

**ATTACHMENT E**  
**TO APPENDIX III**  
**FINAL 2003 AQMP**

**ON-ROAD EMISSIONS**  
**BY VEHICLE CATEGORY**

Table E-1  
1990 Annual Average Day Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Gasoline	Diesel	Total					
Vehicles	748839.	4001460.	81633.	4831940.	413999.	1637260.	32611.	2083870.	72471.	291111.	17223.	380805.	51507.	74777.	126284.	90952.	217237.	7751.	248071.	7769670.
VMT/1000	17445.	152690.	2756.	172892.	11268.	61465.	1181.	73913.	1725.	11718.	941.	14384.	932.	3128.	4061.	10647.	14708.	850.	1468.	278215.
Trips	4131730.	25823500.	517275.	30472500.	2315590.	10556200.	209162.	13081000.	1137360.	3274680.	195460.	4607500.	1322260.	1317880.	2640140.	1211080.	3851210.	31005.	496092.	52539300.
Reactive Organic Gas Emissions																				
Run Exh	108.67	84.26	1.10	194.03	67.95	44.18	0.39	112.53	13.58	17.60	0.30	31.48	9.73	7.97	17.70	11.61	29.31	2.98	7.40	377.73
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.08	0.00	0.12	0.07	0.06	0.13	0.46	0.59	0.00	0.00	0.71
Start Ex	23.22	49.82	0.00	73.04	12.41	23.70	0.00	36.11	9.63	7.70	0.00	17.33	19.42	4.87	24.30	0.00	24.30	0.13	2.31	153.22
Total Ex	131.89	134.08	1.10	267.07	80.36	67.88	0.39	148.64	23.26	25.38	0.30	48.93	29.23	12.90	42.13	12.06	54.19	3.12	9.70	531.66
Diurnal	4.66	9.00	0.00	13.66	2.53	4.07	0.00	6.59	0.23	0.60	0.00	0.83	0.03	0.02	0.06	0.00	0.06	0.00	1.07	22.21
Hot Soak	15.36	17.17	0.00	32.53	8.45	8.61	0.00	17.07	1.53	1.88	0.00	3.41	0.78	0.29	1.07	0.00	1.07	0.03	1.27	55.38
Running	81.74	86.70	0.00	168.44	27.54	16.50	0.00	44.04	9.04	3.39	0.00	12.43	5.91	0.64	6.55	0.00	6.55	0.08	8.12	239.66
Resting	2.82	3.37	0.00	6.19	1.53	1.71	0.00	3.24	0.13	0.24	0.00	0.37	0.01	0.01	0.02	0.00	0.02	0.00	0.61	10.43
Total	236.48	250.32	1.10	487.90	120.42	98.77	0.39	219.59	34.19	31.49	0.30	65.99	35.95	13.86	49.82	12.06	61.88	3.23	20.76	859.34
Carbon Monoxide Emissions																				
Run Exh	1380.17	2118.11	2.69	3500.97	893.82	1468.54	1.22	2363.57	232.07	335.06	0.96	568.08	239.52	181.10	420.62	55.99	476.61	40.08	88.03	7037.35
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.48	0.01	0.74	0.43	0.35	0.78	2.74	3.52	0.00	0.00	4.26
Start Ex	143.08	632.04	0.00	775.12	80.41	355.37	0.00	435.78	62.86	115.78	0.00	178.65	161.75	89.88	251.63	0.00	251.63	1.57	5.88	1648.62
Total Ex	1523.25	2750.15	2.69	4276.09	974.22	1823.91	1.22	2799.35	295.18	451.33	0.97	747.48	401.70	271.33	673.02	58.73	731.75	41.65	93.91	8690.23
Oxides of Nitrogen Emissions																				
Run Exh	95.90	236.92	4.39	337.21	61.28	149.41	1.69	212.38	10.65	35.26	4.34	50.25	7.70	32.03	39.73	263.06	302.78	19.37	2.35	924.34
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.05	0.01	0.00	0.01	8.40	8.41	0.00	0.00	8.46
Start Ex	7.47	21.97	0.00	29.44	4.14	12.81	0.00	16.95	1.47	7.55	0.00	9.02	2.83	8.46	11.29	0.00	11.29	0.07	0.19	66.96
Total Ex	103.37	258.89	4.39	366.65	65.42	162.21	1.69	229.33	12.13	42.81	4.38	59.32	10.54	40.49	51.03	271.46	322.49	19.44	2.54	999.76
Carbon Dioxide Emissions (000)																				
Run Exh	9.70	70.94	1.14	81.77	6.23	30.94	0.47	37.64	1.28	9.63	0.63	11.54	0.70	2.20	2.90	23.91	26.81	2.04	0.17	159.97
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.02	0.01	0.01	0.02	0.43	0.45	0.00	0.00	0.48
Start Ex	0.91	2.42	0.00	3.33	0.51	1.09	0.00	1.60	0.25	0.30	0.00	0.55	0.29	0.05	0.35	0.00	0.35	0.00	0.03	5.85
Total Ex	10.60	73.36	1.14	85.10	6.74	32.03	0.47	39.24	1.54	9.95	0.63	12.12	1.00	2.26	3.27	24.34	27.61	2.04	0.20	166.30
PM10 Emissions																				
Run Exh	0.63	1.22	0.80	2.65	0.40	0.79	0.26	1.45	0.06	0.15	0.24	0.45	0.02	0.03	0.05	10.03	10.08	0.33	0.08	15.04
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.00	0.00	0.44
Start Ex	0.06	0.10	0.00	0.16	0.03	0.07	0.00	0.10	0.01	0.01	0.00	0.03	0.02	0.00	0.02	0.00	0.02	0.00	0.01	0.32
Total Ex	0.68	1.33	0.80	2.81	0.44	0.85	0.26	1.55	0.08	0.16	0.24	0.48	0.04	0.03	0.07	10.47	10.54	0.33	0.09	15.80
TireWear	0.15	1.35	0.02	1.52	0.10	0.54	0.01	0.65	0.02	0.12	0.01	0.14	0.01	0.04	0.05	0.36	0.42	0.01	0.01	2.75
BrakeWr	0.24	2.11	0.04	2.39	0.16	0.85	0.02	1.02	0.02	0.16	0.01	0.20	0.01	0.04	0.06	0.15	0.20	0.01	0.02	3.85
Total	1.08	4.78	0.87	6.73	0.69	2.25	0.28	3.22	0.12	0.44	0.27	0.83	0.06	0.12	0.18	10.98	11.16	0.35	0.12	22.40
Lead	0.12	0.00	0.00	0.12	0.08	0.00	0.00	0.08	0.02	0.00	0.00	0.02	0.02	0.00	0.02	0.00	0.02	0.00	0.00	0.24
SOx	3.44	11.00	0.36	14.80	2.19	4.95	0.15	7.28	0.53	1.51	0.20	2.25	0.44	0.38	0.83	7.75	8.57	0.63	0.10	33.63
Fuel Consumption (000 gallons)																				
Gasoline	1375.91	8000.81	0.00	9376.72	874.14	3596.51	0.00	4470.65	213.39	1099.65	0.00	1313.04	177.52	279.78	457.30	0.00	457.30	33.99	38.79	15690.50
Diesel	0.00	0.00	102.49	102.49	0.00	0.00	42.43	42.43	0.00	0.00	56.70	56.70	0.00	0.00	0.00	2190.47	2190.47	159.83	0.00	2551.92

Table E-2  
1990 Summer Planning Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Total					
Vehicles	748839.	4001460.	81633.	4831940.	413999.	1637260.	32611.	2083870.	72471.	291111.	17223.	380805.	51507.	74777.	126284.	90952.	217237.	7751.	248071.	7769670.
VMT/1000	17445.	152690.	2756.	172892.	11268.	61465.	1181.	73913.	1725.	11718.	941.	14384.	932.	3128.	4061.	10647.	14708.	850.	1468.	278215.
Trips	4131730.	25823500.	517275.	30472500.	2315590.	10556200.	209162.	13081000.	1137360.	3274680.	195460.	4607500.	1322260.	1317880.	2640140.	1211080.	3851210.	31005.	496092.	52539300.
Reactive Organic Gas Emissions																				
Run Exh	103.02	87.23	1.10	191.35	63.95	45.14	0.39	109.48	12.78	18.06	0.30	31.14	9.09	8.22	17.30	11.61	28.91	2.96	6.91	370.74
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.08	0.00	0.12	0.07	0.06	0.13	0.46	0.59	0.00	0.00	0.71
Start Ex	20.09	41.50	0.00	61.59	10.73	19.36	0.00	30.09	8.05	6.31	0.00	14.36	16.00	4.01	20.01	0.00	20.01	0.11	2.00	128.16
Total Ex	123.12	128.72	1.10	252.94	74.68	64.50	0.39	139.57	20.87	24.45	0.30	45.62	25.16	12.28	37.44	12.06	49.51	3.07	8.90	499.61
Diurnal	7.02	13.39	0.00	20.41	3.83	6.10	0.00	9.94	0.35	0.90	0.00	1.25	0.05	0.04	0.08	0.00	0.08	0.00	1.61	33.29
Hot Soak	15.57	18.21	0.00	33.78	8.62	9.03	0.00	17.65	1.56	1.95	0.00	3.50	0.79	0.30	1.09	0.00	1.09	0.03	1.29	57.35
Running	78.19	82.13	0.00	160.32	26.39	15.63	0.00	42.02	8.75	3.23	0.00	11.98	5.75	0.62	6.37	0.00	6.37	0.08	7.77	228.53
Resting	4.89	6.05	0.00	10.94	2.69	3.13	0.00	5.83	0.23	0.44	0.00	0.67	0.02	0.01	0.03	0.00	0.03	0.00	1.10	18.57
Total	228.78	248.50	1.10	478.39	116.22	98.39	0.39	215.00	31.76	30.96	0.30	63.02	31.76	13.25	45.01	12.06	57.08	3.18	20.68	837.35
Carbon Monoxide Emissions																				
Run Exh	1335.09	2246.95	2.69	3584.73	851.86	1533.84	1.22	2386.92	220.60	346.03	0.96	567.59	223.37	185.94	409.31	55.99	465.30	38.97	82.41	7125.92
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.48	0.01	0.74	0.43	0.35	0.78	2.74	3.52	0.00	0.00	4.26
Start Ex	140.73	499.51	0.00	640.25	79.18	277.18	0.00	356.36	63.44	88.75	0.00	152.18	163.60	68.24	231.84	0.00	231.84	1.32	5.79	1387.74
Total Ex	1475.82	2746.47	2.69	4224.98	931.03	1811.02	1.22	2743.27	284.28	435.26	0.97	720.51	387.40	254.53	641.94	58.73	700.67	40.30	88.20	8517.92
Oxides of Nitrogen Emissions																				
Run Exh	89.48	217.70	4.29	311.47	56.67	135.91	1.65	194.24	9.87	32.33	4.22	46.41	7.06	29.61	36.67	256.52	293.19	18.87	2.15	866.32
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.05	0.01	0.00	0.01	8.40	8.41	0.00	0.00	8.46
Start Ex	7.04	20.46	0.00	27.50	3.90	11.92	0.00	15.82	1.39	7.19	0.00	8.58	2.69	8.12	10.81	0.00	10.81	0.06	0.18	62.96
Total Ex	96.53	238.16	4.29	338.97	60.58	147.83	1.65	210.06	11.26	39.52	4.26	55.04	9.75	37.74	47.49	264.92	312.41	18.94	2.33	937.75
Carbon Dioxide Emissions (000)																				
Run Exh	9.86	73.21	1.14	84.21	6.29	31.67	0.47	38.43	1.29	9.83	0.63	11.74	0.70	2.20	2.90	23.91	26.81	2.04	0.17	163.40
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.02	0.01	0.01	0.02	0.43	0.45	0.00	0.00	0.48
Start Ex	0.91	2.42	0.00	3.33	0.51	1.09	0.00	1.60	0.25	0.30	0.00	0.55	0.29	0.05	0.35	0.00	0.35	0.00	0.03	5.85
Total Ex	10.77	75.63	1.14	87.54	6.80	32.76	0.47	40.03	1.55	10.14	0.63	12.32	1.00	2.26	3.27	24.34	27.61	2.04	0.20	169.73
PM10 Emissions																				
Run Exh	0.63	1.22	0.80	2.65	0.40	0.79	0.26	1.45	0.06	0.15	0.24	0.45	0.02	0.03	0.05	10.03	10.08	0.33	0.08	15.04
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.00	0.00	0.44
Start Ex	0.06	0.10	0.00	0.16	0.03	0.07	0.00	0.10	0.01	0.01	0.00	0.03	0.02	0.00	0.02	0.00	0.02	0.00	0.01	0.32
Total Ex	0.68	1.33	0.80	2.81	0.44	0.85	0.26	1.55	0.08	0.16	0.24	0.48	0.04	0.03	0.07	10.47	10.54	0.33	0.09	15.80
TireWear	0.15	1.35	0.02	1.52	0.10	0.54	0.01	0.65	0.02	0.12	0.01	0.14	0.01	0.04	0.05	0.36	0.42	0.01	0.01	2.75
BrakeWr	0.24	2.11	0.04	2.39	0.16	0.85	0.02	1.02	0.02	0.16	0.01	0.20	0.01	0.04	0.06	0.15	0.20	0.01	0.02	3.85
Total	1.08	4.78	0.87	6.73	0.69	2.25	0.28	3.22	0.12	0.44	0.27	0.83	0.06	0.12	0.18	10.98	11.16	0.35	0.12	22.40
Lead	0.12	0.00	0.00	0.12	0.08	0.00	0.00	0.08	0.02	0.00	0.00	0.02	0.02	0.00	0.02	0.00	0.02	0.00	0.00	0.24
SOx	3.46	11.32	0.36	15.14	2.18	5.04	0.15	7.37	0.53	1.54	0.20	2.26	0.43	0.38	0.82	7.75	8.56	0.63	0.09	34.05
Fuel Consumption (000 gallons)																				
Gasoline	1382.15	8231.12	0.00	9613.27	871.35	3668.65	0.00	4540.00	211.58	1116.60	0.00	1328.18	173.81	276.87	450.67	0.00	450.67	33.76	37.60	16003.49
Diesel	0.00	0.00	102.49	102.49	0.00	0.00	42.43	42.43	0.00	0.00	56.70	56.70	0.00	0.00	0.00	2190.47	2190.47	159.83	0.00	2551.92

