition of VOC is different from the one used by the ARB, which includes perchloroethylene. PM represents all airborne particulate matter. An important subset of PM is PM₁₀, which includes all airborne particulates with an aerodynamic diameter less than 10 microns, at which size particles are easily respirable. In this inventory, the amount of VOC in TOG and the amount of PM₁₀ in PM is calculated for each process primarily using species and size fraction profiles from ARB. Three types of emissions inventory are used for reporting purposes. Traditionally, average annual day emissions for all criteria pollutants are reported. In addition, summer planning inventories are reported for ozone purposes and winter planning inventories are reported for carbon monoxide and nitrogen dioxide purposes.

Inventory Source Category

Stationary Sources

Stationary sources of emissions are broadly grouped into two categories: 1) point sources, with one or more permitted pieces of equipment in a fixed, identifiable location, and 2) area sources, consisting of numerous small facilities or pieces of equipment such as gasoline-dispensing facilities, residential water heaters, and architectural coatings for which locations are not specifically identified in the data base but for which emissions may be calculated using socioeconomic data. For modeling purposes, area source emissions are spatially allocated to grid cells using current demographic data (e.g., population, housing, and land use).

Point Sources

For the year 1993, information on point sources is stored in SCAQMD's INGRES Relational Database. Emission data from those facilities emitting greater than or equal to two tons/year is submitted to SCAQMD by facilities through an annual emission fee reporting program. Information stored in the database for each facility includes location, operating profile, type of business and characteristics of the equipment. Company location is specified in Universal Transverse Mercator (UTM) coordinates and the type of business is designated by Standard Industrial Code (SIC). Site equipment that produces emissions is listed by EPA Source Classification Code (SCC), describing equipment size, process, type of fuel or material used. If the equipment is attached to a stack, a detailed description of the stack (height, diameter, and location) and the exhaust gases (temperature, flow rate, and velocity) is also given. Yearly process rates are specified, in addition to daily, weekly and monthly operation cycles. Both uncontrolled and actual emission factors reflecting the impact of any control devices are listed, with estimated emission levels for each air contaminant.

Emissions data for facilities emitting less than 2 tons/year, representing a small fraction to the inventory, are estimated as part of the area source inventory.

Area Sources

SCAQMD and ARB share responsibility for calculating emissions produced by the more than 200 area source categories (e.g., gasoline-dispensing facilities, residential water heaters, and architectural coatings). A variety of studies conducted by SCAQMD, ARB, and outside consultants have identified new or previously unidentified area sources of emissions. In addition, these studies have refined previous estimates by improving upon process rate data and known emission rates or factors, primarily compiled by EPA (EPA, 1985). Methodologies used to estimate emissions from area sources are described in several publications (ARB, 1995c and SCAQMD, 1996a).

Since the adoption of the 1994 AQMP, several special studies were initiated to improve the area source inventory. ARB conducted a statewide inventory study to develop the 1993 total organic gases (TOG) for solvent cleaning operations, including handwiping, cold cleaning operations, and vapor degreasing. The inventory methodology involves a survey of 654 solvent cleaning facilities, with a total of 32 equipment-solvent pairs (ESP) identified. For each ESP combination TOG emissions are calculated based on solvent lost (in gallons), control equipment efficiency (if available), and emission factor (lb/gal). The emission data was then extrapolated to the various inventory categories based on the employee ratios between the surveyed facilities and county totals. The study results for the South Coast Air Basin show significant emission increases for degreasing and solvent cleaning operations and are reflected in the inventories presented herein.

The District conducted a series of source tests for restaurant equipment (e.g., charbroilers or deep fryers) to determine appropriate emission factors and a survey to estimate

restaurant activities in the Basin. The most recent test results were used to estimate emissions from restaurant operations. The results are incorporated in the 1997 AQMP.

Fugitive emissions from natural gas transmission losses used to represent a significant emission source based on the AP-42 emission factor. A comprehensive study conducted by the Southern California Gas Company in 1991 documenting unaccounted gas losses and the implementation of the “Star” program to reduce fugitive emissions, have led to significantly lower emission estimates. In addition, the exclusion of ethane as VOC further reduces estimated emissions from this source category.

Current and future projected acres subject to the prescribed burn program provided by the U.S. Forest Service are used to update emissions from forest management.

As part of the 1994 AQMP process, it was recognized that the fugitive dust and ammonia inventories should be reviewed and revised, if necessary. Since that time, the District has participated in a number of fugitive dust and ammonia emission projects, as well as tracking studies by other sponsors. Based on the results of these studies and more recent activity level information, the District prepared updated 1993 fugitive dust and ammonia emission inventories.

Best Available Control Measure (BACM) Working Group. The District, through the cooperative efforts of the BACM Working Group, embarked on an accelerated program to correct identified fugitive dust inventory deficiencies. The BACM Working Group is an ongoing task force comprised of representative from EPA Region IX, ARB, South Coast AQMD, San Joaquin Valley APCD, Great Basin APCD, Mojave Desert AQMD, Clark County Nevada, Washoe County Nevada, Maricopa County Arizona, Arizona Department of Environmental Quality, USDA Soil Conservation Service, Coachella Valley Association of Governments, and WESTAR (Western States Air Resource Council). The emission inventory projects included studies aimed at improving emission factors for such fugitive dust sources as paved roads and construction, as well as quantifying previously un-inventoried sources. Emission factors for entrained paved road dust and construction were significantly lower than previous estimates. Previously un-inventoried sources, such as entrained leaf blower and unpaved shoulder dust, were generally found to be small contributors to the overall inventory.

PM₁₀ Technical Enhancement Program (PTEP). The results from three emission inventory projects from the District PM₁₀ Technical Enhancement Program (PTEP) were used to revise the fugitive dust and ammonia inventories. The Fugitive Dust Integration project summarized previous inventory development and current and past emission factor studies. It also provided recommendations for the best available emission methodology, emission factors, and activity estimates for each fugitive dust category. These recommendations were used in the development of the fugitive dust inventory. A second PTEP project was the development of a Geographic Information System (GIS) to prepare spatially-resolved fugitive dust inventories. Spatially-resolved 1993 construction dust emissions have been prepared for the 1997 AQMP.

A separate PTEP project measured emissions from livestock waste at local dairies, since it was believed that local dairies were significantly different than those used to derive previous emission estimates. Results from this study indicated that the local dairy waste emission factor was approximately 70% less than the factor used in previous emission inventory estimates, since earlier studies were not based on local area conditions.

Updated 1993 Fugitive Dust and Ammonia Inventories. Activity levels for all sources were updated to the 1993 base year, which includes the impact of the local recession on construction activity. Overall, reduced emission factors and activity levels for several categories led to a 54% reduction in fugitive dust emission estimates. Figure 1-1 illustrates the changes in emissions between the 1994 AQMP and the 1997 AQMP.

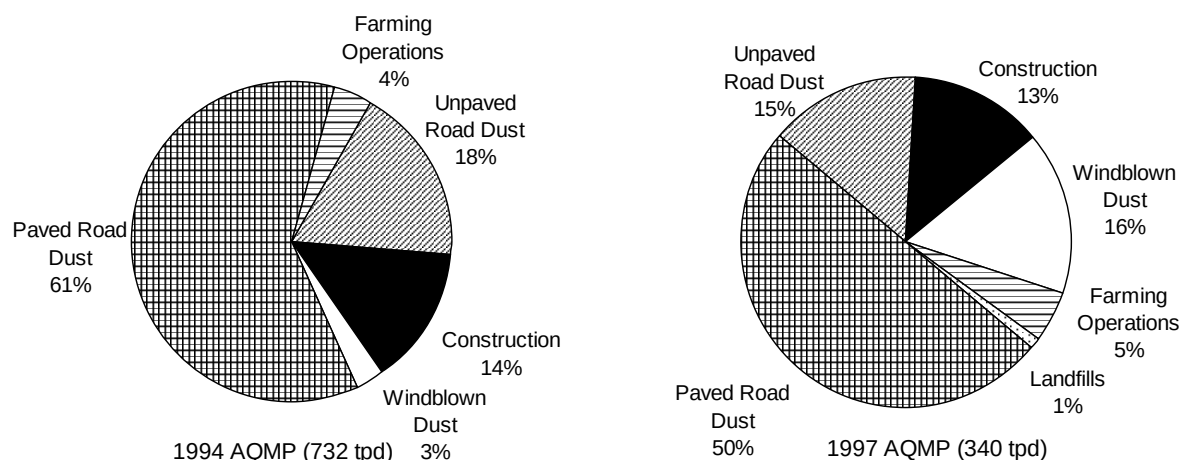


FIGURE 1-1

1993 Fugitive Dust Inventory for the 1994 AQMP and the 1997 AQMP

The 1993 livestock waste ammonia inventory is approximately 50% less than the 1987 emission estimate used in previous plans. The reduction results from the reduced emission factor for dairy livestock waste and the 1993 animal population statistics, which showed a decrease in poultry from the 1987 levels. It should also be noted that previous ammonia emission estimates for wastewater treatment plants were overestimated compared to the ammonia emissions reported in the AB 2588-required Air Toxics Inventory Report and from source testing. Based on this and other information, 1993 ammonia emission estimates for wastewater treatment plants are now calculated to be about 100 times smaller than previous estimates.

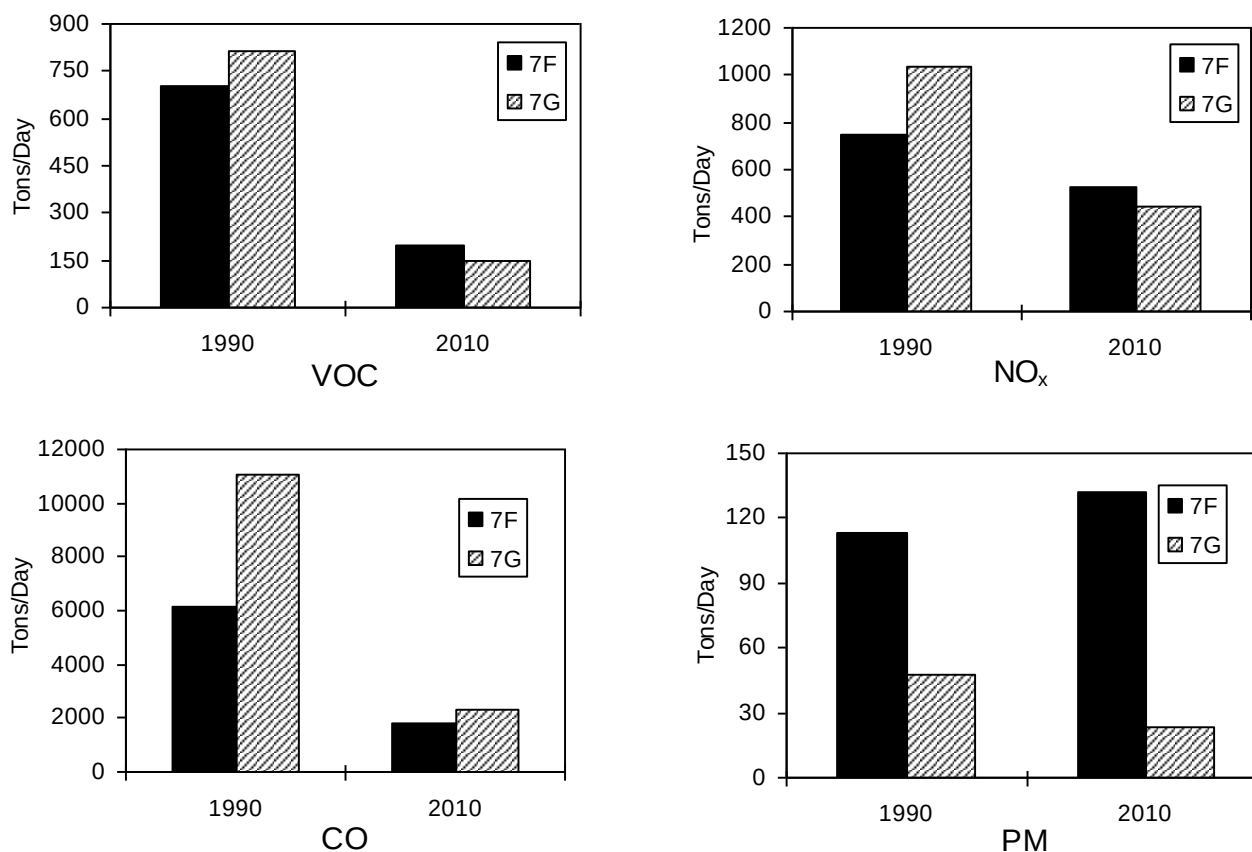
Mobile Sources

On-Road Mobile Sources

Caltrans, ARB, SCAG, and the Department of Motor Vehicles (DMV) supplied data necessary to evaluate emissions from on-road mobile sources. DMV maintains a count of registered vehicles and Caltrans provides traffic counts and road capacity data. SCAG maintains the regional transportation model containing the temporal and spatial distribution of motor vehicle activity (travel time, travel speed, and volume of traffic for morning-peak, afternoon-peak, mid-day and night hours). In addition, SCAG updates a demographic database for population, housing, employment and patterns of land use within SCAQMD jurisdiction.

ARB approximates composite emissions from on-road mobile sources based on the EMFAC model. EMFAC calculates exhaust and evaporative emission rates by vehicle type for different temperatures and operating speeds. Parameters accounted for by EMFAC include the following: type of control technology and fuel usage, distribution of operating speeds, speed and temperature correction factors, and the reduction in emissions resulting from the state's motor vehicle regulatory programs. ARB recently released EMFAC7G to be used for the development of motor vehicle emissions inventory. This version of EMFAC7G includes adjustments to driving cycles, number of starts by vehicle age, high emitters, and the benefits of the enhanced inspection and maintenance program. A detailed description of EMFAC7G is provided by in the ARB publication (ARB, 1996b). To estimate emissions from on-road motor vehicles, an updated Caltrans Direct Travel Impact Model (DTIM2) is applied using EMFAC7G and SCAG's regional transportation estimates.

