

# Proposed Tiered Decision Tree Approach

Greenhouse Gas CEQA Significance Threshold Working Group

19 Hypothetical Scenarios - Running URBEMIS model

Jul-08

*Calculating the Weighted Average of **Highest** Trip Rate Range of Various Land Uses (to be used in URBEMIS runs)*

(using Trip Generation, 7th Edition, Institute of Transportation Engineers)

	Residential - Single Unit	Residential - Low Rise Apt	Commercial - General Office Bldg	Commercial - Drive In Bank	Industrial - General Light	Industrial - Manufacturing
Weekday (M-F)	21.85	9.24	7.28	272.33	4.48	6.66
Saturday	15.25	9.2	3.83	63.75	1.32	1.24
Sunday	12.31	8.77	1.91	18.11	2.09	0.99
Weighted Daily Avg (Trips/Unit)	<b>19.54</b>	<b>9.17</b>	<b>6.02</b>	<b>206.22</b>	<b>3.69</b>	<b>5.08</b>

## *URBEMIS Run Parameters:*

55 pounds/day of NOx - total Operational and Area

Weighted Avg of Highest Rate Range

South Coast Air District

Annual Average

No Mitigation

Total CO2 emissions based on Total of Area and Operational

*URBEMIS Run Results (based on 55 lbs/day NOx or 10 tons/year NOx total Operational and Area Sources)*

	Weighted Avg		Area Source Emissions		Operational Emissions		TOTAL
	Trip Rate	Size	CO2 (tons/year)	CO2 (MT/year)	CO2 (tons/year)	CO2 (MT/year)	CO2 (MT/year)
Res - Single Unit	19.54	210 units	826.98	751.80	7599.38	6908.53	7660.33
Res - Apt	9.17	438 units	1057.19	961.08	7438.37	6762.15	7723.24
Comm - Office	6.02	668,000 ft <sup>2</sup>	975.79	887.08	7465.85	6787.14	7674.22
Comm - Bank	206.22	23,800 ft <sup>2</sup>	35.26	32.05	7999.06	7271.87	7303.93
Ind - Gen Light	3.69	1,110,000 ft <sup>2</sup>	176.89	160.81	8026.42	7296.75	7457.55
Ind - Mfg	5.08	812,000 ft <sup>2</sup>	176.89	160.81	8026.68	7296.98	7457.79
Single/Apt	19.54	90 units	958.06	870.96	7502.52	6820.47	7691.44
	9.17	250 units					
Office/Bank	6.02	435,000 ft <sup>2</sup>	648.17	589.25	7634.53	6940.48	7529.73
	206.22	8,250 ft <sup>2</sup>					
Light Ind/Mfg	3.69	560,000 ft <sup>2</sup>	353.78	321.62	7904.54	7185.95	7507.56
	5.08	390,000 ft <sup>2</sup>					
Office/Single	6.02	334,000 ft <sup>2</sup>	901.65	819.68	7532.62	6847.84	7667.52
	19.54	105 units					
Office/Apt	6.02	334,000 ft <sup>2</sup>	1017.01	924.55	7452.11	6774.65	7699.20
	9.17	219 units					
Bank/Single	206.22	9,500 ft <sup>2</sup>	510.57	464.15	7752.53	7047.75	7511.91
	19.54	126 units					
Bank/Apt	206.22	10,500 ft <sup>2</sup>	607.43	552.21	7689.73	6990.66	7542.87
	9.17	245 units					
Single/Apt/Office	19.54	50 units	973.05	884.59	7490.53	6809.57	7694.16
	9.17	170 units					
Single/Apt/Bank	6.02	250,000 ft <sup>2</sup>	621.04	564.58	7687.67	6988.79	7553.37
	19.54	50 units					
Office/Light Ind	9.17	170 units	659.21	599.28	7665.27	6968.43	7567.71
	206.22	8,900 ft <sup>2</sup>					
Office/Mfg	6.02	330,000 ft <sup>2</sup>	659.21	599.28	7691.67	6992.43	7591.71
	3.69	550,000 ft <sup>2</sup>					
Bank/Light Ind	6.02	330,000 ft <sup>2</sup>	194.56	176.87	7926.17	7205.61	7382.48
	5.08	405,000 ft <sup>2</sup>					
Bank/Mfg	206.22	11,750 ft <sup>2</sup>	194.56	176.87	7952.57	7229.61	7406.48
	3.69	550,000 ft <sup>2</sup>					
	206.22	11,750 ft <sup>2</sup>					
	5.08	405,000 ft <sup>2</sup>					
Avg CO2 (MT/year):							<b>7559.12</b>