

Appendix E

NOISE MODELING AND AIR QUALITY INPUT ASSUMPTIONS

This appendix includes information about the air quality modeling assumptions. Air quality model output reports are included for reference.

AIR QUALITY ANALYSIS METHODOLOGY

Air emissions occurring due to construction activity vary based on the project's duration and level of activity. Construction emissions occur mostly as exhaust products from the operation of construction equipment and vehicles, but can also occur as fugitive dust emissions from land disturbance during material staging, demolition, and movement. Evaporative emissions also result from asphalt paving operations. The type of construction equipment commonly used can be categorized as both off- and on-road equipment. Off-road equipment is normally used for earthwork, paving, demolition, and other on-site activities, while on-road equipment is typically used to transport and deliver supplies, material, and employees.

The equipment activity levels and vehicle parameters associated with the proposed improvements (i.e., horsepower, fuel type, expected hours of use) were estimated based on the expected construction schedule for the MRY improvements. Equipment/vehicle emission factors were developed using the CARB-approved emissions models OFFROAD2007 (for off-road equipment) and EMFAC2007 (for on-road equipment). The emission factors were applied to the schedule-specific equipment parameters to calculate the total level of emissions expected from equipment use.

Emission factors of 10 pounds per day per acre of land disturbed during site grading and 38 pounds per day per acre during excavation and earthmoving activities were used to estimate particulate matter (PM) and fugitive dust emissions that would result from unpaved land disturbance. These factors were obtained from the MBUAPCD 2008 CEQA Guidelines. For the purposes of this analysis, it was assumed that 25 percent of the documented project area would be disturbed on any given day; there would be an overall 75 percent control efficiency of fugitive emissions due to site watering and other mitigation; and that 36 percent of the total PM fugitive emissions are PM_{2.5}.

For asphalt paving, evaporative emissions of Volatile Organic Compounds (VOC) were estimated using guidance provided by the URBEMIS 2007 model, which included an emissions rate of 2.62 pounds of VOC per acre of asphalt laid per day.¹ This information was applied to the assumed area of roadway to be paved as a result of the construction.

Emission Inventories

The project-related construction emissions (expected to occur in the years 2011 and 2012) are presented in **Tables E1 and E2**. As shown in the year 2011, to implement the proposed improvements, construction-related activities are estimated to result in 1.4 tons of VOC, 10.8 tons of CO, 3.9 tons of NO_x, less than 0.01 tons of SO₂, 2.5 tons of PM₁₀, and 1.0 ton of PM_{2.5}. Of these emissions, 0.1 tons of PM is expected to be diesel particulate matter (DPM). Further, 403.4 metric tons of greenhouse gases (GHG), expressed as CO₂ equivalent, are expected to be emitted as a result of the construction activities.[1] As shown in the year 2012, construction activities are estimated to result in 3.3 tons of VOC, 24.7 tons of CO, 9.2 tons of NO_x, less than 0.01 tons of SO₂, 7.8 tons of PM₁₀, and 3.1 tons of PM_{2.5}. Of these emissions, 0.4 tons are expected to occur as DPM. Finally, year 2012 GHG emissions are estimated to be 1,043.1 metric tons of CO₂ equivalent emissions. The level of emissions is higher in the year 2012 because the level of construction activity is expected to be higher during that time.

TABLE E1
2011 Construction Emissions Inventory by Category

	2011 Emissions (tons)							
	VOC	CO	NO _x	SO ₂	PM ₁₀	PM _{2.5}	DPM	CO _{2e}
Off-Road Equipment	0.4	1.7	3.1	0.0	0.1	0.1	0.1	314.5
On-Road Equipment	0.9	9.0	0.8	0.0	0.0	0.0	0.0	88.9
Asphalt Paving	0.2	-	-	-	-	-	-	-
Fugitive Dust	-	-	-	-	2.4	0.9	-	-
Total	1.4	10.8	3.9	0.00	2.5	1.0	0.1	403.4

- = Not applicable

Source: KB Environmental Sciences, 2010.

¹ VOCs are O₃ precursor pollutants. In the presence of sunlight and at ground level, VOCs react with Nitrogen Oxides (NO_x) to form O₃.

In both construction years, on-road equipment is the largest source of VOC and CO emissions, off-road equipment is the largest source of NO_x and GHG emissions, and fugitive dust generation is the largest PM emission source.

TABLE E2
2012 Construction Emissions Inventory by Category

	2012 Emissions (tons)							
	VOC	CO	NO _x	SO ₂	PM ₁₀	PM _{2.5}	DPM	CO _{2e}
Off-Road Equipment	0.8	4.0	6.9	0.0	0.3	0.3	0.3	744.2
On-Road Equipment	2.0	20.7	2.4	0.0	0.1	0.1	0.0	298.8
Asphalt Paving	0.5	-	-	-	-	-	-	-
Fugitive Dust	-	-	-	-	7.4	2.7	-	-
Total	3.3	24.7	9.2	0.0	7.8	3.1	0.4	1,043.1

- = Not applicable

Source: KB Environmental Sciences, 2010.

Following are the modeling outputs generated from the OFFROAD2007 (for off-road equipment) and EMFAC2007 (for on-road equipment) emissions models.

CY	Season	Code	Desc	Fuel	MaxHP	Population	Evap Type	Total
2011	Annual	2260002006	Tampers/Rammers	G2	15	3.39E+03	Hot Soak	6.36E-03
2011	Annual	2260002006	Tampers/Rammers	G2	15	3.39E+03	Diurnal	3.91E-03
2011	Annual	2260002006	Tampers/Rammers	G2	15	3.39E+03	Resting	3.58E-03
2011	Annual	2260002006	Tampers/Rammers	G2	15	3.39E+03	Running	3.20E-03
2011	Annual	2260002009	Plate Compactors	G2	15	2.91E+02	Hot Soak	4.52E-04
2011	Annual	2260002009	Plate Compactors	G2	15	2.91E+02	Diurnal	2.41E-04
2011	Annual	2260002009	Plate Compactors	G2	15	2.91E+02	Resting	2.77E-04
2011	Annual	2260002009	Plate Compactors	G2	15	2.91E+02	Running	2.86E-04
2011	Annual	2265002003	Asphalt Pavers	G4	15	7.71E+01	Hot Soak	1.20E-04
2011	Annual	2265002003	Asphalt Pavers	G4	15	7.71E+01	Diurnal	6.27E-05
2011	Annual	2265002003	Asphalt Pavers	G4	15	7.71E+01	Resting	7.17E-05
2011	Annual	2265002003	Asphalt Pavers	G4	15	7.71E+01	Running	1.51E-04
2011	Annual	2265002003	Asphalt Pavers	G4	25	1.32E+02	Hot Soak	2.05E-04
2011	Annual	2265002003	Asphalt Pavers	G4	25	1.32E+02	Diurnal	1.32E-04
2011	Annual	2265002003	Asphalt Pavers	G4	25	1.32E+02	Resting	1.52E-04
2011	Annual	2265002003	Asphalt Pavers	G4	25	1.32E+02	Running	2.59E-04
2011	Annual	2265002003	Asphalt Pavers	G4	50	7.08E+01	Hot Soak	1.10E-03
2011	Annual	2265002003	Asphalt Pavers	G4	50	7.08E+01	Diurnal	1.03E-03
2011	Annual	2265002003	Asphalt Pavers	G4	50	7.08E+01	Resting	3.70E-04
2011	Annual	2265002003	Asphalt Pavers	G4	50	7.08E+01	Running	6.86E-04
2011	Annual	2265002003	Asphalt Pavers	G4	120	3.89E+01	Hot Soak	6.03E-04
2011	Annual	2265002003	Asphalt Pavers	G4	120	3.89E+01	Diurnal	5.66E-04
2011	Annual	2265002003	Asphalt Pavers	G4	120	3.89E+01	Resting	2.03E-04
2011	Annual	2265002003	Asphalt Pavers	G4	120	3.89E+01	Running	3.77E-04
2011	Annual	2265002006	Tampers/Rammers	G4	15	1.63E+02	Hot Soak	2.54E-04
2011	Annual	2265002006	Tampers/Rammers	G4	15	1.63E+02	Diurnal	1.37E-04
2011	Annual	2265002006	Tampers/Rammers	G4	15	1.63E+02	Resting	1.56E-04
2011	Annual	2265002006	Tampers/Rammers	G4	15	1.63E+02	Running	1.41E-04
2011	Annual	2265002009	Plate Compactors	G4	5	5.99E+03	Hot Soak	2.33E-02
2011	Annual	2265002009	Plate Compactors	G4	5	5.99E+03	Diurnal	2.98E-03
2011	Annual	2265002009	Plate Compactors	G4	5	5.99E+03	Resting	2.38E-03
2011	Annual	2265002009	Plate Compactors	G4	5	5.99E+03	Running	1.02E-02
2011	Annual	2265002009	Plate Compactors	G4	15	6.36E+03	Hot Soak	2.07E-02

2011	Annual	2265002009	Plate Compactors	G4	15	6.36E+03	Diurnal	1.63E-02
2011	Annual	2265002009	Plate Compactors	G4	15	6.36E+03	Resting	9.48E-03
2011	Annual	2265002009	Plate Compactors	G4	15	6.36E+03	Running	9.29E-03
2011	Annual	2265002015	Rollers	G4	5	6.67E+02	Hot Soak	2.59E-03
2011	Annual	2265002015	Rollers	G4	5	6.67E+02	Diurnal	3.42E-04
2011	Annual	2265002015	Rollers	G4	5	6.67E+02	Resting	2.92E-04
2011	Annual	2265002015	Rollers	G4	5	6.67E+02	Running	5.16E-04
2011	Annual	2265002015	Rollers	G4	15	1.08E+03	Hot Soak	1.68E-03
2011	Annual	2265002015	Rollers	G4	15	1.08E+03	Diurnal	8.18E-04
2011	Annual	2265002015	Rollers	G4	15	1.08E+03	Resting	9.36E-04
2011	Annual	2265002015	Rollers	G4	15	1.08E+03	Running	1.63E-03
2011	Annual	2265002015	Rollers	G4	25	7.29E+02	Hot Soak	1.13E-03
2011	Annual	2265002015	Rollers	G4	25	7.29E+02	Diurnal	7.41E-04
2011	Annual	2265002015	Rollers	G4	25	7.29E+02	Resting	8.47E-04
2011	Annual	2265002015	Rollers	G4	25	7.29E+02	Running	1.10E-03
2011	Annual	2265002015	Rollers	G4	50	4.98E+01	Hot Soak	7.74E-04
2011	Annual	2265002015	Rollers	G4	50	4.98E+01	Diurnal	7.07E-04
2011	Annual	2265002015	Rollers	G4	50	4.98E+01	Resting	2.52E-04
2011	Annual	2265002015	Rollers	G4	50	4.98E+01	Running	7.92E-04
2011	Annual	2265002015	Rollers	G4	120	9.37E+01	Hot Soak	1.45E-03
2011	Annual	2265002015	Rollers	G4	120	9.37E+01	Diurnal	1.33E-03
2011	Annual	2265002015	Rollers	G4	120	9.37E+01	Resting	4.73E-04
2011	Annual	2265002015	Rollers	G4	120	9.37E+01	Running	1.49E-03
2011	Annual	2265002021	Paving Equipment	G4	5	8.39E+03	Hot Soak	3.26E-02
2011	Annual	2265002021	Paving Equipment	G4	5	8.39E+03	Diurnal	4.18E-03
2011	Annual	2265002021	Paving Equipment	G4	5	8.39E+03	Resting	3.33E-03
2011	Annual	2265002021	Paving Equipment	G4	5	8.39E+03	Running	1.35E-02
2011	Annual	2265002021	Paving Equipment	G4	15	1.42E+04	Hot Soak	4.62E-02
2011	Annual	2265002021	Paving Equipment	G4	15	1.42E+04	Diurnal	3.63E-02
2011	Annual	2265002021	Paving Equipment	G4	15	1.42E+04	Resting	2.12E-02
2011	Annual	2265002021	Paving Equipment	G4	15	1.42E+04	Running	2.01E-02
2011	Annual	2265002021	Paving Equipment	G4	25	3.15E+02	Hot Soak	1.03E-03
2011	Annual	2265002021	Paving Equipment	G4	25	3.15E+02	Diurnal	8.62E-04
2011	Annual	2265002021	Paving Equipment	G4	25	3.15E+02	Resting	5.33E-04