Table E-3  
1990 Winter Planning Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Gasoline Trucks	Diesel Trucks	Total					
Vehicles	748839.	4001460.	81633.	4831940.	413999.	1637260.	32611.	2083870.	72471.	291111.	17223.	380805.	51507.	74777.	126284.	90952.	217237.	7751.	248071.	7769670.
VMT/1000	17445.	152690.	2756.	172892.	11268.	61465.	1181.	73913.	1725.	11718.	941.	14384.	932.	3128.	4061.	10647.	14708.	850.	1468.	278215.
Trips	4131730.	25823500.	517275.	30472500.	2315590.	10556200.	209162.	13081000.	1137360.	3274680.	195460.	4607500.	1322260.	1317880.	2640140.	1211080.	3851210.	31005.	496092.	52539300.
Reactive Organic Gas Emissions																				
Run Exh	108.95	82.75	1.10	192.81	68.34	43.57	0.39	112.31	13.65	17.45	0.30	31.40	9.86	7.91	17.77	11.61	29.37	2.98	7.45	376.33
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.08	0.00	0.12	0.07	0.06	0.13	0.46	0.59	0.00	0.00	0.71
Start Ex	23.46	50.75	0.00	74.21	12.51	24.16	0.00	36.67	9.66	7.82	0.00	17.49	19.49	4.90	24.40	0.00	24.40	0.13	2.33	155.22
Total Ex	132.41	133.50	1.10	267.01	80.85	67.73	0.39	148.98	23.36	25.36	0.30	49.02	29.42	12.87	42.29	12.06	54.36	3.12	9.78	532.26
Diurnal	4.44	8.75	0.00	13.19	2.41	3.94	0.00	6.35	0.22	0.59	0.00	0.81	0.03	0.03	0.06	0.00	0.06	0.00	1.02	21.43
Hot Soak	19.98	22.90	0.00	42.87	10.99	11.42	0.00	22.41	1.99	2.49	0.00	4.48	1.00	0.38	1.38	0.00	1.38	0.03	1.66	72.84
Running	88.92	95.76	0.00	184.68	29.94	18.28	0.00	48.22	9.63	3.72	0.00	13.35	6.20	0.68	6.88	0.00	6.88	0.09	8.84	262.07
Resting	2.28	2.63	0.00	4.92	1.23	1.32	0.00	2.55	0.11	0.18	0.00	0.29	0.01	0.01	0.02	0.00	0.02	0.00	0.48	8.26
Total	248.03	263.55	1.10	512.68	125.42	102.69	0.39	228.50	35.31	32.34	0.30	67.95	36.67	13.97	50.63	12.06	62.70	3.24	21.78	896.86
Carbon Monoxide Emissions																				
Run Exh	1366.26	2051.93	2.69	3420.88	890.39	1433.97	1.22	2325.57	231.37	330.56	0.96	562.88	242.12	179.99	422.11	55.99	478.10	40.07	88.18	6915.69
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.48	0.01	0.74	0.43	0.35	0.78	2.74	3.52	0.00	0.00	4.26
Start Ex	143.80	648.72	0.00	792.52	80.72	364.82	0.00	445.54	62.69	117.97	0.00	180.66	161.29	90.34	251.64	0.00	251.64	1.58	5.90	1677.83
Total Ex	1510.06	2700.65	2.69	4213.40	971.10	1798.79	1.22	2771.11	294.30	449.01	0.97	744.29	403.85	270.68	674.53	58.73	733.26	41.65	94.08	8597.78
Oxides of Nitrogen Emissions																				
Run Exh	106.87	263.96	4.68	375.51	68.39	166.66	1.81	236.85	11.91	39.42	4.62	55.94	8.69	36.14	44.83	280.40	325.23	20.77	2.63	1016.94
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.05	0.01	0.00	0.01	8.40	8.41	0.00	0.00	8.46
Start Ex	7.50	22.21	0.00	29.71	4.16	12.94	0.00	17.10	1.48	7.59	0.00	9.07	2.84	8.49	11.33	0.00	11.33	0.07	0.19	67.47
Total Ex	114.37	286.16	4.68	405.22	72.54	179.60	1.81	253.95	13.39	47.01	4.66	65.06	11.54	44.63	56.17	288.80	344.97	20.84	2.82	1092.86
Carbon Dioxide Emissions (000)																				
Run Exh	9.61	69.66	1.14	80.41	6.20	30.54	0.47	37.20	1.28	9.53	0.63	11.43	0.70	2.20	2.90	23.91	26.81	2.04	0.17	158.06
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.02	0.01	0.01	0.02	0.43	0.45	0.00	0.00	0.48
Start Ex	0.91	2.42	0.00	3.33	0.51	1.09	0.00	1.60	0.25	0.30	0.00	0.55	0.29	0.05	0.35	0.00	0.35	0.00	0.03	5.85
Total Ex	10.51	72.08	1.14	83.73	6.71	31.63	0.47	38.80	1.54	9.84	0.63	12.01	1.00	2.26	3.27	24.34	27.61	2.04	0.20	164.39
PM10 Emissions																				
Run Exh	0.63	1.22	0.80	2.65	0.40	0.79	0.26	1.45	0.06	0.15	0.24	0.45	0.02	0.03	0.05	10.03	10.08	0.33	0.08	15.04
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.44	0.00	0.00	0.44
Start Ex	0.06	0.10	0.00	0.16	0.03	0.07	0.00	0.10	0.01	0.01	0.00	0.03	0.02	0.00	0.02	0.00	0.02	0.00	0.01	0.32
Total Ex	0.68	1.33	0.80	2.81	0.44	0.85	0.26	1.55	0.08	0.16	0.24	0.48	0.04	0.03	0.07	10.47	10.54	0.33	0.09	15.80
TireWear	0.15	1.35	0.02	1.52	0.10	0.54	0.01	0.65	0.02	0.12	0.01	0.14	0.01	0.04	0.05	0.36	0.42	0.01	0.01	2.75
BrakeWr	0.24	2.11	0.04	2.39	0.16	0.85	0.02	1.02	0.02	0.16	0.01	0.20	0.01	0.04	0.06	0.15	0.20	0.01	0.02	3.85
Total	1.08	4.78	0.87	6.73	0.69	2.25	0.28	3.22	0.12	0.44	0.27	0.83	0.06	0.12	0.18	10.98	11.16	0.35	0.12	22.40
Lead	0.12	0.00	0.00	0.12	0.08	0.00	0.00	0.08	0.02	0.00	0.00	0.02	0.02	0.00	0.02	0.00	0.02	0.00	0.00	0.24
SOx	3.41	10.81	0.36	14.58	2.18	4.88	0.15	7.21	0.53	1.50	0.20	2.23	0.44	0.38	0.83	7.75	8.57	0.63	0.10	33.32
Fuel Consumption (000 gallons)																				
Gasoline	1364.68	7862.19	0.00	9226.87	870.53	3551.28	0.00	4421.81	212.87	1088.39	0.00	1301.26	177.93	279.67	457.60	0.00	457.60	34.00	38.85	15480.38
Diesel	0.00	0.00	102.49	102.49	0.00	0.00	42.43	42.43	0.00	0.00	56.70	56.70	0.00	0.00	0.00	2190.47	2190.47	159.83	0.00	2551.92

Table E-4  
1997 Annual Average Day Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Gasoline	Diesel	Total					
Vehicles	283889.	4718950.	49401.	5052240.	156591.	2093650.	30160.	2280400.	46579.	559883.	20350.	626812.	32810.	97059.	129869.	120502.	250371.	8929.	134505.	8353250.
VMT/1000	5531.	169292.	1413.	176236.	3939.	75959.	1071.	80969.	952.	20562.	910.	22425.	424.	2869.	3293.	12140.	15433.	979.	777.	296818.
Trips	1400490.	30098100.	300147.	31798700.	798933.	13385800.	190466.	14375200.	738988.	5420850.	223818.	6383650.	638983.	1449210.	2088200.	1765820.	3854020.	35715.	268983.	56716200.
Reactive Organic Gas Emissions																				
Run Exh	30.07	62.84	0.51	93.42	20.98	31.81	0.23	53.02	6.19	16.81	0.38	23.37	3.43	5.66	9.09	9.60	18.69	2.70	3.07	194.28
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10	0.00	0.12	0.03	0.06	0.09	0.54	0.63	0.00	0.00	0.75
Start Ex	7.07	48.37	0.00	55.44	3.85	22.80	0.00	26.65	5.27	10.30	0.00	15.58	7.87	4.01	11.88	0.00	11.88	0.11	0.93	110.58
Total Ex	37.14	111.21	0.51	148.87	24.83	54.61	0.23	79.67	11.48	27.21	0.38	39.07	11.33	9.73	21.05	10.14	31.20	2.81	4.00	305.61
Diurnal	1.89	10.11	0.00	12.00	1.02	4.44	0.00	5.46	0.15	1.11	0.00	1.25	0.02	0.03	0.05	0.00	0.05	0.00	0.52	19.29
Hot Soak	4.41	11.68	0.00	16.09	2.52	5.40	0.00	7.92	0.80	2.02	0.00	2.83	0.32	0.23	0.56	0.00	0.56	0.02	0.47	27.88
Running	28.06	71.70	0.00	99.76	9.79	23.95	0.00	33.75	5.55	9.44	0.00	14.99	2.95	1.47	4.42	0.00	4.42	0.08	3.23	156.23
Resting	1.11	4.08	0.00	5.20	0.60	1.82	0.00	2.42	0.08	0.46	0.00	0.54	0.01	0.01	0.02	0.00	0.02	0.00	0.28	8.45
Total	72.61	208.79	0.51	281.91	38.77	90.22	0.23	129.22	18.07	40.23	0.38	58.68	14.62	11.47	26.10	10.14	36.24	2.91	8.49	517.45
Carbon Monoxide Emissions																				
Run Exh	392.98	1516.57	1.32	1910.87	280.79	947.38	0.88	1229.05	111.05	304.11	1.13	416.29	88.76	118.30	207.05	47.32	254.37	27.62	37.74	3875.94
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.60	0.02	0.77	0.20	0.36	0.56	3.23	3.79	0.00	0.00	4.56
Start Ex	44.19	538.70	0.00	582.89	25.36	288.05	0.00	313.40	35.77	134.03	0.00	169.80	70.60	70.87	141.46	0.00	141.46	1.45	2.70	1211.70
Total Ex	437.16	2055.27	1.32	2493.75	306.15	1235.42	0.88	1542.45	146.98	438.74	1.14	586.86	159.55	189.53	349.08	50.54	399.62	29.07	40.44	5092.20
Oxides of Nitrogen Emissions																				
Run Exh	26.63	172.68	2.05	201.35	18.67	121.43	1.42	141.53	5.38	44.75	4.90	55.03	2.67	24.29	26.96	240.34	267.29	19.73	1.11	686.04
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.06	0.00	0.00	0.01	9.90	9.90	0.00	0.00	9.96
Start Ex	2.19	25.20	0.00	27.40	1.23	15.98	0.00	17.21	0.81	10.00	0.00	10.81	1.22	7.97	9.19	0.00	9.19	0.10	0.10	64.80
Total Ex	28.82	197.88	2.05	228.75	19.90	137.42	1.42	158.74	6.19	54.75	4.95	65.89	3.89	32.26	36.15	250.23	286.38	19.82	1.21	760.80
Carbon Dioxide Emissions (000)																				
Run Exh	3.02	73.50	0.58	77.10	2.14	37.41	0.42	39.97	0.68	15.56	0.55	16.79	0.32	2.06	2.38	26.77	29.14	2.27	0.09	165.38
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.03	0.01	0.01	0.02	0.50	0.52	0.00	0.00	0.55
Start Ex	0.31	2.65	0.00	2.96	0.18	1.34	0.00	1.52	0.17	0.54	0.00	0.70	0.14	0.06	0.20	0.00	0.20	0.00	0.02	5.40
Total Ex	3.33	76.15	0.58	80.06	2.32	38.76	0.42	41.49	0.85	16.12	0.56	17.52	0.47	2.13	2.59	27.27	29.87	2.27	0.11	171.32
PM10 Emissions																				
Run Exh	0.19	1.80	0.31	2.30	0.14	1.16	0.12	1.42	0.03	0.40	0.14	0.57	0.01	0.03	0.04	6.63	6.68	0.32	0.04	11.33
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.00	0.00	0.37
Start Ex	0.02	0.18	0.00	0.20	0.01	0.11	0.00	0.12	0.01	0.04	0.00	0.05	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.39
Total Ex	0.21	1.98	0.31	2.50	0.15	1.27	0.12	1.55	0.04	0.44	0.14	0.62	0.02	0.04	0.06	7.00	7.06	0.32	0.04	12.09
TireWear	0.05	1.49	0.01	1.55	0.03	0.67	0.01	0.71	0.01	0.19	0.01	0.21	0.01	0.04	0.04	0.40	0.44	0.01	0.00	2.94
BrakeWr	0.08	2.34	0.02	2.44	0.05	1.05	0.01	1.12	0.01	0.28	0.01	0.31	0.01	0.04	0.05	0.17	0.21	0.01	0.01	4.10
Total	0.34	5.82	0.34	6.49	0.24	2.99	0.15	3.38	0.07	0.92	0.16	1.14	0.03	0.12	0.15	7.56	7.71	0.34	0.06	19.13
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.05	1.02	0.05	1.12	0.04	0.52	0.03	0.59	0.01	0.22	0.05	0.28	0.01	0.03	0.04	2.26	2.30	0.17	0.00	4.46
Fuel Consumption (000 gallons)																				
Gasoline	423.62	8166.37	0.00	8590.00	294.81	4185.80	0.00	4480.61	114.62	1729.72	0.00	1844.35	77.23	251.42	328.65	0.00	328.65	36.08	19.07	15298.76
Diesel	0.00	0.00	52.15	52.15	0.00	0.00	37.54	37.54	0.00	0.00	49.95	49.95	0.00	0.00	0.00	2454.45	2454.45	176.72	0.00	2770.81

