

**Reasonable Estimate of  
*Potential* SB 375  
Greenhouse Gas Emission Reductions  
(County, Region and Air Basin)  
Based on EMFAC 2007**

Prepared by:

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# ***ASSUMPTIONS***

Information from EMFAC 2007 Ver 2.3  
Vehicle population number are from DMV  
Vehicle VMT estimations are from County Planning Agencies

## EMFAC Assumptions

Years = 1990, 2008, 2020  
Vehicle classes = LDA, LDT1, LDT2  
Annual  
All model years

Population data from Cal Dept of Finance  
1990 from Table 90 E-4  
2008 from Table E-1  
2020 from Table P-1

Fuel Carbon reductions from Low Carbon Fuel (LCF) Standard Draft Regulation  
Draft Reg requires 10% reduction in fuel carbon intensity by the year 2020  
Will go to Board March 2009.

CO<sub>2</sub>e = Carbon Dioxide Equivalent - The universal unit of measurement used to indicate the global warming potential (GWP) of each greenhouse gas  
The global warming impact of all greenhouse gases is measured in terms of equivalency to the impact of carbon dioxide (CO<sub>2</sub>) via global warming potentials. For example, one million tons of emitted methane, a far more potent greenhouse gas than carbon dioxide, is measured as 23 million metric tons of CO<sub>2</sub> equivalent, or 23 million MtCO<sub>2</sub>e.

## Summary by SB375 MPO/COG CO<sub>2</sub>e Emissions (Light Duty Autos and Trucks from EMFAC 2007)

SB 375 MPO	1990				2008				2020					% Increase 1990-2008				% Increase 1990-2020				
	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	LCF-CO <sub>2</sub> e	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	LCF-CO <sub>2</sub> e
Assn. of Bay Area Govts	5,997,200	3,626,524	124,896	61,554	7,301,080	4,554,965	148,262	71,571	7,975,241	5,483,975	176,025	84,370	75,940	21.7%	25.6%	18.7%	16.3%	33.0%	51.2%	40.9%	37.1%	23.4%
Assn. of Bay Area Govts	618,500	367,025	14,640	7,141	752,852	454,497	16,718	7,762	847,914	508,755	18,722	8,510	7,660	21.7%	23.8%	14.2%	8.7%	37.1%	38.6%	27.9%	19.2%	7.3%
Butte Co Assn. of Govts.	180,400	115,633	3,790	1,883	220,407	142,445	4,334	1,996	281,442	180,654	5,816	2,642	2,378	22.2%	23.2%	14.4%	6.0%	56.0%	56.2%	53.5%	40.3%	26.3%
Council of Fresno Co Govts.	661,400	264,204	10,346	5,146	931,098	427,226	15,676	7,162	1,201,792	554,460	20,547	9,256	8,331	40.8%	61.7%	51.5%	39.2%	81.7%	109.9%	98.6%	79.8%	61.9%