2011 Annual	2265002021	Paving Equipment	G4	25	3.15E+02	Running	4.47E-04
2011 Annual	2265002021	Paving Equipment	G4	50	1.93E+02	Hot Soak	3.00E-03
2011 Annual	2265002021	Paving Equipment	G4	50	1.93E+02	Diurnal	2.90E-03
2011 Annual	2265002021	Paving Equipment	G4	50	1.93E+02	Resting	1.04E-03
2011 Annual	2265002021	Paving Equipment	G4	50	1.93E+02	Running	8.02E-04
2011 Annual	2265002021	Paving Equipment	G4	120	4.98E+01	Hot Soak	7.74E-04
2011 Annual	2265002021	Paving Equipment	G4	120	4.98E+01	Diurnal	7.49E-04
2011 Annual	2265002021	Paving Equipment	G4	120	4.98E+01	Resting	2.69E-04
2011 Annual	2265002021	Paving Equipment	G4	120	4.98E+01	Running	2.07E-04
2011 Annual	2265002024	Surfacing Equipment	G4	5	1.54E+03	Hot Soak	5.98E-03
2011 Annual	2265002024	Surfacing Equipment	G4	5	1.54E+03	Diurnal	7.63E-04
2011 Annual	2265002024	Surfacing Equipment	G4	5	1.54E+03	Resting	6.09E-04
2011 Annual	2265002024	Surfacing Equipment	G4	5	1.54E+03	Running	2.94E-03
2011 Annual	2265002024	Surfacing Equipment	G4	15	4.57E+03	Hot Soak	7.11E-03
2011 Annual	2265002024	Surfacing Equipment	G4	15	4.57E+03	Diurnal	3.67E-03
2011 Annual	2265002024	Surfacing Equipment	G4	15	4.57E+03	Resting	4.18E-03
2011 Annual	2265002024	Surfacing Equipment	G4	15	4.57E+03	Running	1.16E-02
2011 Annual	2265002024	Surfacing Equipment	G4	25	6.26E+01	Hot Soak	9.73E-05
2011 Annual	2265002024	Surfacing Equipment	G4	25	6.26E+01	Diurnal	6.21E-05
2011 Annual	2265002024	Surfacing Equipment	G4	25	6.26E+01	Resting	7.08E-05
2011 Annual	2265002024	Surfacing Equipment	G4	25	6.26E+01	Running	1.59E-04
2011 Annual	2265002027	Signal Boards	G4	5	1.90E+01	Hot Soak	7.38E-05
2011 Annual	2265002027	Signal Boards	G4	5	1.90E+01	Diurnal	9.52E-06
2011 Annual	2265002027	Signal Boards	G4	5	1.90E+01	Resting	7.59E-06
2011 Annual	2265002027	Signal Boards	G4	5	1.90E+01	Running	2.32E-05
2011 Annual	2265002027	Signal Boards	G4	15	1.35E+02	Hot Soak	2.10E-04
2011 Annual	2265002027	Signal Boards	G4	15	1.35E+02	Diurnal	1.12E-04
2011 Annual	2265002027	Signal Boards	G4	15	1.35E+02	Resting	1.28E-04
2011 Annual	2265002027	Signal Boards	G4	15	1.35E+02	Running	1.86E-04
2011 Annual	2265002030	Trenchers	G4	15	1.25E+03	Hot Soak	1.94E-03
2011 Annual	2265002030	Trenchers	G4	15	1.25E+03	Diurnal	1.01E-03
2011 Annual	2265002030	Trenchers	G4	15	1.25E+03	Resting	1.16E-03
2011 Annual	2265002030	Trenchers	G4	15	1.25E+03	Running	2.71E-03
2011 Annual	2265002030	Trenchers	G4	25	9.69E+02	Hot Soak	1.51E-03

2011 Annual	2265002030	Trenchers	G4	25	9.69E+02	Diurnal	9.69E-04
2011 Annual	2265002030	Trenchers	G4	25	9.69E+02	Resting	1.11E-03
2011 Annual	2265002030	Trenchers	G4	25	9.69E+02	Running	2.10E-03
2011 Annual	2265002030	Trenchers	G4	50	4.53E+02	Hot Soak	7.04E-03
2011 Annual	2265002030	Trenchers	G4	50	4.53E+02	Diurnal	6.60E-03
2011 Annual	2265002030	Trenchers	G4	50	4.53E+02	Resting	2.37E-03
2011 Annual	2265002030	Trenchers	G4	50	4.53E+02	Running	4.52E-03
2011 Annual	2265002030	Trenchers	G4	120	1.50E+02	Hot Soak	2.34E-03
2011 Annual	2265002030	Trenchers	G4	120	1.50E+02	Diurnal	2.19E-03
2011 Annual	2265002030	Trenchers	G4	120	1.50E+02	Resting	7.86E-04
2011 Annual	2265002030	Trenchers	G4	120	1.50E+02	Running	1.50E-03
2011 Annual	2265002033	Bore/Drill Rigs	G4	15	3.58E+01	Hot Soak	8.15E-05
2011 Annual	2265002033	Bore/Drill Rigs	G4	15	3.58E+01	Diurnal	6.65E-05
2011 Annual	2265002033	Bore/Drill Rigs	G4	15	3.58E+01	Resting	3.99E-05
2011 Annual	2265002033	Bore/Drill Rigs	G4	15	3.58E+01	Running	8.00E-05
2011 Annual	2265002033	Bore/Drill Rigs	G4	25	1.78E+02	Hot Soak	4.05E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	25	1.78E+02	Diurnal	3.30E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	25	1.78E+02	Resting	1.98E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	25	1.78E+02	Running	3.97E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	50	2.19E+01	Hot Soak	1.05E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	50	2.19E+01	Diurnal	1.31E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	50	2.19E+01	Resting	5.06E-05
2011 Annual	2265002033	Bore/Drill Rigs	G4	50	2.19E+01	Running	1.78E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	120	1.01E+02	Hot Soak	4.82E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	120	1.01E+02	Diurnal	6.00E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	120	1.01E+02	Resting	2.32E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	120	1.01E+02	Running	8.16E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	175	2.49E+01	Hot Soak	1.19E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	175	2.49E+01	Diurnal	1.49E-04
2011 Annual	2265002033	Bore/Drill Rigs	G4	175	2.49E+01	Resting	5.75E-05
2011 Annual	2265002033	Bore/Drill Rigs	G4	175	2.49E+01	Running	2.02E-04
2011 Annual	2265002039	Concrete/Industrial Saws	G4	5	6.56E+02	Hot Soak	2.55E-03
2011 Annual	2265002039	Concrete/Industrial Saws	G4	5	6.56E+02	Diurnal	2.85E-04
2011 Annual	2265002039	Concrete/Industrial Saws	G4	5	6.56E+02	Resting	3.26E-04

2011 Annual	2265002039	Concrete/Industrial Saws	G4	5	6.56E+02	Running	8.02E-04
2011 Annual	2265002039	Concrete/Industrial Saws	G4	15	2.95E+03	Hot Soak	4.59E-03
2011 Annual	2265002039	Concrete/Industrial Saws	G4	15	2.95E+03	Diurnal	1.66E-03
2011 Annual	2265002039	Concrete/Industrial Saws	G4	15	2.95E+03	Resting	1.90E-03
2011 Annual	2265002039	Concrete/Industrial Saws	G4	15	2.95E+03	Running	4.46E-03
2011 Annual	2265002039	Concrete/Industrial Saws	G4	25	9.23E+02	Hot Soak	1.44E-03
2011 Annual	2265002039	Concrete/Industrial Saws	G4	25	9.23E+02	Diurnal	5.20E-04
2011 Annual	2265002039	Concrete/Industrial Saws	G4	25	9.23E+02	Resting	5.96E-04
2011 Annual	2265002039	Concrete/Industrial Saws	G4	25	9.23E+02	Running	1.40E-03
2011 Annual	2265002039	Concrete/Industrial Saws	G4	50	8.17E+01	Hot Soak	1.27E-03
2011 Annual	2265002039	Concrete/Industrial Saws	G4	50	8.17E+01	Diurnal	1.16E-03
2011 Annual	2265002039	Concrete/Industrial Saws	G4	50	8.17E+01	Resting	4.13E-04
2011 Annual	2265002039	Concrete/Industrial Saws	G4	50	8.17E+01	Running	1.28E-03
2011 Annual	2265002039	Concrete/Industrial Saws	G4	120	4.68E+01	Hot Soak	7.27E-04
2011 Annual	2265002039	Concrete/Industrial Saws	G4	120	4.68E+01	Diurnal	6.65E-04
2011 Annual	2265002039	Concrete/Industrial Saws	G4	120	4.68E+01	Resting	2.37E-04
2011 Annual	2265002039	Concrete/Industrial Saws	G4	120	4.68E+01	Running	7.32E-04
2011 Annual	2265002042	Cement and Mortar Mixers	G4	5	1.19E+04	Hot Soak	4.63E-02
2011 Annual	2265002042	Cement and Mortar Mixers	G4	5	1.19E+04	Diurnal	6.09E-03
2011 Annual	2265002042	Cement and Mortar Mixers	G4	5	1.19E+04	Resting	5.20E-03
2011 Annual	2265002042	Cement and Mortar Mixers	G4	5	1.19E+04	Running	1.02E-02
2011 Annual	2265002042	Cement and Mortar Mixers	G4	15	2.02E+04	Hot Soak	2.07E-01
2011 Annual	2265002042	Cement and Mortar Mixers	G4	15	2.02E+04	Diurnal	1.96E-01
2011 Annual	2265002042	Cement and Mortar Mixers	G4	15	2.02E+04	Resting	7.43E-02
2011 Annual	2265002042	Cement and Mortar Mixers	G4	15	2.02E+04	Running	3.02E-02
2011 Annual	2265002042	Cement and Mortar Mixers	G4	25	8.50E+01	Hot Soak	8.71E-04
2011 Annual	2265002042	Cement and Mortar Mixers	G4	25	8.50E+01	Diurnal	8.27E-04
2011 Annual	2265002042	Cement and Mortar Mixers	G4	25	8.50E+01	Resting	3.13E-04
2011 Annual	2265002042	Cement and Mortar Mixers	G4	25	8.50E+01	Running	1.27E-04
2011 Annual	2265002045	Cranes	G4	50	2.49E+01	Hot Soak	3.87E-04
2011 Annual	2265002045	Cranes	G4	50	2.49E+01	Diurnal	3.62E-04
2011 Annual	2265002045	Cranes	G4	50	2.49E+01	Resting	1.30E-04
2011 Annual	2265002045	Cranes	G4	50	2.49E+01	Running	2.57E-04
2011 Annual	2265002045	Cranes	G4	120	4.98E+01	Hot Soak	7.74E-04

2011 Annual	2265002045	Cranes	G4	120	4.98E+01	Diurnal	7.24E-04
2011 Annual	2265002045	Cranes	G4	120	4.98E+01	Resting	2.60E-04
2011 Annual	2265002045	Cranes	G4	120	4.98E+01	Running	5.14E-04
2011 Annual	2265002045	Cranes	G4	175	1.99E+00	Hot Soak	3.09E-05
2011 Annual	2265002045	Cranes	G4	175	1.99E+00	Diurnal	2.90E-05
2011 Annual	2265002045	Cranes	G4	175	1.99E+00	Resting	1.04E-05
2011 Annual	2265002045	Cranes	G4	175	1.99E+00	Running	2.05E-05
2011 Annual	2265002054	Crushing/Proc. Equipment	G4	15	3.24E+01	Hot Soak	5.04E-05
2011 Annual	2265002054	Crushing/Proc. Equipment	G4	15	3.24E+01	Diurnal	2.15E-05
2011 Annual	2265002054	Crushing/Proc. Equipment	G4	15	3.24E+01	Resting	2.46E-05
2011 Annual	2265002054	Crushing/Proc. Equipment	G4	15	3.24E+01	Running	4.55E-05
2011 Annual	2265002054	Crushing/Proc. Equipment	G4	25	2.12E+01	Hot Soak	3.30E-05
2011 Annual	2265002054	Crushing/Proc. Equipment	G4	25	2.12E+01	Diurnal	1.41E-05
2011 Annual	2265002054	Crushing/Proc. Equipment	G4	25	2.12E+01	Resting	1.61E-05
2011 Annual	2265002054	Crushing/Proc. Equipment	G4	25	2.12E+01	Running	2.98E-05
2011 Annual	2265002054	Crushing/Proc. Equipment	G4	120	2.89E+01	Hot Soak	4.49E-04
2011 Annual	2265002054	Crushing/Proc. Equipment	G4	120	2.89E+01	Diurnal	4.30E-04
2011 Annual	2265002054	Crushing/Proc. Equipment	G4	120	2.89E+01	Resting	1.54E-04
2011 Annual	2265002054	Crushing/Proc. Equipment	G4	120	2.89E+01	Running	1.67E-04
2011 Annual	2265002057	Rough Terrain Forklifts	G4	50	9.97E+00	Hot Soak	1.55E-04
2011 Annual	2265002057	Rough Terrain Forklifts	G4	50	9.97E+00	Diurnal	1.45E-04
2011 Annual	2265002057	Rough Terrain Forklifts	G4	50	9.97E+00	Resting	5.20E-05
2011 Annual	2265002057	Rough Terrain Forklifts	G4	50	9.97E+00	Running	1.02E-04
2011 Annual	2265002057	Rough Terrain Forklifts	G4	120	1.42E+02	Hot Soak	2.20E-03
2011 Annual	2265002057	Rough Terrain Forklifts	G4	120	1.42E+02	Diurnal	2.06E-03
2011 Annual	2265002057	Rough Terrain Forklifts	G4	120	1.42E+02	Resting	7.38E-04
2011 Annual	2265002057	Rough Terrain Forklifts	G4	120	1.42E+02	Running	1.45E-03
2011 Annual	2265002057	Rough Terrain Forklifts	G4	175	4.98E+00	Hot Soak	7.74E-05
2011 Annual	2265002057	Rough Terrain Forklifts	G4	175	4.98E+00	Diurnal	7.24E-05
2011 Annual	2265002057	Rough Terrain Forklifts	G4	175	4.98E+00	Resting	2.60E-05
2011 Annual	2265002057	Rough Terrain Forklifts	G4	175	4.98E+00	Running	5.11E-05
2011 Annual	2265002060	Rubber Tired Loaders	G4	50	2.49E+01	Hot Soak	3.87E-04
2011 Annual	2265002060	Rubber Tired Loaders	G4	50	2.49E+01	Diurnal	3.58E-04
2011 Annual	2265002060	Rubber Tired Loaders	G4	50	2.49E+01	Resting	1.28E-04