Table E-5  
1997 Summer Planning Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Total					
Vehicles	283889.	4718950.	49401.	5052240.	156591.	2093650.	30160.	2280400.	46579.	559883.	20350.	626812.	32810.	97059.	129869.	120502.	250371.	8929.	134505.	8353250.
VMT/1000	5531.	169292.	1413.	176236.	3939.	75959.	1071.	80969.	952.	20562.	910.	22425.	424.	2869.	3293.	12140.	15433.	979.	777.	296818.
Trips	1400490.	30098100.	300147.	31798700.	798933.	13385800.	190466.	14375200.	738988.	5420850.	223818.	6383650.	638983.	1449210.	2088200.	1765820.	3854020.	35715.	268983.	56716200.
Reactive Organic Gas Emissions																				
Run Exh	28.50	65.89	0.51	94.89	19.73	33.04	0.23	53.01	5.82	17.36	0.38	23.55	3.20	5.83	9.02	9.60	18.63	2.71	2.88	195.66
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10	0.00	0.12	0.03	0.06	0.09	0.54	0.63	0.00	0.00	0.75
Start Ex	6.12	41.07	0.00	47.19	3.33	19.18	0.00	22.51	4.40	8.65	0.00	13.05	6.48	3.39	9.87	0.00	9.87	0.10	0.80	93.53
Total Ex	34.61	106.96	0.51	142.08	23.06	52.23	0.23	75.52	10.25	26.11	0.38	36.73	9.71	9.28	18.99	10.14	29.13	2.80	3.68	289.94
Diurnal	2.57	13.36	0.00	15.93	1.40	5.90	0.00	7.30	0.20	1.46	0.00	1.66	0.03	0.04	0.07	0.00	0.07	0.00	0.70	25.67
Hot Soak	4.31	12.69	0.00	17.01	2.48	5.80	0.00	8.28	0.79	2.09	0.00	2.88	0.32	0.23	0.55	0.00	0.55	0.02	0.47	29.20
Running	26.45	66.32	0.00	92.77	9.24	22.07	0.00	31.32	5.33	8.82	0.00	14.15	2.85	1.42	4.27	0.00	4.27	0.07	3.04	145.62
Resting	1.87	6.67	0.00	8.54	1.03	3.06	0.00	4.08	0.14	0.75	0.00	0.89	0.01	0.01	0.02	0.00	0.02	0.00	0.48	14.02
Total	69.82	206.00	0.51	276.33	37.22	89.05	0.23	126.50	16.70	39.24	0.38	56.32	12.92	10.98	23.90	10.14	34.04	2.89	8.36	504.44
Carbon Monoxide Emissions																				
Run Exh	380.20	1619.62	1.32	2001.15	267.67	1000.91	0.88	1269.47	105.64	317.42	1.13	424.19	82.83	121.36	204.19	47.32	251.51	27.04	35.48	4008.83
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.60	0.02	0.77	0.20	0.36	0.56	3.23	3.79	0.00	0.00	4.56
Start Ex	43.48	428.71	0.00	472.19	24.98	227.57	0.00	252.55	36.11	104.46	0.00	140.57	71.43	54.71	126.14	0.00	126.14	1.23	2.62	995.30
Total Ex	423.68	2048.33	1.32	2473.33	292.65	1228.48	0.88	1522.02	141.91	422.48	1.14	565.53	154.45	176.43	330.89	50.54	381.43	28.27	38.11	5008.69
Oxides of Nitrogen Emissions																				
Run Exh	24.83	159.21	2.01	186.05	17.27	111.20	1.38	129.85	4.99	41.15	4.76	50.90	2.44	22.48	24.93	234.39	259.31	19.21	1.01	646.34
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.06	0.00	0.00	0.01	9.90	9.90	0.00	0.00	9.96
Start Ex	2.07	23.48	0.00	25.55	1.16	14.88	0.00	16.04	0.77	9.47	0.00	10.24	1.15	7.65	8.81	0.00	8.81	0.09	0.09	60.82
Total Ex	26.90	182.69	2.01	211.60	18.43	126.09	1.38	145.90	5.75	50.63	4.81	61.19	3.60	30.14	33.74	244.28	278.02	19.31	1.10	717.12
Carbon Dioxide Emissions (000)																				
Run Exh	3.08	76.34	0.58	80.00	2.16	38.80	0.42	41.38	0.69	16.02	0.55	17.26	0.32	2.06	2.38	26.77	29.14	2.27	0.09	170.14
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.03	0.01	0.01	0.02	0.50	0.52	0.00	0.00	0.55
Start Ex	0.31	2.65	0.00	2.96	0.18	1.34	0.00	1.52	0.17	0.54	0.00	0.70	0.14	0.06	0.20	0.00	0.20	0.00	0.02	5.40
Total Ex	3.38	79.00	0.58	82.96	2.34	40.14	0.42	42.90	0.86	16.57	0.56	17.98	0.47	2.13	2.59	27.27	29.87	2.27	0.11	176.09
PM10 Emissions																				
Run Exh	0.19	1.80	0.31	2.30	0.14	1.16	0.12	1.42	0.03	0.40	0.14	0.57	0.01	0.03	0.04	6.63	6.68	0.32	0.04	11.33
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.00	0.00	0.37
Start Ex	0.02	0.18	0.00	0.20	0.01	0.11	0.00	0.12	0.01	0.04	0.00	0.05	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.39
Total Ex	0.21	1.98	0.31	2.50	0.15	1.27	0.12	1.55	0.04	0.44	0.14	0.62	0.02	0.04	0.06	7.00	7.06	0.32	0.04	12.09
TireWear	0.05	1.49	0.01	1.55	0.03	0.67	0.01	0.71	0.01	0.19	0.01	0.21	0.01	0.04	0.04	0.40	0.44	0.01	0.00	2.94
BrakeWr	0.08	2.34	0.02	2.44	0.05	1.05	0.01	1.12	0.01	0.28	0.01	0.31	0.01	0.04	0.05	0.17	0.21	0.01	0.01	4.10
Total	0.34	5.82	0.34	6.49	0.24	2.99	0.15	3.38	0.07	0.92	0.16	1.14	0.03	0.12	0.15	7.56	7.71	0.34	0.06	19.13
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.05	1.06	0.05	1.16	0.04	0.54	0.03	0.61	0.01	0.22	0.05	0.28	0.01	0.03	0.04	2.26	2.30	0.17	0.00	4.52
Fuel Consumption (000 gallons)																				
Gasoline	425.92	8455.18	0.00	8881.10	294.20	4325.98	0.00	4620.18	113.87	1773.56	0.00	1887.43	75.88	249.16	325.04	0.00	325.04	35.95	18.59	15768.29
Diesel	0.00	0.00	52.15	52.15	0.00	0.00	37.54	37.54	0.00	0.00	49.95	49.95	0.00	0.00	0.00	2454.45	2454.45	176.72	0.00	2770.81

Table E-6  
1997 Winter Planning Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Total					
Vehicles	283889.	4718950.	49401.	5052240.	156591.	2093650.	30160.	2280400.	46579.	559883.	20350.	626812.	32810.	97059.	129869.	120502.	250371.	8929.	134505.	8353250.
VMT/1000	5531.	169292.	1413.	176236.	3939.	75959.	1071.	80969.	952.	20562.	910.	22425.	424.	2869.	3293.	12140.	15433.	979.	777.	296818.
Trips	1400490.	30098100.	300147.	31798700.	798933.	13385800.	190466.	14375200.	738988.	5420850.	223818.	6383650.	638983.	1449210.	2088200.	1765820.	3854020.	35715.	268983.	56716200.
Reactive Organic Gas Emissions																				
Run Exh	30.14	61.58	0.51	92.23	21.10	31.26	0.23	52.59	6.22	16.62	0.38	23.22	3.47	5.62	9.09	9.60	18.70	2.70	3.09	192.51
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10	0.00	0.12	0.03	0.06	0.09	0.54	0.63	0.00	0.00	0.75
Start Ex	7.14	49.12	0.00	56.26	3.88	23.15	0.00	27.03	5.28	10.45	0.00	15.74	7.89	4.03	11.92	0.00	11.92	0.11	0.93	111.99
Total Ex	37.28	110.70	0.51	148.49	24.97	54.41	0.23	79.62	11.53	27.17	0.38	39.08	11.39	9.71	21.10	10.14	31.25	2.81	4.02	305.26
Diurnal	2.02	10.89	0.00	12.91	1.10	4.80	0.00	5.90	0.16	1.20	0.00	1.35	0.02	0.04	0.06	0.00	0.06	0.00	0.55	20.78
Hot Soak	6.42	18.42	0.00	24.84	3.67	8.40	0.00	12.07	1.17	3.09	0.00	4.27	0.47	0.34	0.81	0.00	0.81	0.03	0.70	42.71
Running	31.86	84.30	0.00	116.16	11.11	28.44	0.00	39.55	6.09	10.89	0.00	16.98	3.17	1.59	4.76	0.00	4.76	0.09	3.68	181.21
Resting	1.02	3.73	0.00	4.75	0.55	1.65	0.00	2.20	0.08	0.42	0.00	0.49	0.01	0.01	0.02	0.00	0.02	0.00	0.26	7.72
Total	78.60	228.04	0.51	307.15	41.40	97.71	0.23	139.34	19.03	42.77	0.38	62.17	15.05	11.70	26.75	10.14	36.89	2.93	9.21	557.69
Carbon Monoxide Emissions																				
Run Exh	388.87	1466.10	1.32	1856.30	279.62	920.86	0.88	1201.36	110.68	298.11	1.13	409.92	89.65	117.60	207.25	47.32	254.57	27.62	37.77	3787.54
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.60	0.02	0.77	0.20	0.36	0.56	3.23	3.79	0.00	0.00	4.56
Start Ex	44.39	551.88	0.00	596.28	25.45	294.98	0.00	320.42	35.66	136.61	0.00	172.27	70.39	71.22	141.60	0.00	141.60	1.46	2.71	1234.74
Total Ex	433.26	2017.98	1.32	2452.57	305.07	1215.83	0.88	1521.78	146.50	435.32	1.14	582.96	160.23	189.18	349.42	50.54	399.96	29.08	40.48	5026.84
Oxides of Nitrogen Emissions																				
Run Exh	29.66	192.12	2.19	223.97	20.83	135.12	1.52	157.47	6.01	49.90	5.21	61.13	3.01	27.39	30.40	256.20	286.61	21.17	1.24	751.59
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.06	0.00	0.00	0.01	9.90	9.90	0.00	0.00	9.96
Start Ex	2.20	25.47	0.00	27.67	1.24	16.15	0.00	17.38	0.81	10.07	0.00	10.88	1.22	8.00	9.22	0.00	9.22	0.10	0.10	65.34
Total Ex	31.86	217.59	2.19	251.65	22.06	151.27	1.52	174.85	6.82	59.97	5.26	72.06	4.23	35.39	39.63	266.10	305.73	21.26	1.34	826.88
Carbon Dioxide Emissions (000)																				
Run Exh	3.00	71.91	0.58	75.48	2.13	36.65	0.42	39.20	0.68	15.31	0.55	16.54	0.32	2.06	2.38	26.77	29.14	2.27	0.09	162.73
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.03	0.01	0.01	0.02	0.50	0.52	0.00	0.00	0.55
Start Ex	0.31	2.65	0.00	2.96	0.18	1.34	0.00	1.52	0.17	0.54	0.00	0.70	0.14	0.06	0.20	0.00	0.20	0.00	0.02	5.40
Total Ex	3.30	74.56	0.58	78.44	2.31	37.99	0.42	40.72	0.85	15.86	0.56	17.27	0.47	2.13	2.59	27.27	29.87	2.27	0.11	168.67
PM10 Emissions																				
Run Exh	0.19	1.80	0.31	2.30	0.14	1.16	0.12	1.42	0.03	0.40	0.14	0.57	0.01	0.03	0.04	6.63	6.68	0.32	0.04	11.33
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.37	0.00	0.00	0.37
Start Ex	0.02	0.18	0.00	0.20	0.01	0.11	0.00	0.12	0.01	0.04	0.00	0.05	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.39
Total Ex	0.21	1.98	0.31	2.50	0.15	1.27	0.12	1.55	0.04	0.44	0.14	0.62	0.02	0.04	0.06	7.00	7.06	0.32	0.04	12.09
TireWear	0.05	1.49	0.01	1.55	0.03	0.67	0.01	0.71	0.01	0.19	0.01	0.21	0.01	0.04	0.04	0.40	0.44	0.01	0.00	2.94
BrakeWr	0.08	2.34	0.02	2.44	0.05	1.05	0.01	1.12	0.01	0.28	0.01	0.31	0.01	0.04	0.05	0.17	0.21	0.01	0.01	4.10
Total	0.34	5.82	0.34	6.49	0.24	2.99	0.15	3.38	0.07	0.92	0.16	1.14	0.03	0.12	0.15	7.56	7.71	0.34	0.06	19.13
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.05	1.00	0.05	1.10	0.04	0.51	0.03	0.58	0.01	0.21	0.05	0.27	0.01	0.03	0.04	2.26	2.30	0.17	0.00	4.42
Fuel Consumption (000 gallons)																				
Gasoline	420.13	7997.30	0.00	8417.43	293.53	4104.35	0.00	4397.89	114.31	1703.34	0.00	1817.65	77.36	251.36	328.72	0.00	328.72	36.09	19.08	15016.85
Diesel	0.00	0.00	52.15	52.15	0.00	0.00	37.54	37.54	0.00	0.00	49.95	49.95	0.00	0.00	0.00	2454.45	2454.45	176.72	0.00	2770.81