The EMFAC7F model was used in the 1994 AQMP; however, the updated version EMFAC7G indicates that EMFAC7F underestimated the current year emissions by about 15% for VOC and 28% for NO_x. For future years, because of the incorporation of adopted rules, EMFAC7G shows about 25% less emissions for VOC and 15% less for NO_x. Figure 1-2 provides a comparison of emissions between EMFAC7F and EMFAC7G.

**FIGURE 1-2**

Comparison of Emissions Between EMFAC7F and EMFAC7G

(From Information provided by the California Air Resources Board - December 1995)

Other Mobile Sources

All mobile sources not included in the on-road mobile sources inventory are considered to be “other” mobile sources. Calculated emission levels are a function of emission factors, activity rates, and control factors. In most cases, procedures for estimating emissions from these sources are similar to those for area source methodologies. A number of studies sponsored by EPA, ARB, and manufacturers have established emission rates for these sources under varying operating conditions and fuel compositions. Emission factors and methodologies used to calculate emissions for off-road mobile sources are compiled by ARB, EPA, and the District.

A “California Specific Activity Information” study was conducted to improve emission estimates for construction equipment, agricultural equipment, industrial equipment, recreational equipment (excluding watercraft), and locomotives (ARB, 1995d). The study has demonstrated that emissions from these off-road mobile equipment categories were previously underestimated.

Pleasure Craft. ARB conducted a special study to inventory emissions from pleasure craft in 1993-1994. (ARB, 1995e). Under this study, a statewide survey of over 10,000 randomly selected pleasure craft vessel owners, registered with the California Department of Motor Vehicles (DMV), was conducted for a period of 12 months. The purpose of the survey was to collect fuel consumption rates and to evaluate spatial and temporal distribution of pleasure crafts in California. Based on the survey results, annual fuel consumption quantities were developed for each region and engine-propulsion type. Emission factors for pleasure crafts were provided by the National Marine Manufacturing Association (NMMA) by engine type, and were adjusted based on the in-use factors developed by the U.S. EPA. Based on the results of this study, pleasure craft emissions have increased due to the updated fuel consumption data and usage patterns obtained from the statewide survey.

The growth factors for pleasure craft emissions were based on projected population and disposable income (income left to spend on pleasure), whereas population growth was the only parameter used in the past to project pleasure craft emissions. The ARB is expected to conduct a further study to determine constraints in boat registration projections by taking into account the space limitations in lakes, rivers, and other waterways.

Ship Emissions. The District sponsored a study in order to improve the marine vessels emissions inventory in the Basin and to resolve discrepancies in the previous inventory reports. A number of improvements were made in this study to provide the most accurate assessment of marine vessels activities and emissions. These improvements include, but are not limited to: characterization of ocean-going vessels by deadweight tonnage, updated emission factors (based on the results of the most recent emission test data available), improved hotelling, cruising, and maneuvering times, fuel consumption rates by vessel category, inclusion of previously-uninventoried categories such as transit ships and ships calling at El Segundo off-shore facility, and the use of most recent activity data to calculate emissions from tugboats, harbor vessels, fishing vessels, and U.S. Navy and Coast Guard vessels. The emissions inventory developed under the study is in the 1997 AQMP.

The growth factors for ocean-going marine vessels, based on cargo and fleet forecasts for the San Pedro Bay Ports, are contained in a report prepared for the U.S. Army Corps of Engineers and the Los Angeles Harbor Department in 1992. This report projects traffic in the San Pedro Bay Ports through 2020 addressing, among other subjects, trends in ship size and speed and expected growth in cargo throughput. The marine vessels emissions forecast are primarily based on the anticipated growth in cargo throughput and projected number of vessel calls as well as vessel size.

Inventory Type

Average Annual Day Inventory

The average annual day emissions inventory was derived primarily by dividing the annual total emissions by 365, except for the on-road vehicle emissions. For the motor vehicle

source category, the average annual day emissions represent 40% of winter emissions and 60% of the summer emissions. In addition, the average annual day inventory was developed for all criteria pollutants regardless of their attainment status. The average annual day emissions are used to estimate cost-effectiveness of proposed control measures and future tracking of AQMP implementation (e.g., annual progress report on rule adoption).

Planning Inventory

The challenge of bringing the Basin air quality into compliance with state and federal air quality standards is complicated by the fact that ambient concentrations of ozone are typically at their highest during the summer (defined as May through October for planning purposes) while those for CO and NO₂ are generally highest during the winter months (November through April). Any strategy designed to mitigate air pollution in the Basin must consider this seasonal variation in ambient air quality. Planning inventories are also referred to as seasonal inventories. These inventories only present emissions for those air pollutants or their precursors for which the area is in nonattainment with state or federal air quality standards. The intent of a planning inventory is to characterize emission levels representative of those that occur during the typical season of violations. For example, the CO planning inventory lists emission levels of CO that occur during the winter. The summer, or ozone, planning inventory contain emissions of its ozone precursors (i.e. VOC and NO_x) during that season, whereas winter, CO and NO₂, planning inventory represent emission levels during winter. These planning inventories provide the basis for tracking emission reduction progress specified by the federal Clean Air Act (CAA) and California Clean Air Act (CCAA). The CAA requires the District to produce a plan for reducing all nonattainment pollutants or their precursors by fifteen percent between 1990 and 1996, and three percent each year thereafter, averaged every consecutive three years until reaching the attainment date. The CCAA requires emission reductions by five percent or more per year, averaged every consecutive three years until 2000. In addition, the CAA specifies 1990 as the base year, whereas the CCAA specifies 1987.

The ARB has developed guidelines for the development of planning inventories. For point sources emission estimates represent an “average annual operating day.” Emissions from point sources are calculated by dividing the total annual emissions produced by a source by the number of days the source was in operation. For example, if a company emitted 150 tons in a year and the production lines operated 5 days a week for 40 weeks, then the average operating emissions from this facility are calculated to be 150 tons divided by 200 days or 0.75 tons per day. Although emissions of volatile organic compounds (VOC) from some sources may depend on the ambient temperature or other meteorological factors, adjustments are not currently made for these parameters. However, ARB staff is continuing to evaluate possible adjustments.

Area source and other mobile source planning emissions represent an “average seasonal operating day.” As an example, VOC emissions produced by asphalt road-paving operations

are calculated by taking into account the variation in monthly levels and weekly operating days for paving activity during the year. Road paving varies from maximum rates during the summer season to minimum levels during the winter season. Paving activity varies throughout the week with, on average, five operating days in a week. The allocation of annual area source emissions among the seasons is based on estimated relative monthly and weekly emissions patterns. Since area source categories were estimated both by ARB and SCAQMD, temporal information was developed by the respective agency. As with point source emissions, the area source inventory was not adjusted for ambient temperature.

Motor vehicle emissions in a planning inventory are calculated using temperature profiles representative of ten days with the worst air quality. The days are divided into four time periods, and hourly temperature data for each period are developed. Daily average motor vehicle activity, including vehicle miles traveled, percent of vehicle miles traveled in specific speed ranges, and number of trips, is then assigned to each of the six time periods. Emission factors, currently calculated by the computer model EMFAC7G, are then applied to activity. The emissions estimates are currently calculated by the computer model DTIM2 using activity data and emission factors.

CHAPTER 2

SUMMARIES OF EMISSIONS

Baseline Emissions Inventories

Base Year Emission Data

Future Year Emission Data

Emission Trend Analysis

Controlled Emissions Inventories

Emission Impacts of SCAQMD Programs

Proposed Control Measures

CEPA Emission Calculations

BASELINE EMISSIONS INVENTORIES

Base Year Emission Data

The 1993 emissions inventory is used as the base year inventory to project future year emissions. It represents the most recent and comprehensive inventory development. For the purposes of Reasonable Further Progress (RFP) reporting as required by both the federal and state CAAs, two additional base year inventories were reconstructed: 1987 and 1990. Emissions for these two years were reconstructed or backcast from 1993 using the latest inventory methodologies (e.g., EMFAC7G) and socioeconomic/demographic data for all source categories, except for the point sources where reported emissions by facilities were used. Attachments A and B include emissions for 1987, 1990, 1993, 1997, 1999, 2000, 2002, 2003, 2005, 2006, 2007, 2008, 2010 and 2020 by major source categories. A major source category refers to a group of emission sources with similar characteristics. Emissions result primarily from the combustion of fuels, evaporation of solvents or fuels, and processing of materials. Hence, stationary sources are grouped under fuel combustion; waste burning; solvent use; petroleum processing, storage, and transfer; industrial processes; and other miscellaneous processes. Mobile sources are subdivided into source categories by type of vehicle: 1) on-road, and 2) other (off-road) mobile sources. On-road mobile sources include light-duty passenger vehicles; light-, medium-, and heavy-duty trucks; motorcycles; and urban buses. Other mobile sources include off-road vehicles, trains, ships, aircraft, and mobile equipment. Attachment C illustrates on-road emissions by vehicle class for 1987, 1990, 1993, 2000, 2006, 2010 and 2020. Figure 2-1 compares the emissions between 1987, 1990, 1993. As can be seen, slight emission reductions are shown for all stationary source pollutants due to adopted air regulations. Existing ARB vehicle regulations result in reductions in VOC and CO. The noticeable increase in NO_x emissions between 1987 and 1990 is due to the shift to 1990 census data as well as the estimated increase in heavy-duty vehicle VMTs.

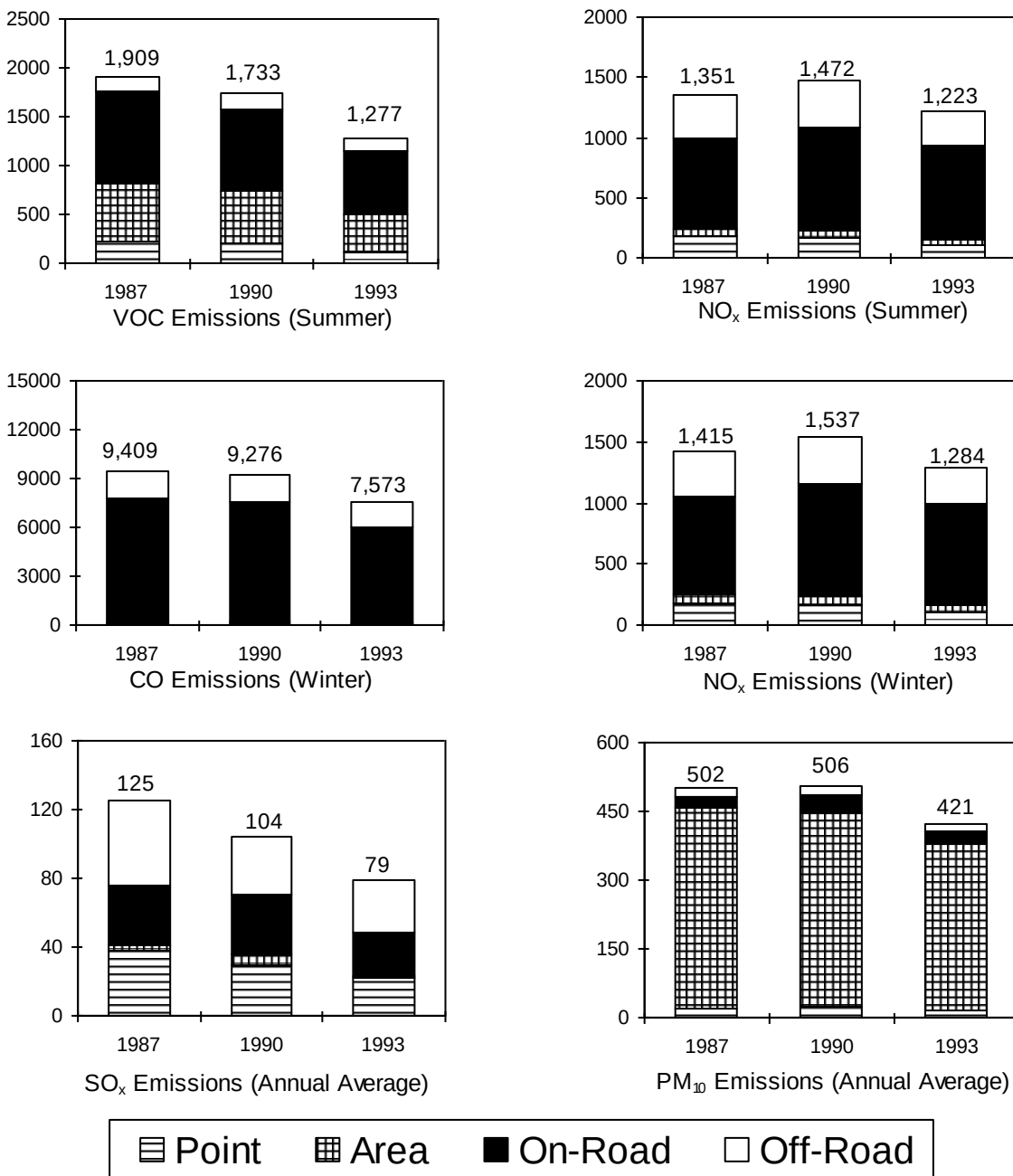


FIGURE 2-1

Comparison of Emissions Inventory of 1987, 1990, and 1993

Future Year Emission Data

Future baseline emissions, which are those expected if no additional air quality regulations are introduced, are given in this appendix for the years 1997, 1999, 2000, 2002, 2003, 2005, 2007, 2008, 2010, and 2020. These emissions are forecast from the 1993 base year by incorporating the controls implemented under District and ARB rules adopted as of September 30, 1996 and a specific set of growth rates from SCAG for population, industry, and motor vehicle activity. Growth projections from SCAG were replaced for certain categories where more specific information is available to improve emission forecasts. For example, CEC energy efficiency standards are used to refine emission forecasts for certain gas appliance related categories and the energy demand forecasts for natural gas and petroleum refinery are used to correlate emission growth. Rules adopted after September 30, 1996 are treated as control measures for emission reduction accounting purposes. The impact of New Source Review and emissions budgeted for several District programs are addressed in the Controlled Emission Data section. Due to the adoption of the Regional Clean Air Incentive Market (RECLAIM) program in October 1993, emissions sources are divided into two categories, RECLAIM and non-RECLAIM. Future emissions from RECLAIM sources are estimated based on their allocations specified by District Rule 2002 as well as the trading activity as of 1996. The methodology used to forecast emissions for non-RECLAIM sources is described in the following sections. Baseline emissions for future years are obtained using the following equation:

$$(F.Y.)_i = (B.Y.)_i(C.F.)_i(G.F.)_i$$

where $(F.Y.)_i$ is the forecast emissions of an air pollutant in the South Coast Air Basin for a future year. $(B.Y.)_i$ refers to the base year emissions of the air pollutant (i.e., 1993). The control factor, $(C.F.)_i$, is an indicator of the level of control imposed on a specific source category as a result of adopted state and local air quality regulations. $(G.F.)_i$ is a growth factor determined for different categories of industry and socioeconomic data.