2011 Annual	2265002060	Rubber Tired Loaders	G4	50	2.49E+01	Running	3.23E-04
2011 Annual	2265002060	Rubber Tired Loaders	G4	120	1.65E+02	Hot Soak	2.57E-03
2011 Annual	2265002060	Rubber Tired Loaders	G4	120	1.65E+02	Diurnal	2.38E-03
2011 Annual	2265002060	Rubber Tired Loaders	G4	120	1.65E+02	Resting	8.50E-04
2011 Annual	2265002060	Rubber Tired Loaders	G4	120	1.65E+02	Running	2.14E-03
2011 Annual	2265002066	Tractors/Loaders/Backhoes	G4	120	8.77E+01	Hot Soak	1.36E-03
2011 Annual	2265002066	Tractors/Loaders/Backhoes	G4	120	8.77E+01	Diurnal	1.21E-03
2011 Annual	2265002066	Tractors/Loaders/Backhoes	G4	120	8.77E+01	Resting	4.25E-04
2011 Annual	2265002066	Tractors/Loaders/Backhoes	G4	120	8.77E+01	Running	1.95E-03
2011 Annual	2265002072	Skid Steer Loaders	G4	15	6.37E+01	Hot Soak	1.19E-04
2011 Annual	2265002072	Skid Steer Loaders	G4	15	6.37E+01	Diurnal	6.26E-05
2011 Annual	2265002072	Skid Steer Loaders	G4	15	6.37E+01	Resting	5.47E-05
2011 Annual	2265002072	Skid Steer Loaders	G4	15	6.37E+01	Running	1.08E-04
2011 Annual	2265002072	Skid Steer Loaders	G4	25	4.26E+03	Hot Soak	7.98E-03
2011 Annual	2265002072	Skid Steer Loaders	G4	25	4.26E+03	Diurnal	4.59E-03
2011 Annual	2265002072	Skid Steer Loaders	G4	25	4.26E+03	Resting	4.12E-03
2011 Annual	2265002072	Skid Steer Loaders	G4	25	4.26E+03	Running	7.24E-03
2011 Annual	2265002072	Skid Steer Loaders	G4	50	6.80E+02	Hot Soak	1.06E-02
2011 Annual	2265002072	Skid Steer Loaders	G4	50	6.80E+02	Diurnal	1.00E-02
2011 Annual	2265002072	Skid Steer Loaders	G4	50	6.80E+02	Resting	3.60E-03
2011 Annual	2265002072	Skid Steer Loaders	G4	50	6.80E+02	Running	5.13E-03
2011 Annual	2265002072	Skid Steer Loaders	G4	120	4.07E+02	Hot Soak	6.31E-03
2011 Annual	2265002072	Skid Steer Loaders	G4	120	4.07E+02	Diurnal	5.99E-03
2011 Annual	2265002072	Skid Steer Loaders	G4	120	4.07E+02	Resting	2.15E-03
2011 Annual	2265002072	Skid Steer Loaders	G4	120	4.07E+02	Running	3.07E-03
2011 Annual	2265002078	Dumpers/Tenders	G4	5	6.08E+02	Hot Soak	2.36E-03
2011 Annual	2265002078	Dumpers/Tenders	G4	5	6.08E+02	Diurnal	3.08E-04
2011 Annual	2265002078	Dumpers/Tenders	G4	5	6.08E+02	Resting	2.63E-04
2011 Annual	2265002078	Dumpers/Tenders	G4	5	6.08E+02	Running	8.55E-04
2011 Annual	2265002078	Dumpers/Tenders	G4	15	1.30E+03	Hot Soak	1.21E-02
2011 Annual	2265002078	Dumpers/Tenders	G4	15	1.30E+03	Diurnal	1.12E-02
2011 Annual	2265002078	Dumpers/Tenders	G4	15	1.30E+03	Resting	4.33E-03
2011 Annual	2265002078	Dumpers/Tenders	G4	15	1.30E+03	Running	2.93E-03
2011 Annual	2265002078	Dumpers/Tenders	G4	25	2.40E+02	Hot Soak	2.24E-03

2011 Annual	2265002078	Dumpers/Tenders	G4	25	2.40E+02	Diurnal	2.08E-03
2011 Annual	2265002078	Dumpers/Tenders	G4	25	2.40E+02	Resting	8.02E-04
2011 Annual	2265002078	Dumpers/Tenders	G4	25	2.40E+02	Running	5.43E-04
2011 Annual	2265002078	Dumpers/Tenders	G4	120	1.79E+01	Hot Soak	2.79E-04
2011 Annual	2265002078	Dumpers/Tenders	G4	120	1.79E+01	Diurnal	2.71E-04
2011 Annual	2265002078	Dumpers/Tenders	G4	120	1.79E+01	Resting	9.73E-05
2011 Annual	2265002078	Dumpers/Tenders	G4	120	1.79E+01	Running	5.35E-05
2011 Annual	2265002081	Other Construction Equipment	G4	175	6.98E+01	Hot Soak	1.08E-03
2011 Annual	2265002081	Other Construction Equipment	G4	175	6.98E+01	Diurnal	1.02E-03
2011 Annual	2265002081	Other Construction Equipment	G4	175	6.98E+01	Resting	3.66E-04
2011 Annual	2265002081	Other Construction Equipment	G4	175	6.98E+01	Running	6.37E-04

CY	Season	Code	Desc	Fuel	MaxHP	Population	Evap Type	Total
2012	Annual	2260002006	Tampers/Rammers	G2	15	3.40E+03	Hot Soak	5.52E-03
2012	Annual	2260002006	Tampers/Rammers	G2	15	3.40E+03	Diurnal	3.06E-03
2012	Annual	2260002006	Tampers/Rammers	G2	15	3.40E+03	Resting	3.32E-03
2012	Annual	2260002006	Tampers/Rammers	G2	15	3.40E+03	Running	3.00E-03
2012	Annual	2260002009	Plate Compactors	G2	15	2.92E+02	Hot Soak	4.54E-04
2012	Annual	2260002009	Plate Compactors	G2	15	2.92E+02	Diurnal	2.42E-04
2012	Annual	2260002009	Plate Compactors	G2	15	2.92E+02	Resting	2.78E-04
2012	Annual	2260002009	Plate Compactors	G2	15	2.92E+02	Running	2.87E-04
2012	Annual	2265002003	Asphalt Pavers	G4	15	7.75E+01	Hot Soak	1.20E-04
2012	Annual	2265002003	Asphalt Pavers	G4	15	7.75E+01	Diurnal	6.29E-05
2012	Annual	2265002003	Asphalt Pavers	G4	15	7.75E+01	Resting	7.20E-05
2012	Annual	2265002003	Asphalt Pavers	G4	15	7.75E+01	Running	1.52E-04
2012	Annual	2265002003	Asphalt Pavers	G4	25	1.32E+02	Hot Soak	2.06E-04
2012	Annual	2265002003	Asphalt Pavers	G4	25	1.32E+02	Diurnal	1.33E-04
2012	Annual	2265002003	Asphalt Pavers	G4	25	1.32E+02	Resting	1.52E-04
2012	Annual	2265002003	Asphalt Pavers	G4	25	1.32E+02	Running	2.60E-04
2012	Annual	2265002003	Asphalt Pavers	G4	50	7.07E+01	Hot Soak	1.10E-03
2012	Annual	2265002003	Asphalt Pavers	G4	50	7.07E+01	Diurnal	1.03E-03
2012	Annual	2265002003	Asphalt Pavers	G4	50	7.07E+01	Resting	3.70E-04
2012	Annual	2265002003	Asphalt Pavers	G4	50	7.07E+01	Running	6.86E-04
2012	Annual	2265002003	Asphalt Pavers	G4	120	3.89E+01	Hot Soak	6.03E-04
2012	Annual	2265002003	Asphalt Pavers	G4	120	3.89E+01	Diurnal	5.66E-04
2012	Annual	2265002003	Asphalt Pavers	G4	120	3.89E+01	Resting	2.03E-04
2012	Annual	2265002003	Asphalt Pavers	G4	120	3.89E+01	Running	3.77E-04
2012	Annual	2265002006	Tampers/Rammers	G4	15	1.64E+02	Hot Soak	2.55E-04
2012	Annual	2265002006	Tampers/Rammers	G4	15	1.64E+02	Diurnal	1.37E-04
2012	Annual	2265002006	Tampers/Rammers	G4	15	1.64E+02	Resting	1.57E-04
2012	Annual	2265002006	Tampers/Rammers	G4	15	1.64E+02	Running	1.42E-04
2012	Annual	2265002009	Plate Compactors	G4	5	6.02E+03	Hot Soak	2.34E-02
2012	Annual	2265002009	Plate Compactors	G4	5	6.02E+03	Diurnal	2.98E-03
2012	Annual	2265002009	Plate Compactors	G4	5	6.02E+03	Resting	2.38E-03
2012	Annual	2265002009	Plate Compactors	G4	5	6.02E+03	Running	1.03E-02
2012	Annual	2265002009	Plate Compactors	G4	15	6.38E+03	Hot Soak	1.68E-02

2012	Annual	2265002009	Plate Compactors	G4	15	6.38E+03	Diurnal	1.23E-02
2012	Annual	2265002009	Plate Compactors	G4	15	6.38E+03	Resting	8.26E-03
2012	Annual	2265002009	Plate Compactors	G4	15	6.38E+03	Running	8.21E-03
2012	Annual	2265002015	Rollers	G4	5	6.70E+02	Hot Soak	2.60E-03
2012	Annual	2265002015	Rollers	G4	5	6.70E+02	Diurnal	3.39E-04
2012	Annual	2265002015	Rollers	G4	5	6.70E+02	Resting	2.90E-04
2012	Annual	2265002015	Rollers	G4	5	6.70E+02	Running	5.18E-04
2012	Annual	2265002015	Rollers	G4	15	1.08E+03	Hot Soak	1.69E-03
2012	Annual	2265002015	Rollers	G4	15	1.08E+03	Diurnal	8.21E-04
2012	Annual	2265002015	Rollers	G4	15	1.08E+03	Resting	9.40E-04
2012	Annual	2265002015	Rollers	G4	15	1.08E+03	Running	1.64E-03
2012	Annual	2265002015	Rollers	G4	25	7.32E+02	Hot Soak	1.14E-03
2012	Annual	2265002015	Rollers	G4	25	7.32E+02	Diurnal	7.44E-04
2012	Annual	2265002015	Rollers	G4	25	7.32E+02	Resting	8.51E-04
2012	Annual	2265002015	Rollers	G4	25	7.32E+02	Running	1.11E-03
2012	Annual	2265002015	Rollers	G4	50	4.98E+01	Hot Soak	7.73E-04
2012	Annual	2265002015	Rollers	G4	50	4.98E+01	Diurnal	7.07E-04
2012	Annual	2265002015	Rollers	G4	50	4.98E+01	Resting	2.52E-04
2012	Annual	2265002015	Rollers	G4	50	4.98E+01	Running	7.92E-04
2012	Annual	2265002015	Rollers	G4	120	9.36E+01	Hot Soak	1.45E-03
2012	Annual	2265002015	Rollers	G4	120	9.36E+01	Diurnal	1.33E-03
2012	Annual	2265002015	Rollers	G4	120	9.36E+01	Resting	4.73E-04
2012	Annual	2265002015	Rollers	G4	120	9.36E+01	Running	1.49E-03
2012	Annual	2265002021	Paving Equipment	G4	5	8.42E+03	Hot Soak	3.27E-02
2012	Annual	2265002021	Paving Equipment	G4	5	8.42E+03	Diurnal	4.18E-03
2012	Annual	2265002021	Paving Equipment	G4	5	8.42E+03	Resting	3.34E-03
2012	Annual	2265002021	Paving Equipment	G4	5	8.42E+03	Running	1.36E-02
2012	Annual	2265002021	Paving Equipment	G4	15	1.42E+04	Hot Soak	3.75E-02
2012	Annual	2265002021	Paving Equipment	G4	15	1.42E+04	Diurnal	2.74E-02
2012	Annual	2265002021	Paving Equipment	G4	15	1.42E+04	Resting	1.84E-02
2012	Annual	2265002021	Paving Equipment	G4	15	1.42E+04	Running	1.78E-02
2012	Annual	2265002021	Paving Equipment	G4	25	3.17E+02	Hot Soak	8.33E-04
2012	Annual	2265002021	Paving Equipment	G4	25	3.17E+02	Diurnal	6.67E-04
2012	Annual	2265002021	Paving Equipment	G4	25	3.17E+02	Resting	4.76E-04