Table E-7  
2006 Annual Average Day Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Gasoline Trucks	Diesel Trucks	Total					
Vehicles	109143.	5853520.	24540.	5987200.	60443.	2789560.	32507.	2882510.	13874.	730874.	47490.	792238.	15541.	122829.	138370.	180068.	318438.	11331.	139990.	10131700.
VMT/1000	1752.	201527.	587.	203866.	1407.	96876.	1075.	99358.	281.	26587.	2287.	29154.	162.	2832.	2994.	16416.	19410.	1244.	1028.	354061.
Trips	459788.	36859500.	138711.	37458000.	260868.	17596300.	202824.	18060000.	151211.	7496140.	490153.	8137510.	259006.	1653170.	1912180.	2781650.	4693830.	45323.	279952.	68674600.
Reactive Organic Gas Emissions																				
Run Exh	11.16	24.40	0.18	35.74	8.90	14.55	0.14	23.59	1.87	5.38	0.51	7.76	0.92	3.17	4.09	8.54	12.62	2.59	3.78	86.09
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.01	0.16	0.01	0.07	0.08	0.75	0.83	0.00	0.00	0.99
Start Ex	2.55	30.10	0.00	32.65	1.37	14.94	0.00	16.32	1.03	7.23	0.00	8.26	3.12	3.97	7.10	0.00	7.10	0.12	0.76	65.21
Total Ex	13.70	54.50	0.18	68.39	10.27	29.50	0.14	39.91	2.91	12.77	0.52	16.19	4.05	7.22	11.27	9.28	20.55	2.71	4.55	152.30
Diurnal	0.79	7.30	0.00	8.09	0.44	3.38	0.00	3.82	0.05	0.83	0.00	0.88	0.01	0.03	0.04	0.00	0.04	0.00	0.33	13.17
Hot Soak	1.41	5.77	0.00	7.18	0.81	2.71	0.00	3.53	0.18	0.93	0.00	1.11	0.13	0.18	0.31	0.00	0.31	0.01	0.16	12.29
Running	8.66	30.39	0.00	39.05	2.80	21.58	0.00	24.38	1.00	9.13	0.00	10.13	1.22	4.10	5.32	0.00	5.32	0.08	1.07	80.03
Resting	0.46	3.21	0.00	3.67	0.25	1.52	0.00	1.78	0.03	0.38	0.00	0.41	0.00	0.01	0.01	0.00	0.01	0.00	0.14	6.01
Total	25.02	101.17	0.18	126.37	14.57	58.70	0.14	73.41	4.17	24.03	0.52	28.71	5.41	11.54	16.95	9.28	26.24	2.81	6.26	263.79
Carbon Monoxide Emissions																				
Run Exh	133.94	769.82	0.52	904.29	105.99	509.86	0.72	616.56	30.08	133.50	1.81	165.38	27.93	63.81	91.74	40.32	132.06	22.25	48.05	1888.59
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.93	0.03	0.99	0.07	0.43	0.51	4.46	4.97	0.00	0.00	5.96
Start Ex	14.96	318.93	0.00	333.89	8.43	181.98	0.00	190.42	7.14	80.11	0.00	87.25	28.82	62.98	91.80	0.00	91.80	1.58	2.87	707.81
Total Ex	148.90	1088.76	0.52	1238.18	114.42	691.84	0.72	806.98	37.24	214.53	1.84	253.61	56.83	127.22	184.05	44.78	228.83	23.83	50.92	2602.35
Oxides of Nitrogen Emissions																				
Run Exh	8.31	78.98	0.87	88.16	6.45	62.31	1.54	70.30	1.65	25.47	13.19	40.31	0.91	16.48	17.39	259.68	277.08	18.43	1.46	495.75
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.10	0.00	0.00	0.01	13.69	13.69	0.00	0.00	13.80
Start Ex	0.70	19.87	0.00	20.58	0.39	13.29	0.00	13.68	0.17	10.02	0.00	10.20	0.47	8.17	8.64	0.00	8.64	0.15	0.10	53.34
Total Ex	9.02	98.85	0.87	108.74	6.84	75.60	1.54	83.98	1.83	35.50	13.28	50.61	1.38	24.66	26.04	273.37	299.41	18.58	1.56	562.88
Carbon Dioxide Emissions (000)																				
Run Exh	0.97	83.91	0.24	85.12	0.78	49.10	0.41	50.29	0.18	18.38	1.21	19.77	0.10	1.81	1.92	35.66	37.58	2.52	0.13	195.42
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.04	0.00	0.01	0.02	0.70	0.71	0.00	0.00	0.75
Start Ex	0.10	3.03	0.00	3.13	0.06	1.75	0.00	1.81	0.03	0.69	0.00	0.72	0.06	0.07	0.12	0.00	0.12	0.00	0.02	5.80
Total Ex	1.07	86.94	0.24	88.25	0.84	50.85	0.41	52.10	0.21	19.10	1.21	20.53	0.16	1.89	2.06	36.36	38.42	2.52	0.15	201.97
PM10 Emissions																				
Run Exh	0.06	2.49	0.11	2.66	0.05	1.90	0.08	2.03	0.01	0.59	0.12	0.72	0.00	0.02	0.03	4.84	4.87	0.30	0.05	10.63
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.00	0.00	0.31
Start Ex	0.01	0.27	0.00	0.27	0.00	0.19	0.00	0.19	0.00	0.07	0.00	0.07	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.55
Total Ex	0.07	2.76	0.11	2.93	0.05	2.09	0.08	2.22	0.01	0.65	0.13	0.79	0.01	0.03	0.04	5.15	5.19	0.30	0.05	11.49
TireWear	0.02	1.78	0.01	1.80	0.01	0.85	0.01	0.88	0.00	0.26	0.03	0.29	0.00	0.04	0.04	0.52	0.56	0.01	0.00	3.54
BrakeWr	0.02	2.79	0.01	2.82	0.02	1.34	0.01	1.37	0.00	0.37	0.03	0.40	0.00	0.04	0.04	0.23	0.27	0.02	0.01	4.90
Total	0.11	7.32	0.12	7.55	0.09	4.29	0.10	4.47	0.02	1.28	0.19	1.48	0.01	0.11	0.12	5.90	6.02	0.33	0.07	19.93
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.01	0.85	0.02	0.89	0.01	0.50	0.03	0.54	0.00	0.19	0.10	0.29	0.00	0.02	0.02	3.01	3.03	0.17	0.00	4.93
Fuel Consumption (000 gallons)																				
Gasoline	138.26	9095.21	0.00	9233.47	107.52	5328.06	0.00	5435.57	28.81	1994.62	0.00	2023.44	27.28	216.71	243.98	0.00	243.98	52.73	25.05	17014.24
Diesel	0.00	0.00	21.34	21.34	0.00	0.00	37.13	37.13	0.00	0.00	109.26	109.26	0.00	0.00	0.00	3272.29	3272.29	184.28	0.00	3624.31