Control Factors

Air pollution regulations adopted or amended by the District and ARB prior to September 30, 1996 with compliance dates after 1993 are listed in Tables 2-1 and 2-2. The impact of these rules is included in the baseline emission forecasts by means of control factors. Control factors were developed in reference to 1993 and applied to source categories and/or specific industries affected by the adopted rules/amendments. For industry, the standard industrial codes (SIC) system is used and for equipment, the EPA's SCC system is used. A control factor $(C.F.)_i$ is calculated by the following equation for an individual source category:

$$(C.F.)_i = 1 - \text{Control Efficiency}$$

TABLE 2-1

Rules and Regulations Adopted/Amended by SCAQMD
Prior to September 30, 1996 with Post-1993 Implementation Dates*

Rule Number	Title	Adoption/ Amendment Date
1111	NO _x from Gas Fired Furnaces	7/83
1109	Refinery Boilers & Process Heaters	8/88
1134	NO _x from Stationary Gas Turbines	8/89
431.2	Liquid Fuel Sulfur Content	4/90
1142	Marine Tank Vessel Operations	7/91
1113	Architectural Coatings	9/91
1128	Paper, Fabric & Film Coating Operations	2/92
1106.1	Pleasure Craft Coating Operations	5/92
1130.1	Screen Printing Operations	7/93
1168	VOCs from Adhesive Applications	12/93
1175	Polymeric Cellular Products (Blowing Foam)	4/94
1146 & 1146.1	Ind., Inst. & Comm. Boilers, Gen. &, Heaters	5/94
1162	Polyester Resin Operation	5/94
1110.1 & .2	Emissions from Internal Combustion Engines	12/94
1151	Motor Veh. Non-Assembly Line Coatings	12/94
1421	Control of Perc Emission from Dry Cleaning Op	12/94
1124	Aerospace Assembly & Component Mfg Ops	1/95
1153	Commercial Bakery Ovens	1/95
462	Organic Liquid Loading	6/95
461	Gas Transfer and Dispensing	9/95
2202	On-Road MV Mitigation	12/95
Reg. XIII **	New Source Review	12/95
1136	Wood Products Coatings	6/96
1176	Sumps and Wastewater Separators	9/96
1171	Solvent Cleaning Operations	9/96

* Only the latest rule amendment dates are listed. In cases where the latest date does not reflect

emissions reductions, prior amendments are utilized but not reflected in this table.

** The effect of this Rule amendment is incorporated in the baseline adjustment.

TABLE 2-2

Rules and Regulations Adopted by ARB Prior to September 30, 1996
with Post-1993 Implementation Dates

Regulation	Adoption Date
Exhaust Emission Standards and Test Procedures for Motor Vehicles (Multiple Regulations)	Pre-1990
On-Board Diagnostics I	Pre-1990
Basic Inspection and Maintenance Program	Pre-1990
Cleaner Diesel Fuel	11/88
On-Board Diagnostics II	9/89
Antiperspirants and Deodorants	11/89
Evaporative Emission Standards, Test Procedures, and Disability Requirements Applicable to Passenger Cars, Light-Duty Trucks, Medium-Duty Vehicles, and Heavy-Duty Vehicles	8/90
Low Emission Vehicles and Clean Fuels	9/90
Phase I Reformulated Gasoline	9/90
Phase I Consumer Products	10/90
Exhaust Emission Standards and Test Procedures for Utility and Lawn and Garden Equipment Engines	12/90
Phase II Reformulated Gasoline (Cleaner Burning Gasoline)	11/91
Wintertime Oxygen Content of Gasoline	12/91
Phase II Consumer Products	1/92
Exhaust Emission Standards and Test Procedures for Heavy-Duty Off-Road Diesel Cycle Engines and Equipment Engines	1/92
Specifications for Alternative Fuels for Motor Vehicles	3/92
Exhaust Emission Standards for 1996 and Subsequent Urban Bus Engines	6/93
Emission Control Regulations for Off-Highway Recreational Vehicles and Engines	1/94
Alternative Control Plan for Consumer Products	9/94
Aerosol Coating Products (CP-3)	3/95
Exhaust Emission Standards for 1998 and Subsequent Heavy-Duty Engines	6/95
Amendments to Low Emissions Vehicles and lean Fuels Regulations (Adoption of M3 and M8)	9/95
Enhanced Inspection and Maintenance Program	10/95

Control efficiency is mostly based on estimates projected during rulemaking. Control factors represent the remaining emissions after a rule or regulation is implemented after

1993. Table 2-3 lists control efficiencies for the years 2000 and 2010 for District rules with post-1993 compliance dates. As can be seen, all District rules and regulations adopted prior to September 30, 1996 are expected to be fully implemented by the year 2000, except for Rule 1110.2 for gaseous- and liquid-fueled internal combustion engines.

TABLE 2-3

Control Efficiencies by District Rules with Post-1993 Compliance Dates*

Rule Number	Rule Name	2000			2010		
		VOC	NO _x	SO _x	VOC	NO _x	SO _x
431.1	Gaseous Fuel Sulfur Content (SO _x)	-	-	0.83	-	-	0.83
431.2	Liquid Fuel Sulfur Content (SO _x)	-	-	0.84	-	-	0.84
461	Gas Transfer and Dispensing (VOC)	0.17	-	-	0.17	-	-
462	Organic Liquid Loading (VOC)	0.73	-	-	0.73	-	-
1106.1	Pleasure Craft Coating Operations (VOC)	0.61	-	-	0.61	-	-
1109	Refinery Boilers & Process Heaters (NO _x)	-	0.70	-	-	0.70	-
1110.1 & 1110.2	Emissions from Internal Combustion Engines (NO _x)	-	0.64	-	-	0.92	-
1111	NO _x from Gas Fired Furnaces (NO _x)	-	0.05	-	-	0.05	-
1113	Architectural Coatings (VOC)	0.01	-	-	0.01	-	-
1124	Aerospace Assembly & Component Mfg Ops (VOC)	0.20	-	-	0.20	-	-
1128	Paper, Fabric & Film Coating Operations (VOC)	0.08	-	-	0.08	-	-
1130.1	Screen Printing Operations (VOC)	0.49	-	-	0.49	-	-
1134	NO _x from Stationary Gas Turbines (NO _x)	-	0.55	-	-	0.55	-
1136	Wood Products Coatings (VOC)	0.72	-	-	0.72	-	-
1142	Marine Tank Vessel Operations (VOC)	0.87	-	-	0.87	-	-
1146 & 1146.1	Ind., Inst. & Comm. Boilers, Gen. &, Heaters (NO _x)	-	0.64	-	-	0.64	-
1151	Motor Veh. Non-Assembly Line Coatings (VOC)	0.41	-	-	0.41	-	-
1153	Commercial Bakery Ovens (VOC)	0.71	-	-	0.71	-	-
1162	Polyester Resin Operation (VOC)	0.08	-	-	0.08	-	-
1168	VOCs from Adhesive Applications (VOC)	0.57	-	-	0.57	-	-
1171	Solvent Cleaning Operations	0.46			0.46		
1175	Polymeric Cellular Products (Blowing Foam) (VOC)	0.12	-	-	0.12	-	-
1176	Sumps and Wastewater Separators	0.72			0.72		
1421 **	Control of Perc Emission from Dry Cleaning Op (TOXIC)	0.31	-	-	0.31	-	-
2202	On-Road MV Mitigation (VOC)	0.01	-	-	0.01	-	-

* List only control factors greater than 0 and are in reference to 1993.

** PERC is not defined as VOC in this AQMP.

Growth Factors

Growth factors applied to each emission inventory source category were derived from several surrogates, namely, industry output growth, employment growth, or demographic growth. These growth projections were developed primarily by SCAG. The selection of surrogate by which emission growth is projected depend on the type of activity. In general, for industry with finish products employment growth appears to be a better indicator than output growth (ARB, 1994). In some cases modifications to the traditional forecasting methodology are warranted to better project future emissions. For example, military aircraft emissions were maintained at a constant level to allow for potential realignment or reuse, unless site-specific projections were provided. CEC's growth indices based on energy demand were used for the petroleum refinery industry instead of SCAG's projection based on industry productivity or employment forecasts. Table 2-4 lists the types of growth surrogates used for the inventory source categories in the draft 1997 AQMP.

TABLE 2-4

Growth Surrogates by Source Category

Group 1: Source Categories Use Industry Output as Growth Factors

Area Sources

Source Description	Parameter
Baking - Commercial	Manufacturing-Food
Chemical Processes - Fabrication/Manufacturing	Manufacturing-Rubber
Degreasing	Manufacturing-Total
Metal Processes - Secondary Product	Manufacturing-Metal
Mineral Processes - Non-Asphalt	Manufacturing-Stone, Clay
Mobile Equipment - Refrigeration	Manufacturing-Food
Solvent Use - Adhesive & Seal	Manufacturing-Total
Solvent Use - Industrial-Misc.	Manufacturing-Total
Solvent Use - Industrial-Fabric	Manufacturing-Apparel
Solvent Use - Industrial-Metal Furn	Manufacturing-Furniture
Solvent Use - Industrial-Paper	Manufacturing-Paper
Solvent Use - Industrial-Marine	Manufacturing-Transportation
Solvent Use - Printing & Publish	Manufacturing-Print
Wine Making - Wine & Brandy	Manufacturing-Food
Wood And Paper - Processing Loss	Manufacturing-Furniture

Point Source Industries

SIC	Source Description
10-14	Mining
20-38	Manufacturing
40	Railroad Transportation
43	U.S. Postal Service
46	Pipeline, Except Natural Gas
48	Communications

TABLE 2-4

(continued)

Group 2: Source Categories Use Employment Data As Growth Factors

Area Sources

Source Description	Parameter (Employment)
Agricultural Processes - Agricultural	Agriculture-Total Employment
Aircraft-Other - Agricultural	Agriculture-Total Employment
Cooking - Commercial	Manufacturing-Total Employment
Const. & Demolition - Non-Government	Construction Employment
Const. & Demolition - Government	Government Employment
Farming Operations - Agricultural	Agriculture-Total Employment
Fuel Combustion - Agricultural	Agriculture-Total Employment
Fuel Combustion - Commercial	Services-Total Employment
Fuel Combustion -Industrial	Manufacturing-Total Employment
Industrial Equipment - Light Duty	Construction Employment
Mineral Processes - Surface Blasting	Total Employment
Non-Farm Equipment - Heavy Duty	Construction Employment
Other - Unspecified	Total Employment
Pesticide Appli/Use - Agriculture-Synthetic	Agriculture-Total Employment
Pesticide Appli/Use - Non-Agricultural	Total-Co Employment
Solvent Use - Commercial	Services-Automobile Employment
Solvent Use - Dry Cleaning	Services-Professional Employment
Solvent Use - Asphalt Paving/Other	Construction Employment
Trains - Locomotives	Transportation, Communications and Utilities-Rail Employment
Waste Burning - Range Mngmnt	Agriculture-Total Employment

Point Source Industries

SIC	Source Description
1-9	Agriculture
15-17	Construction
39	Miscellaneous Manufacturing
41	Local & Interurban Transit
42	Trucking & Warehousing
44	Water Transportation
45	Air Transportation
47	Transportation Services
49	Gas & Sanitary
50-51	Wholesale Trade
52-59	Retail Trade
60-67	Finance, Insurance & Real Estate
70-89	Services

91-97 Public Administration

TABLE 2-4

(continued)

Group 3: Source Categories Use SCAG's Demographic Data as Growth Factors

Area Source

Source Description	Parameter
Fuel Combustion - Residential	Housing Unit-SCAG *
Industrial Equipment - Light Duty	Population-SCAG
Pesticide Applications - Consumer Product	Population-SCAG
Solvent Use - Architectural	Housing Unit-SCAG
Solvent Use - Consumer Product	Population-SCAG
Unplanned Fires - Structural Fire	Housing Unit-SCAG
Utility Equipment - Lawn & Garden (Non-Commercial)	Housing Unit-SCAG
Waste Disposal - Landfills	Population-SCAG **

* Energy Efficiency Factor Per CEC's 1993 Fuel Report Incorporated.