2012 Annual	2265002021	Paving Equipment	G4	25	3.17E+02	Running	3.95E-04
2012 Annual	2265002021	Paving Equipment	G4	50	1.93E+02	Hot Soak	3.00E-03
2012 Annual	2265002021	Paving Equipment	G4	50	1.93E+02	Diurnal	2.90E-03
2012 Annual	2265002021	Paving Equipment	G4	50	1.93E+02	Resting	1.04E-03
2012 Annual	2265002021	Paving Equipment	G4	50	1.93E+02	Running	8.02E-04
2012 Annual	2265002021	Paving Equipment	G4	120	4.98E+01	Hot Soak	7.73E-04
2012 Annual	2265002021	Paving Equipment	G4	120	4.98E+01	Diurnal	7.48E-04
2012 Annual	2265002021	Paving Equipment	G4	120	4.98E+01	Resting	2.69E-04
2012 Annual	2265002021	Paving Equipment	G4	120	4.98E+01	Running	2.07E-04
2012 Annual	2265002024	Surfacing Equipment	G4	5	1.55E+03	Hot Soak	6.01E-03
2012 Annual	2265002024	Surfacing Equipment	G4	5	1.55E+03	Diurnal	7.64E-04
2012 Annual	2265002024	Surfacing Equipment	G4	5	1.55E+03	Resting	6.10E-04
2012 Annual	2265002024	Surfacing Equipment	G4	5	1.55E+03	Running	2.95E-03
2012 Annual	2265002024	Surfacing Equipment	G4	15	4.59E+03	Hot Soak	7.14E-03
2012 Annual	2265002024	Surfacing Equipment	G4	15	4.59E+03	Diurnal	3.69E-03
2012 Annual	2265002024	Surfacing Equipment	G4	15	4.59E+03	Resting	4.20E-03
2012 Annual	2265002024	Surfacing Equipment	G4	15	4.59E+03	Running	1.17E-02
2012 Annual	2265002024	Surfacing Equipment	G4	25	6.29E+01	Hot Soak	9.77E-05
2012 Annual	2265002024	Surfacing Equipment	G4	25	6.29E+01	Diurnal	6.23E-05
2012 Annual	2265002024	Surfacing Equipment	G4	25	6.29E+01	Resting	7.11E-05
2012 Annual	2265002024	Surfacing Equipment	G4	25	6.29E+01	Running	1.60E-04
2012 Annual	2265002027	Signal Boards	G4	5	1.91E+01	Hot Soak	7.42E-05
2012 Annual	2265002027	Signal Boards	G4	5	1.91E+01	Diurnal	9.52E-06
2012 Annual	2265002027	Signal Boards	G4	5	1.91E+01	Resting	7.60E-06
2012 Annual	2265002027	Signal Boards	G4	5	1.91E+01	Running	2.33E-05
2012 Annual	2265002027	Signal Boards	G4	15	1.36E+02	Hot Soak	2.11E-04
2012 Annual	2265002027	Signal Boards	G4	15	1.36E+02	Diurnal	1.12E-04
2012 Annual	2265002027	Signal Boards	G4	15	1.36E+02	Resting	1.28E-04
2012 Annual	2265002027	Signal Boards	G4	15	1.36E+02	Running	1.87E-04
2012 Annual	2265002030	Trenchers	G4	15	1.26E+03	Hot Soak	1.95E-03
2012 Annual	2265002030	Trenchers	G4	15	1.26E+03	Diurnal	1.02E-03
2012 Annual	2265002030	Trenchers	G4	15	1.26E+03	Resting	1.16E-03
2012 Annual	2265002030	Trenchers	G4	15	1.26E+03	Running	2.72E-03
2012 Annual	2265002030	Trenchers	G4	25	9.73E+02	Hot Soak	1.51E-03

2012 Annual	2265002030	Trenchers	G4	25	9.73E+02	Diurnal	9.73E-04
2012 Annual	2265002030	Trenchers	G4	25	9.73E+02	Resting	1.11E-03
2012 Annual	2265002030	Trenchers	G4	25	9.73E+02	Running	2.11E-03
2012 Annual	2265002030	Trenchers	G4	50	4.53E+02	Hot Soak	7.04E-03
2012 Annual	2265002030	Trenchers	G4	50	4.53E+02	Diurnal	6.60E-03
2012 Annual	2265002030	Trenchers	G4	50	4.53E+02	Resting	2.37E-03
2012 Annual	2265002030	Trenchers	G4	50	4.53E+02	Running	4.51E-03
2012 Annual	2265002030	Trenchers	G4	120	1.50E+02	Hot Soak	2.34E-03
2012 Annual	2265002030	Trenchers	G4	120	1.50E+02	Diurnal	2.19E-03
2012 Annual	2265002030	Trenchers	G4	120	1.50E+02	Resting	7.86E-04
2012 Annual	2265002030	Trenchers	G4	120	1.50E+02	Running	1.50E-03
2012 Annual	2265002033	Bore/Drill Rigs	G4	15	3.59E+01	Hot Soak	7.00E-05
2012 Annual	2265002033	Bore/Drill Rigs	G4	15	3.59E+01	Diurnal	4.74E-05
2012 Annual	2265002033	Bore/Drill Rigs	G4	15	3.59E+01	Resting	3.45E-05
2012 Annual	2265002033	Bore/Drill Rigs	G4	15	3.59E+01	Running	5.79E-05
2012 Annual	2265002033	Bore/Drill Rigs	G4	25	1.79E+02	Hot Soak	3.48E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	25	1.79E+02	Diurnal	2.36E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	25	1.79E+02	Resting	1.71E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	25	1.79E+02	Running	2.88E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	50	2.19E+01	Hot Soak	1.05E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	50	2.19E+01	Diurnal	1.31E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	50	2.19E+01	Resting	5.06E-05
2012 Annual	2265002033	Bore/Drill Rigs	G4	50	2.19E+01	Running	1.83E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	120	1.01E+02	Hot Soak	4.82E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	120	1.01E+02	Diurnal	6.00E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	120	1.01E+02	Resting	2.32E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	120	1.01E+02	Running	8.40E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	175	2.49E+01	Hot Soak	1.19E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	175	2.49E+01	Diurnal	1.49E-04
2012 Annual	2265002033	Bore/Drill Rigs	G4	175	2.49E+01	Resting	5.75E-05
2012 Annual	2265002033	Bore/Drill Rigs	G4	175	2.49E+01	Running	2.08E-04
2012 Annual	2265002039	Concrete/Industrial Saws	G4	5	6.59E+02	Hot Soak	2.56E-03
2012 Annual	2265002039	Concrete/Industrial Saws	G4	5	6.59E+02	Diurnal	2.85E-04
2012 Annual	2265002039	Concrete/Industrial Saws	G4	5	6.59E+02	Resting	3.26E-04

2012 Annual	2265002039	Concrete/Industrial Saws	G4	5	6.59E+02	Running	8.06E-04
2012 Annual	2265002039	Concrete/Industrial Saws	G4	15	2.96E+03	Hot Soak	4.61E-03
2012 Annual	2265002039	Concrete/Industrial Saws	G4	15	2.96E+03	Diurnal	1.67E-03
2012 Annual	2265002039	Concrete/Industrial Saws	G4	15	2.96E+03	Resting	1.91E-03
2012 Annual	2265002039	Concrete/Industrial Saws	G4	15	2.96E+03	Running	4.48E-03
2012 Annual	2265002039	Concrete/Industrial Saws	G4	25	9.27E+02	Hot Soak	1.44E-03
2012 Annual	2265002039	Concrete/Industrial Saws	G4	25	9.27E+02	Diurnal	5.23E-04
2012 Annual	2265002039	Concrete/Industrial Saws	G4	25	9.27E+02	Resting	5.98E-04
2012 Annual	2265002039	Concrete/Industrial Saws	G4	25	9.27E+02	Running	1.40E-03
2012 Annual	2265002039	Concrete/Industrial Saws	G4	50	8.17E+01	Hot Soak	1.27E-03
2012 Annual	2265002039	Concrete/Industrial Saws	G4	50	8.17E+01	Diurnal	1.16E-03
2012 Annual	2265002039	Concrete/Industrial Saws	G4	50	8.17E+01	Resting	4.13E-04
2012 Annual	2265002039	Concrete/Industrial Saws	G4	50	8.17E+01	Running	1.28E-03
2012 Annual	2265002039	Concrete/Industrial Saws	G4	120	4.68E+01	Hot Soak	7.27E-04
2012 Annual	2265002039	Concrete/Industrial Saws	G4	120	4.68E+01	Diurnal	6.65E-04
2012 Annual	2265002039	Concrete/Industrial Saws	G4	120	4.68E+01	Resting	2.37E-04
2012 Annual	2265002039	Concrete/Industrial Saws	G4	120	4.68E+01	Running	7.31E-04
2012 Annual	2265002042	Cement and Mortar Mixers	G4	5	1.20E+04	Hot Soak	4.65E-02
2012 Annual	2265002042	Cement and Mortar Mixers	G4	5	1.20E+04	Diurnal	6.05E-03
2012 Annual	2265002042	Cement and Mortar Mixers	G4	5	1.20E+04	Resting	5.16E-03
2012 Annual	2265002042	Cement and Mortar Mixers	G4	5	1.20E+04	Running	1.03E-02
2012 Annual	2265002042	Cement and Mortar Mixers	G4	15	2.03E+04	Hot Soak	1.85E-01
2012 Annual	2265002042	Cement and Mortar Mixers	G4	15	2.03E+04	Diurnal	1.74E-01
2012 Annual	2265002042	Cement and Mortar Mixers	G4	15	2.03E+04	Resting	6.71E-02
2012 Annual	2265002042	Cement and Mortar Mixers	G4	15	2.03E+04	Running	2.76E-02
2012 Annual	2265002042	Cement and Mortar Mixers	G4	25	8.53E+01	Hot Soak	7.79E-04
2012 Annual	2265002042	Cement and Mortar Mixers	G4	25	8.53E+01	Diurnal	7.31E-04
2012 Annual	2265002042	Cement and Mortar Mixers	G4	25	8.53E+01	Resting	2.82E-04
2012 Annual	2265002042	Cement and Mortar Mixers	G4	25	8.53E+01	Running	1.16E-04
2012 Annual	2265002045	Cranes	G4	50	2.49E+01	Hot Soak	3.87E-04
2012 Annual	2265002045	Cranes	G4	50	2.49E+01	Diurnal	3.62E-04
2012 Annual	2265002045	Cranes	G4	50	2.49E+01	Resting	1.30E-04
2012 Annual	2265002045	Cranes	G4	50	2.49E+01	Running	2.57E-04
2012 Annual	2265002045	Cranes	G4	120	4.98E+01	Hot Soak	7.73E-04

2012 Annual	2265002045	Cranes	G4	120	4.98E+01	Diurnal	7.24E-04
2012 Annual	2265002045	Cranes	G4	120	4.98E+01	Resting	2.60E-04
2012 Annual	2265002045	Cranes	G4	120	4.98E+01	Running	5.13E-04
2012 Annual	2265002045	Cranes	G4	175	1.99E+00	Hot Soak	3.09E-05
2012 Annual	2265002045	Cranes	G4	175	1.99E+00	Diurnal	2.90E-05
2012 Annual	2265002045	Cranes	G4	175	1.99E+00	Resting	1.04E-05
2012 Annual	2265002045	Cranes	G4	175	1.99E+00	Running	2.05E-05
2012 Annual	2265002054	Crushing/Proc. Equipment	G4	15	3.26E+01	Hot Soak	5.06E-05
2012 Annual	2265002054	Crushing/Proc. Equipment	G4	15	3.26E+01	Diurnal	2.16E-05
2012 Annual	2265002054	Crushing/Proc. Equipment	G4	15	3.26E+01	Resting	2.47E-05
2012 Annual	2265002054	Crushing/Proc. Equipment	G4	15	3.26E+01	Running	4.57E-05
2012 Annual	2265002054	Crushing/Proc. Equipment	G4	25	2.13E+01	Hot Soak	3.32E-05
2012 Annual	2265002054	Crushing/Proc. Equipment	G4	25	2.13E+01	Diurnal	1.41E-05
2012 Annual	2265002054	Crushing/Proc. Equipment	G4	25	2.13E+01	Resting	1.62E-05
2012 Annual	2265002054	Crushing/Proc. Equipment	G4	25	2.13E+01	Running	2.99E-05
2012 Annual	2265002054	Crushing/Proc. Equipment	G4	120	2.89E+01	Hot Soak	4.49E-04
2012 Annual	2265002054	Crushing/Proc. Equipment	G4	120	2.89E+01	Diurnal	4.30E-04
2012 Annual	2265002054	Crushing/Proc. Equipment	G4	120	2.89E+01	Resting	1.54E-04
2012 Annual	2265002054	Crushing/Proc. Equipment	G4	120	2.89E+01	Running	1.67E-04
2012 Annual	2265002057	Rough Terrain Forklifts	G4	50	9.96E+00	Hot Soak	1.55E-04
2012 Annual	2265002057	Rough Terrain Forklifts	G4	50	9.96E+00	Diurnal	1.45E-04
2012 Annual	2265002057	Rough Terrain Forklifts	G4	50	9.96E+00	Resting	5.20E-05
2012 Annual	2265002057	Rough Terrain Forklifts	G4	50	9.96E+00	Running	1.02E-04
2012 Annual	2265002057	Rough Terrain Forklifts	G4	120	1.41E+02	Hot Soak	2.20E-03
2012 Annual	2265002057	Rough Terrain Forklifts	G4	120	1.41E+02	Diurnal	2.06E-03
2012 Annual	2265002057	Rough Terrain Forklifts	G4	120	1.41E+02	Resting	7.38E-04
2012 Annual	2265002057	Rough Terrain Forklifts	G4	120	1.41E+02	Running	1.45E-03
2012 Annual	2265002057	Rough Terrain Forklifts	G4	175	4.98E+00	Hot Soak	7.73E-05
2012 Annual	2265002057	Rough Terrain Forklifts	G4	175	4.98E+00	Diurnal	7.24E-05
2012 Annual	2265002057	Rough Terrain Forklifts	G4	175	4.98E+00	Resting	2.60E-05
2012 Annual	2265002057	Rough Terrain Forklifts	G4	175	4.98E+00	Running	5.11E-05
2012 Annual	2265002060	Rubber Tired Loaders	G4	50	2.49E+01	Hot Soak	3.87E-04
2012 Annual	2265002060	Rubber Tired Loaders	G4	50	2.49E+01	Diurnal	3.58E-04
2012 Annual	2265002060	Rubber Tired Loaders	G4	50	2.49E+01	Resting	1.28E-04