Table E-8  
2006 Summer Planning Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Total					
Vehicles	109143.	5853520.	24540.	5987200.	60443.	2789560.	32507.	2882510.	13874.	730874.	47490.	792238.	15541.	122829.	138370.	180068.	318438.	11331.	139990.	10131700.
VMT/1000	1752.	201527.	587.	203866.	1407.	96876.	1075.	99358.	281.	26587.	2287.	29154.	162.	2832.	2994.	16416.	19410.	1244.	1028.	354061.
Trips	459788.	36859500.	138711.	37458000.	260868.	17596300.	202824.	18060000.	151211.	7496140.	490153.	8137510.	259006.	1653170.	1912180.	2781650.	4693830.	45323.	279952.	68674600.
Reactive Organic Gas Emissions																				
Run Exh	10.56	25.69	0.18	36.43	8.36	15.22	0.14	23.73	1.76	5.62	0.51	7.89	0.85	3.26	4.11	8.54	12.65	2.62	3.57	86.89
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.01	0.16	0.01	0.07	0.08	0.75	0.83	0.00	0.00	0.99
Start Ex	2.20	25.67	0.00	27.87	1.19	12.68	0.00	13.87	0.87	6.19	0.00	7.05	2.57	3.44	6.02	0.00	6.02	0.11	0.66	55.58
Total Ex	12.77	51.36	0.18	64.31	9.55	27.91	0.14	37.60	2.63	11.96	0.52	15.11	3.44	6.77	10.21	9.28	19.49	2.72	4.23	143.46
Diurnal	1.08	9.64	0.00	10.72	0.60	4.50	0.00	5.10	0.07	1.10	0.00	1.17	0.01	0.04	0.06	0.00	0.06	0.00	0.45	17.49
Hot Soak	1.38	6.85	0.00	8.23	0.80	3.22	0.00	4.02	0.18	1.04	0.00	1.21	0.13	0.18	0.31	0.00	0.31	0.01	0.17	13.96
Running	8.17	27.86	0.00	36.03	2.64	19.72	0.00	22.37	0.96	8.53	0.00	9.49	1.18	3.99	5.17	0.00	5.17	0.08	1.00	74.14
Resting	0.77	5.05	0.00	5.82	0.43	2.45	0.00	2.88	0.05	0.60	0.00	0.65	0.00	0.01	0.02	0.00	0.02	0.00	0.24	9.60
Total	24.16	100.76	0.18	125.10	14.02	57.80	0.14	71.97	3.89	23.23	0.52	27.63	4.76	11.00	15.77	9.28	25.05	2.81	6.09	258.65
Carbon Monoxide Emissions																				
Run Exh	129.16	827.39	0.52	957.08	100.71	543.72	0.72	645.15	28.56	141.68	1.81	172.05	25.99	65.39	91.38	40.32	131.70	21.97	45.33	1973.28
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.93	0.03	0.99	0.07	0.43	0.51	4.46	4.97	0.00	0.00	5.96
Start Ex	14.72	253.50	0.00	268.21	8.31	144.08	0.00	152.39	7.18	63.31	0.00	70.49	29.18	49.59	78.77	0.00	78.77	1.35	2.67	573.89
Total Ex	143.88	1080.89	0.52	1225.29	109.02	687.80	0.72	797.53	35.76	205.93	1.84	243.52	55.25	115.42	170.66	44.78	215.44	23.32	48.01	2553.12
Oxides of Nitrogen Emissions																				
Run Exh	7.76	72.93	0.85	81.53	5.96	57.21	1.50	64.67	1.53	23.47	12.78	37.78	0.83	15.24	16.08	252.68	268.76	17.92	1.33	471.99
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.10	0.00	0.00	0.01	13.69	13.69	0.00	0.00	13.80
Start Ex	0.66	18.52	0.00	19.18	0.36	12.38	0.00	12.74	0.17	9.51	0.00	9.67	0.44	7.85	8.29	0.00	8.29	0.14	0.09	50.12
Total Ex	8.42	91.45	0.85	100.72	6.33	69.59	1.50	77.42	1.70	32.99	12.87	47.56	1.28	23.10	24.37	266.37	290.74	18.06	1.42	535.92
Carbon Dioxide Emissions (000)																				
Run Exh	0.99	87.75	0.24	88.97	0.79	51.34	0.41	52.54	0.18	19.03	1.21	20.42	0.10	1.81	1.92	35.66	37.58	2.52	0.13	202.17
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.04	0.00	0.01	0.02	0.70	0.71	0.00	0.00	0.75
Start Ex	0.10	3.03	0.00	3.13	0.06	1.75	0.00	1.81	0.03	0.69	0.00	0.72	0.06	0.07	0.12	0.00	0.12	0.00	0.02	5.80
Total Ex	1.09	90.77	0.24	92.10	0.84	53.09	0.41	54.35	0.22	19.75	1.21	21.18	0.16	1.89	2.06	36.36	38.42	2.52	0.15	208.72
PM10 Emissions																				
Run Exh	0.06	2.49	0.11	2.66	0.05	1.90	0.08	2.03	0.01	0.59	0.12	0.72	0.00	0.02	0.03	4.84	4.87	0.30	0.05	10.63
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.00	0.00	0.31
Start Ex	0.01	0.27	0.00	0.27	0.00	0.19	0.00	0.19	0.00	0.07	0.00	0.07	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.55
Total Ex	0.07	2.76	0.11	2.93	0.05	2.09	0.08	2.22	0.01	0.65	0.13	0.79	0.01	0.03	0.04	5.15	5.19	0.30	0.05	11.49
TireWear	0.02	1.78	0.01	1.80	0.01	0.85	0.01	0.88	0.00	0.26	0.03	0.29	0.00	0.04	0.04	0.52	0.56	0.01	0.00	3.54
BrakeWr	0.02	2.79	0.01	2.82	0.02	1.34	0.01	1.37	0.00	0.37	0.03	0.40	0.00	0.04	0.04	0.23	0.27	0.02	0.01	4.90
Total	0.11	7.32	0.12	7.55	0.09	4.29	0.10	4.47	0.02	1.28	0.19	1.48	0.01	0.11	0.12	5.90	6.02	0.33	0.07	19.93
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.01	0.89	0.02	0.92	0.01	0.52	0.03	0.57	0.00	0.19	0.10	0.30	0.00	0.02	0.02	3.01	3.03	0.17	0.00	4.99
Fuel Consumption (000 gallons)																				
Gasoline	138.85	9485.85	0.00	9624.70	107.18	5556.05	0.00	5663.22	28.65	2059.79	0.00	2088.44	26.82	214.66	241.48	0.00	241.48	52.65	24.47	17694.97
Diesel	0.00	0.00	21.34	21.34	0.00	0.00	37.13	37.13	0.00	0.00	109.26	109.26	0.00	0.00	0.00	3272.29	3272.29	184.28	0.00	3624.31

Table E-9  
2006 Winter Planning Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Total					
Vehicles	109143.	5853520.	24540.	5987200.	60443.	2789560.	32507.	2882510.	13874.	730874.	47490.	792238.	15541.	122829.	138370.	180068.	318438.	11331.	139990.	10131700.
VMT/1000	1752.	201527.	587.	203866.	1407.	96876.	1075.	99358.	281.	26587.	2287.	29154.	162.	2832.	2994.	16416.	19410.	1244.	1028.	354061.
Trips	459788.	36859500.	138711.	37458000.	260868.	17596300.	202824.	18060000.	151211.	7496140.	490153.	8137510.	259006.	1653170.	1912180.	2781650.	4693830.	45323.	279952.	68674600.
Reactive Organic Gas Emissions																				
Run Exh	11.19	23.88	0.18	35.25	8.95	14.27	0.14	23.37	1.88	5.28	0.51	7.68	0.93	3.15	4.08	8.54	12.62	2.59	3.80	85.31
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.01	0.16	0.01	0.07	0.08	0.75	0.83	0.00	0.00	0.99
Start Ex	2.57	30.54	0.00	33.11	1.38	15.15	0.00	16.54	1.04	7.33	0.00	8.36	3.13	4.00	7.13	0.00	7.13	0.12	0.77	66.03
Total Ex	13.77	54.42	0.18	68.37	10.34	29.42	0.14	39.91	2.93	12.77	0.52	16.21	4.07	7.22	11.29	9.28	20.57	2.71	4.57	152.33
Diurnal	0.85	7.66	0.00	8.51	0.47	3.56	0.00	4.02	0.06	0.87	0.00	0.93	0.01	0.04	0.05	0.00	0.05	0.00	0.36	13.88
Hot Soak	2.05	9.58	0.00	11.64	1.18	4.46	0.00	5.64	0.26	1.48	0.00	1.74	0.19	0.26	0.45	0.00	0.45	0.02	0.25	19.74
Running	9.83	36.34	0.00	46.18	3.17	26.07	0.00	29.24	1.10	10.55	0.00	11.65	1.30	4.36	5.65	0.00	5.65	0.09	1.24	94.05
Resting	0.41	2.94	0.00	3.36	0.23	1.39	0.00	1.62	0.03	0.34	0.00	0.37	0.00	0.01	0.01	0.00	0.01	0.00	0.13	5.49
Total	26.92	110.95	0.18	138.05	15.39	64.89	0.14	80.43	4.37	26.01	0.52	30.90	5.57	11.89	17.46	9.28	26.75	2.82	6.56	285.50
Carbon Monoxide Emissions																				
Run Exh	132.77	741.98	0.52	875.28	105.74	493.41	0.72	599.86	30.03	129.54	1.81	161.38	28.26	63.44	91.70	40.32	132.01	22.23	48.09	1838.86
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.93	0.03	0.99	0.07	0.43	0.51	4.46	4.97	0.00	0.00	5.96
Start Ex	15.03	326.65	0.00	341.67	8.46	186.21	0.00	194.67	7.13	81.70	0.00	88.83	28.73	63.28	92.01	0.00	92.01	1.60	2.88	721.65
Total Ex	147.80	1068.63	0.52	1216.95	114.20	679.62	0.72	794.54	37.18	212.17	1.84	251.19	57.06	127.16	184.21	44.78	228.99	23.83	50.97	2566.47
Oxides of Nitrogen Emissions																				
Run Exh	9.25	87.80	0.92	97.97	7.19	69.23	1.64	78.06	1.85	28.36	14.01	44.21	1.03	18.58	19.61	276.51	296.12	19.81	1.64	537.81
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.10	0.00	0.00	0.01	13.69	13.69	0.00	0.00	13.80
Start Ex	0.71	20.07	0.00	20.78	0.39	13.42	0.00	13.81	0.18	10.08	0.00	10.26	0.47	8.20	8.67	0.00	8.67	0.15	0.10	53.75
Total Ex	9.96	107.87	0.92	118.75	7.58	82.65	1.64	91.87	2.02	38.45	14.10	54.57	1.50	26.78	28.28	290.20	318.48	19.96	1.73	605.36
Carbon Dioxide Emissions (000)																				
Run Exh	0.96	81.76	0.24	82.96	0.78	47.86	0.41	49.05	0.18	18.02	1.21	19.40	0.10	1.81	1.92	35.66	37.58	2.52	0.13	191.64
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.04	0.00	0.01	0.02	0.70	0.71	0.00	0.00	0.75
Start Ex	0.10	3.03	0.00	3.13	0.06	1.75	0.00	1.81	0.03	0.69	0.00	0.72	0.06	0.07	0.12	0.00	0.12	0.00	0.02	5.80
Total Ex	1.06	84.78	0.24	86.08	0.83	49.61	0.41	50.86	0.21	18.74	1.21	20.17	0.16	1.89	2.06	36.36	38.42	2.52	0.15	198.20
PM10 Emissions																				
Run Exh	0.06	2.49	0.11	2.66	0.05	1.90	0.08	2.03	0.01	0.59	0.12	0.72	0.00	0.02	0.03	4.84	4.87	0.30	0.05	10.63
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.31	0.00	0.00	0.31
Start Ex	0.01	0.27	0.00	0.27	0.00	0.19	0.00	0.19	0.00	0.07	0.00	0.07	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.55
Total Ex	0.07	2.76	0.11	2.93	0.05	2.09	0.08	2.22	0.01	0.65	0.13	0.79	0.01	0.03	0.04	5.15	5.19	0.30	0.05	11.49
TireWear	0.02	1.78	0.01	1.80	0.01	0.85	0.01	0.88	0.00	0.26	0.03	0.29	0.00	0.04	0.04	0.52	0.56	0.01	0.00	3.54
BrakeWr	0.02	2.79	0.01	2.82	0.02	1.34	0.01	1.37	0.00	0.37	0.03	0.40	0.00	0.04	0.04	0.23	0.27	0.02	0.01	4.90
Total	0.11	7.32	0.12	7.55	0.09	4.29	0.10	4.47	0.02	1.28	0.19	1.48	0.01	0.11	0.12	5.90	6.02	0.33	0.07	19.93
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.01	0.83	0.02	0.86	0.01	0.49	0.03	0.53	0.00	0.18	0.10	0.29	0.00	0.02	0.02	3.01	3.03	0.17	0.00	4.89
Fuel Consumption (000 gallons)																				
Gasoline	137.17	8871.39	0.00	9008.56	107.09	5199.02	0.00	5306.11	28.72	1957.05	0.00	1985.77	27.32	216.70	244.02	0.00	244.02	52.73	25.06	16622.25
Diesel	0.00	0.00	21.34	21.34	0.00	0.00	37.13	37.13	0.00	0.00	109.26	109.26	0.00	0.00	0.00	3272.29	3272.29	184.28	0.00	3624.31