Kings Co Assn. of Govts.	100,800	29,959	1,278	621	154,434	62,515	2,505	1,158	205,707	81,180	3,280	1,496	1,347	53.2%	108.7%	96.0%	86.6%	104.1%	171.0%	156.7%	141.0%	117.0%
Kern Council of Govts.	537,300	243,239	9,889	5,011	817,517	383,146	14,809	7,175	1,086,113	536,207	20,752	9,762	8,787	52.2%	57.5%	49.8%	43.2%	102.1%	120.4%	109.8%	94.8%	75.4%
Madera Co Trans. Comm	86,400	42,934	1,952	943	150,887	84,548	3,581	1,685	212,874	118,425	5,189	2,322	2,090	74.6%	96.9%	83.5%	78.8%	146.4%	175.8%	165.8%	146.4%	121.8%
Merced Council of Govts.	176,300	80,676	3,942	1,875	255,250	125,643	5,615	2,543	348,690	170,551	7,895	3,548	3,193	44.8%	55.7%	42.4%	35.6%	97.8%	111.4%	100.3%	89.2%	70.3%
Sacramento Area Council of Govts	1,586,900	959,032	33,351	16,255	2,304,411	1,350,440	43,646	20,296	2,767,408	1,716,206	54,472	24,702	22,234	45.2%	40.8%	30.9%	24.9%	74.4%	79.0%	63.3%	52.0%	36.8%
San Diego Assn. of Govts.	2,480,100	1,420,909	58,199	32,159	3,146,274	1,886,164	71,436	34,484	3,550,714	2,191,067	80,338	38,202	34,385	26.9%	32.7%	22.7%	7.2%	43.2%	54.2%	38.0%	18.8%	6.9%
Santa Barbara Co Assn. of Govts.	368,000	234,935	8,666	4,506	428,655	283,864	9,801	4,011	459,498	355,559	12,342	5,010	4,510	16.5%	20.8%	13.1%	-11.0%	24.9%	51.3%	42.4%	11.2%	0.1%
Southern California Assn. of Govts.	14,547,000	7,484,710	278,908	139,956	18,636,934	9,679,843	349,739	170,388	21,416,262	11,460,042	393,182	191,133	172,035	28.1%	29.3%	25.4%	21.7%	47.2%	53.1%	41.0%	36.6%	22.9%
Shasta Co Regional Trans Planning Agency	145,300	90,411	3,088	1,572	182,236	122,439	3,842	1,817	224,386	167,047	5,521	2,572	2,315	25.4%	35.4%	24.4%	15.6%	54.4%	84.8%	78.8%	63.6%	47.2%
San Joaquin Council of Govts	477,700	208,284	8,374	4,043	685,660	348,046	13,015	5,850	965,094	476,405	18,021	8,098	7,289	43.5%	67.1%	55.4%	44.7%	102.0%	128.7%	115.2%	100.3%	80.3%
San Luis Obispo Council of Govts	215,000	141,454	5,122	2,548	269,337	192,296	6,512	3,187	293,540	262,356	9,066	4,042	3,655	25.3%	35.9%	27.1%	25.1%	36.5%	85.5%	77.0%	58.7%	43.5%
Stanislaus Council of Govts	365,100	178,715	6,212	2,912	525,903	266,687	8,354	3,853	699,144	330,917	10,565	4,900	4,410	44.0%	49.2%	34.5%	32.3%	91.5%	85.2%	70.1%	68.3%	51.5%
Tulare Co Assn. of Govts	309,200	141,338	4,946	2,333	435,254	231,041	7,661	3,434	599,117	306,786	10,286	4,522	4,070	40.8%	63.5%	54.9%	47.2%	93.8%	117.1%	108.0%	93.9%	74.5%
Other	705,330	527,297	18,609	9,395	851,246	674,613	21,282	9,910	1,000,987	920,402	30,325	13,853	12,470	20.7%	27.9%	14.4%	5.5%	41.9%	74.6%	63.0%	47.5%	32.7%