**Wasterecycling programs incorporated.

Group 4: Source Categories Use VMT as Growth Factors

Area source

Source Description	Parameter
On-Road	VMT-SCAG
Paved Road Collector	VMT-Collector
Paved Road Local Street	VMT-Local

TABLE 2-4

(continued)

Group 5: Others

Area Source

Source Description	Parameter	Note
Commercial Boat	Commercial Boat	(1)
Farm Equipment - Heavy Duty Diesel	Agriculture-Diesel	(1)
Farm Equipment - Heavy Duty Gas	Agriculture-Gas	(1)
Fuel Combustion - Petroleum Product	Energy Forecast	(2)
Gas Distribution - Transmission	Natural Gas Forecast	(3)
Gasoline Dispensing - Tanks/Vehicle Refueling	Fuel Consumption	(4)
Government Aircraft - Military	No Growth	(5)
Mineral Processes - Petroleum Related	Energy Forecast	(2)
Natural Sources - Windblown Dust	No Growth	(5)
Off-Road Vehicle - Recreational	Registration	(1)
Oil & Gas Extraction	No Growth	(2)
Oil Production	No Growth	(2)
Other Aircraft - Jet Aircraft	Aviation-Commercial	(6)
Other Aircraft - Jet & Piston Aircraft	Aviation-General	(6)
Paved Road - Freeway/Major Arterial	Road Miles	(7)
Pesticide Appli/Use - Ag-Non-Synthetic	No Growth	(8)
Petroleum Related Source - Petroleum	Energy Forecast	(2)
Ships		(9)
Unpaved Road Dust - Entrained Road	No Growth	(5)
Unplanned Fires - Automobile Fire/Wildfires	No Growth	(5)
Utility Equipment - Lawn & Garden (Comm'l)	Commercial- Construction	(1)
Waste Burning - Forest Mgmt	Forest Management	(10)
Waste Disposal - Solvent	No Growth	(5)

Comments:

- (1) Calif. State Fullerton Study For ARB (ARB, 1994)
- (2) CEC's 1995 Fuels Report
- (3) 1993 California Gas Report
- (4) ARB Burden Model Fuel Consumption Estimates
- (5) Revised Inventory Methodology by District
- (6) SCAG's Study
- (7) Caltrans And ARB Data
- (8) ARB's Data - No Growth Since 1982
- (9) District's Contract Study
- (10) Angeles National Forest Office

The demographic forecasts from the year 1993 to the years 2000, and 2010 for population, housing, employment, and motor vehicle activity are shown in Table 2-5. As can be seen, the whole Basin population in 2010 will increase by 21% from the 1993 level. VMT increases from 293.3 million miles in 1993 to 377.9 million miles in 2010, or approximately 29%. This growth accounts for the emission increase in the future years. Table 2-6 exhibits the relative distribution of population by county in the Basin for the years 1987, 1990, 1993, 2000, and 2010. By 2010 the population in Los Angeles county will increase by 16% from 1993 levels, compared with increases for Orange (16%), San Bernardino (40%), and Riverside (58%) counties. Tables 2-7 through 2-9 list growth factors for 2000, 2010, and 2020 for Los Angeles, Orange, Riverside, and San Bernardino counties

The current projection for the year 2010 shows about half a million decrease in population and a 36 million mile decrease in VMT forecast as compared to the projection from the 1994 AQMP. The differences in forecasts are primarily due to SCAG's updated 1994-based forecast incorporating the recession between 1990 and 1994. Because of the recession, the projected population and employment decreased from previous forecast. As a result, the VMTs and trips decrease as well.

Growth factors for specified ranges of SIC were projected by SCAG (1996), and are based on predictions of growth for different industrial sectors. SCAG has provided growth factors for the years 2000, 2005, 2010, and 2020. The growth factors for other years are interpolated between these years.

TABLE 2-5
Baseline Socioeconomic Forecasts Used in 1997 AQMP*

Category	1993	2000 (% Growth)		2010 (% Growth)	
Population (Millions)	13.8	14.8	(+7)	16.7	(+21)
Housing Units (Millions)	4.8	5.1	(+6)	5.7	(+19)
Total Employment (Millions)	6.0	6.7	(+12)	8.0	(+33)
Daily VMT (Millions)	293.3	317.9	(+8)	377.9	(+29)
Daily Vehicle Trips (Millions)	31.2	33.2	(+6)	37.9	(+21)

* No AQMP measures included.

TABLE 2-6

Population Forecast by County in SCAB (in Thousands)

Year	Los Angeles	Orange	Riverside	San Bernardino	Basin Total
1987					12,008
	8,250	2,197	627	934	
1990					
	8,612	2,411	864	1,108	12,995
1993					
	8,933	2,595	1,012	1,217	13,757
2000					
	9,442	2,740	1,207	1,410	14,798
2010					
	10,329	3,023	1,597	1,704	16,653
2020					18,926
	11,534	3,325	2,077	1,990	

TABLE 2-7

SIC Code Growth Factors by County for the Year 2000

SIC Sector	SIC Code	Los Angeles	Orange	Riverside	San Bernardino
Agriculture	1-6,8,9	0.953	1.000	0.988	0.984
Agriculture Services	7	1.341	1.349	1.318	1.389
Mining	10-12,14	0.770	0.810	0.570	0.570
Mining-Oil & Gas Extr.	13	1.000	1.000	1.000	1.000
Construction	15-17	1.060	1.313	1.427	1.423
Food/Tobacco	20-21	1.060	1.070	1.050	1.050
Textile Mill	22	1.250	1.270	1.080	1.070
Apparel/Other Text.	23	1.230	1.220	1.240	1.230
Lumber/Wood	24	1.420	1.470	1.350	1.350
Furniture/Fixtures	25	1.140	1.150	1.120	1.120
Paper	26	1.270	1.260	1.250	1.250
Printing	27	1.240	1.260	1.230	1.220
Chemicals	28	1.160	1.160	1.150	1.140
Petroleum	29	1.000	1.000	1.000	1.000
Rubber & Plastic	30	1.380	1.350	1.380	1.370
Leather	31	0.930	1.010	1.000	1.000
Stone, Clay, & Glass	32	1.200	1.200	1.150	1.140
Pri. Metals	33	1.280	1.270	1.260	1.250
Fab. Metals	34	1.240	1.250	1.230	1.220
Mach-NElect	35	1.300	1.180	1.420	1.410
Elect. Equip	36	1.400	1.390	1.390	1.390
Misc. Mfg.	39	0.920	0.914	1.000	0.875

TABLE 2-7

(concluded)

SIC Sector	SIC Code	Los Angeles	Orange	Riverside	San Bernardino
Trans Equip	37	0.960	1.010	1.160	1.160
Instrument	38	1.170	1.220	1.061	1.000
Railroad Trans.	40	1.200	1.240	0.920	0.910
Local/Suburban Trans	41	1.065	1.152	1.125	1.071
Trucking/Warehousing	42	1.109	1.111	1.053	1.060
U.S. Postal Service	43	1.250	1.300	1.210	1.200
Water Trans	44	1.111	1.143	1.000	1.000
Trans by Air	45	1.124	1.111	1.000	1.130
Pipelines	46	0.900	1.090	0.690	0.680
Trans Services	47	1.265	1.366	1.000	1.000
Communications	48	1.170	1.260	1.030	1.020
Elect/Gas/Sanitary	49	1.083	1.182	1.393	1.257
Wholesale	50-51	1.127	1.136	1.109	1.102
Retail	52-59	0.929	1.272	1.647	1.602
Finance	60-62	0.941	1.127	1.509	1.514
Insurance	63-64	0.969	1.124	1.348	1.324
Real Estate/Other	65-67	1.078	1.271	0.964	0.939
Service-Hotel/Lodge	70	1.209	1.211	1.167	1.318
Service-Personal	72	1.026	1.312	1.435	1.576
Service-Business	73	1.395	1.398	1.284	1.416
Service-Repair/Parkg	75-76	1.028	1.405	1.857	2.057
Service-Motion Pict.	78	1.753	1.219	1.400	1.625
Service-Recreation	79	1.232	1.237	1.194	1.333
Service-Health	80	1.113	1.364	1.342	1.468
Service-Legal	81	1.154	1.327	1.273	1.375
Service-Educational	82	1.098	1.476	1.944	2.071
Service-Other	83-86	1.128	1.309	1.489	1.638
Service-Engr/Mgmt	87	1.200	1.219	1.242	1.389
Private Hsehd/NEC	88-89	1.250	1.334	1.397	1.510
Government	91-97	1.05 0	1.090	1.138	1.129
Population	----	1.057	1.056	1.193	1.159
Housing Units	----	1.021	1.048	1.245	1.183

Note: SCAG projections relative to 1993 base year.

TABLE 2-8
SIC Code Growth Factors by County for the Year 2010

SIC Sector	SIC Code	Los Angeles	Orange	Riverside	San Bernardino
Agriculture	1-6,8,9	0.859	0.920	0.964	0.871
Agriculture Services	7	1.815	1.860	1.909	1.889
Mining	10-12,14	0.490	0.450	0.410	0.370
Mining-Oil & Gas Extr.	13	1.000	1.000	1.000	1.000
Construction	15-17	1.094	1.493	1.833	1.654
Food/Tobacco	20-21	1.100	1.160	1.210	1.090
Textile Mill	22	1.480	1.470	1.410	1.270
Apparel/Other Text.	23	1.430	1.430	1.520	1.370
Lumber/Wood	24	1.600	1.660	1.600	1.440
Furniture/Fixtures	25	1.290	1.290	1.380	1.240
Paper	26	1.710	1.700	1.810	1.630
Printing	27	1.710	1.740	1.810	1.630
Chemicals	28	1.470	1.480	1.570	1.410
Petroleum	29	1.000	1.000	1.000	1.000
Rubber & Plastic	30	1.900	1.840	2.030	1.830
Leather	31	0.850	0.830	0.830	0.750
Stone, Clay, & Glass	32	1.290	1.310	1.340	1.200
Pri. Metals	33	1.410	1.380	1.460	1.310
Fab. Metals	34	1.350	1.360	1.430	1.280
Mach-N Elect	35	1.810	1.450	2.320	2.090
Elect. Equip	36	2.070	2.060	2.160	1.940
Trans Equip	37	1.260	1.250	1.580	1.420
Instrument	38	1.730	1.850	1.242	1.091
Misc. Mfg.	39	0.813	0.829	0.833	0.750
Railroad Trans.	40	1.620	1.780	1.460	1.310
Local/Suburban Trans	41	1.056	1.182	1.375	1.071
Trucking/Warehousing	42	1.260	1.269	1.289	1.180
U.S. Postal Service	43	1.770	1.930	1.920	1.730
Water Trans	44	1.198	1.143	1.000	1.000
Trans by Air	45	1.284	1.296	1.000	1.261
Pipelines	46	1.040	1.260	0.870	0.780
Trans Services	47	1.686	1.976	1.000	0.800
Communications	48	1.410	1.870	1.550	1.390
Elect/Gas/Sanitary	49	1.233	1.466	2.074	1.706
Wholesale	50-51	1.304	1.316	1.386	1.244
Retail	52-59	0.851	1.599	2.786	2.486
Finance	60-62	0.942	1.277	2.263	2.042
Insurance	63-64	0.981	1.498	2.043	1.838
Real Estate/Other	65-67	1.232	1.737	1.036	0.909

Service-Hotel/Lodge	70	1.489	1.503	1.583	1.682
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TABLE 2-8

(concluded)

SIC Sector	SIC Code	Los Angeles	Orange	Riverside	San Bernardino
Service-Personal	72	1.129	1.835	2.391	2.394
Service-Business	73	2.159	2.171	2.128	2.130
Service-Repair/Parkg	75-76	1.065	1.969	3.690	3.698
Service-Motion Pict.	78	2.480	1.406	3.300	3.250
Service-Recreation	79	1.730	1.743	1.806	1.857
Service-Health	80	1.398	2.104	2.353	2.350
Service-Legal	81	1.504	2.000	2.000	2.000
Service-Educational	82	1.298	2.076	3.611	3.524
Service-Other	83-86	1.438	1.916	3.011	3.010
Service-Engr/Mgmt	87	1.556	1.594	1.970	2.000
Private Hsehd/NEC	88-89	1.681	1.954	2.453	2.416
Government	91-97	1.153	1.215	1.543	1.386
Population	----	1.156	1.165	1.578	1.400
Housing Units	----	1.118	1.165	1.669	1.442

Note: SCAG projections relative to 1993 base year.

TABLE 2-9

SIC Code Growth Factors by County for the Year 2020

SIC Sector	SIC Code	Los Angeles	Orange	Riverside	San Bernardino
Agriculture	1-6,8,9	0.776	0.867	0.892	0.855
Agriculture Services	7	2.326	2.465	2.727	2.444
Mining	10-12,14	0.250	0.190	0.220	0.200
Mining-Oil & Gas Extr.	13	1.000	1.000	1.000	1.000
Construction	15-17	1.066	1.569	1.967	1.859
Food/Tobacco	20-21	1.080	1.210	1.190	1.130
Textile Mill	22	1.660	1.680	1.550	1.460
Apparel/Other Text.	23	1.570	1.550	1.650	1.560
Lumber/Wood	24	1.810	1.920	1.900	1.800
Furniture/Fixtures	25	1.390	1.410	1.480	1.400
Paper	26	2.230	2.170	2.330	2.200
Printing	27	2.190	2.230	2.250	2.130
Chemicals	28	1.800	1.780	1.870	1.770
Petroleum	29	1.000	1.000	1.000	1.000

Rubber & Plastic	30	2.620	2.490	2.800	2.650
Leather	31	0.780	0.620	0.620	0.580

TABLE 2-9

(continued)

SIC Sector	SIC Code	Los Angeles	Orange	Riverside	San Bernardino
Stone, Clay, & Glass	32	1.350	1.390	1.380	1.310
Pri. Metals	33	1.540	1.420	1.500	1.420
Fab. Metals	34	1.460	1.470	1.500	1.420
Mach-N Elect	35	2.750	1.860	3.900	3.690
Elect. Equip	36	2.960	2.920	3.110	2.950
Trans Equip	37	1.620	1.860	2.040	1.930
Instrument	38	2.480	2.720	1.394	1.273
Misc. Mfg.	39	0.727	0.743	0.833	0.750
Railroad Trans.	40	2.030	2.470	1.830	1.720
Local/Suburban Trans	41	1.084	1.333	1.500	1.286
Trucking/Warehousing	42	1.383	1.398	1.395	1.330
U.S. Postal Service	43	2.430	2.780	2.610	2.470
Water Trans	44	1.235	1.143	1.000	1.000
Trans by Air	45	1.390	1.407	1.000	1.391
Pipelines	46	1.150	1.410	0.980	0.920
Trans Services	47	2.175	2.707	1.000	0.800
Communications	48	1.650	2.640	2.040	1.920
Elect/Gas/Sanitary	49	1.356	1.741	2.703	2.197
Wholesale	50-51	1.413	1.433	1.465	1.381
Retail	52-59	0.738	1.809	3.771	3.289
Finance	60-62	0.901	1.322	2.544	2.417
Insurance	63-64	0.948	1.763	2.478	2.297
Real Estate/Other	65-67	1.310	2.112	1.000	0.909
Service-Hotel/Lodge	70	1.692	1.731	2.000	1.909
Service-Personal	72	1.155	2.248	3.348	3.030
Service-Business	73	3.242	3.283	3.450	3.099
Service-Repair/Parkg	75-76	1.019	2.423	5.881	5.302
Service-Motion Pict.	78	2.844	1.500	5.200	4.625
Service-Recreation	79	2.531	2.581	2.839	2.619
Service-Health	80	1.662	3.025	3.840	3.443
Service-Legal	81	1.818	2.700	2.909	2.625

Service-Educational	82	1.434	2.686	5.972	5.238
Service-Other	83-86	1.719	2.606	5.351	4.800
Service-Engr/Mgmt	87	1.895	1.965	2.848	2.611
Private HseHld/NEC	88-89	2.132	2.723	3.949	3.496

TABLE 2-9

(concluded)

SIC Sector	SIC Code	Los Angeles	Orange	Riverside	San Bernardino
Government	91-97	1.210	1.294	1.799	1.700
Population	----	1.291	1.281	2.053	1.635
Housing Units	----	1.264	1.297	2.230	1.701

Note: SCAG projections relative to 1993 base year.