Table E-10  
2010 Annual Average Day Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Total					
Vehicles	59141.	6543830.	16113.	6619080.	36789.	3130510.	27734.	3195030.	8833.	810222.	49925.	868980.	8116.	131728.	139844.	197167.	337011.	11910.	155138.	11187200.
VMT/1000	878.	223391.	356.	224625.	834.	106367.	853.	108054.	180.	28501.	2229.	30910.	83.	2773.	2856.	18497.	21353.	1308.	1160.	387411.
Trips	238002.	41020300.	85467.	41343800.	150967.	19574100.	169403.	19894500.	80924.	8131370.	524191.	8736480.	153958.	1595900.	1749860.	3026240.	4776100.	47640.	310246.	75108800.
Reactive Organic Gas Emissions																				
Run Exh	5.79	17.10	0.10	22.99	5.53	11.94	0.11	17.58	1.35	4.43	0.49	6.27	0.48	2.22	2.69	7.28	9.97	2.48	3.75	63.04
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.01	0.17	0.01	0.07	0.08	0.82	0.89	0.00	0.00	1.06
Start Ex	1.32	22.47	0.00	23.79	0.80	12.47	0.00	13.27	0.54	6.39	0.00	6.93	1.75	3.24	4.99	0.00	4.99	0.12	0.78	49.89
Total Ex	7.11	39.58	0.10	46.79	6.33	24.41	0.11	30.85	1.89	10.98	0.49	13.37	2.24	5.53	7.76	8.09	15.86	2.60	4.53	113.99
Diurnal	0.43	6.39	0.00	6.82	0.27	3.34	0.00	3.61	0.03	0.83	0.00	0.87	0.01	0.03	0.03	0.00	0.03	0.00	0.33	11.66
Hot Soak	0.72	5.34	0.00	6.06	0.47	2.79	0.00	3.26	0.10	0.90	0.00	1.00	0.08	0.14	0.22	0.00	0.22	0.01	0.11	10.67
Running	4.37	24.36	0.00	28.72	1.47	22.53	0.00	24.00	0.49	9.69	0.00	10.18	0.72	4.40	5.12	0.00	5.12	0.08	0.71	68.81
Resting	0.25	3.32	0.00	3.58	0.16	1.76	0.00	1.92	0.02	0.44	0.00	0.46	0.00	0.01	0.01	0.00	0.01	0.00	0.13	6.10
Total	12.88	78.99	0.10	91.97	8.70	54.84	0.11	63.65	2.53	22.84	0.49	25.87	3.05	10.10	13.14	8.09	21.24	2.70	5.80	211.23
Carbon Monoxide Emissions																				
Run Exh	66.63	606.56	0.32	673.51	63.20	439.14	0.57	502.91	21.07	117.29	1.83	140.19	14.35	44.06	58.41	35.01	93.42	20.66	41.19	1471.88
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.96	0.03	1.01	0.05	0.44	0.48	4.87	5.35	0.00	0.00	6.36
Start Ex	7.70	253.18	0.00	260.88	4.92	157.54	0.00	162.45	3.85	69.43	0.00	73.29	16.37	52.03	68.40	0.00	68.40	1.55	3.26	569.82
Total Ex	74.33	859.73	0.32	934.39	68.11	596.68	0.57	665.36	24.93	187.69	1.86	214.48	30.76	96.53	127.29	39.88	167.17	22.21	44.45	2048.06
Oxides of Nitrogen Emissions																				
Run Exh	4.12	56.98	0.52	61.62	3.78	50.09	1.22	55.09	1.14	20.80	10.38	32.33	0.44	10.80	11.25	192.75	204.00	17.81	1.54	372.37
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.11	0.00	0.00	0.01	14.93	14.94	0.00	0.00	15.05
Start Ex	0.37	16.42	0.00	16.78	0.23	11.99	0.00	12.21	0.10	10.68	0.00	10.78	0.26	6.77	7.02	0.00	7.02	0.16	0.11	47.07
Total Ex	4.49	73.40	0.52	78.40	4.01	62.07	1.22	67.30	1.24	31.49	10.49	43.22	0.70	17.58	18.27	207.69	225.96	17.97	1.64	434.49
Carbon Dioxide Emissions (000)																				
Run Exh	0.50	93.32	0.14	93.96	0.47	55.05	0.33	55.85	0.12	20.05	1.18	21.36	0.05	1.80	1.85	40.54	42.39	2.61	0.18	216.35
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.04	0.00	0.01	0.02	0.76	0.77	0.00	0.00	0.81
Start Ex	0.05	3.30	0.00	3.35	0.03	1.94	0.00	1.98	0.02	0.76	0.00	0.78	0.03	0.06	0.10	0.00	0.10	0.00	0.02	6.23
Total Ex	0.55	96.62	0.14	97.31	0.50	57.00	0.33	57.83	0.14	20.85	1.19	22.17	0.09	1.87	1.96	41.30	43.27	2.61	0.19	223.39
PM10 Emissions																				
Run Exh	0.03	2.94	0.06	3.03	0.03	2.44	0.06	2.53	0.01	0.75	0.11	0.86	0.00	0.02	0.02	3.86	3.88	0.28	0.04	10.62
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.00	0.00	0.27
Start Ex	0.00	0.29	0.00	0.30	0.00	0.24	0.00	0.24	0.00	0.08	0.00	0.08	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.63
Total Ex	0.04	3.23	0.06	3.33	0.03	2.68	0.06	2.77	0.01	0.83	0.11	0.95	0.00	0.03	0.03	4.12	4.16	0.28	0.05	11.52
TireWear	0.01	1.97	0.00	1.98	0.01	0.94	0.01	0.95	0.00	0.27	0.03	0.30	0.00	0.04	0.04	0.60	0.64	0.01	0.01	3.89
BrakeWr	0.01	3.09	0.00	3.11	0.01	1.47	0.01	1.49	0.00	0.39	0.03	0.43	0.00	0.04	0.04	0.26	0.30	0.02	0.02	5.36
Total	0.06	8.29	0.07	8.41	0.05	5.09	0.08	5.21	0.01	1.50	0.17	1.68	0.01	0.10	0.11	4.98	5.09	0.31	0.07	20.77
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.01	0.94	0.00	0.95	0.01	0.56	0.00	0.57	0.00	0.20	0.01	0.22	0.00	0.02	0.02	0.39	0.42	0.03	0.00	2.18
Fuel Consumption (000 gallons)																				
Gasoline	70.34	10044.72	0.00	10115.06	64.71	5940.02	0.00	6004.73	18.78	2168.21	0.00	2186.99	14.88	209.28	224.16	0.00	224.16	55.03	28.49	18614.45
Diesel	0.00	0.00	12.87	12.87	0.00	0.00	29.41	29.41	0.00	0.00	106.94	106.94	0.00	0.00	0.00	3717.18	3717.18	190.02	0.00	4056.41

Table E-11  
2010 Summer Planning Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Total					
Vehicles	59141.	6543830.	16113.	6619080.	36789.	3130510.	27734.	3195030.	8833.	810222.	49925.	868980.	8116.	131728.	139844.	197167.	337011.	11910.	155138.	11187200.
VMT/1000	878.	223391.	356.	224625.	834.	106367.	853.	108054.	180.	28501.	2229.	30910.	83.	2773.	2856.	18497.	21353.	1308.	1160.	387411.
Trips	238002.	41020300.	85467.	41343800.	150967.	19574100.	169403.	19894500.	80924.	8131370.	524191.	8736480.	153958.	1595900.	1749860.	3026240.	4776100.	47640.	310246.	75108800.
Reactive Organic Gas Emissions																				
Run Exh	5.48	17.99	0.10	23.57	5.19	12.49	0.11	17.79	1.27	4.63	0.49	6.40	0.44	2.28	2.72	7.28	10.00	2.51	3.58	63.84
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.01	0.17	0.01	0.07	0.08	0.82	0.89	0.00	0.00	1.06
Start Ex	1.14	19.15	0.00	20.29	0.69	10.59	0.00	11.28	0.45	5.48	0.00	5.94	1.45	2.81	4.26	0.00	4.26	0.11	0.68	42.55
Total Ex	6.62	37.14	0.10	43.86	5.89	23.08	0.11	29.08	1.73	10.28	0.49	12.50	1.90	5.16	7.06	8.09	15.15	2.62	4.25	107.46
Diurnal	0.59	8.57	0.00	9.16	0.37	4.51	0.00	4.88	0.05	1.12	0.00	1.17	0.01	0.04	0.05	0.00	0.05	0.00	0.44	15.69
Hot Soak	0.71	6.44	0.00	7.14	0.47	3.38	0.00	3.85	0.10	1.04	0.00	1.14	0.08	0.14	0.22	0.00	0.22	0.01	0.13	12.49
Running	4.12	22.29	0.00	26.40	1.39	20.57	0.00	21.96	0.47	9.04	0.00	9.51	0.70	4.28	4.99	0.00	4.99	0.08	0.65	63.59
Resting	0.42	5.01	0.00	5.43	0.27	2.71	0.00	2.98	0.03	0.67	0.00	0.70	0.00	0.01	0.01	0.00	0.01	0.00	0.21	9.34
Total	12.46	79.44	0.10	92.00	8.38	54.25	0.11	62.74	2.37	22.15	0.49	25.02	2.69	9.64	12.32	8.09	20.42	2.71	5.69	208.57
Carbon Monoxide Emissions																				
Run Exh	64.23	652.80	0.32	717.34	59.99	468.88	0.57	529.44	20.00	124.82	1.83	146.64	13.35	45.15	58.50	35.01	93.52	20.43	39.00	1546.37
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.96	0.03	1.01	0.05	0.44	0.48	4.87	5.35	0.00	0.00	6.36
Start Ex	7.58	201.01	0.00	208.59	4.84	124.68	0.00	129.52	3.86	54.97	0.00	58.83	16.57	41.10	57.67	0.00	57.67	1.32	2.96	458.89
Total Ex	71.80	853.81	0.32	925.93	64.84	593.56	0.57	658.96	23.87	180.75	1.86	206.48	29.97	86.68	116.66	39.88	156.54	21.74	41.96	2011.62
Oxides of Nitrogen Emissions																				
Run Exh	3.85	52.63	0.50	56.98	3.50	46.01	1.18	50.70	1.06	19.18	10.06	30.29	0.40	9.99	10.39	187.50	197.89	17.30	1.40	354.57
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.11	0.00	0.00	0.01	14.93	14.94	0.00	0.00	15.05
Start Ex	0.34	15.30	0.00	15.65	0.21	11.17	0.00	11.38	0.10	10.15	0.00	10.24	0.24	6.50	6.74	0.00	6.74	0.15	0.10	44.27
Total Ex	4.19	67.93	0.50	72.63	3.71	57.18	1.18	62.08	1.15	29.34	10.16	40.65	0.65	16.49	17.14	202.43	219.57	17.46	1.50	413.89
Carbon Dioxide Emissions (000)																				
Run Exh	0.50	97.74	0.14	98.39	0.48	57.63	0.33	58.44	0.12	20.79	1.18	22.10	0.05	1.80	1.85	40.54	42.39	2.61	0.18	224.10
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.04	0.00	0.01	0.02	0.76	0.77	0.00	0.00	0.81
Start Ex	0.05	3.30	0.00	3.35	0.03	1.94	0.00	1.98	0.02	0.76	0.00	0.78	0.03	0.06	0.10	0.00	0.10	0.00	0.02	6.23
Total Ex	0.56	101.04	0.14	101.74	0.51	59.58	0.33	60.41	0.14	21.59	1.19	22.91	0.09	1.87	1.96	41.30	43.27	2.61	0.19	231.14
PM10 Emissions																				
Run Exh	0.03	2.94	0.06	3.03	0.03	2.44	0.06	2.53	0.01	0.75	0.11	0.86	0.00	0.02	0.02	3.86	3.88	0.28	0.04	10.62
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.00	0.00	0.27
Start Ex	0.00	0.29	0.00	0.30	0.00	0.24	0.00	0.24	0.00	0.08	0.00	0.08	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.63
Total Ex	0.04	3.23	0.06	3.33	0.03	2.68	0.06	2.77	0.01	0.83	0.11	0.95	0.00	0.03	0.03	4.12	4.16	0.28	0.05	11.52
TireWear	0.01	1.97	0.00	1.98	0.01	0.94	0.01	0.95	0.00	0.27	0.03	0.30	0.00	0.04	0.04	0.60	0.64	0.01	0.01	3.89
BrakeWr	0.01	3.09	0.00	3.11	0.01	1.47	0.01	1.49	0.00	0.39	0.03	0.43	0.00	0.04	0.04	0.26	0.30	0.02	0.02	5.36
Total	0.06	8.29	0.07	8.41	0.05	5.09	0.08	5.21	0.01	1.50	0.17	1.68	0.01	0.10	0.11	4.98	5.09	0.31	0.07	20.77
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.01	0.98	0.00	0.99	0.01	0.58	0.00	0.59	0.00	0.21	0.01	0.22	0.00	0.02	0.02	0.39	0.42	0.03	0.00	2.25
Fuel Consumption (000 gallons)																				
Gasoline	70.64	10495.34	0.00	10565.98	64.49	6203.40	0.00	6267.89	18.66	2242.70	0.00	2261.36	14.64	207.58	222.22	0.00	222.22	54.96	28.00	19400.41
Diesel	0.00	0.00	12.87	12.87	0.00	0.00	29.41	29.41	0.00	0.00	106.94	106.94	0.00	0.00	0.00	3717.18	3717.18	190.02	0.00	4056.41