## Summary by County

### CO<sub>2</sub>e Emissions (Light Duty Autos and Trucks from EMFAC 2007)

County	1990				2008				2020				% Increase 1990-2008				% Increase 1990-2020			
	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e
Alameda	1,274,700	777,554	26,858	12,992.2	1,543,000	996,960	32,668	15,420.6	1,663,481	1,204,320	38,797	18,242.3	21.0%	28.2%	21.6%	18.7%	30.5%	54.9%	44.5%	40.4%
Alpine	1,100	787	29	13.6	1,222	996	31	14.5	1,453	1,357	46	20.0	11.1%	26.6%	6.9%	7.1%	32.1%	72.4%	58.6%	47.3%
Amador	29,600	23,625	785	352.6	37,943	33,481	1,031	428.9	47,593	45,681	1,440	587.5	28.2%	41.7%	31.3%	21.6%	60.8%	93.4%	83.4%	66.6%
Butte	180,400	115,633	3,790	1,882.5	220,407	142,445	4,334	1,995.7	281,442	180,654	5,816	2,642.1	22.2%	23.2%	14.4%	6.0%	56.0%	56.2%	53.5%	40.3%
Calaveras	31,550	27,456	941	471.8	46,127	41,587	1,320	611.7	56,318	56,740	1,867	851.2	46.2%	51.5%	40.3%	29.7%	78.5%	106.7%	98.4%	80.4%
Colusa	16,150	12,225	425	208.4	21,910	14,739	474	218.3	29,588	20,108	678	306.7	35.7%	20.6%	11.5%	4.8%	83.2%	64.5%	59.5%	47.2%
Contra Costa	797,600	498,398	17,521	8,555.9	1,051,674	667,271	22,060	10,737.5	1,237,544	786,320	25,457	12,326.8	31.9%	33.9%	25.9%	25.5%	55.2%	57.8%	45.3%	44.1%
Del Norte	21,650	14,920	561	286.0	29,419	17,556	568	265.9	36,077	23,952	805	368.6	35.9%	17.7%	1.2%	-7.0%	66.6%	60.5%	43.5%	28.9%
El Dorado	123,900	86,178	2,655	1,311.7	179,722	127,146	3,612	1,712.6	221,140	162,659	4,647	2,173.9	45.1%	47.5%	36.0%	30.6%	78.5%	88.7%	75.0%	65.7%
Fresno	661,400	264,204	10,346	5,146.4	931,098	427,226	15,676	7,161.6	1,201,792	554,460	20,547	9,255.7	40.8%	61.7%	51.5%	39.2%	81.7%	109.9%	98.6%	79.8%
Glenn	24,550	18,281	693	347.9	29,195	20,700	666	313.7	37,959	28,241	986	457.7	18.9%	13.2%	-3.9%	-9.8%	54.6%	54.5%	42.3%	31.6%
Humboldt	118,400	79,966	2,998	1,432.3	132,821	98,802	3,187	1,401.4	142,167	134,800	4,509	1,933.1	12.2%	23.6%	6.3%	-2.2%	20.1%	68.6%	50.4%	35.0%
Imperial	108,300	79,397	3,061	1,494.0	176,158	104,624	3,856	1,774.1	239,149	142,741	5,303	2,408.4	62.7%	31.8%	26.0%	18.8%	120.8%	79.8%	73.2%	61.2%
Inyo	18,200	14,922	548	284.2	18,152	17,493	604	286.2	20,495	23,867	853	395.7	-0.3%	17.2%	10.2%	0.7%	12.6%	59.9%	55.7%	39.3%
Kern	537,300	243,239	9,889	5,010.6	817,517	383,146	14,809	7,175.0	1,086,113	536,207	20,752	9,762.1	52.2%	57.5%	49.8%	43.2%	102.1%	120.4%	109.8%	94.8%
Kings	100,800	29,959	1,278	620.8	154,434	62,515	2,505	1,158.2	205,707	81,180	3,280	1,496.3	53.2%	108.7%	96.0%	86.6%	104.1%	171.0%	156.7%	141.0%