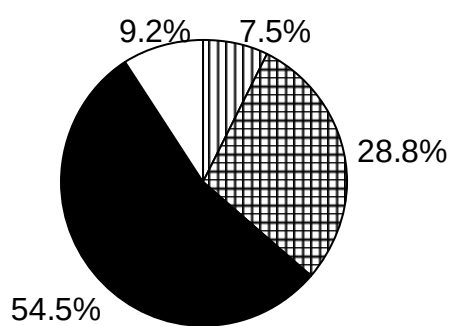
Future Year Emission Data

Based on the methodology described above, future year emission inventories data for the milestone years 1997, 1999, 2000, 2002, 2003, 2005, 2006, 2007, 2008, 2010, and 2020 are presented in Attachments A (average annual day) and B (planning inventory) of this report. These target years are selected to correspond to the years required by either the federal or state CAA to demonstrate attainment with the federal air quality standards. Years 2000, 2006, and 2010 are milestones to attain CO, PM₁₀, and ozone air quality standards, respectively. Emissions for the year 2020 are projected for the first time to assess the need for a maintenance plan once all federal standards are attained by 2010.

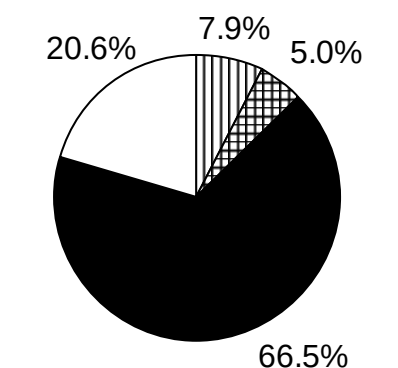
Emission Trend Analysis

Figures 2-2 through 2-5 present the relative contributions by source categories (i.e., point, area, on-road, and off-road) to total emission levels in 1993 and 2010, respectively. As seen in the figures, in 1993 (average annual day) on-road and off-road mobile sources are major contributors of CO (98%), NO_x (87%), SO_x (71%) and VOC (64%) emissions. Fine particulate matter is produced mostly from entrained road dust (53%). For 2010 (average annual day), mobile sources continue to be major contributors to total CO, NO_x, and SO_x emissions by approximately 94%, 85%, and 81%, respectively. However, contribution to VOC by mobile sources is reduced significantly due to the state LEV program and the oxygenated fuel program. On the contrary, area source VOC emissions become the major contributor to VOC emissions (i.e., 50%).

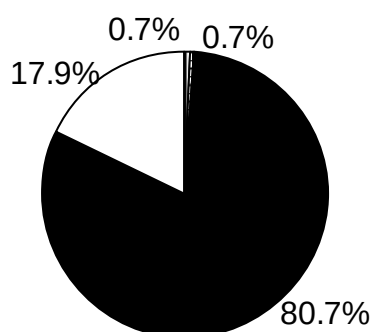
Figures 2-6 through 2-9 illustrate the emission trends by pollutant between 1987 and 2010. For comparison purposes 1987, 1990, 1993, 2000, 2006, and 2010 are presented also.



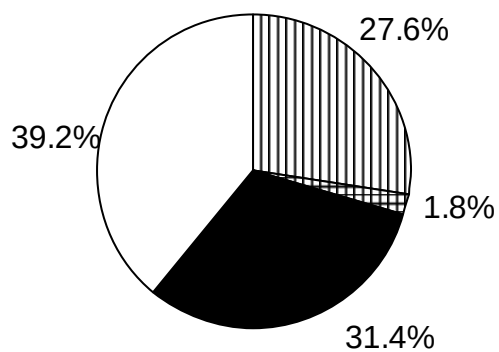
VOC Emissions: 1,240 Tons/Day



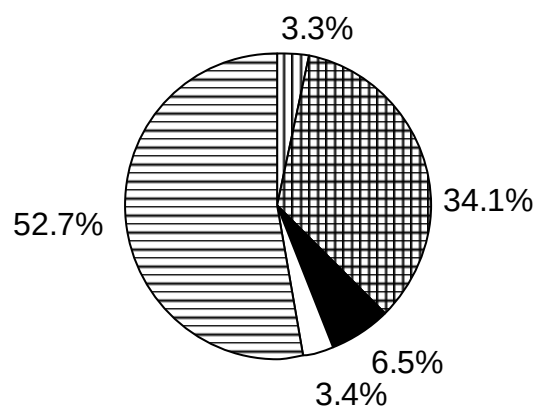
NO_x Emissions: 1,194 Tons/Day



CO Emissions: 7,045 Tons/Day



SO_x Emissions: 79 Tons/Day



PM₁₀ Emissions: 421 Tons/Day

 Point
  Area
  On-Road
  Off-Road
  Entrained Road Dust

FIGURE 2-2

Relative Contribution by Source Category to
1993 Emissions Inventory - Average Annual Day

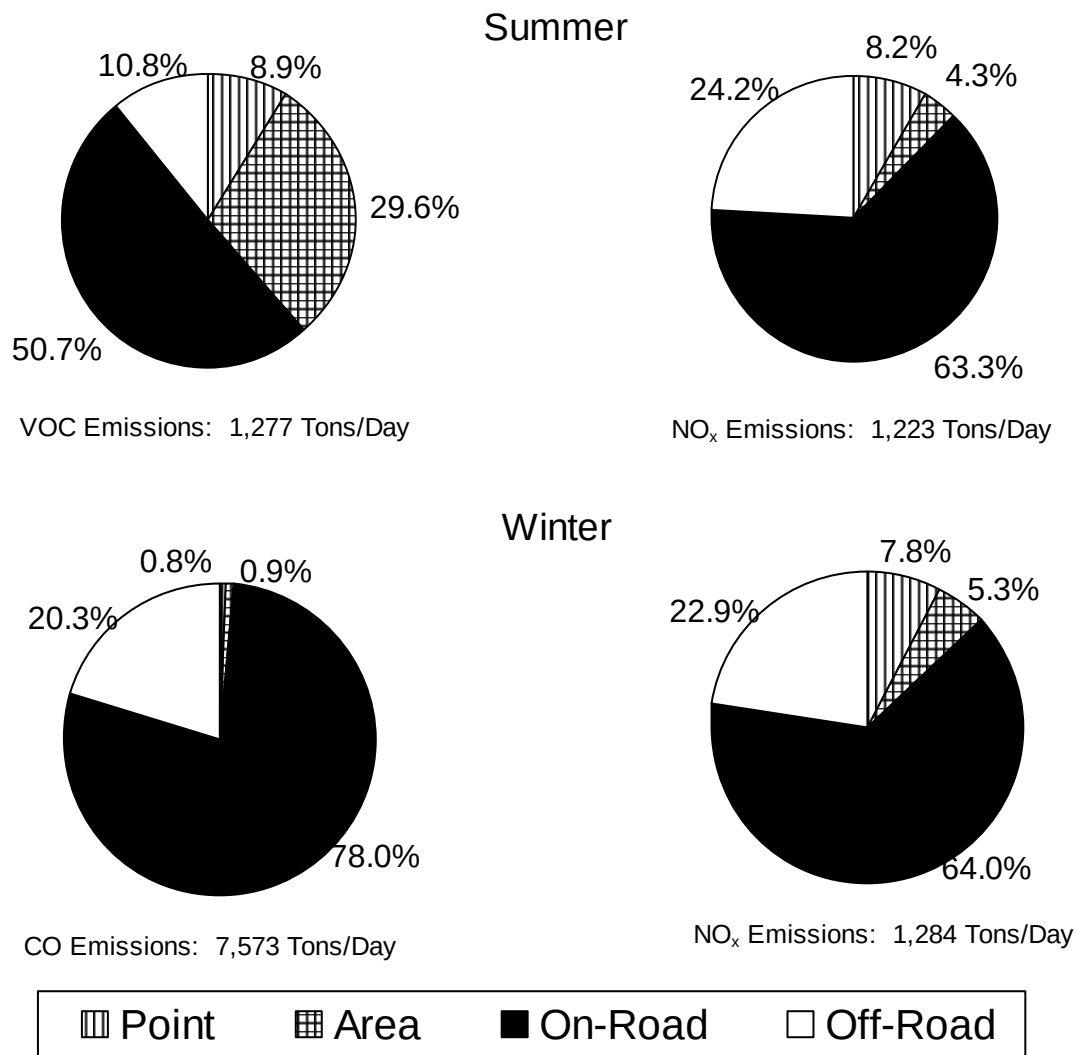
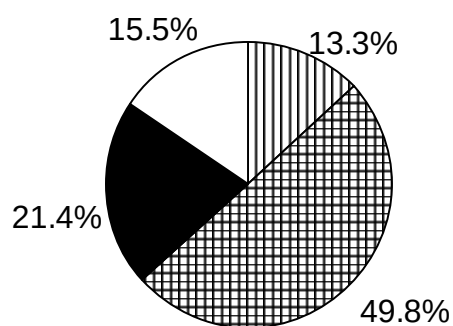
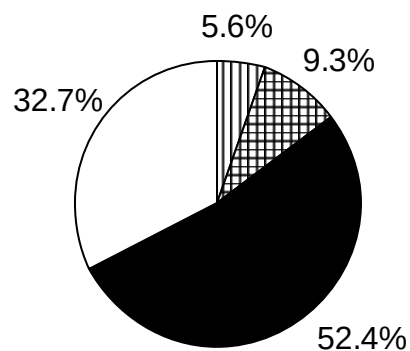


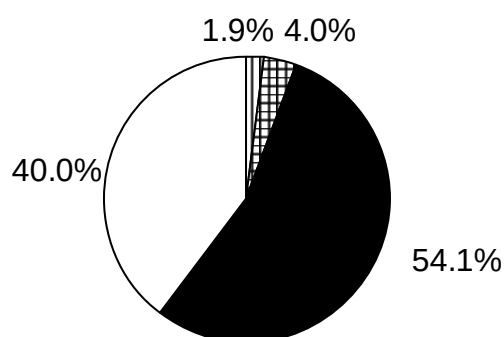
FIGURE 2-3
Relative Contribution by Source Category to
1993 Emissions Inventory - Planning Inventory



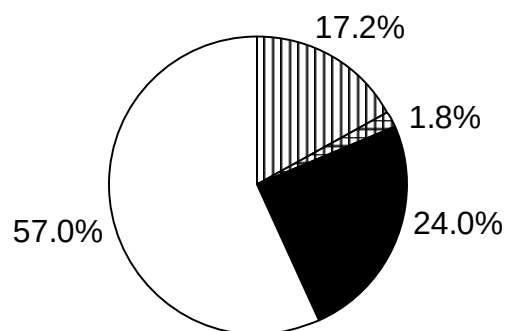
VOC Emissions: 770 Tons/Day



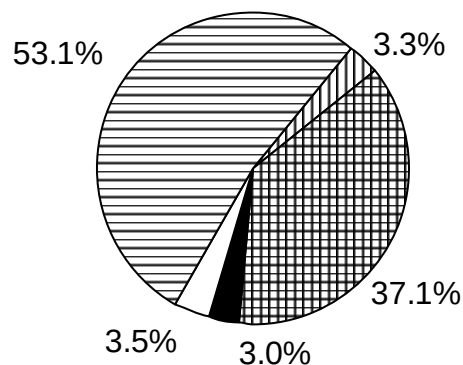
NO_x Emissions: 697 Tons/Day



CO Emissions: 3,341 Tons/Day



SO_x Emissions: 70 Tons/Day



PM₁₀ Emissions: 463 Tons/Day

Point
 Area
 On-Road
 Off-Road
 Entrained Road Dust

FIGURE 2-4

Relative Contribution by Source Category to
2010 Emissions Inventory - Average Annual Day