Table E-12  
2010 Winter Planning Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Gasoline	Diesel	Total					
Vehicles	59141.	6543830.	16113.	6619080.	36789.	3130510.	27734.	3195030.	8833.	810222.	49925.	868980.	8116.	131728.	139844.	197167.	337011.	11910.	155138.	11187200.
VMT/1000	878.	223391.	356.	224625.	834.	106367.	853.	108054.	180.	28501.	2229.	30910.	83.	2773.	2856.	18497.	21353.	1308.	1160.	387411.
Trips	238002.	41020300.	85467.	41343800.	150967.	19574100.	169403.	19894500.	80924.	8131370.	524191.	8736480.	153958.	1595900.	1749860.	3026240.	4776100.	47640.	310246.	75108800.
Reactive Organic Gas Emissions																				
Run Exh	5.81	16.74	0.10	22.65	5.57	11.71	0.11	17.39	1.36	4.35	0.49	6.20	0.48	2.20	2.68	7.28	9.96	2.48	3.76	62.44
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.01	0.17	0.01	0.07	0.08	0.82	0.89	0.00	0.00	1.06
Start Ex	1.33	22.81	0.00	24.14	0.81	12.65	0.00	13.45	0.54	6.48	0.00	7.02	1.76	3.26	5.02	0.00	5.02	0.12	0.78	50.53
Total Ex	7.14	39.55	0.10	46.79	6.37	24.36	0.11	30.84	1.91	10.98	0.49	13.38	2.25	5.53	7.78	8.09	15.87	2.60	4.55	114.02
Diurnal	0.47	6.61	0.00	7.08	0.29	3.46	0.00	3.75	0.04	0.87	0.00	0.90	0.01	0.03	0.04	0.00	0.04	0.00	0.36	12.13
Hot Soak	1.05	8.93	0.00	9.98	0.69	4.63	0.00	5.31	0.14	1.47	0.00	1.61	0.11	0.21	0.32	0.00	0.32	0.02	0.18	17.42
Running	4.96	29.24	0.00	34.20	1.67	27.28	0.00	28.94	0.54	11.22	0.00	11.76	0.77	4.66	5.43	0.00	5.43	0.10	0.83	81.27
Resting	0.23	3.05	0.00	3.28	0.14	1.61	0.00	1.75	0.02	0.40	0.00	0.42	0.00	0.01	0.01	0.00	0.01	0.00	0.11	5.58
Total	13.85	87.37	0.10	101.32	9.16	61.33	0.11	70.60	2.64	24.94	0.49	28.07	3.14	10.44	13.58	8.09	21.68	2.72	6.03	230.41
Carbon Monoxide Emissions																				
Run Exh	66.09	584.20	0.32	650.61	63.11	424.69	0.57	488.37	21.05	113.64	1.83	136.53	14.51	43.81	58.32	35.01	93.34	20.64	41.24	1430.73
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.96	0.03	1.01	0.05	0.44	0.48	4.87	5.35	0.00	0.00	6.36
Start Ex	7.74	259.37	0.00	267.11	4.93	161.23	0.00	166.16	3.85	70.84	0.00	74.69	16.32	52.29	68.61	0.00	68.61	1.56	3.26	581.38
Total Ex	73.83	843.57	0.32	917.72	68.04	585.92	0.57	654.53	24.91	185.44	1.86	212.22	30.88	96.53	127.41	39.88	167.29	22.20	44.51	2018.47
Oxides of Nitrogen Emissions																				
Run Exh	4.59	63.33	0.55	68.47	4.22	55.65	1.30	61.17	1.27	23.16	11.03	35.46	0.50	12.18	12.68	205.21	217.89	19.14	1.72	403.85
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.11	0.00	0.00	0.01	14.93	14.94	0.00	0.00	15.05
Start Ex	0.37	16.58	0.00	16.95	0.23	12.10	0.00	12.33	0.10	10.73	0.00	10.83	0.26	6.79	7.04	0.00	7.04	0.16	0.11	47.42
Total Ex	4.95	79.91	0.55	85.42	4.44	67.75	1.30	73.50	1.38	33.90	11.13	46.41	0.76	18.97	19.73	220.15	239.87	19.30	1.83	466.32
Carbon Dioxide Emissions (000)																				
Run Exh	0.49	90.85	0.14	91.48	0.47	53.62	0.33	54.42	0.12	19.64	1.18	20.94	0.05	1.80	1.85	40.54	42.39	2.61	0.18	212.02
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.04	0.00	0.01	0.02	0.76	0.77	0.00	0.00	0.81
Start Ex	0.05	3.30	0.00	3.35	0.03	1.94	0.00	1.98	0.02	0.76	0.00	0.78	0.03	0.06	0.10	0.00	0.10	0.00	0.02	6.23
Total Ex	0.54	94.14	0.14	94.83	0.50	55.57	0.33	56.39	0.14	20.43	1.19	21.76	0.09	1.87	1.96	41.30	43.27	2.61	0.19	219.06
PM10 Emissions																				
Run Exh	0.03	2.94	0.06	3.03	0.03	2.44	0.06	2.53	0.01	0.75	0.11	0.86	0.00	0.02	0.02	3.86	3.88	0.28	0.04	10.62
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.00	0.00	0.27
Start Ex	0.00	0.29	0.00	0.30	0.00	0.24	0.00	0.24	0.00	0.08	0.00	0.08	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.63
Total Ex	0.04	3.23	0.06	3.33	0.03	2.68	0.06	2.77	0.01	0.83	0.11	0.95	0.00	0.03	0.03	4.12	4.16	0.28	0.05	11.52
TireWear	0.01	1.97	0.00	1.98	0.01	0.94	0.01	0.95	0.00	0.27	0.03	0.30	0.00	0.04	0.04	0.60	0.64	0.01	0.01	3.89
BrakeWr	0.01	3.09	0.00	3.11	0.01	1.47	0.01	1.49	0.00	0.39	0.03	0.43	0.00	0.04	0.04	0.26	0.30	0.02	0.02	5.36
Total	0.06	8.29	0.07	8.41	0.05	5.09	0.08	5.21	0.01	1.50	0.17	1.68	0.01	0.10	0.11	4.98	5.09	0.31	0.07	20.77
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.01	0.92	0.00	0.93	0.01	0.54	0.00	0.55	0.00	0.20	0.01	0.21	0.00	0.02	0.02	0.39	0.42	0.03	0.00	2.13
Fuel Consumption (000 gallons)																				
Gasoline	69.79	9788.36	0.00	9858.15	64.46	5791.77	0.00	5856.23	18.71	2125.63	0.00	2144.34	14.90	209.28	224.18	0.00	224.18	55.03	28.50	18166.44
Diesel	0.00	0.00	12.87	12.87	0.00	0.00	29.41	29.41	0.00	0.00	106.94	106.94	0.00	0.00	0.00	3717.18	3717.18	190.02	0.00	4056.41

Table E-13  
2020 Annual Average Day Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Total					
Vehicles	1300.	7875060.	3914.	7880270.	1503.	3797360.	13666.	3812530.	1065.	976851.	52032.	1029950.	254.	150151.	150405.	240208.	390613.	13553.	185469.	13312400.
VMT/1000	18.	264487.	73.	264577.	33.	126202.	362.	126597.	23.	32947.	2138.	35108.	3.	2936.	2938.	22598.	25537.	1490.	1378.	454687.
Trips	4972.	48878500.	18556.	48902100.	5776.	23332900.	77002.	23415700.	5632.	9549250.	586425.	10141300.	5299.	1605910.	1611210.	3649680.	5260890.	54213.	370902.	88145100.
Reactive Organic Gas Emissions																				
Run Exh	0.06	8.71	0.02	8.79	0.10	7.54	0.04	7.68	0.27	2.94	0.33	3.53	0.01	0.72	0.74	4.88	5.62	2.30	3.81	31.74
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.01	0.18	0.00	0.08	0.08	0.99	1.07	0.00	0.00	1.24
Start Ex	0.01	9.30	0.00	9.31	0.01	6.59	0.00	6.60	0.04	4.05	0.00	4.09	0.05	1.85	1.90	0.00	1.90	0.11	0.85	22.86
Total Ex	0.07	18.01	0.02	18.11	0.11	14.13	0.04	14.28	0.31	7.15	0.34	7.80	0.07	2.65	2.72	5.87	8.59	2.41	4.66	55.85
Diurnal	0.01	4.41	0.00	4.42	0.01	2.98	0.00	2.99	0.00	0.80	0.00	0.80	0.00	0.02	0.02	0.00	0.02	0.00	0.37	8.60
Hot Soak	0.01	4.13	0.00	4.14	0.02	2.70	0.00	2.72	0.00	0.85	0.00	0.85	0.00	0.08	0.08	0.00	0.08	0.01	0.09	7.89
Running	0.05	15.98	0.00	16.03	0.03	19.59	0.00	19.62	0.01	10.22	0.00	10.24	0.02	4.17	4.19	0.00	4.19	0.09	0.48	50.65
Resting	0.01	3.07	0.00	3.08	0.01	2.16	0.00	2.17	0.00	0.59	0.00	0.59	0.00	0.01	0.01	0.00	0.01	0.00	0.14	5.98
Total	0.15	45.61	0.02	45.78	0.17	41.56	0.04	41.77	0.33	19.61	0.34	20.28	0.10	6.91	7.01	5.87	12.88	2.51	5.74	128.96
Carbon Monoxide Emissions																				
Run Exh	0.89	328.02	0.06	328.98	2.55	281.47	0.26	284.28	4.34	82.14	1.65	88.13	0.40	16.09	16.49	28.71	45.21	13.46	31.77	791.82
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.04	1.09	0.00	0.46	0.46	5.91	6.38	0.00	0.00	7.46
Start Ex	0.10	123.15	0.00	123.25	0.18	91.19	0.00	91.37	0.39	45.17	0.00	45.56	0.45	30.97	31.42	0.00	31.42	1.51	4.13	297.25
Total Ex	0.99	451.17	0.06	452.23	2.73	372.66	0.26	375.65	4.73	128.36	1.69	134.78	0.85	47.53	48.38	34.62	83.00	14.97	35.90	1096.53
Oxides of Nitrogen Emissions																				
Run Exh	0.07	26.89	0.10	27.06	0.12	28.51	0.52	29.16	0.22	11.69	4.62	16.53	0.01	3.45	3.46	67.23	70.69	14.71	1.66	159.80
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.13	0.14	0.00	0.00	0.00	18.14	18.14	0.00	0.00	18.28
Start Ex	0.01	7.04	0.00	7.04	0.01	6.57	0.00	6.58	0.01	9.61	0.00	9.62	0.01	3.92	3.92	0.00	3.92	0.18	0.13	27.48
Total Ex	0.08	33.92	0.10	34.11	0.13	35.09	0.52	35.74	0.23	21.30	4.75	26.29	0.02	7.37	7.39	85.36	92.75	14.89	1.79	205.56
Carbon Dioxide Emissions (000)																				
Run Exh	0.01	115.28	0.03	115.32	0.02	69.67	0.14	69.83	0.02	24.78	1.17	25.98	0.00	2.00	2.00	49.92	51.92	2.78	0.25	266.07
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.04	0.00	0.02	0.02	0.92	0.94	0.00	0.00	0.98
Start Ex	0.00	3.82	0.00	3.82	0.00	2.30	0.00	2.30	0.00	0.91	0.00	0.91	0.00	0.06	0.07	0.00	0.07	0.00	0.02	7.12
Total Ex	0.01	119.10	0.03	119.14	0.02	71.97	0.14	72.13	0.02	25.73	1.18	26.93	0.00	2.08	2.09	50.84	52.92	2.78	0.27	274.18
PM10 Emissions																				
Run Exh	0.00	4.07	0.01	4.08	0.00	3.61	0.02	3.64	0.00	1.11	0.07	1.18	0.00	0.02	0.02	2.43	2.45	0.24	0.03	11.62
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.00	0.00	0.24
Start Ex	0.00	0.34	0.00	0.34	0.00	0.30	0.00	0.30	0.00	0.10	0.00	0.10	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.75
Total Ex	0.00	4.41	0.01	4.42	0.00	3.91	0.02	3.93	0.00	1.21	0.07	1.28	0.00	0.03	0.03	2.67	2.70	0.24	0.03	12.61
TireWear	0.00	2.33	0.00	2.33	0.00	1.11	0.00	1.12	0.00	0.31	0.03	0.34	0.00	0.04	0.04	0.74	0.78	0.02	0.01	4.59
BrakeWr	0.00	3.66	0.00	3.66	0.00	1.75	0.01	1.75	0.00	0.46	0.03	0.49	0.00	0.04	0.04	0.31	0.35	0.02	0.02	6.29
Total	0.00	10.40	0.01	10.41	0.00	6.77	0.03	6.80	0.00	1.98	0.13	2.11	0.00	0.11	0.11	3.73	3.84	0.28	0.06	23.49
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.00	1.15	0.00	1.15	0.00	0.70	0.00	0.70	0.00	0.25	0.01	0.26	0.00	0.02	0.02	0.49	0.51	0.03	0.00	2.65
Fuel Consumption (000 gallons)																				
Gasoline	1.39	12272.52	0.00	12273.91	2.70	7433.48	0.00	7436.18	2.97	2657.09	0.00	2660.06	0.46	221.85	222.31	0.00	222.31	62.79	34.55	22689.81
Diesel	0.00	0.00	2.59	2.59	0.00	0.00	12.46	12.46	0.00	0.00	106.07	106.07	0.00	0.00	0.00	4575.44	4575.44	197.51	0.00	4894.07