2012 Annual	2265002060	Rubber Tired Loaders	G4	50	2.49E+01	Running	3.23E-04
2012 Annual	2265002060	Rubber Tired Loaders	G4	120	1.65E+02	Hot Soak	2.57E-03
2012 Annual	2265002060	Rubber Tired Loaders	G4	120	1.65E+02	Diurnal	2.38E-03
2012 Annual	2265002060	Rubber Tired Loaders	G4	120	1.65E+02	Resting	8.49E-04
2012 Annual	2265002060	Rubber Tired Loaders	G4	120	1.65E+02	Running	2.14E-03
2012 Annual	2265002066	Tractors/Loaders/Backhoes	G4	120	8.77E+01	Hot Soak	1.36E-03
2012 Annual	2265002066	Tractors/Loaders/Backhoes	G4	120	8.77E+01	Diurnal	1.21E-03
2012 Annual	2265002066	Tractors/Loaders/Backhoes	G4	120	8.77E+01	Resting	4.24E-04
2012 Annual	2265002066	Tractors/Loaders/Backhoes	G4	120	8.77E+01	Running	1.95E-03
2012 Annual	2265002072	Skid Steer Loaders	G4	15	6.40E+01	Hot Soak	1.04E-04
2012 Annual	2265002072	Skid Steer Loaders	G4	15	6.40E+01	Diurnal	4.66E-05
2012 Annual	2265002072	Skid Steer Loaders	G4	15	6.40E+01	Resting	4.97E-05
2012 Annual	2265002072	Skid Steer Loaders	G4	15	6.40E+01	Running	1.02E-04
2012 Annual	2265002072	Skid Steer Loaders	G4	25	4.28E+03	Hot Soak	6.94E-03
2012 Annual	2265002072	Skid Steer Loaders	G4	25	4.28E+03	Diurnal	3.53E-03
2012 Annual	2265002072	Skid Steer Loaders	G4	25	4.28E+03	Resting	3.80E-03
2012 Annual	2265002072	Skid Steer Loaders	G4	25	4.28E+03	Running	6.79E-03
2012 Annual	2265002072	Skid Steer Loaders	G4	50	6.79E+02	Hot Soak	1.06E-02
2012 Annual	2265002072	Skid Steer Loaders	G4	50	6.79E+02	Diurnal	1.00E-02
2012 Annual	2265002072	Skid Steer Loaders	G4	50	6.79E+02	Resting	3.60E-03
2012 Annual	2265002072	Skid Steer Loaders	G4	50	6.79E+02	Running	5.13E-03
2012 Annual	2265002072	Skid Steer Loaders	G4	120	4.06E+02	Hot Soak	6.31E-03
2012 Annual	2265002072	Skid Steer Loaders	G4	120	4.06E+02	Diurnal	5.99E-03
2012 Annual	2265002072	Skid Steer Loaders	G4	120	4.06E+02	Resting	2.15E-03
2012 Annual	2265002072	Skid Steer Loaders	G4	120	4.06E+02	Running	3.07E-03
2012 Annual	2265002078	Dumpers/Tenders	G4	5	6.11E+02	Hot Soak	2.37E-03
2012 Annual	2265002078	Dumpers/Tenders	G4	5	6.11E+02	Diurnal	3.06E-04
2012 Annual	2265002078	Dumpers/Tenders	G4	5	6.11E+02	Resting	2.62E-04
2012 Annual	2265002078	Dumpers/Tenders	G4	5	6.11E+02	Running	8.59E-04
2012 Annual	2265002078	Dumpers/Tenders	G4	15	1.30E+03	Hot Soak	1.06E-02
2012 Annual	2265002078	Dumpers/Tenders	G4	15	1.30E+03	Diurnal	9.73E-03
2012 Annual	2265002078	Dumpers/Tenders	G4	15	1.30E+03	Resting	3.85E-03
2012 Annual	2265002078	Dumpers/Tenders	G4	15	1.30E+03	Running	2.64E-03
2012 Annual	2265002078	Dumpers/Tenders	G4	25	2.41E+02	Hot Soak	1.96E-03

2012 Annual	2265002078	Dumpers/Tenders	G4	25	2.41E+02	Diurnal	1.80E-03
2012 Annual	2265002078	Dumpers/Tenders	G4	25	2.41E+02	Resting	7.13E-04
2012 Annual	2265002078	Dumpers/Tenders	G4	25	2.41E+02	Running	4.89E-04
2012 Annual	2265002078	Dumpers/Tenders	G4	120	1.79E+01	Hot Soak	2.78E-04
2012 Annual	2265002078	Dumpers/Tenders	G4	120	1.79E+01	Diurnal	2.71E-04
2012 Annual	2265002078	Dumpers/Tenders	G4	120	1.79E+01	Resting	9.73E-05
2012 Annual	2265002078	Dumpers/Tenders	G4	120	1.79E+01	Running	5.35E-05
2012 Annual	2265002081	Other Construction Equipment	G4	175	6.97E+01	Hot Soak	1.08E-03
2012 Annual	2265002081	Other Construction Equipment	G4	175	6.97E+01	Diurnal	1.02E-03
2012 Annual	2265002081	Other Construction Equipment	G4	175	6.97E+01	Resting	3.66E-04
2012 Annual	2265002081	Other Construction Equipment	G4	175	6.97E+01	Running	6.37E-04

2012 Annual	2270002075	Off-Highway Tractors	D	120	1.23E+00	3.78E+00	1.63E+01	4.20E-04	1.37E-03	2.45E-03	1.77E-01	2.08E-06	2.16E-04	0.00E+00	3.79E-05
2012 Annual	2270002075	Off-Highway Tractors	D	175	1.51E+03	4.63E+03	2.76E+04	4.94E-01	1.94E+00	3.72E+00	3.02E+02	3.39E-03	2.13E-01	0.00E+00	4.45E-02
2012 Annual	2270002075	Off-Highway Tractors	D	250	1.43E+03	4.37E+03	2.60E+04	3.75E-01	1.07E+00	3.34E+00	2.85E+02	3.21E-03	1.41E-01	0.00E+00	3.39E-02
2012 Annual	2270002075	Off-Highway Tractors	D	750	6.21E+02	1.90E+03	4.93E+04	6.49E-01	2.95E+00	5.84E+00	5.40E+02	5.43E-03	2.39E-01	0.00E+00	5.85E-02
2012 Annual	2270002075	Off-Highway Tractors	D	1000	6.56E+01	2.01E+02	7.46E+03	1.03E-01	4.84E-01	1.05E+00	8.17E+01	8.21E-04	3.63E-02	0.00E+00	9.28E-03
2012 Annual	2270002078	Dumpers/Tenders	D	25	2.96E+01	5.38E+01	1.87E+01	2.68E-04	8.71E-04	1.65E-03	2.05E-01	2.60E-06	8.40E-05	0.00E+00	2.42E-05
2012 Annual	2270002081	Other Construction Equipment	D	15	4.09E+02	7.73E+02	3.57E+02	4.55E-03	2.38E-02	2.85E-02	3.91E+00	6.08E-05	1.10E-03	0.00E+00	4.10E-04
2012 Annual	2270002081	Other Construction Equipment	D	25	6.92E+01	1.31E+02	7.87E+01	1.05E-03	3.56E-03	6.66E-03	8.64E-01	1.10E-05	2.90E-04	0.00E+00	9.45E-05
2012 Annual	2270002081	Other Construction Equipment	D	50	1.06E+02	2.05E+02	2.65E+02	8.61E-03	2.80E-02	2.77E-02	2.86E+00	3.70E-05	2.33E-03	0.00E+00	7.77E-04
2012 Annual	2270002081	Other Construction Equipment	D	120	1.75E+02	3.38E+02	1.25E+03	1.86E-02	8.98E-02	1.27E-01	1.37E+01	1.60E-04	1.07E-02	0.00E+00	1.68E-03
2012 Annual	2270002081	Other Construction Equipment	D	175	2.42E+02	4.67E+02	2.26E+03	2.35E-02	1.37E-01	2.00E-01	2.48E+01	2.79E-04	1.09E-02	0.00E+00	2.12E-03
2012 Annual	2270002081	Other Construction Equipment	D	500	5.62E+02	1.08E+03	1.25E+04	8.21E-02	2.94E-01	8.97E-01	1.38E+02	1.35E-03	2.95E-02	0.00E+00	7.41E-03

/EPISODE/
Averaging Days : MON--SUN
Start Month/Season : ANNUAL
Start Calendar Year: 2011
Report HC as : ROG
Report By County : NO
Report By-MYr Exh : YES
Report By-MYr Evap : YES
Report By-MYr Toxic: YES
/END/

/ASC/
Off-Road Motorcycles Inactive : 2260001011
Snowmobiles Inactive : 2260001021
All Terrain Vehicles (ATVs) Inactive : 2260001031
Off-Road Motorcycles Active : 2260001010
Snowmobiles Active : 2260001020
All Terrain Vehicles (ATVs) Active : 2260001030
Golf Carts : 2260001050
Specialty Vehicles Carts : 2260001060
Off-Road Motorcycles Inactive : 2265001011
All Terrain Vehicles (ATVs) Inactive : 2265001031
Off-Road Motorcycles Active : 2265001010
All Terrain Vehicles (ATVs) Active : 2265001030
Minibikes : 2265001040
Golf Carts : 2265001050
Specialty Vehicles Carts : 2265001060
Tamper/Rammers : 2260002006
Plate Compactors : 2260002009
Asphalt Pavers : 2265002003
Tamper/Rammers : 2265002006
Plate Compactors : 2265002009
Rollers : 2265002015
Paving Equipment : 2265002021
Surfacing Equipment : 2265002024
Signal Boards : 2265002027
Trenchers : 2265002030
Bore/Drill Rigs : 2265002033
Concrete/Industrial Saws : 2265002039
Cement and Mortar Mixers : 2265002042
Cranes : 2265002045
Crushing/Proc. Equipment : 2265002054
Rough Terrain Forklifts : 2265002057
Rubber Tired Loaders : 2265002060
Tractors/Loaders/Backhoes : 2265002066
Skid Steer Loaders : 2265002072
Dumpers/Tenders : 2265002078
Other Construction Equipment : 2265002081
Pavers : 2270002003
Plate Compactors : 2270002009
Rollers : 2270002015
Scrapers : 2270002018
Paving Equipment : 2270002021

Other Lawn & Garden Equipment	: 2265004075	Surfacing Equipment	: 2270002024
Leaf Blowers/Vacuums	: 2270004030	Signal Boards	: 2270002027
Snowblowers	: 2270004035	Trenchers	: 2270002030
Lawn & Garden Tractors	: 2270004055	Bore/Drill Rigs	: 2270002033
Chippers/Stump Grinders	: 2270004065	Excavators	: 2270002036
Commercial Turf Equipment	: 2270004070	Concrete/Industrial Saws	: 2270002039
Other Lawn & Garden Equipment	: 2270004075	Cement and Mortar Mixers	: 2270002042
Generator Sets	: 2260006005	Cranes	: 2270002045
Pumps	: 2260006010	Graders	: 2270002048
Generator Sets	: 2265006005	Off-Highway Trucks	: 2270002051
Pumps	: 2265006010	Crushing/Proc. Equipment	: 2270002054
Air Compressors	: 2265006015	Rough Terrain Forklifts	: 2270002057
Welders	: 2265006025	Rubber Tired Loaders	: 2270002060
Pressure Washers	: 2265006030	Rubber Tired Dozers	: 2270002063
Generator Sets	: 2266006005	Tractors/Loaders/Backhoes	: 2270002066
Gas Compressors	: 2266006020	Crawler Tractors	: 2270002069
Generator Sets	: 2270006005	Skid Steer Loaders	: 2270002072
Pumps	: 2270006010	Off-Highway Tractors	: 2270002075
Air Compressors	: 2270006015	Dumpers/Tenders	: 2270002078
Welders	: 2270006025	Other Construction Equipment	: 2270002081
Pressure Washers	: 2270006030	Other General Industrial Equipment	: 2260003040
Chainsaws	: 2260007005	Aerial Lifts	: 2265003010
Shredders	: 2265007010	Forklifts	: 2265003020
Shredders	: 2270007010	Sweepers/Scrubbers	: 2265003030
Skidders	: 2270007015	Other General Industrial Equipment	: 2265003040
Rollers/Bunchers	: 2270007020	Other Material Handling Equipment	: 2265003050
2-Wheel Tractors	: 2265005010	Aerial Lifts	: 2266003010
Agricultural Tractors	: 2265005015	Forklifts	: 2266003020
Combines	: 2265005020	Aerial Lifts	: 2270003010
Balers	: 2265005025	Forklifts	: 2270003020
Agricultural Mowers	: 2265005030	Sweepers/Scrubbers	: 2270003030
Sprayers	: 2265005035	Other General Industrial Equipment	: 2270003040
Tillers	: 2265005040	Other Material Handling Equipment	: 2270003050
Swathers	: 2265005045	Lawn Mowers	: 2260004010
Hydro Power Units	: 2265005050	Chainsaws	: 2260004020
Other Agricultural Equipment	: 2265005055	Chainsaws Preempt	: 2260004021
Agricultural Tractors	: 2270005015	Trimmers/Edgers/Brush Cutters	: 2260004025
Combines	: 2270005020	Leaf Blowers/Vacuums	: 2260004030
Balers	: 2270005025	Snowblowers	: 2260004035
Agricultural Mowers	: 2270005030	Shredders	: 2260004050
Sprayers	: 2270005035	Commercial Turf Equipment	: 2260004070
Tillers	: 2270005040	Other Lawn & Garden Equipment	: 2260004075
Swathers	: 2270005045	Lawn Mowers	: 2265004010
Hydro Power Units	: 2270005050	Tillers	: 2265004015
Other Agricultural Equipment	: 2270005055	Trimmers/Edgers/Brush Cutters	: 2265004025
Cargo Tractor	: 2265008010	Leaf Blowers/Vacuums	: 2265004030
A/C Tug Narrow Body	: 2265008015	Snowblowers	: 2265004035
A/C Tug Wide Body	: 2265008020	Rear Engine Riding Mowers	: 2265004040
Air Conditioner	: 2265008025	Front Mowers	: 2265004045
Air Start Unit	: 2265008030	Shredders	: 2265004050
Baggage Tug	: 2265008035	Lawn & Garden Tractors	: 2265004055
Belt Loader	: 2265008040	Wood Splitters	: 2265004060
Bobtail	: 2265008045	Chippers/Stump Grinders	: 2265004065
Cargo Loader	: 2265008050	Commercial Turf Equipment	: 2265004070