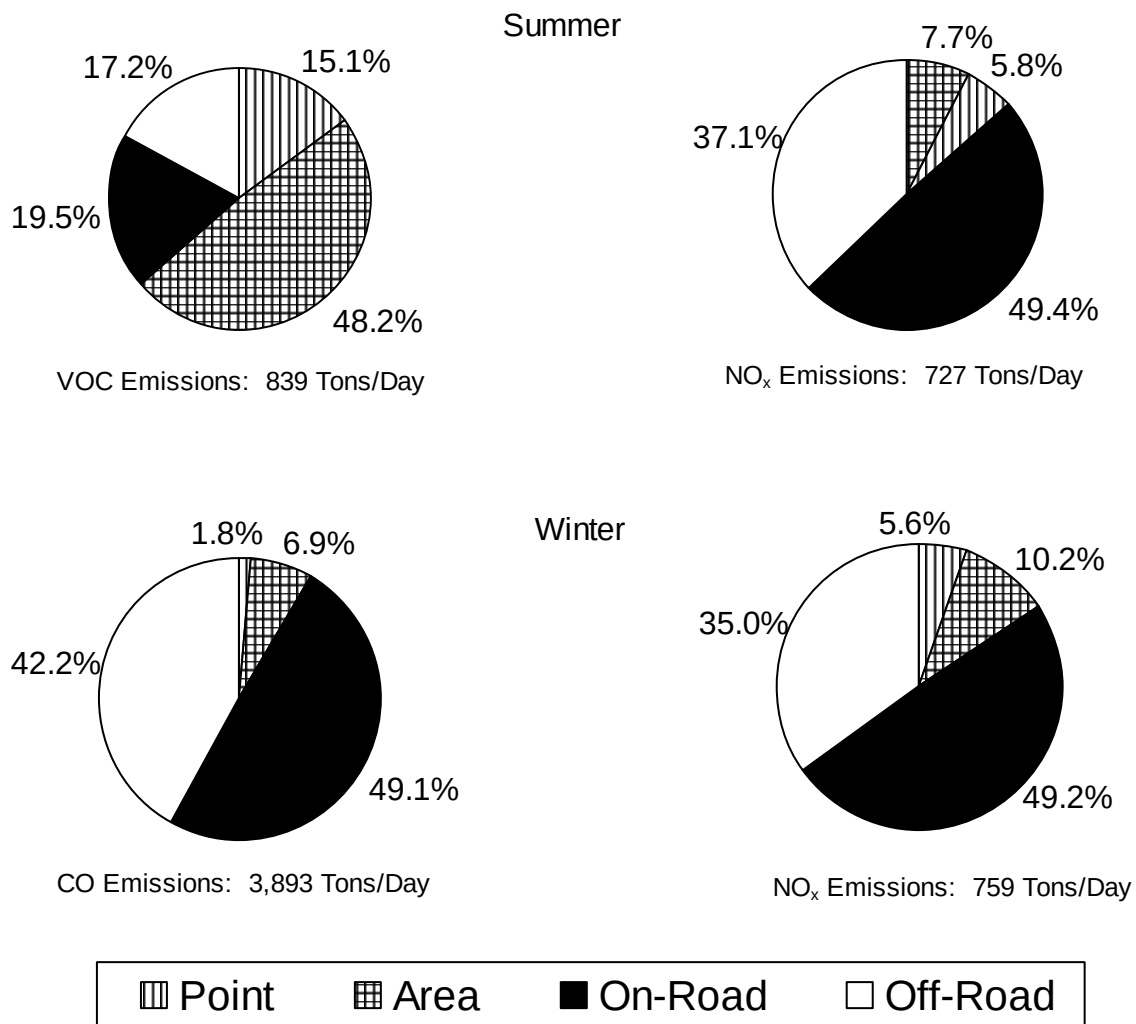
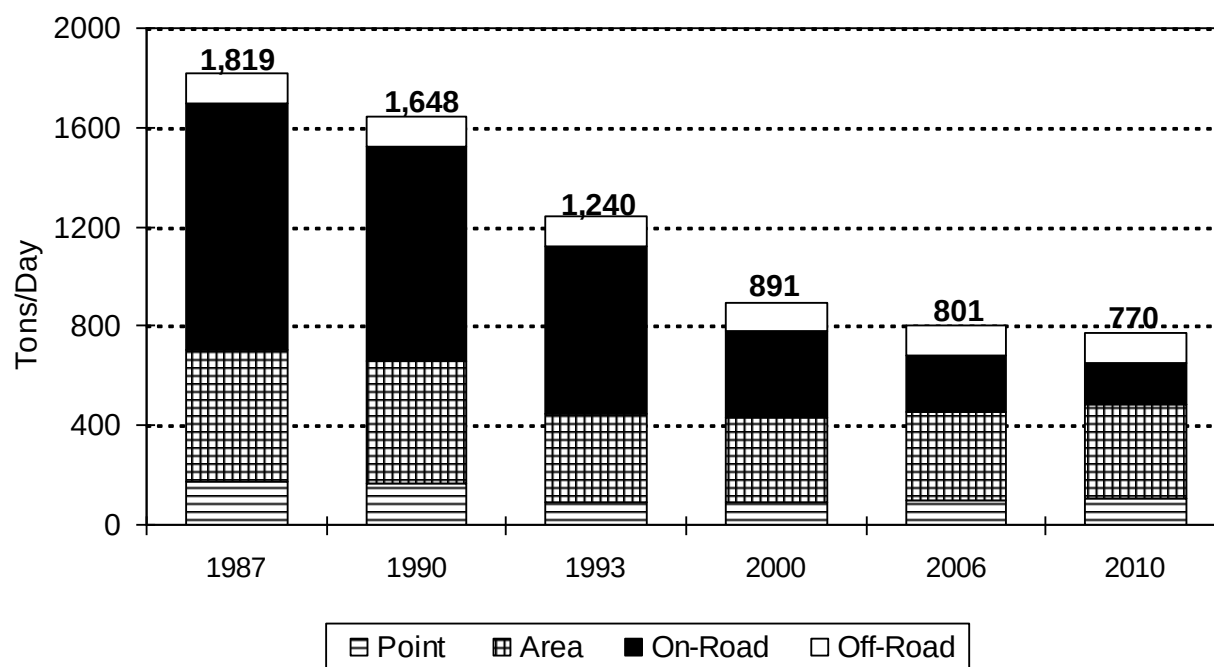
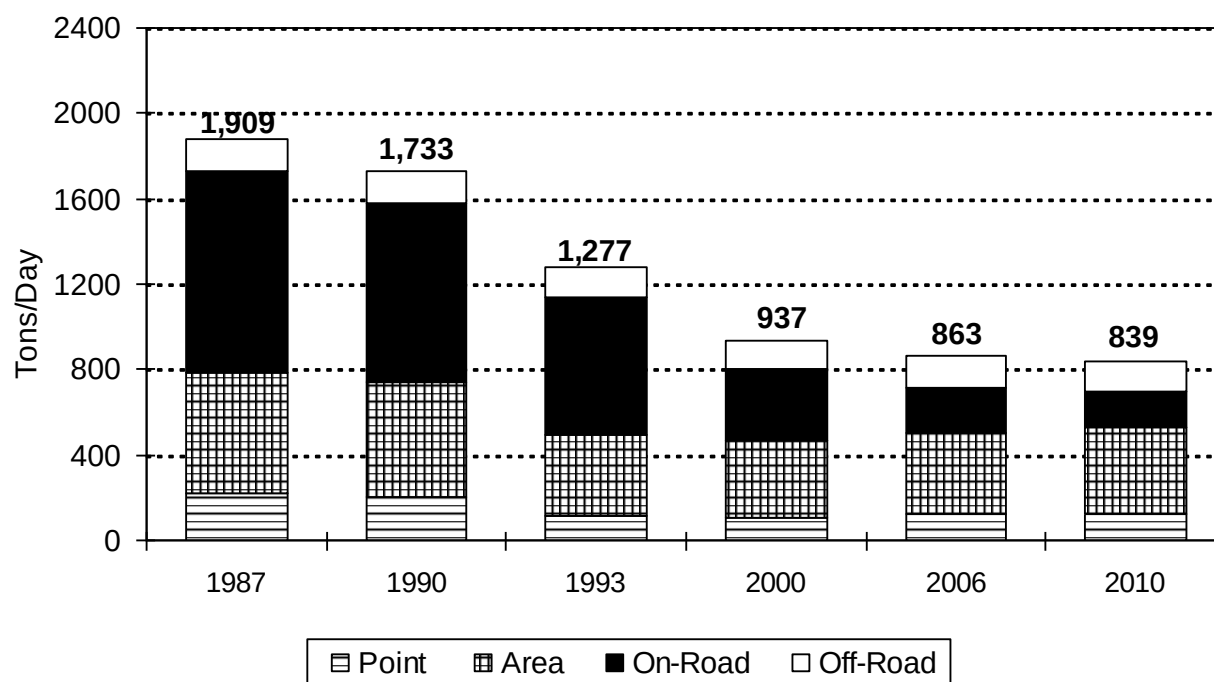


FIGURE 2-5
Relative Contribution by Source Category to
2010 Emissions Inventory - Planning Inventory