Lake	50,200	34,475	1,188	593.5	64,059	52,445	1,585	725.7	77,912	71,553	2,311	1,029.4	27.6%	52.1%	33.4%	22.3%	55.2%	107.6%	94.5%	73.4%
Lassen	27,000	16,634	550	296.7	35,757	22,643	680	334.6	42,394	30,892	974	471.3	32.4%	36.1%	23.6%	12.8%	57.0%	85.7%	77.1%	58.9%
Los Angeles	8,832,500	4,519,219	164,033	84,032.0	10,363,850	5,135,886	180,662	89,938.7	11,214,237	5,843,351	192,523	95,905.1	17.3%	13.6%	10.1%	7.0%	27.0%	29.3%	17.4%	14.1%
Madera	86,400	42,934	1,952	942.6	150,887	84,548	3,581	1,684.9	212,874	118,425	5,189	2,322.4	74.6%	96.9%	83.5%	78.8%	146.4%	175.8%	165.8%	146.4%
Marin	229,900	153,777	4,805	2,431.9	257,406	182,372	5,323	2,609.2	260,305	210,887	6,052	2,955.5	12.0%	18.6%	10.8%	7.3%	13.2%	37.1%	26.0%	21.5%
Mariposa	14,050	11,880	423	220.7	18,406	15,794	500	242.4	21,743	21,550	708	336.4	31.0%	32.9%	18.2%	9.9%	54.8%	81.4%	67.4%	52.5%
Mendocino	79,700	55,149	2,035	982.4	90,136	72,264	2,359	1,055.2	102,017	98,593	3,354	1,467.6	13.1%	31.0%	15.9%	7.4%	28.0%	78.8%	64.8%	49.4%
Merced	176,300	80,676	3,942	1,875.4	255,250	125,643	5,615	2,543.1	348,690	170,551	7,895	3,547.5	44.8%	55.7%	42.4%	35.6%	97.8%	111.4%	100.3%	89.2%
Modoc	9,600	5,857	189	114.3	9,702	7,118	204	112.2	13,134	9,709	286	156.1	1.1%	21.5%	7.9%	-1.8%	36.8%	65.8%	51.3%	36.6%
Mono	9,750	9,389	349	178.2	13,759	10,435	360	173.4	18,080	14,239	508	241.4	41.1%	11.1%	3.2%	-2.7%	85.4%	51.7%	45.6%	35.5%
Monterey	353,400	189,226	8,415	4,048.9	428,549	233,026	9,652	4,559.9	476,642	262,457	10,838	4,997.5	21.3%	23.1%	14.7%	12.6%	34.9%	38.7%	28.8%	23.4%
Napa	109,900	73,401	2,448	1,176.0	136,704	119,250	3,813	1,882.7	165,786	143,266	4,587	2,240.6	24.4%	62.5%	55.8%	60.1%	50.9%	95.2%	87.4%	90.5%
Nevada	77,500	56,415	1,970	947.0	99,186	78,050	2,474	1,112.9	114,451	106,487	3,429	1,517.2	28.0%	38.3%	25.6%	17.5%	47.7%	88.8%	74.1%	60.2%
Orange	2,398,400	1,308,977	49,057	24,346.1	3,121,251	1,827,400	63,842	30,878.2	3,520,265	2,136,924	69,850	33,395.7	30.1%	39.6%	30.1%	26.8%	46.8%	63.3%	42.4%	37.2%
Placer	170,100	108,782	3,785	1,845.4	333,401	206,485	7,102	3,325.1	428,535	280,703	9,062	4,065.9	96.0%	89.8%	87.6%	80.2%	151.9%	158.0%	139.4%	120.3%
Plumas	19,600	13,041	432	244.9	20,917	18,787	570	298.6	22,934	25,632	827	426.7	6.7%	44.1%	31.9%	21.9%	17.0%	96.5%	91.4%	74.2%
Riverside	1,144,400	572,585	24,506	11,607.2	2,088,322	1,076,930	45,232	21,703.9	2,904,848	1,434,672	57,623	27,821.8	82.5%	88.1%	84.6%	87.0%	153.8%	150.6%	135.1%	139.7%
Sacramento	1,031,500	619,680	21,622	10,549.5	1,424,415	795,268	25,378	11,773.9	1,622,306	963,300	30,128	13,588.2	38.1%	28.3%	17.4%	11.6%	57.3%	55.5%	39.3%	28.8%