Transport Refrigeration Units	: 2265009005	Cart	: 2265008055
Transport Refrigeration Units	: 2270009005	Deicer	: 2265008060
Compressors (Workover)	: 2270010005	Forklift	: 2265008065
Pump (Workover)	: 2270010010	Fuel Truck	: 2265008070
Generator (Workover)	: 2270010015	Ground Power Unit	: 2265008075
Swivel	: 2270010020	Lav Cart	: 2265008080
Snubbing	: 2270010025	Lav Truck	: 2265008085
Other Workover Equipment	: 2270010030	Lift	: 2265008090
Lift (Drilling)	: 2270010035	Maint. Truck	: 2265008095
Pump (Drilling)	: 2270010040	Other GSE	: 2265008100
Generator (Drilling)	: 2270010045	Passenger Stand	: 2265008101
Other Drilling Equipment	: 2270010050	Sweeper	: 2265008102
Drill Rig	: 2270010055	Generator	: 2265008103
Drill Rig (Mobile)	: 2270010057	Service Truck	: 2265008105
Workover Rig (Mobile)	: 2270010058	Catering Truck	: 2265008106
Pressure Washers	: 2270010060	Water Truck	: 2265008110
A/C unit	: 2270011005	Hydrant truck	: 2265008111
Aircraft Support	: 2270011010	Cargo Tractor	: 2266008010
Cart	: 2270011015	Air Conditioner	: 2266008025
Communications	: 2270011020	Baggage Tug	: 2266008035
Compressor (Military)	: 2270011025	Belt Loader	: 2266008040
Crane	: 2270011030	Bobtail	: 2266008045
Deicer	: 2270011040	Cargo Loader	: 2266008050
Generator (Military)	: 2270011050	Forklift	: 2266008065
Hydraulic unit	: 2270011060	Fuel Truck	: 2266008070
Lift (Military)	: 2270011065	Lav Truck	: 2266008085
Light	: 2270011070	Lift	: 2266008090
Pressure Washers	: 2270011075	Other	: 2266008100
Pump (Military)	: 2270011080	Passenger Stand	: 2266008101
Start Cart	: 2270011085	Sweeper	: 2266008102
Test Stand	: 2270011090	Service Truck	: 2266008105
Welder	: 2270011100	Catering Truck	: 2266008106
Other tactical support equipment	: 2270011105	Cargo Tractor	: 2270008010
Compressor (Dredging)	: 2270012005	A/C Tug Narrow Body	: 2270008015
Crane (Dredging)	: 2270012010	A/C Tug Wide Body	: 2270008020
Deck/door engine	: 2270012015	Air Conditioner	: 2270008025
Dredger	: 2270012020	Air Start Unit	: 2270008030
Hoist/swing/winch	: 2270012025	Baggage Tug	: 2270008035
Pump (Dredging)	: 2270012030	Belt Loader	: 2270008040
Generator (Dredging)	: 2270012035	Bobtail	: 2270008045
Other (Dredging)	: 2270012040	Cargo Loader	: 2270008050
Misc Portable Equipment	: 2270013010	Forklift	: 2270008065
Generator (Entertainment)	: 2270014005	Fuel Truck	: 2270008070
Compressor (Entertainment)	: 2270014010	Ground Power Unit	: 2270008075
Compressor (Railyard)	: 2270015005	Lav Truck	: 2270008085
Crane (Rail-CHE)	: 2270015010	Lift	: 2270008090
Materials Handling (Rail-CHE)	: 2270015015	Other GSE	: 2270008100
Generator (Railyard)	: 2270015020	Passenger Stand	: 2270008101
Vessels w/Outboard Engines	: 2282005010	Sweeper	: 2270008102
Sailboat Auxiliary Outboard Engin	: 2282005025	Generator	: 2270008103
Personal Water Craft	: 2282005030	Service Truck	: 2270008105
Vessels w/Inboard Engines	: 2282010005	Catering Truck	: 2270008106
Vessels w/Outboard Engines	: 2282010010	Hydrant Truck	: 2270008111
Vessels w/Sterndrive Engines	: 2282010015	Compressor (GSE)	: 2270008115

/EPIISODE/
 Averaging Days : MON-SUN
 Start Month/Season : ANNUAL
 Start Calendar Year: 2012
 Report HC as : ROG
 Report By-MYr Exh : YES
 Report By-MYr Evap : YES
 Report By-MYr Toxic: YES
 /END/
 /ASC/
 Tampers/Rammers : 2260002006
 Plate Compactors : 2260002009
 Asphalt Pavers : 2265002003
 Tampers/Rammers : 2265002006
 Plate Compactors : 2265002009
 Rollers : 2265002015
 Paving Equipment : 2265002021
 Surfacing Equipment : 2265002024
 Signal Boards : 2265002027
 Trenchers : 2265002030
 Bore/Drill Rigs : 2265002033
 Concrete/Industrial Saws : 2265002039
 Cement and Mortar Mixers : 2265002042
 Cranes : 2265002045
 Crushing/Proc. Equipment : 2265002054
 Rough Terrain Forklifts : 2265002057
 Rubber Tired Loaders : 2265002060
 Tractors/Loaders/Backhoes : 2265002066
 Skid Steer Loaders : 2265002072
 Dumpers/Tenders : 2265002078
 Other Construction Equipment : 2265002081
 Pavers : 2270002003
 Plate Compactors : 2270002009
 Rollers : 2270002015
 Scrapers : 2270002018
 Paving Equipment : 2270002021
 Surfacing Equipment : 2270002024
 Signal Boards : 2270002027
 Trenchers : 2270002030
 Bore/Drill Rigs : 2270002033
 Excavators : 2270002036
 Concrete/Industrial Saws : 2270002039
 Cement and Mortar Mixers : 2270002042
 Cranes : 2270002045
 Graders : 2270002048
 Off-Highway Trucks : 2270002051
 Crushing/Proc. Equipment : 2270002054
 Rough Terrain Forklifts : 2270002057
 Rubber Tired Loaders : 2270002060
 Rubber Tired Dozers : 2270002063
 Tractors/Loaders/Backhoes : 2270002066
 Crawler Tractors : 2270002069

Sailboat Auxiliary Inboard Engine : 2282010020
 Vessels w/Inboard Jet Engines : 2282010040
 Vessels w/Inboard Engines : 2282020005
 Sailboat Auxiliary Inboard Engine : 2282020020
 /END/
 /FUEL TYPE/
 Gasoline 2-Stroke : G2
 Gasoline 4-Stroke : G4
 Diesel : D
 /END/
 /HORSEPOWER/
 120 Hp - 175 Hp : 175.
 175 Hp - 250 Hp : 250.
 250 Hp - 500 Hp : 500.
 500 Hp - 750 Hp : 750.
 750 Hp - 1000 Hp : 1000.
 > 1000 Hp : 9999.
 /END/
 /AirDistrict/
 Monterey Bay Unifie: MBU
 /END/
 /OUTPUT FILES/
 Exhaust : MBUAPCD 2011.Exh.tab
 Evap : MBUAPCD 2011.Evp.tab
 Toxics : MBUAPCD 2011.Tox.tab
 Exhaust By Model Yea : MBUAPCD 2011.BMyExh.tab
 Evap By Model Year : MBUAPCD 2011.BMyEvp.tab
 Toxics By Model Yea : MBUAPCD 2011.BMyTox.tab
 CEFS : MBUAPCD 2011.Cefs.tab
 CEIDARSPR : MBUAPCD 2011.CdrPr.tab
 CEIDARSEM : MBUAPCD 2011.CdrEm.tab
 /END/

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Emfac2007-Header
Version 2 30 3 501
Scenario-Count 2
End-Header
Begin-Scenario 1
Title MRY 2011 ROG PM10
Program-Mode Emfac
Area-Method Average
Area-Type District
Area-Number 19 [Monterey Bay Unified APCD]
HC-Mode ROG
PM-Mode PM10
Cyr 2011
Myr All
Vehicles All
Season Annual
Emfac-Reports RTL
Emfac-Speed 0 5. 10. 15. 20. 25. 30. 35. 40. 45. 50. 55. 60. 65.
Emfac-RH 0 10. 20. 30. 40. 50. 60. 70. 80. 90. 100.
Emfac-Temp -20. -10. 0 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. 110.
120.
End-Scenario
Begin-Scenario 2
Title MRY 2011 CH4 PM2.5
Program-Mode Emfac
Area-Method Average
Area-Type District
Area-Number 19 [Monterey Bay Unified APCD]
HC-Mode CH4
PM-Mode PM2.5
Cyr 2011
Myr All
Vehicles All
Season Annual
Emfac-Reports RTL
Emfac-Speed 0 5. 10. 15. 20. 25. 30. 35. 40. 45. 50. 55. 60. 65.
Emfac-RH 0 10. 20. 30. 40. 50. 60. 70. 80. 90. 100.
Emfac-Temp -20. -10. 0 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. 110.
120.
End-Scenario
Emfac2007-Header
Version 2 30 3 501
Scenario-Count 1
End-Header
Begin-Scenario 1
Title MRY 2011 ROG PM10
Program-Mode Emfac
Area-Method Average
Area-Type District
Area-Number 19 [Monterey Bay Unified APCD]
HC-Mode ROG
PM-Mode PM10
Cyr 2011
Myr All
Vehicles All
Season Annual
Emfac-Reports RTL
Emfac-Speed 0 5. 10. 15. 20. 25. 30. 35. 40. 45. 50. 55. 60. 65.
Emfac-RH 0 10. 20. 30. 40. 50. 60. 70. 80. 90. 100.
Emfac-Temp -20. -10. 0 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. 110.
120.
End-Scenario
Emfac2007-Header
Version 2 30 3 501
Scenario-Count 1
End-Header
Begin-Scenario 1
Title MRY 2011 ROG PM10
Program-Mode Emfac
Area-Method Average
Area-Type District
Area-Number 19 [Monterey Bay Unified APCD]
HC-Mode ROG
PM-Mode PM10
Cyr 2011
Myr All
Vehicles All
Season Annual
Emfac-Reports RTL
Emfac-Speed 0 5. 10. 15. 20. 25. 30. 35. 40. 45. 50. 55. 60. 65.
Emfac-RH 0 10. 20. 30. 40. 50. 60. 70. 80. 90. 100.
Emfac-Temp -20. -10. 0 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. 110.
120.
End-Scenario
Skid Steer Loaders : 2270002072
Off-Highway Tractors : 2270002075
Dumpers/Tenders : 2270002078
Other Construction Equipment : 2270002081
Generator Sets : 2260006005
Pumps : 2260006010
Generator Sets : 2265006005
Pumps : 2265006010
Air Compressors : 2265006015
Welders : 2265006025
Pressure Washers : 2265006030
Generator Sets : 2266006005
Gas Compressors : 2266006020
Generator Sets : 2270006005
Pumps : 2270006010
Air Compressors : 2270006015
Welders : 2270006025
Pressure Washers : 2270006030
/FUEL TYPE/
Gasoline 2-Stroke : G2
Gasoline 4-Stroke : G4
Diesel : D
/END/
/HORSEPOWER/
120 Hp - 175 Hp : 175.
175 Hp - 250 Hp : 250.
250 Hp - 500 Hp : 500.
500 Hp - 750 Hp : 750.
750 Hp - 1000 Hp : 1000.
> 1000 Hp : 9999.
/END/
/AirDistrict/
Monterey Bay Unifac : MBU
/END/
/OUTPUT FILES/
Exhaust : MBUAPCD 2012.Exh.tab
Evap : MBUAPCD 2012.Evp.tab
Toxics : MBUAPCD 2012.Tox.tab
Exhaust By Model Ye : MBUAPCD 2012.BMyExh.tab
Evap By Model Year : MBUAPCD 2012.BMyEvp.tab
Toxics By Model Yea : MBUAPCD 2012.BMyTox.tab
CEFS : MBUAPCD 2012.Cefs.tab
CEIDARSPR : MBUAPCD 2012.CdrPr.tab
CEIDARSEM : MBUAPCD 2012.CdrEm.tab
/END/