**FIGURE 2-6A**

VOC Emission Trend by Source Category - Average Annual Day

**FIGURE 2-6B**

VOC Emission Trend by Source Category - Summer Planning

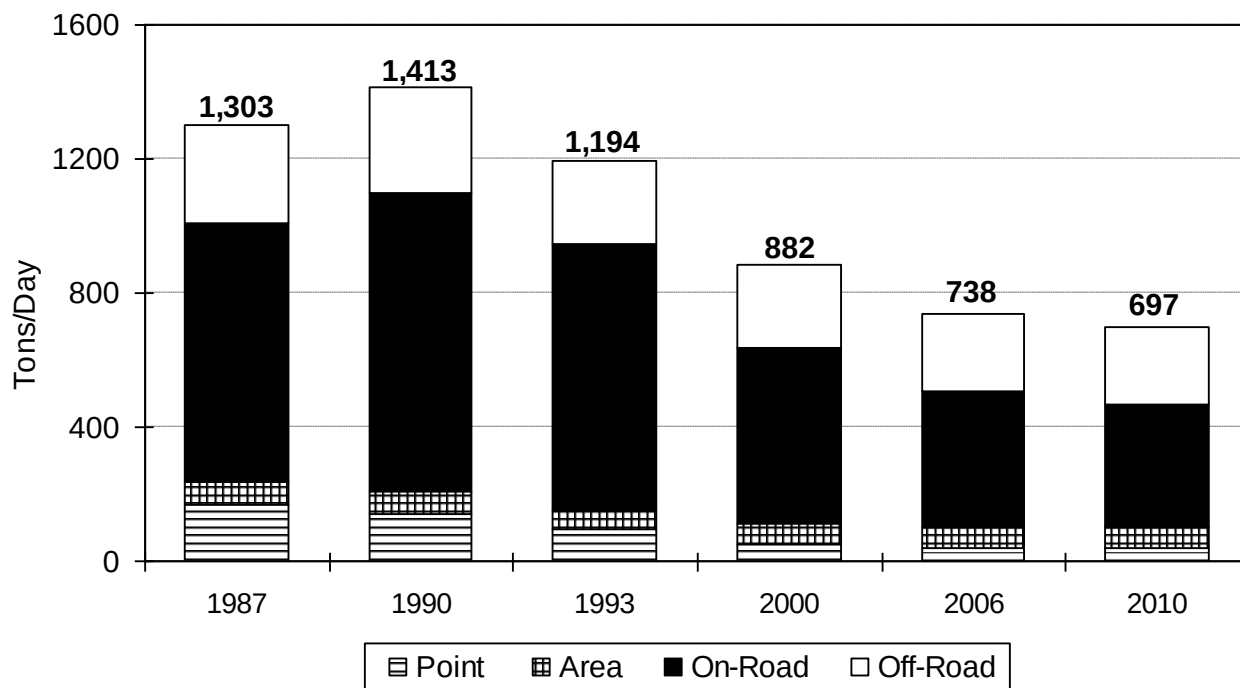


FIGURE 2-7A

NO_x Emission Trend by Source Category - Average Annual Day

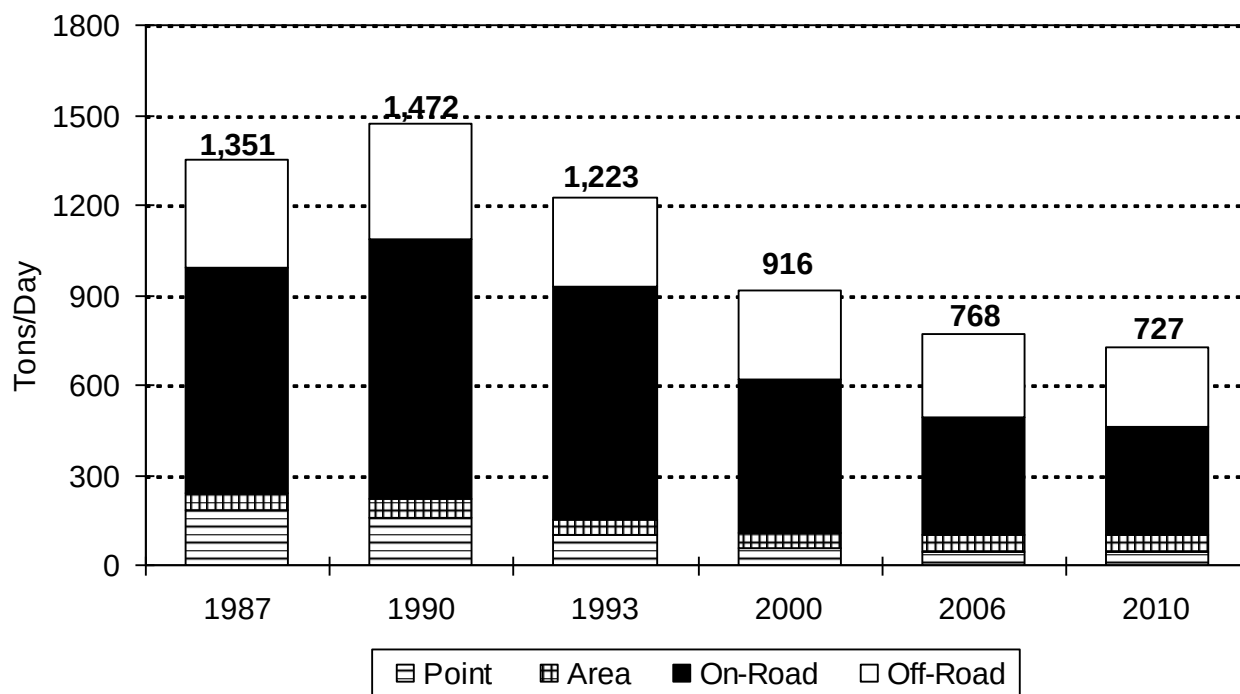
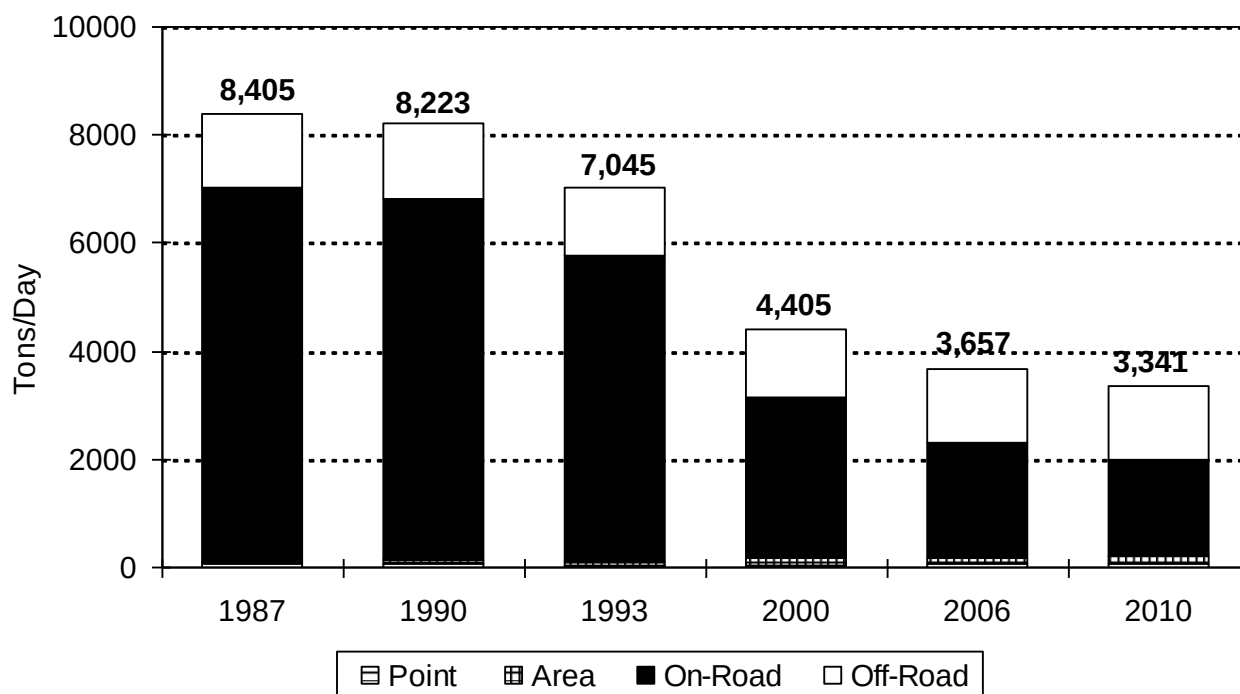
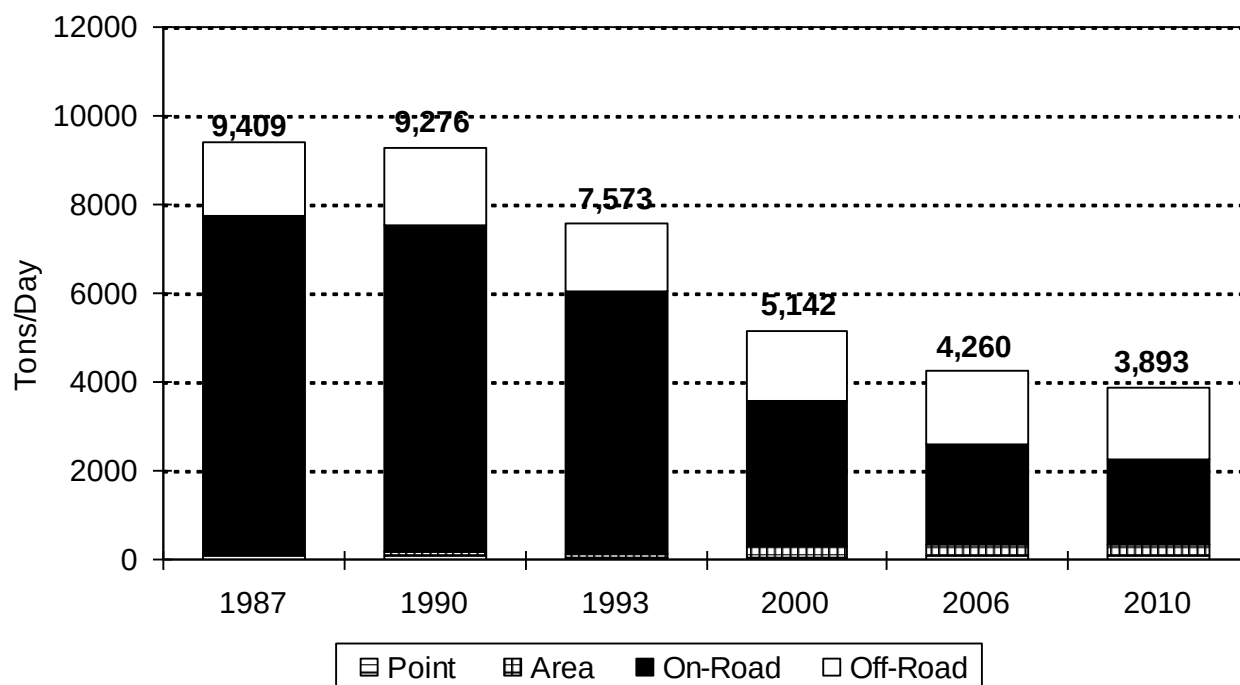


FIGURE 2-7B

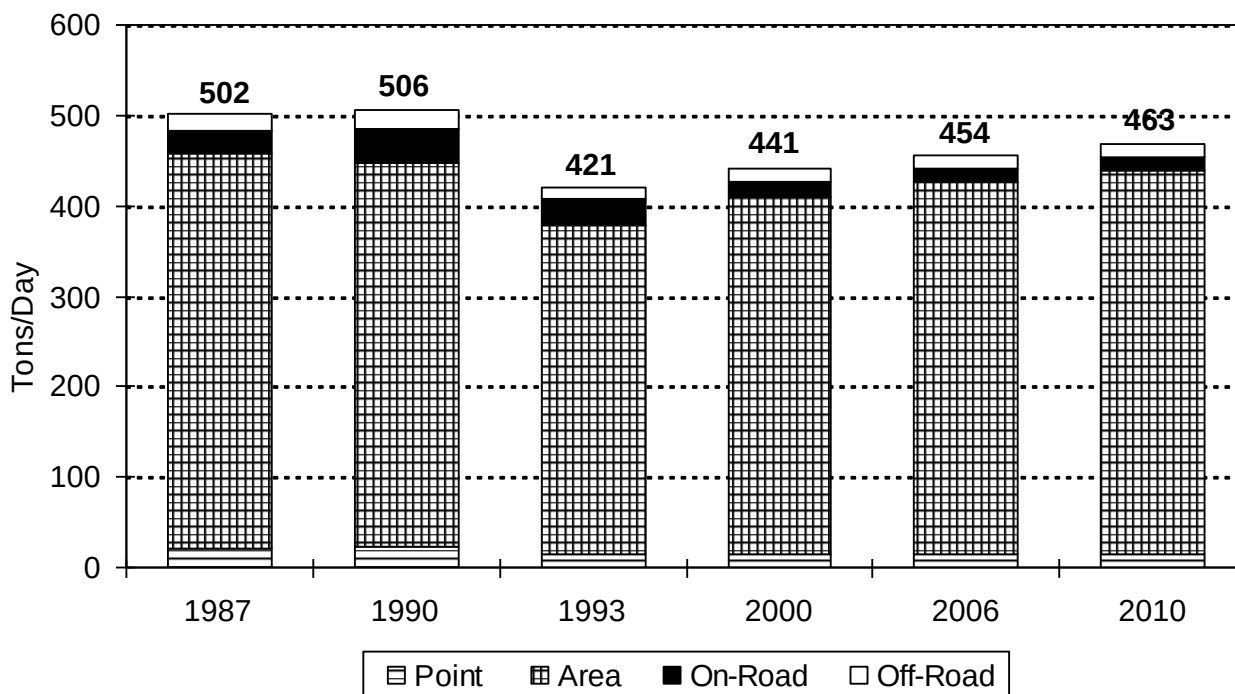
NO_x Emission Trend by Source Category - Summer Planning

**FIGURE 2-8A**

CO Emission Trend by Source Category - Average Annual Day

**FIGURE 2-8B**

CO Emission Trend by Source Category - Winter Planning

**FIGURE 2-9**PM₁₀ Emission Trend by Source Category - Average Annual Day**VOC Emissions**

As presented in Figure 2-6, the most significant decrease in VOC emissions between the years 1987 and 2010 occurs in emissions from on-road mobile (for average annual 1993: 675 tons/day; 2010: 165 tons/day). The baseline emission forecast includes a non-methane hydrocarbon emission standard of 0.25 grams/mile for LDVs, adopted in 1989 for implementation beginning in 1992. This emission standard is significantly more stringent than the previous standard, 0.39 grams/mile. Also included in the baseline emissions forecast is ARB's Low-Emission Vehicle Regulation, which was adopted in 1990 and specified for implementation in 1994. This regulation establishes four categories of vehicles which require substantial reduction in VOC exhaust emissions compared to the 0.25 grams/mile. These vehicle categories include transitional low-emission vehicle (TLEV), low-emission vehicle (LEV), ultra low-emission vehicle (ULEV), and zero-emission vehicle (ZEV). Manufacturers may sell any combination of these vehicles in order to comply with a categorized fleet average non-methane organic gas standard. Emission factors have been developed and incorporated into ARB's motor vehicle emission inventory model to quantify the emissions benefits of this regulation. These benefits are valid with or without the ZEV mandate, since ARB has provided for equivalent emissions reductions for LEV program in the absence of this mandate between calendar years 1998 to 2002. Emission reductions from motor vehicles are also predicted to occur due to implementation of the improved Inspection and Maintenance program (I/M). I/M is projected to reduce VOC emission levels

due to requirements for an enhanced test procedures and test analyzer system equipment, a tiered mechanic qualification system, a higher repair cost limit for emission control components and improvements in I/M enforcement. Finally, emission reductions are projected to occur starting in 1995 due to more stringent evaporative emission standards, applicable to light-, medium- and heavy-duty vehicles.

NO_x Emissions

Figure 2-7 illustrates the NO_x emission inventories by major source category for the years 1987, 1990, 1993, 2000, 2006, and 2010. NO_x emissions from both mobile (for 1993: 1,041 tons/day; 2010: 593 tons/day) and stationary (1993: 144 tons/day; 2010: 104 tons/day) sources decrease substantially between 1993 and 2010. Most of the reductions are from on-road mobile which decreases from 795 tons/day to 365 tons/day during this time period. The reduction is due to the implementation of a NO_x exhaust emission standard of 0.4 grams/mile beginning in 1989, replacing the standard of 0.7 grams/mile. In addition, lower NO_x emission standards are incorporated in the ARB LEV regulation: 0.2 grams/mile specified for LEV/ULEV and 0 grams/mile for ZEV.

Emissions of NO_x from stationary sources also decrease between 1993 and 2010; primarily, due to reductions in emissions from RECLAIM sources.

CO Emissions

Figure 2-8 shows CO emissions by major source category for 1987, 1990, 1993, 2000, 2006, and 2010. Almost all CO emissions are produced by mobile sources (for 6,946 tons/day in 1993 versus 98 tons/day for all stationary sources). Between 1993 and 2010, CO emissions decrease substantially from the light-duty passenger vehicle category, leading to a large net decrease in total CO emissions in the Basin (i.e., 3,802 tons/day). As with NO_x emissions, reductions in CO emissions from mobile sources reflect more stringent exhaust emission standards and improved in-use compliance with emission standards (e.g., the improved Inspection and Maintenance Program). In addition, substantial CO emission reductions are generated from ARB's oxygenated fuel requirements, implemented in 1992.

PM₁₀ Emissions

Figure 2-9 is the PM₁₀ emission summary by major source category for 1987, 1990, 1993, 2000, 2006, and 2010. PM₁₀ emissions produced by stationary sources are projected to increase between 1993 and 2010 (i.e., 53 tons/day). About half of this is due to an increase in entrained road dust from 221 tons/day in 1993 to approximately 245 tons/day by 2010.

CONTROLLED EMISSIONS INVENTORIES

This section describes the methodology used to estimate the controlled and remaining emissions after the proposed control measures in the draft 1997 AQMP are implemented

for the years 2000, 2006, and 2010. Emission reductions are derived from applying the control efficiency of a control measure to the projected baseline inventories.

In addition to the proposed control measures, the impact NSR, tradable ERCs, VOC emissions from conversion of ozone depleting compounds, and budgeted emissions for various District programs (e.g., NSR exemption, HILO, and Rule 518.2) are also discussed in this section.

To project emission reductions and remaining emissions from the implementation of the proposed control measures, a mathematical algorithm called Controlled Emissions Projection Algorithm (CEPA) is used. CEPA is developed to calculate projected remaining emissions and/or emission reductions for specified control scenarios. CEPA is briefly discussed in this section. A more comprehensive and extensive discussion of CEPA is presented in Technical Report III-A of the 1991 AQMP.

Emission Impacts of SCAQMD Programs

There are several SCAQMD regulatory programs that have specific impacts on future emissions through certain “set-aside” or exemption provisions. As a result, special emission accounts were created for the draft 1997 AQMP to track these emissions. Table 2-10 summarizes these emissions for the years 2000, 2006, 2010, and 2020. For air quality modeling purposes, these emissions (except RECLAIM allocations) are distributed across the entire non-RECLAIM point source inventory and the RECLAIM allocations are distributed only to RECLAIM facilities.

NSR Program

Growth projection is a critical component of the AQMP inventory forecast which in turn dictates the amount of emission reductions needed to meet RFP and attainment requirements. Traditionally, the future emissions reflect the rules and regulations already adopted and the projected regional growth. New Source Review (NSR) plays a unique role in the AQMP emission forecast because it affects future emission growth in permitted sources. The challenge in forecasting future-year emission related to NSR is the difficulty in estimating how the regional growth would be split between existing or new sources. Existing sources, emitting at a BARCT level, commonly operate under the permitted activity levels. Therefore, significant growth can take place without triggering NSR. Whereas, emissions from new sources will be at the BACT level and offsets are often required.