## Summary by County (cont)

### CO<sub>2</sub>e Emissions (Light Duty Autos and Trucks from EMFAC 2007)

County	1990				2008				2020				% Increase 1990-2008				% Increase 1990-2020			
	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e	Pop	Veh Pop	VMT/1000	CO <sub>2</sub> e
San Benito	36,400	25,571	1,040	520.3	57,784	34,978	1,327	575.3	83,792	40,962	1,527	651.9	58.7%	36.8%	27.6%	10.6%	130.2%	60.2%	46.8%	25.3%
San Bernardino	1,396,600	637,556	26,708	12,957.7	2,055,766	1,026,495	41,299	19,193.7	2,581,371	1,312,241	51,323	23,998.3	47.2%	61.0%	54.6%	48.1%	84.8%	105.8%	92.2%	85.2%
San Diego	2,480,100	1,420,909	58,199	32,159.1	3,146,274	1,886,164	71,436	34,483.8	3,550,714	2,191,067	80,338	38,202.2	26.9%	32.7%	22.7%	7.2%	43.2%	54.2%	38.0%	18.8%
San Francisco	724,000	331,339	10,873	5,711.3	824,525	368,687	11,071	5,664.6	844,466	429,024	12,588	6,443.8	13.9%	11.3%	1.8%	-0.8%	16.6%	29.5%	15.8%	12.8%
San Joaquin	477,700	208,284	8,374	4,043.0	685,660	348,046	13,015	5,850.4	965,094	476,405	18,021	8,098.4	43.5%	67.1%	55.4%	44.7%	102.0%	128.7%	115.2%	100.3%
San Luis Obispo	215,000	141,454	5,122	2,547.6	269,337	192,296	6,512	3,186.5	293,540	262,356	9,066	4,042.0	25.3%	35.9%	27.1%	25.1%	36.5%	85.5%	77.0%	58.7%
San Mateo	647,400	444,355	14,923	7,267.0	739,469	520,462	17,451	8,005.0	761,455	637,334	20,198	9,209.5	14.2%	17.1%	16.9%	10.2%	17.6%	43.4%	35.3%	26.7%
Santa Barbara	368,000	234,935	8,666	4,506.5	428,655	283,864	9,801	4,011.1	459,498	355,559	12,342	5,010.3	16.5%	20.8%	13.1%	-11.0%	24.9%	51.3%	42.4%	11.2%
Santa Clara	1,493,800	924,105	31,293	15,422.4	1,837,075	1,130,516	35,445	17,169.1	1,992,805	1,376,869	42,917	20,526.1	23.0%	22.3%	13.3%	11.3%	33.4%	49.0%	37.1%	33.1%
Santa Cruz	228,700	152,228	5,185	2,571.8	266,519	186,493	5,739	2,626.5	287,480	205,336	6,357	2,860.8	16.5%	22.5%	10.7%	2.1%	25.7%	34.9%	22.6%	11.2%
Shasta	145,300	90,411	3,088	1,572.4	182,236	122,439	3,842	1,817.0	224,386	167,047	5,521	2,571.9	25.4%	35.4%	24.4%	15.6%	54.4%	84.8%	78.8%	63.6%
Sierra	3,280	2,739	92	53.5	3,380	3,241	96	52.1	3,508	4,422	137	72.7	3.0%	18.3%	4.3%	-2.7%	7.0%	61.4%	48.9%	35.8%
Siskiyou	43,300	40,165	1,325	742.0	45,971	41,184	1,205	619.1	51,283	56,189	1,745	877.6	6.2%	2.5%	-9.1%	-16.6%	18.4%	39.9%	31.7%	18.3%
Solano	335,200	175,440	7,988	3,909.4	426,757	237,384	10,241	4,853.2	503,248	309,021	13,484	6,365.3	27.3%	35.3%	28.2%	24.1%	50.1%	76.1%	68.8%	62.8%
Sonoma	384,700	248,155	8,187	4,088.0	484,470	332,063	10,190	5,229.6	546,151	386,934	11,945	6,060.4	25.9%	33.8%	24.5%	27.9%	42.0%	55.9%	45.9%	48.2%
Stanislaus	365,100	178,715	6,212	2,911.8	525,903	266,687	8,354	3,853.1	699,144	330,917	10,565	4,899.6	44.0%	49.2%	34.5%	32.3%	91.5%	85.2%	70.1%	68.3%
Sutter	63,700	39,697	1,313	657.5	95,878	60,559	1,881	873.7	141,159	94,052	3,007	1,376.7	50.5%	52.6%	43.3%	32.9%	121.6%	136.9%	129.0%	109.4%
Tehama	49,100	39,311	1,354	693.1	62,419	48,440	1,530	726.4	79,484	66,087	2,204	1,034.7	27.1%	23.2%	13.0%	4.8%	61.9%	68.1%	62.8%	49.3%
Trinity	13,050	9,843	343	211.1	13,966	11,144	341	192.8	18,236	15,204	495	274.6	7.0%	13.2%	-0.6%	-8.6%	39.7%	54.5%	44.3%	30.1%
Tulare	309,200	141,338	4,946	2,332.5	435,254	231,041	7,661	3,434.1	599,117	306,786	10,286	4,521.7	40.8%	63.5%	54.9%	47.2%	93.8%	117.1%	108.0%	93.9%
Tuolumne	48,000	40,217	1,379	720.9	56,799	47,714	1,497	723.6	64,161	65,099	2,163	1,027.3	18.3%	18.6%	8.6%	0.4%	33.7%	61.9%	56.9%	42.5%
Ventura	666,800	366,976	11,543	5,519.0	831,587	508,508	14,848	6,899.8	956,392	590,113	16,560	7,603.9	24.7%	38.6%	28.6%	25.0%	43.4%	60.8%	43.5%	37.8%
Yolo	140,000	76,245	2,941	1,373.2	199,066	119,095	4,279	1,963.1	245,052	156,033	5,544	2,544.2	42.2%	56.2%	45.5%	43.0%	75.0%	104.6%	88.5%	85.3%
Yuba	57,700	28,450	1,035	517.5	71,929	41,887	1,394	647.2	109,216	59,459	2,084	953.4	24.7%	47.2%	34.7%	25.1%	89.3%	109.0%	101.4%	84.2%