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Area-Method Average
Area-Type District
Area-Number 19 [Monterey Bay Unified APCD]
HC-Mode CH4
PM-Mode PM2.5
CYr 2011
MYr All
Vehicles All
Season Annual
Emfac-Reports RTL
Emfac-Speed 0 5. 10. 15. 20. 25. 30. 35. 40. 45. 50. 55. 60. 65.
Emfac-RH 0 10. 20. 30. 40. 50. 60. 70. 80. 90. 100.
Emfac-Temp -20. -10. 0 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. 110.
120.
End-Scenario
Begin-Scenario 3
Title MRY 2012 ROG PM10
Program-Mode Emfac
Area-Method Average
Area-Type District
Area-Number 19 [Monterey Bay Unified APCD]
HC-Mode ROG
PM-Mode PM10
CYr 2012
MYr All
Vehicles All
Season Annual
Emfac-Reports RTL
Emfac-Speed 0 5. 10. 15. 20. 25. 30. 35. 40. 45. 50. 55. 60. 65.
Emfac-RH 0 10. 20. 30. 40. 50. 60. 70. 80. 90. 100.
Emfac-Temp -20. -10. 0 10. 20. 30. 40. 50. 60. 70. 80. 90. 100. 110.
120.
End-Scenario

```

Title : MRY 2011 ROG PM10
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2009/12/02 09:20:13
Scen Year: 2011 -- All model years in the range 1967 to 2011 selected
Season : Annual
Area : Monterey Bay Unified APCD

Title : MRY 2011 CH4 PM2.5
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2009/12/02 09:20:13
Scen Year: 2011 -- All model years in the range 1967 to 2011 selected
Season : Annual
Area : Monterey Bay Unified APCD

Year: to
Emfac2007 Emission Factors: V2.3 Nov 1 2006

Year: to
Emfac2007 Emission Factors: V2.3 Nov 1 2006

District Average

District Average

Pollutant Name: Reactive Org Gases		Relative Humidity: 65%			
Speed	LDA	LDT1	MHD	HHD	
MPH	CAT	CAT	DSL	DSL	
0	0	0	3.173	12.28	
5	0.43	0.751	0.726	10.716	
10	0.28	0.501	0.57	5.962	
15	0.191	0.35	0.457	2.854	
20	0.137	0.256	0.375	1.521	
25	0.104	0.198	0.315	1.229	
30	0.083	0.159	0.27	0.997	
35	0.07	0.135	0.236	0.825	
40	0.062	0.12	0.212	0.713	
45	0.057	0.112	0.194	0.66	
50	0.056	0.109	0.181	0.668	
55	0.058	0.112	0.174	0.735	
60	0.063	0.122	0.17	0.862	
65	0.073	0.139	0.17	1.049	

Pollutant Name: Methane		Relative Humidity: 65%			
Speed	LDA	LDT1	MHD	HHD	
MPH	CAT	CAT	DSL	DSL	
0	0	0	0.147	0.57	
5	0.073	0.099	0.034	0.498	
10	0.057	0.08	0.026	0.277	
15	0.047	0.067	0.021	0.133	
20	0.039	0.058	0.017	0.071	
25	0.032	0.05	0.015	0.057	
30	0.028	0.044	0.013	0.046	
35	0.025	0.04	0.011	0.038	
40	0.024	0.038	0.01	0.033	
45	0.023	0.036	0.009	0.031	
50	0.022	0.036	0.008	0.031	
55	0.023	0.037	0.008	0.034	
60	0.024	0.038	0.008	0.04	
65	0.027	0.041	0.008	0.049	

Pollutant Name: Carbon Monoxide		Relative Humidity: 65%			
Speed	LDA	LDT1	MHD	HHD	
MPH	CAT	CAT	DSL	DSL	
0	0	0	26.3	52.834	
5	4.742	10.008	9.091	17.334	
10	4.173	8.515	6.269	12.57	
15	3.718	7.396	4.524	9.002	
20	3.347	6.538	3.416	6.767	
25	3.04	5.869	2.7	5.751	
30	2.784	5.344	2.234	4.896	
35	2.57	4.933	1.933	4.203	

Pollutant Name: Carbon Monoxide		Relative Humidity: 65%			
Speed	LDA	LDT1	MHD	HHD	
MPH	CAT	CAT	DSL	DSL	
0	0	0	26.3	52.834	
5	4.742	10.008	9.091	17.334	
10	4.173	8.515	6.269	12.57	
15	3.718	7.396	4.524	9.002	
20	3.347	6.538	3.416	6.767	
25	3.04	5.869	2.7	5.751	
30	2.784	5.344	2.234	4.896	
35	2.57	4.933	1.933	4.203	

40	2.392	4.618	1.752	3.67
45	2.246	4.39	1.661	3.298
50	2.129	4.245	1.648	3.087
55	2.042	4.191	1.711	3.038
60	1.987	4.245	1.86	3.149
65	1.971	4.444	2.116	3.422

40	2.392	4.618	1.752	3.67
45	2.246	4.39	1.661	3.298
50	2.129	4.245	1.648	3.087
55	2.042	4.191	1.711	3.038
60	1.987	4.245	1.86	3.149
65	1.971	4.444	2.116	3.422

Pollutant Name: Oxides of Nitrogen

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	75.051	110.03
5	0.5	1.04	12.095	36.355
10	0.43	0.882	10.034	25.092
15	0.379	0.768	8.626	18.142
20	0.34	0.685	7.683	15.47
25	0.312	0.627	7.09	14.761
30	0.292	0.587	6.78	14.196
35	0.278	0.562	6.718	13.775
40	0.271	0.55	6.896	13.499
45	0.268	0.551	7.336	13.367
50	0.271	0.563	8.085	13.38
55	0.28	0.59	9.233	13.537
60	0.294	0.632	10.924	13.838
65	0.316	0.694	13.393	14.284

Pollutant Name: Oxides of Nitrogen

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	75.051	110.03
5	0.5	1.04	12.095	36.355
10	0.43	0.882	10.034	25.092
15	0.379	0.768	8.626	18.142
20	0.34	0.685	7.683	15.47
25	0.312	0.627	7.09	14.761
30	0.292	0.587	6.78	14.196
35	0.278	0.562	6.718	13.775
40	0.271	0.55	6.896	13.499
45	0.268	0.551	7.336	13.367
50	0.271	0.563	8.085	13.38
55	0.28	0.59	9.233	13.537
60	0.294	0.632	10.924	13.838
65	0.316	0.694	13.393	14.284

Pollutant Name: Carbon Dioxide

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	4098	6466.296
5	952.993	1182.335	1505	3845.36
10	720.133	893.437	1505	3165.446
15	564.796	700.718	1505	2595.958
20	459.755	570.398	1505	2183.16
25	388.434	481.913	1505	2042.684
30	340.615	422.585	1505	1924.234
35	310.003	384.606	1505	1827.808
40	292.835	363.307	1505	1753.407
45	287.102	356.195	1505	1701.031
50	292.15	362.458	1505	1670.679
55	308.554	382.809	1505	1662.352
60	338.23	419.627	1505	1676.049
65	384.812	477.419	1505	1711.772

Pollutant Name: Carbon Dioxide

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	4098	6466.296
5	952.993	1182.335	1505	3845.36
10	720.133	893.437	1505	3165.446
15	564.796	700.718	1505	2595.958
20	459.755	570.398	1505	2183.16
25	388.434	481.913	1505	2042.684
30	340.615	422.585	1505	1924.234
35	310.003	384.606	1505	1827.808
40	292.835	363.307	1505	1753.407
45	287.102	356.195	1505	1701.031
50	292.15	362.458	1505	1670.679
55	308.554	382.809	1505	1662.352
60	338.23	419.627	1505	1676.049
65	384.812	477.419	1505	1711.772

Pollutant Name: Sulfur Dioxide

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0.039	0.062
5	0.009	0.012	0.014	0.037
10	0.007	0.009	0.014	0.03
15	0.005	0.007	0.014	0.025
20	0.004	0.006	0.014	0.021
25	0.004	0.005	0.014	0.02
30	0.003	0.004	0.014	0.018
35	0.003	0.004	0.014	0.017
40	0.003	0.004	0.014	0.017
45	0.003	0.003	0.014	0.016
50	0.003	0.004	0.014	0.016
55	0.003	0.004	0.014	0.016
60	0.003	0.004	0.014	0.016
65	0.004	0.005	0.014	0.016

Pollutant Name: Sulfur Dioxide

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0.039	0.062
5	0.009	0.012	0.014	0.037
10	0.007	0.009	0.014	0.03
15	0.005	0.007	0.014	0.025
20	0.004	0.006	0.014	0.021
25	0.004	0.005	0.014	0.02
30	0.003	0.004	0.014	0.018
35	0.003	0.004	0.014	0.017
40	0.003	0.004	0.014	0.017
45	0.003	0.003	0.014	0.016
50	0.003	0.004	0.014	0.016
55	0.003	0.004	0.014	0.016
60	0.003	0.004	0.014	0.016
65	0.004	0.005	0.014	0.016

Pollutant Name: PM10

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	1.078	1.761
5	0.06	0.076	0.829	2.3
10	0.039	0.05	0.651	1.562
15	0.027	0.035	0.522	1.023
20	0.019	0.026	0.428	0.715
25	0.015	0.02	0.359	0.601
30	0.012	0.016	0.308	0.517
35	0.01	0.014	0.27	0.463
40	0.009	0.012	0.242	0.44
45	0.008	0.011	0.221	0.446
50	0.008	0.011	0.207	0.482
55	0.009	0.011	0.198	0.549
60	0.01	0.012	0.194	0.646
65	0.011	0.014	0.194	0.772

Pollutant Name: PM2.5

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0.992	1.62
5	0.055	0.07	0.762	2.116
10	0.036	0.047	0.599	1.437
15	0.025	0.032	0.48	0.941
20	0.018	0.024	0.394	0.658
25	0.014	0.018	0.33	0.553
30	0.011	0.015	0.283	0.476
35	0.009	0.013	0.248	0.426
40	0.008	0.011	0.222	0.404
45	0.008	0.01	0.204	0.41
50	0.008	0.01	0.191	0.444
55	0.008	0.011	0.182	0.505
60	0.009	0.012	0.178	0.594
65	0.01	0.013	0.178	0.711

Pollutant Name: PM10 - Tire Wear

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
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Pollutant Name: PM2.5 - Tire Wear

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
-----------	---------	----------	---------	---------

0	0	0	0	0
5	0.008	0.008	0.012	0.036
10	0.008	0.008	0.012	0.036
15	0.008	0.008	0.012	0.036
20	0.008	0.008	0.012	0.036
25	0.008	0.008	0.012	0.036
30	0.008	0.008	0.012	0.036
35	0.008	0.008	0.012	0.036
40	0.008	0.008	0.012	0.036
45	0.008	0.008	0.012	0.036
50	0.008	0.008	0.012	0.036
55	0.008	0.008	0.012	0.036
60	0.008	0.008	0.012	0.036
65	0.008	0.008	0.012	0.036

0	0	0	0	0
5	0.002	0.002	0.003	0.009
10	0.002	0.002	0.003	0.009
15	0.002	0.002	0.003	0.009
20	0.002	0.002	0.003	0.009
25	0.002	0.002	0.003	0.009
30	0.002	0.002	0.003	0.009
35	0.002	0.002	0.003	0.009
40	0.002	0.002	0.003	0.009
45	0.002	0.002	0.003	0.009
50	0.002	0.002	0.003	0.009
55	0.002	0.002	0.003	0.009
60	0.002	0.002	0.003	0.009
65	0.002	0.002	0.003	0.009

Pollutant Name: PM10 - Brake Wear

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0	0
5	0.013	0.013	0.013	0.028
10	0.013	0.013	0.013	0.028
15	0.013	0.013	0.013	0.028
20	0.013	0.013	0.013	0.028
25	0.013	0.013	0.013	0.028
30	0.013	0.013	0.013	0.028
35	0.013	0.013	0.013	0.028
40	0.013	0.013	0.013	0.028
45	0.013	0.013	0.013	0.028
50	0.013	0.013	0.013	0.028
55	0.013	0.013	0.013	0.028
60	0.013	0.013	0.013	0.028
65	0.013	0.013	0.013	0.028

Pollutant Name: PM2.5 - Brake Wear

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0	0
5	0.005	0.005	0.005	0.012
10	0.005	0.005	0.005	0.012
15	0.005	0.005	0.005	0.012
20	0.005	0.005	0.005	0.012
25	0.005	0.005	0.005	0.012
30	0.005	0.005	0.005	0.012
35	0.005	0.005	0.005	0.012
40	0.005	0.005	0.005	0.012
45	0.005	0.005	0.005	0.012
50	0.005	0.005	0.005	0.012
55	0.005	0.005	0.005	0.012
60	0.005	0.005	0.005	0.012
65	0.005	0.005	0.005	0.012

Pollutant Name: Gasoline - mi/gal

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0	0
5	9.212	7.381	0	0
10	12.177	9.753	0	0
15	15.51	12.418	0	0
20	19.035	15.236	0	0

Pollutant Name: Gasoline - mi/gal

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0	0
5	9.212	7.381	0	0
10	12.177	9.753	0	0
15	15.51	12.418	0	0
20	19.035	15.236	0	0

25	22.513	18.016	0	0
30	25.661	20.532	0	0
35	28.192	22.555	0	0
40	29.852	23.883	0	0
45	30.465	24.376	0	0
50	29.964	23.978	0	0
55	28.402	22.731	0	0
60	25.94	20.764	0	0
65	22.826	18.273	0	0

25	22.513	18.016	0	0
30	25.661	20.532	0	0
35	28.192	22.555	0	0
40	29.852	23.883	0	0
45	30.465	24.376	0	0
50	29.964	23.978	0	0
55	28.402	22.731	0	0
60	25.94	20.764	0	0
65	22.826	18.273	0	0

Pollutant Name: Diesel - mi/gal

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0	0
5	0	0	6.698	2.621
10	0	0	6.698	3.184
15	0	0	6.698	3.883
20	0	0	6.698	4.617
25	0	0	6.698	4.935
30	0	0	6.698	5.238
35	0	0	6.698	5.515
40	0	0	6.698	5.749
45	0	0	6.698	5.926