TABLE 2-10A

Summary of Emissions Budgeted in the Draft 1997 AQMP
for Various District Programs
(Average Annual Inventory - tons/day)

		2000	2006	2010	2020
VOC	NSR	8.75	19.25	26.25	26.25
	ERC	3.54	8.26	11.71	11.71
	HILO	0.09	0.09	0.09	0.09
	Rule 518.2	1.50	1.50	1.50	1.50
	ODC Conversion	9.35	10.47	11.29	11.29
NO _x	NSR	4.10	9.02	12.30	12.30
	ERC	1.21	1.73	1.73	1.73
	HILO	0.02	0.02	0.02	0.02
	Rule 518.2	1.50	1.50	1.50	1.50
	RECLAIM	43.44	31.76	31.76	31.76
CO	NSR	0.95	2.09	2.85	2.85
	ERC	1.56	3.63	3.63	3.63
	HILO	0.00	0.00	0.00	0.00
	Rule 518.2	1.50	1.50	1.50	1.50
SO _x	NSR	0.00	0.00	0.00	0.00
	ERC	0.05	0.12	0.17	0.17
	HILO	0.01	0.01	0.01	0.01
	Rule 518.2	0.50	0.50	0.50	0.50
	RECLAIM	16.34	11.37	11.37	11.37
PM ₁₀	NSR	0.00	0.00	0.00	0.00
	ERC	0.52	1.21	1.59	1.59
	HILO	0.02	0.02	0.02	0.02
	Rule 518.2	0.50	0.50	0.50	0.50

TABLE 2-10B

Summary of Emissions Budgeted in the Draft 1997 AQMP
for Various District Programs
(Planning Inventory tons/day)

		2000	2006	2010	2020
VOC	NSR	11.06	24.33		
				33.18	33.18
	ERC	4.47	10.44	14.80	14.80
	HILO	0.09	0.09	0.09	0.09
	Rule 518.2	1.50	1.50	1.50	1.50
	ODC Conversion	9.35	10.47	11.29	11.29
NO _x	NSR	5.18	11.40	15.55	15.55
	ERC	1.53	2.19		2.19
				2.19	
	HILO	0.02	0.02	0.02	0.02
	Rule 518.2	1.50	1.50	1.50	1.50
	RECLAIM	45.18	33.03	33.03	33.03
CO	NSR	1.20	2.64	3.60	3.60
	ERC	1.97	4.59	4.59	4.59
	HILO	0.00	0.00	0.00	0.00
	Rule 518.2	1.50	1.50	1.50	1.50
SO _x	NSR	0.00	0.00	0.00	0.00
	ERC	0.06	0.15	0.21	0.21
	HILO	0.01	0.01	0.01	0.01
	Rule 518.2	0.50	0.50	0.50	0.50
	RECLAIM	16.99	11.83	11.83	11.83
PM ₁₀	NSR	0.00	0.00	0.00	0.00
	ERC	0.66	1.53	2.01	2.01
	HILO	0.02	0.02	0.02	0.02
	Rule 518.2	0.50	0.50	0.50	0.50

In December 1995, the Governing Board amended the NSR regulations to exempt offset requirements for small sources (facility-wide potential-to-emit less than 4 tons/year). In this case, SCAQMD is responsible for providing the offsets. Sources not qualified for the SCAQMD provided offsets will have to purchase offsets from the NSR ERC market. In either case, these emissions can potentially be added to the air and their impacts need to be accounted for in the AQMP. The ERC demand was based on the historical data (i.e., the average 1993 and 1994 reflecting actual demand in 1991 and 1992) and projected to the future according to the SCAG overall industry growth. However, this growth is limited to the total tradable ERCs currently available. More ERCs can become available; however, their emissions are already accounted for as part of the emissions present in existing sources. In

addition, NO_x and SO_x ERC demand were adjusted to reflect the requirements of the RECLAIM program (i.e., sources emitting 4 tons or greater will be subject to the RECLAIM NSR provisions).

The potential offset demand as a result of the 4 tons exemption was estimated during the rulemaking and reported in the rule staff report. It should be noted, however, that for NSR tracking purposes, offsets are determined at “potential to emit” level; whereas the AQMP projects emissions based on “actual” emissions. The AQMP emissions budgeted for ERCs and NSR offset exemption are summarized in Table 2-10. These emissions as required by Regulation XIII are all at the BACT level.

In order to properly incorporate the ERC and NSR offset exemption emissions into the overall AQMP emissions inventories it is necessary to ensure that first, these emissions are not subject to further AQMP control measures because they are already at the BACT level. Secondly, when more sources are equipped with BACT, their displacement of emissions at the BARCT level should be accounted for. As a result, a set of baseline adjustment factors is developed based on the emissions shown in Table 2-10 and assumptions of a 10-year equipment life and the difference in emissions between BARCT and BACT to be 60%.

HILO

In order to encourage new business locating to the Basin, a Clean Air Bank was established for high employment - low polluting (HILO) companies. Companies creating a minimum of 500 job positions and emitting at a rate (on a per employee basis) less than half of the AQMP 2010 goal would be exempt from NSR offset requirements. As a result, a small amount of emissions were set aside for this purpose.

ODC Conversion

The current production phase-out schedules adopted by U.S. EPA under the CAA began in 1994 for halons, followed by CECs, methyl chloroform, carbon tetrachloride and HBFCs in 1996, and will continue to 2001 for methyl bromide. Potential increase in VOC emissions exists due to the conversion of these ozone depleting compounds to VOC containing materials. The SCAQMD has prepared an Ozone Depleting Compounds Replacement Guidelines (January, 1996) and exempts sources from NSR offset requirements if emission increases are solely due to the conversion and are in compliance with the guidelines. The guidelines would ensure when the conversion occurs, the most environmental benign material will be selected. The guideline would ensure when the conversion occurs, the most environmentally benign material will be selected. VOC emissions projected in the guidelines are incorporated in the AQMP future emissions and are not subject to proposed control measures.

Rule 518.2 - Title V Variance

As required under Rule 518.2 variance provisions for Title V facilities, the draft 1997 AQMP has established a variance bank to account for maximum allowable daily emissions for the Title V facilities. The size of the bank was established based on recent historical demand, exclusion of RECLAIM facilities, and the implementation schedule of the Title V permitting program (1997-1999).

RECLAIM Allocation

Future year emissions for RECLAIM facilities were based on their initial allocation as specified in Rule 2002 as well as trading transactions as of 1996. Reported 1994-1995 emissions for Cycle I and Cycle II facilities were used for the calendar year 1994. Since the adoption of the 1994 AQMP, several technology reviews have been conducted to assess the feasibility of emission controls for cement kilns, glass melting furnaces, and others. Amendments to allocations as a result of these reviews were incorporated into the 1997 AQMP controlled emissions.

Proposed Control Measures

In order to assess emission reduction potential and remaining emissions from proposed control measures, a control factor profile needs to be developed identifying source category targeted by a measure, its control efficiency, and implementation schedule.

Control Efficiency/Control Factor

One factor that determines the effectiveness of a control measure is its control efficiency (CE), expressed in percentage. Control efficiency is dependent on the specific control technologies proposed, and each control measure may have one or perhaps more if several control technology options are available. If there is only one feasible control technology in a control measure, its control efficiency is primarily based on an engineering evaluation of the proposed technology. However, if several control technologies are available to control an emission source, the average control efficiency is used. If multiple control technologies are proposed to reduce emissions from various steps of an operation, a weighted average control efficiency is developed to represent an overall control of the emission sources. Once the control efficiency of a control measure is determined, it is used to estimate emission reductions of the proposed measure. Control efficiencies for the proposed control measures are identified in Appendix IV of the 1997 AQMP.

The control factor (CF) is used to estimate remaining emissions once a proposed control measure is implemented. A control factor equal to 0 indicates complete emission control or 100 percent efficiency. A control factor equal to 1 indicates no emission control or emission unchanged. A high control factor value indicates a low control efficiency. As the

control efficiency goes up, the control factor value goes down and approaches 0. Thus, the equation to calculate a control factor is as follows:

$$CF = 1 - (CE/100)$$

And, the remaining emissions can be calculated as

$$REM = BE * CF$$

Where REM is Remaining Emissions, and BE is Baseline Emissions

The 1997 AQMP has many milestones for which emission reduction progress needs to be projected. As a result, control factors for each milestone year have to be developed. Such a control factor profile for each measure is developed considering the following factors:

- proposed adoption date,
- implementation lead time
- phase-in period, if any.

The adoption date as proposed in the draft 1997 AQMP is the date the District is expected to adopt the control measure as a rule. The implementation lead time reflects the time allowed for the emission sources to install controls. When a rule is implemented, it is not unusual that it may have multiple interim implementation dates prior to full implementation. This is because the requirements in a rule may require two or three phases to reach the final emission target (e.g., a technology-forcing regulation). Or, a rule may regulate such a large population of equipment that it is impractical to implement it all at once, and it becomes administratively necessary to phase in its implementation. In either case, a control profile would indicate an initial implementation date and an ending implementation date. The adoption and implementation schedule of the proposed control measures is presented in Chapter 7 of the draft 1997 AQMP.

Source Category

Each proposed control measure describes specific emission sources subject to potential controls. Based on the description of these sources, corresponding source categories as defined in the emission inventory are identified. In general, emission sources are grouped by major source category, which can be further subcategorized into point sources denoted by Source Classification Codes (SCC) and area sources denoted by Category Emission Source (CES) Codes. To track emission reductions more accurately, the control factors at the SCC/CES level become necessary.

An SCC, an 8-digit code, is used to identify emissions from a point source at the equipment level. A CES, a 5-digit code, is used to describe an area source for which emissions are distributed across the region with no specific locations.

Once SCCs and/or CESs are identified for a control measure, they are paired with Standard Industrial Classification (SIC) Codes using an ARB reference table, so that appropriate baseline emissions can be estimated for a control measure. SIC codes link pollution sources with the type of activity a facility is engaged in; most area sources do not have SIC codes. Such SCC/SIC pairs significantly enhance the ability to quantify emissions closely following the intent of a proposed control measure.

In spite of significant progress made in identifying emissions at the SCC or CES level, there are still instances where an SCC or CES category is not fully impacted by a control measure. As a result, an impact factor (IF) is developed as a weighing factor for such an adjustment. For example, an IF of 0.62 was used for solvent degreaser to account for the portion of emissions from degreaser are subject to the proposed control measure CTS-02N. In this case, CF is calculated as

$$CF = 1 - ((CE / 100) \times IF)$$

CEPA Emission Calculations

The District uses the CEPA program to calculate emission projections for the proposed AQMP control measures. Based on the control factor profile and projected baseline emissions, CEPA estimates emission reductions and remaining emissions for future years by pollutant (i.e., summer VOC and NO_x; winter CO and NO₂; and average annual day for SO_x and PM₁₀).

CEPA allows interaction of multiple control measures affecting a specific emission source, avoiding double counting of emission reductions from additional measures. It also provides flexibility in analyzing various scenarios and improves accuracy by standardizing calculation methodologies.

To run CEPA, the program requires four data input files. These input files are as follows:

1. Master Measure File - This file contains all the measures proposed in the AQMP. There is only one master measure file in the entire CEPA program.
2. Scenario File - This file is a listing of selected measures to characterize emission reductions, and is a subset of the master measure file. For example, it can contain a group of control measures targeting mobile sources only, or a group of measures to be implemented by U.S. EPA.
3. Control Factor File - As previously discussed, this file shows control factor by pollutant by SCC/SIC (or CES/CES) pairs for each control measure in a specified year.
4. Baseline Emission File - This file contains projected emission data (tons/day) for future years based on the 1993 emissions inventory. There are two types of

baseline emission data available for CEPA runs. These are the average annual day emissions inventory with pollutants VOC, NO_x, CO, SO_x, and PM₁₀; and the planning inventory with pollutants VOC and NO_x during summer, and CO and NO₂ during winter.

CEPA calculates the remaining emissions at the SCC/SIC level, but it can report remaining emissions at either the SIC/SCC or major source category. The equations to calculate the remaining emissions are described in Technical Report III-A of the 1991 AQMP.

The CEPA program can generate many types of emission summary reports or electronic files. For example, the program can provide composite control factors for on-road mobile sources in nine categories used in the air quality modeling analysis. It can also provide remaining emissions by SCC/SIC or CES/CES pairs; emission reductions by each control measure in the absence of other competing measures; or reductions for each control measure following a pre-determined implementation sequence.

Tables 2-11 through 2-13 summarize the remaining emissions after implementation of proposed control measures in the 1997 AQMP. Table 2-11 shows the interim progress in emission reductions and the emission levels when the federal CO air quality standard is projected to attain. Table 2-12 lists the average annual day emissions in the year 2006 when the federal PM₁₀ air quality standard is projected to be met. Table 2-13 summarizes emissions levels needed to meet the ozone air quality standard. Overall, the Plan is seeking a 51% and 27% reduction in VOC and NO_x, respectively for year 2010.

TABLE 2-11

Emission Reductions for Short- and Intermediate-Term Measures for 2000
Based on Summer and Winter Planning Inventory (tons per day)

Sources	Summer VOC	Summer NO _x	Winter CO	Winter NO ₂
Year 2000 Baseline	937	916	5,142	960
Stationary	467	109	294	130
Mobile				
• On Road	335	509	3,298	535
• Off-Road	135	298	1,550	295
Emission Reductions				
Short-, Intermediate-Term Measures				
Stationary	18	5	1	5
Mobile				
• On-Road	9	11	173	12
• Off-Road	1	1	0	1
Total Reductions (All Measures)	28	17	174	18
2000 Remaining Emissions	909	899	4,968	942

TABLE 2-12

Emission Reductions for Short-, Intermediate-, and Long-Term Measures
for 2006 Based on Average Annual Emissions Inventory (tons per day)

Sources	VOC	NO _x	CO	SO _x	PM ₁₀
Year 2006 Baseline	801	738	3,657	66	454
Stationary	459	104	191	13	424
Mobile					
• On-Road	222	403	2,103	16	14
• Off-Road	120	231	1,363	37	16
Emission Reductions					
Short-, Intermediate-Term Measures					
Stationary	98	8	1	0	153
Mobile					
• On-Road	30	50	356	0	0
• Off-Road	23	31	512	0	0
Long-Term Measures					
Stationary	20	0	0	0	0
Mobile					
• On-Road	5	3	0	0	0
• Off-Road	2		0	0	0
		11			
Total Reductions (All Measures)	178	103	869	0	153
2006 Remaining Emissions	623	635	2,788	66	301

TABLE 2-13

Emission Reductions for Short-, Intermediate-, and Long-Term Measures
for 2010 Based on Summer and Winter Planning Inventory (tons per day)

Sources	Summer		Winter	
	VOC	NO _x	CO	NO ₂
Year 2010 Baseline	839	727	3893	759
Stationary	532	98	337	120
Mobile				
• On-Road	163	360	1913	373
• Off-Road	144	269	1,643	266
Emission Reduction				
Short-, Intermediate-Term Measures				
Stationary	132	10	0	9
Mobile				
• On-Road	35	61	430	63
• Off-Road	55	49	1,038	51
Long-Term Measures				
Stationary	132	0	0	0
Mobile				
• On-Road	47	21	0	21
• Off-Road	25	56	0	54
Total Reduction (All Measures)	426	197	1,468	198
2010 Remaining Emissions	413	530	2,425	561

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