Table E-14  
2020 Summer Planning Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Total					
Vehicles	1300.	7875060.	3914.	7880270.	1503.	3797360.	13666.	3812530.	1065.	976851.	52032.	1029950.	254.	150151.	150405.	240208.	390613.	13553.	185469.	13312400.
VMT/1000	18.	264487.	73.	264577.	33.	126202.	362.	126597.	23.	32947.	2138.	35108.	3.	2936.	2938.	22598.	25537.	1490.	1378.	454687.
Trips	4972.	48878500.	18556.	48902100.	5776.	23332900.	77002.	23415700.	5632.	9549250.	586425.	10141300.	5299.	1605910.	1611210.	3649680.	5260890.	54213.	370902.	88145100.
Reactive Organic Gas Emissions																				
Run Exh	0.06	9.17	0.02	9.24	0.09	7.90	0.04	8.04	0.25	3.07	0.33	3.65	0.01	0.74	0.76	4.88	5.64	2.36	3.72	32.66
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.01	0.18	0.00	0.08	0.08	0.99	1.07	0.00	0.00	1.24
Start Ex	0.01	7.94	0.00	7.95	0.01	5.61	0.00	5.62	0.04	3.49	0.00	3.52	0.04	1.62	1.66	0.00	1.66	0.10	0.75	19.60
Total Ex	0.07	17.10	0.02	17.19	0.10	13.51	0.04	13.66	0.29	6.73	0.34	7.35	0.06	2.44	2.49	5.87	8.37	2.46	4.47	53.50
Diurnal	0.01	5.98	0.00	6.00	0.01	4.07	0.00	4.09	0.00	1.09	0.00	1.09	0.00	0.02	0.02	0.00	0.02	0.00	0.50	11.69
Hot Soak	0.01	5.03	0.00	5.04	0.02	3.33	0.00	3.34	0.00	1.02	0.00	1.02	0.00	0.08	0.09	0.00	0.09	0.01	0.11	9.61
Running	0.05	14.56	0.00	14.60	0.03	17.88	0.00	17.91	0.01	9.57	0.00	9.58	0.02	4.06	4.09	0.00	4.09	0.09	0.44	46.70
Resting	0.01	4.41	0.00	4.42	0.01	3.13	0.00	3.14	0.00	0.84	0.00	0.84	0.00	0.01	0.01	0.00	0.01	0.00	0.23	8.64
Total	0.15	47.08	0.02	47.25	0.17	41.92	0.04	42.14	0.31	19.24	0.34	19.89	0.08	6.61	6.70	5.87	12.57	2.56	5.75	130.15
Carbon Monoxide Emissions																				
Run Exh	0.87	354.10	0.06	355.03	2.43	301.93	0.26	304.61	4.12	87.88	1.65	93.65	0.37	16.46	16.83	28.71	45.55	13.67	30.44	842.94
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.04	1.09	0.00	0.46	0.46	5.91	6.38	0.00	0.00	7.46
Start Ex	0.10	97.85	0.00	97.95	0.18	72.28	0.00	72.46	0.38	35.86	0.00	36.25	0.45	24.67	25.13	0.00	25.13	1.27	3.63	236.68
Total Ex	0.96	451.95	0.06	452.98	2.60	374.21	0.26	377.07	4.50	124.79	1.69	130.98	0.83	41.59	42.42	34.62	77.05	14.94	34.07	1087.08
Oxides of Nitrogen Emissions																				
Run Exh	0.07	24.86	0.10	25.03	0.11	26.24	0.51	26.86	0.20	10.78	4.48	15.46	0.01	3.19	3.20	65.37	68.57	14.27	1.52	151.70
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.13	0.14	0.00	0.00	0.00	18.14	18.14	0.00	0.00	18.28
Start Ex	0.01	6.56	0.00	6.57	0.01	6.12	0.00	6.13	0.01	9.17	0.00	9.18	0.01	3.76	3.77	0.00	3.77	0.18	0.12	25.94
Total Ex	0.07	31.42	0.10	31.59	0.12	32.36	0.51	32.99	0.22	19.96	4.61	24.78	0.02	6.95	6.97	83.50	90.47	14.45	1.64	195.92
Carbon Dioxide Emissions (000)																				
Run Exh	0.01	120.89	0.03	120.93	0.02	73.06	0.14	73.22	0.02	25.75	1.17	26.95	0.00	2.00	2.00	49.92	51.92	2.78	0.25	276.04
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.04	0.00	0.02	0.02	0.92	0.94	0.00	0.00	0.98
Start Ex	0.00	3.82	0.00	3.82	0.00	2.30	0.00	2.30	0.00	0.91	0.00	0.91	0.00	0.06	0.07	0.00	0.07	0.00	0.02	7.12
Total Ex	0.01	124.71	0.03	124.75	0.02	75.36	0.14	75.52	0.02	26.70	1.18	27.90	0.00	2.08	2.09	50.84	52.92	2.78	0.27	284.14
PM10 Emissions																				
Run Exh	0.00	4.07	0.01	4.08	0.00	3.61	0.02	3.64	0.00	1.11	0.07	1.18	0.00	0.02	0.02	2.43	2.45	0.24	0.03	11.62
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.00	0.00	0.24
Start Ex	0.00	0.34	0.00	0.34	0.00	0.30	0.00	0.30	0.00	0.10	0.00	0.10	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.75
Total Ex	0.00	4.41	0.01	4.42	0.00	3.91	0.02	3.93	0.00	1.21	0.07	1.28	0.00	0.03	0.03	2.67	2.70	0.24	0.03	12.61
TireWear	0.00	2.33	0.00	2.33	0.00	1.11	0.00	1.12	0.00	0.31	0.03	0.34	0.00	0.04	0.04	0.74	0.78	0.02	0.01	4.59
BrakeWr	0.00	3.66	0.00	3.66	0.00	1.75	0.01	1.75	0.00	0.46	0.03	0.49	0.00	0.04	0.04	0.31	0.35	0.02	0.02	6.29
Total	0.00	10.40	0.01	10.41	0.00	6.77	0.03	6.80	0.00	1.98	0.13	2.11	0.00	0.11	0.11	3.73	3.84	0.28	0.06	23.49
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.00	1.20	0.00	1.20	0.00	0.73	0.00	0.73	0.00	0.26	0.01	0.27	0.00	0.02	0.02	0.49	0.51	0.03	0.00	2.74
Fuel Consumption (000 gallons)																				
Gasoline	1.41	12846.36	0.00	12847.76	2.70	7780.73	0.00	7783.43	2.95	2755.74	0.00	2758.69	0.46	220.83	221.28	0.00	221.28	62.80	34.19	23708.16
Diesel	0.00	0.00	2.59	2.59	0.00	0.00	12.46	12.46	0.00	0.00	106.07	106.07	0.00	0.00	0.00	4575.44	4575.44	197.51	0.00	4894.07

Table E-15  
2020 Winter Planning Emissions in tons/day  
in South Coast Air Basin

	Light Duty Passenger Cars				Light Duty Trucks				Medium Duty Trucks				Heavy Duty Trucks			Total HD Trucks	Urban Buses	Motor-cycles	All Vehicles	
	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Diesel	Total	Non-cat	Cat	Total					
Vehicles	1300.	7875060.	3914.	7880270.	1503.	3797360.	13666.	3812530.	1065.	976851.	52032.	1029950.	254.	150151.	150405.	240208.	390613.	13553.	185469.	13312400.
VMT/1000	18.	264487.	73.	264577.	33.	126202.	362.	126597.	23.	32947.	2138.	35108.	3.	2936.	2938.	22598.	25537.	1490.	1378.	454687.
Trips	4972.	48878500.	18556.	48902100.	5776.	23332900.	77002.	23415700.	5632.	9549250.	586425.	10141300.	5299.	1605910.	1611210.	3649680.	5260890.	54213.	370902.	88145100.
Reactive Organic Gas Emissions																				
Run Exh	0.06	8.53	0.02	8.61	0.10	7.39	0.04	7.53	0.27	2.88	0.33	3.48	0.01	0.72	0.73	4.88	5.62	2.29	3.82	31.35
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.01	0.18	0.00	0.08	0.08	0.99	1.07	0.00	0.00	1.24
Start Ex	0.01	9.44	0.00	9.45	0.01	6.68	0.00	6.69	0.04	4.10	0.00	4.14	0.05	1.86	1.91	0.00	1.91	0.11	0.85	23.16
Total Ex	0.07	17.97	0.02	18.06	0.11	14.07	0.04	14.22	0.31	7.15	0.34	7.80	0.07	2.65	2.72	5.87	8.60	2.40	4.67	55.76
Diurnal	0.01	4.28	0.00	4.29	0.01	2.88	0.00	2.89	0.00	0.77	0.00	0.77	0.00	0.02	0.02	0.00	0.02	0.00	0.40	8.37
Hot Soak	0.01	6.84	0.00	6.86	0.02	4.46	0.00	4.48	0.01	1.39	0.00	1.40	0.00	0.12	0.12	0.00	0.12	0.01	0.15	13.02
Running	0.06	19.36	0.00	19.41	0.03	23.74	0.00	23.77	0.01	11.81	0.00	11.82	0.03	4.42	4.44	0.00	4.44	0.11	0.59	60.15
Resting	0.01	2.90	0.00	2.90	0.01	2.01	0.00	2.02	0.00	0.54	0.00	0.54	0.00	0.01	0.01	0.00	0.01	0.00	0.13	5.59
Total	0.16	51.35	0.02	51.52	0.18	47.16	0.04	47.38	0.34	21.67	0.34	22.34	0.10	7.21	7.31	5.87	13.18	2.53	5.94	142.89
Carbon Monoxide Emissions																				
Run Exh	0.88	315.52	0.06	316.46	2.55	271.65	0.26	274.46	4.34	79.37	1.65	85.36	0.41	16.01	16.41	28.71	45.13	13.42	31.80	766.63
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.04	1.09	0.00	0.46	0.46	5.91	6.38	0.00	0.00	7.46
Start Ex	0.10	126.18	0.00	126.28	0.18	93.33	0.00	93.51	0.39	46.09	0.00	46.47	0.45	31.11	31.56	0.00	31.56	1.52	4.14	303.48
Total Ex	0.98	441.69	0.06	442.74	2.73	364.98	0.26	367.97	4.73	126.51	1.69	132.92	0.86	47.58	48.43	34.62	83.06	14.94	35.94	1077.57
Oxides of Nitrogen Emissions																				
Run Exh	0.08	29.88	0.11	30.07	0.14	31.68	0.55	32.38	0.24	13.01	4.91	18.16	0.01	3.89	3.90	71.57	75.47	15.84	1.86	173.77
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.13	0.14	0.00	0.00	0.00	18.14	18.14	0.00	0.00	18.28
Start Ex	0.01	7.10	0.00	7.11	0.01	6.63	0.00	6.64	0.01	9.64	0.00	9.65	0.01	3.93	3.94	0.00	3.94	0.19	0.13	27.65
Total Ex	0.09	36.98	0.11	37.18	0.14	38.32	0.55	39.02	0.26	22.66	5.04	27.96	0.02	7.82	7.84	89.71	97.54	16.02	1.98	219.70
Carbon Dioxide Emissions (000)																				
Run Exh	0.01	112.15	0.03	112.19	0.02	67.79	0.14	67.95	0.02	24.24	1.17	25.44	0.00	2.00	2.00	49.92	51.92	2.78	0.25	260.52
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.04	0.00	0.02	0.02	0.92	0.94	0.00	0.00	0.98
Start Ex	0.00	3.82	0.00	3.82	0.00	2.30	0.00	2.30	0.00	0.91	0.00	0.91	0.00	0.06	0.07	0.00	0.07	0.00	0.02	7.12
Total Ex	0.01	115.97	0.03	116.01	0.02	70.09	0.14	70.25	0.02	25.19	1.18	26.39	0.00	2.08	2.09	50.84	52.92	2.78	0.27	268.62
PM10 Emissions																				
Run Exh	0.00	4.07	0.01	4.08	0.00	3.61	0.02	3.64	0.00	1.11	0.07	1.18	0.00	0.02	0.02	2.43	2.45	0.24	0.03	11.62
Idle Exh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.00	0.00	0.24
Start Ex	0.00	0.34	0.00	0.34	0.00	0.30	0.00	0.30	0.00	0.10	0.00	0.10	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.75
Total Ex	0.00	4.41	0.01	4.42	0.00	3.91	0.02	3.93	0.00	1.21	0.07	1.28	0.00	0.03	0.03	2.67	2.70	0.24	0.03	12.61
TireWear	0.00	2.33	0.00	2.33	0.00	1.11	0.00	1.12	0.00	0.31	0.03	0.34	0.00	0.04	0.04	0.74	0.78	0.02	0.01	4.59
BrakeWr	0.00	3.66	0.00	3.66	0.00	1.75	0.01	1.75	0.00	0.46	0.03	0.49	0.00	0.04	0.04	0.31	0.35	0.02	0.02	6.29
Total	0.00	10.40	0.01	10.41	0.00	6.77	0.03	6.80	0.00	1.98	0.13	2.11	0.00	0.11	0.11	3.73	3.84	0.28	0.06	23.49
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SOx	0.00	1.12	0.00	1.12	0.00	0.68	0.00	0.68	0.00	0.24	0.01	0.26	0.00	0.02	0.02	0.49	0.51	0.03	0.00	2.59
Fuel Consumption (000 gallons)																				
Gasoline	1.38	11950.03	0.00	11951.40	2.69	7239.97	0.00	7242.66	2.96	2601.52	0.00	2604.48	0.46	221.86	222.32	0.00	222.32	62.78	34.56	22118.21
Diesel	0.00	0.00	2.59	2.59	0.00	0.00	12.46	12.46	0.00	0.00	106.07	106.07	0.00	0.00	0.00	4575.44	4575.44	197.51	0.00	4894.07