50	0	0	6.698	6.033
55	0	0	6.698	6.064
60	0	0	6.698	6.014
65	0	0	6.698	5.889

Pollutant Name: Diesel - mi/gal

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0	0
5	0	0	6.698	2.621
10	0	0	6.698	3.184
15	0	0	6.698	3.883
20	0	0	6.698	4.617
25	0	0	6.698	4.935
30	0	0	6.698	5.238
35	0	0	6.698	5.515
40	0	0	6.698	5.749
45	0	0	6.698	5.926
50	0	0	6.698	6.033
55	0	0	6.698	6.064
60	0	0	6.698	6.014
65	0	0	6.698	5.889

Title : MRY 2012 ROG PM10

Version : Emfac2007 V2.3 Nov 1 2006

Run Date : 2009/12/02 09:20:13

Scen Year: 2012 -- All model years in the range 1968 to 2012 selected

Season : Annual

Area : Monterey Bay Unified APCD

Year: to
Emfac2007 Emission Factors: V2.3 Nov 1 2006

District Average

Title : MRY 2012 CH4 PM2.5

Version : Emfac2007 V2.3 Nov 1 2006

Run Date : 2009/12/02 09:20:13

Scen Year: 2012 -- All model years in the range 1968 to 2012 selected

Season : Annual

Area : Monterey Bay Unified APCD

Year: to
Emfac2007 Emission Factors: V2.3 Nov 1 2006

District Average

Pollutant Name: Reactive Org Gases

Relative Humidity: 65%

Speed	LDA	LDT1	MHD	HHD
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Pollutant Name: Methane

Relative Humidity: 65%

Speed	LDA	LDT1	MHD	HHD
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MPH	CAT	CAT	DSL	DSL
0	0	0	3.173	11.719
5	0.38	0.692	0.686	9.806
10	0.247	0.462	0.539	5.442
15	0.169	0.323	0.432	2.6
20	0.121	0.236	0.355	1.392
25	0.092	0.182	0.297	1.129
30	0.074	0.147	0.255	0.919
35	0.062	0.124	0.223	0.762
40	0.055	0.11	0.2	0.658
45	0.051	0.103	0.183	0.608
50	0.05	0.101	0.172	0.612
55	0.051	0.104	0.164	0.668
60	0.056	0.112	0.161	0.778
65	0.064	0.128	0.161	0.941

MPH	CAT	CAT	DSL	DSL
0	0	0	0.147	0.544
5	0.067	0.093	0.032	0.455
10	0.053	0.076	0.025	0.253
15	0.043	0.063	0.02	0.121
20	0.035	0.054	0.016	0.065
25	0.029	0.046	0.014	0.052
30	0.026	0.041	0.012	0.043
35	0.023	0.037	0.01	0.035
40	0.021	0.035	0.009	0.031
45	0.02	0.034	0.009	0.028
50	0.02	0.033	0.008	0.028
55	0.021	0.034	0.008	0.031
60	0.022	0.036	0.007	0.036
65	0.024	0.039	0.007	0.044

Pollutant Name: Carbon Monoxide

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	26.3	52.004
5	4.292	9.299	8.732	15.997
10	3.781	7.92	6.021	11.448
15	3.372	6.885	4.345	8.089
20	3.037	6.09	3.281	6.044
25	2.76	5.469	2.594	5.159
30	2.528	4.98	2.145	4.417
35	2.334	4.597	1.857	3.818
40	2.172	4.303	1.683	3.363
45	2.038	4.088	1.595	3.05
50	1.931	3.951	1.583	2.881
55	1.85	3.897	1.644	2.855
60	1.798	3.942	1.787	2.972
65	1.781	4.12	2.032	3.232

Pollutant Name: Carbon Monoxide

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	26.3	52.004
5	4.292	9.299	8.732	15.997
10	3.781	7.92	6.021	11.448
15	3.372	6.885	4.345	8.089
20	3.037	6.09	3.281	6.044
25	2.76	5.469	2.594	5.159
30	2.528	4.98	2.145	4.417
35	2.334	4.597	1.857	3.818
40	2.172	4.303	1.683	3.363
45	2.038	4.088	1.595	3.05
50	1.931	3.951	1.583	2.881
55	1.85	3.897	1.644	2.855
60	1.798	3.942	1.787	2.972
65	1.781	4.12	2.032	3.232

Pollutant Name: Oxides of Nitrogen

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	75.051	111.512
5	0.449	0.964	10.893	32.739
10	0.386	0.818	9.038	22.683
15	0.34	0.712	7.769	16.438

Pollutant Name: Oxides of Nitrogen

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	75.051	111.512
5	0.449	0.964	10.893	32.739
10	0.386	0.818	9.038	22.683
15	0.34	0.712	7.769	16.438

20	0.305	0.636	6.92	13.979
25	0.28	0.581	6.386	13.297
30	0.262	0.544	6.107	12.75
35	0.25	0.521	6.051	12.339
40	0.243	0.51	6.211	12.063
45	0.241	0.51	6.607	11.922
50	0.243	0.522	7.282	11.917
55	0.251	0.546	8.316	12.048
60	0.264	0.585	9.839	12.313
65	0.283	0.642	12.063	12.715

20	0.305	0.636	6.92	13.979
25	0.28	0.581	6.386	13.297
30	0.262	0.544	6.107	12.75
35	0.25	0.521	6.051	12.339
40	0.243	0.51	6.211	12.063
45	0.241	0.51	6.607	11.922
50	0.243	0.522	7.282	11.917
55	0.251	0.546	8.316	12.048
60	0.264	0.585	9.839	12.313
65	0.283	0.642	12.063	12.715

Pollutant Name: Carbon Dioxide

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	4097.999	6466.296
5	950.171	1181.904	1505	3845.36
10	718.001	893.111	1505	3165.447
15	563.124	700.462	1505	2595.958
20	458.394	570.189	1505	2183.16
25	387.284	481.737	1505	2042.685
30	339.606	422.431	1505	1924.234
35	309.085	384.466	1505	1827.808
40	291.968	363.175	1505	1753.407
45	286.252	356.065	1505	1701.031
50	291.285	362.325	1505	1670.679
55	307.641	382.67	1505	1662.352
60	337.229	419.474	1505	1676.05
65	383.673	477.245	1505	1711.771

Pollutant Name: Carbon Dioxide

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	4097.999	6466.296
5	950.171	1181.904	1505	3845.36
10	718.001	893.111	1505	3165.447
15	563.124	700.462	1505	2595.958
20	458.394	570.189	1505	2183.16
25	387.284	481.737	1505	2042.685
30	339.606	422.431	1505	1924.234
35	309.085	384.466	1505	1827.808
40	291.968	363.175	1505	1753.407
45	286.252	356.065	1505	1701.031
50	291.285	362.325	1505	1670.679
55	307.641	382.67	1505	1662.352
60	337.229	419.474	1505	1676.05
65	383.673	477.245	1505	1711.771

Pollutant Name: Sulfur Dioxide

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0.039	0.062
5	0.009	0.012	0.014	0.037
10	0.007	0.009	0.014	0.03
15	0.005	0.007	0.014	0.025
20	0.004	0.006	0.014	0.021
25	0.004	0.005	0.014	0.02
30	0.003	0.004	0.014	0.018
35	0.003	0.004	0.014	0.017
40	0.003	0.004	0.014	0.017
45	0.003	0.003	0.014	0.016

Pollutant Name: Sulfur Dioxide

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0.039	0.062
5	0.009	0.012	0.014	0.037
10	0.007	0.009	0.014	0.03
15	0.005	0.007	0.014	0.025
20	0.004	0.006	0.014	0.021
25	0.004	0.005	0.014	0.02
30	0.003	0.004	0.014	0.018
35	0.003	0.004	0.014	0.017
40	0.003	0.004	0.014	0.017
45	0.003	0.003	0.014	0.016

50	0.003	0.004	0.014	0.016
55	0.003	0.004	0.014	0.016
60	0.003	0.004	0.014	0.016
65	0.004	0.005	0.014	0.016

50	0.003	0.004	0.014	0.016
55	0.003	0.004	0.014	0.016
60	0.003	0.004	0.014	0.016
65	0.004	0.005	0.014	0.016

Pollutant Name: PM10

Relative Humidity: 65%

Speed MPH	LDA	LDT1	MHD	HHD
	CAT	CAT	DSL	DSL
0	0	0	1.049	1.59
5	0.06	0.076	0.779	1.995
10	0.039	0.05	0.611	1.358
15	0.027	0.035	0.491	0.893
20	0.019	0.026	0.403	0.626
25	0.015	0.02	0.338	0.528
30	0.012	0.016	0.289	0.456
35	0.01	0.014	0.254	0.412
40	0.009	0.012	0.227	0.394
45	0.008	0.011	0.208	0.403
50	0.008	0.011	0.195	0.438
55	0.009	0.011	0.186	0.5
60	0.009	0.012	0.182	0.589
65	0.011	0.014	0.182	0.705

Pollutant Name: PM2.5

Relative Humidity: 65%

Speed MPH	LDA	LDT1	MHD	HHD
	CAT	CAT	DSL	DSL
0	0	0	0.965	1.463
5	0.055	0.071	0.716	1.835
10	0.036	0.047	0.562	1.249
15	0.025	0.032	0.451	0.821
20	0.018	0.024	0.37	0.576
25	0.014	0.018	0.311	0.486
30	0.011	0.015	0.266	0.42
35	0.009	0.013	0.233	0.379
40	0.008	0.011	0.209	0.362
45	0.008	0.01	0.191	0.37
50	0.008	0.01	0.179	0.403
55	0.008	0.011	0.171	0.46
60	0.009	0.012	0.168	0.542
65	0.01	0.013	0.168	0.649

Pollutant Name: PM10 - Tire Wear

Relative Humidity: 65%

Speed MPH	LDA	LDT1	MHD	HHD
	CAT	CAT	DSL	DSL
0	0	0	0	0
5	0.008	0.008	0.012	0.036
10	0.008	0.008	0.012	0.036
15	0.008	0.008	0.012	0.036
20	0.008	0.008	0.012	0.036
25	0.008	0.008	0.012	0.036
30	0.008	0.008	0.012	0.036
35	0.008	0.008	0.012	0.036
40	0.008	0.008	0.012	0.036
45	0.008	0.008	0.012	0.036
50	0.008	0.008	0.012	0.036
55	0.008	0.008	0.012	0.036
60	0.008	0.008	0.012	0.036
65	0.008	0.008	0.012	0.036

Pollutant Name: PM2.5 - Tire Wear

Relative Humidity: 65%

Speed MPH	LDA	LDT1	MHD	HHD
	CAT	CAT	DSL	DSL
0	0	0	0	0
5	0.002	0.002	0.003	0.009
10	0.002	0.002	0.003	0.009
15	0.002	0.002	0.003	0.009
20	0.002	0.002	0.003	0.009
25	0.002	0.002	0.003	0.009
30	0.002	0.002	0.003	0.009
35	0.002	0.002	0.003	0.009
40	0.002	0.002	0.003	0.009
45	0.002	0.002	0.003	0.009
50	0.002	0.002	0.003	0.009
55	0.002	0.002	0.003	0.009
60	0.002	0.002	0.003	0.009
65	0.002	0.002	0.003	0.009

Pollutant Name: PM10 - Brake Wear

Relative Humidity: 65%

Speed MPH	LDA	LDT1	MHD	HHD
	CAT	CAT	DSL	DSL
0	0	0	0	0
5	0.013	0.013	0.013	0.028
10	0.013	0.013	0.013	0.028
15	0.013	0.013	0.013	0.028
20	0.013	0.013	0.013	0.028
25	0.013	0.013	0.013	0.028
30	0.013	0.013	0.013	0.028
35	0.013	0.013	0.013	0.028

Pollutant Name: PM2.5 - Brake Wear

Relative Humidity: 65%

Speed MPH	LDA	LDT1	MHD	HHD
	CAT	CAT	DSL	DSL
0	0	0	0	0
5	0.005	0.005	0.005	0.012
10	0.005	0.005	0.005	0.012
15	0.005	0.005	0.005	0.012
20	0.005	0.005	0.005	0.012
25	0.005	0.005	0.005	0.012
30	0.005	0.005	0.005	0.012
35	0.005	0.005	0.005	0.012

40	0.013	0.013	0.013	0.028
45	0.013	0.013	0.013	0.028
50	0.013	0.013	0.013	0.028
55	0.013	0.013	0.013	0.028
60	0.013	0.013	0.013	0.028
65	0.013	0.013	0.013	0.028

40	0.005	0.005	0.005	0.012
45	0.005	0.005	0.005	0.012
50	0.005	0.005	0.005	0.012
55	0.005	0.005	0.005	0.012
60	0.005	0.005	0.005	0.012
65	0.005	0.005	0.005	0.012

Pollutant Name: Gasoline - mi/gal

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0	0
5	9.247	7.391	0	0
10	12.225	9.768	0	0
15	15.572	12.438	0	0
20	19.113	15.262	0	0
25	22.607	18.047	0	0
30	25.769	20.569	0	0
35	28.311	22.596	0	0
40	29.977	23.926	0	0
45	30.592	24.419	0	0
50	30.087	24.019	0	0
55	28.515	22.768	0	0
60	26.041	20.796	0	0
65	22.913	18.3	0	0

Pollutant Name: Gasoline - mi/gal

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0	0
5	9.247	7.391	0	0
10	12.225	9.768	0	0
15	15.572	12.438	0	0
20	19.113	15.262	0	0
25	22.607	18.047	0	0
30	25.769	20.569	0	0
35	28.311	22.596	0	0
40	29.977	23.926	0	0
45	30.592	24.419	0	0
50	30.087	24.019	0	0
55	28.515	22.768	0	0
60	26.041	20.796	0	0
65	22.913	18.3	0	0

Pollutant Name: Diesel - mi/gal

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0	0
5	0	0	6.698	2.621
10	0	0	6.698	3.184
15	0	0	6.698	3.883
20	0	0	6.698	4.617
25	0	0	6.698	4.935
30	0	0	6.698	5.238
35	0	0	6.698	5.515
40	0	0	6.698	5.749
45	0	0	6.698	5.926
50	0	0	6.698	6.033
55	0	0	6.698	6.064
60	0	0	6.698	6.014
65	0	0	6.698	5.889

Pollutant Name: Diesel - mi/gal

Relative Humidity: 65%

Speed MPH	LDA CAT	LDT1 CAT	MHD DSL	HHD DSL
0	0	0	0	0
5	0	0	6.698	2.621
10	0	0	6.698	3.184
15	0	0	6.698	3.883
20	0	0	6.698	4.617
25	0	0	6.698	4.935
30	0	0	6.698	5.238
35	0	0	6.698	5.515
40	0	0	6.698	5.749
45	0	0	6.698	5.926
50	0	0	6.698	6.033
55	0	0	6.698	6.064
60	0	0	6.698	6.014
65	0	0	6.698	5.889