## Summary by County - Low Fuel Carbon Reduction CO<sub>2</sub>e Emissions (Light Duty Autos and Trucks from EMFAC 2007)

County	1990			2020			% Increase 1990-2020			Uncontrolled	
	Veh Pop	VMT/1000	CO <sub>2</sub> e	Veh Pop	VMT/1000	CO <sub>2</sub> e	Veh Pop	VMT/1000	CO <sub>2</sub> e	CO <sub>2</sub> e	% Increase
Alameda	777,554	26,858	12,992.2	1,204,320	38,797	16,419.5	54.9%	44.5%	26.4%	18,242.3	40.4%
Alpine	787	29	13.6	1,357	46	18.0	72.4%	58.6%	32.6%	20.0	47.3%
Amador	23,625	785	352.6	45,681	1,440	528.8	93.4%	83.4%	50.0%	587.5	66.6%
Butte	115,633	3,790	1,882.5	180,654	5,816	2,378.1	56.2%	53.5%	26.3%	2,642.1	40.3%
Calaveras	27,456	941	471.8	56,740	1,867	766.2	106.7%	98.4%	62.4%	851.2	80.4%
Colusa	12,225	425	208.4	20,108	678	276.0	64.5%	59.5%	32.5%	306.7	47.2%
Contra Costa	498,398	17,521	8,555.9	786,320	25,457	11,095.1	57.8%	45.3%	29.7%	12,326.8	44.1%
Del Norte	14,920	561	286.0	23,952	805	331.8	60.5%	43.5%	16.0%	368.6	28.9%
El Dorado	86,178	2,655	1,311.7	162,659	4,647	1,956.6	88.7%	75.0%	49.2%	2,173.9	65.7%
Fresno	264,204	10,346	5,146.4	554,460	20,547	8,330.8	109.9%	98.6%	61.9%	9,255.7	79.8%
Glenn	18,281	693	347.9	28,241	986	412.0	54.5%	42.3%	18.4%	457.7	31.6%
Humboldt	79,966	2,998	1,432.3	134,800	4,509	1,740.1	68.6%	50.4%	21.5%	1,933.1	35.0%
Imperial	79,397	3,061	1,494.0	142,741	5,303	2,167.9	79.8%	73.2%	45.1%	2,408.4	61.2%
Inyo	14,922	548	284.2	23,867	853	356.2	59.9%	55.7%	25.3%	395.7	39.3%
Kern	243,239	9,889	5,010.6	536,207	20,752	8,786.5	120.4%	109.8%	75.4%	9,762.1	94.8%
Kings	29,959	1,278	620.8	81,180	3,280	1,346.8	171.0%	156.7%	117.0%	1,496.3	141.0%
Lake	34,475	1,188	593.5	71,553	2,311	926.6	107.6%	94.5%	56.1%	1,029.4	73.4%
Lassen	16,634	550	296.7	30,892	974	424.3	85.7%	77.1%	43.0%	471.3	58.9%
Los Angeles	4,519,219	164,033	84,032.0	5,843,351	192,523	86,322.5	29.3%	17.4%	2.7%	95,905.1	14.1%
Madera	42,934	1,952	942.6	118,425	5,189	2,090.3	175.8%	165.8%	121.8%	2,322.4	146.4%
Marin	153,777	4,805	2,431.9	210,887	6,052	2,660.2	37.1%	26.0%	9.4%	2,955.5	21.5%
Mariposa	11,880	423	220.7	21,550	708	302.8	81.4%	67.4%	37.2%	336.4	52.5%
Mendocino	55,149	2,035	982.4	98,593	3,354	1,321.0	78.8%	64.8%	34.5%	1,467.6	49.4%
Merced	80,676	3,942	1,875.4	170,551	7,895	3,193.0	111.4%	100.3%	70.3%	3,547.5	89.2%
Modoc	5,857	189	114.3	9,709	286	140.5	65.8%	51.3%	23.0%	156.1	36.6%
Mono	9,389	349	178.2	14,239	508	217.3	51.7%	45.6%	22.0%	241.4	35.5%
Monterey	189,226	8,415	4,048.9	262,457	10,838	4,498.3	38.7%	28.8%	11.1%	4,997.5	23.4%
Napa	73,401	2,448	1,176.0	143,266	4,587	2,016.7	95.2%	87.4%	71.5%	2,240.6	90.5%
Nevada	56,415	1,970	947.0	106,487	3,429	1,365.6	88.8%	74.1%	44.2%	1,517.2	60.2%

## Summary by County - Low Fuel Carbon Reduction (cont)

### CO<sub>2</sub>e Emissions (Light Duty Autos and Trucks from EMFAC 2007)

County	1990			2020			% Increase 1990-2020			Uncontrolled	
	Veh Pop	VMT/1000	CO <sub>2</sub> e	Veh Pop	VMT/1000	CO <sub>2</sub> e	Veh Pop	VMT/1000	CO <sub>2</sub> e	CO <sub>2</sub> e	% Increase
Orange	1,308,977	49,057	24,346.1	2,136,924	69,850	30,058.7	63.3%	42.4%	23.5%	33,395.7	37.2%
Placer	108,782	3,785	1,845.4	280,703	9,062	3,659.6	158.0%	139.4%	98.3%	4,065.9	120.3%
Plumas	13,041	432	244.9	25,632	827	384.1	96.5%	91.4%	56.8%	426.7	74.2%
Riverside	572,585	24,506	11,607.2	1,434,672	57,623	25,041.6	150.6%	135.1%	115.7%	27,821.8	139.7%
Sacramento	619,680	21,622	10,549.5	963,300	30,128	12,230.4	55.5%	39.3%	15.9%	13,588.2	28.8%
San Benito	25,571	1,040	520.3	40,962	1,527	586.8	60.2%	46.8%	12.8%	651.9	25.3%
San Bernardino	637,556	26,708	12,957.7	1,312,241	51,323	21,600.3	105.8%	92.2%	66.7%	23,998.3	85.2%
San Diego	1,420,909	58,199	32,159.1	2,191,067	80,338	34,385.3	54.2%	38.0%	6.9%	38,202.2	18.8%
San Francisco	331,339	10,873	5,711.3	429,024	12,588	5,799.9	29.5%	15.8%	1.6%	6,443.8	12.8%
San Joaquin	208,284	8,374	4,043.0	476,405	18,021	7,289.2	128.7%	115.2%	80.3%	8,098.4	100.3%
San Luis Obispo	141,454	5,122	2,547.6	262,356	9,066	3,655.3	85.5%	77.0%	43.5%	4,042.0	58.7%
San Mateo	444,355	14,923	7,267.0	637,334	20,198	8,289.2	43.4%	35.3%	14.1%	9,209.5	26.7%
Santa Barbara	234,935	8,666	4,506.5	355,559	12,342	4,509.7	51.3%	42.4%	0.1%	5,010.3	11.2%
Santa Clara	924,105	31,293	15,422.4	1,376,869	42,917	18,475.2	49.0%	37.1%	19.8%	20,526.1	33.1%
Santa Cruz	152,228	5,185	2,571.8	205,336	6,357	2,575.1	34.9%	22.6%	0.1%	2,860.8	11.2%
Shasta	90,411	3,088	1,572.4	167,047	5,521	2,315.0	84.8%	78.8%	47.2%	2,571.9	63.6%
Sierra	2,739	92	53.5	4,422	137	65.4	61.4%	48.9%	22.2%	72.7	35.8%
Siskiyou	40,165	1,325	742.0	56,189	1,745	789.9	39.9%	31.7%	6.5%	877.6	18.3%
Solano	175,440	7,988	3,909.4	309,021	13,484	5,729.2	76.1%	68.8%	46.6%	6,365.3	62.8%
Sonoma	248,155	8,187	4,088.0	386,934	11,945	5,454.9	55.9%	45.9%	33.4%	6,060.4	48.2%
Stanislaus	178,715	6,212	2,911.8	330,917	10,565	4,410.0	85.2%	70.1%	51.5%	4,899.6	68.3%
Sutter	39,697	1,313	657.5	94,052	3,007	1,239.1	136.9%	129.0%	88.5%	1,376.7	109.4%
Tehama	39,311	1,354	693.1	66,087	2,204	931.3	68.1%	62.8%	34.4%	1,034.7	49.3%
Trinity	9,843	343	211.1	15,204	495	247.2	54.5%	44.3%	17.1%	274.6	30.1%
Tulare	141,338	4,946	2,332.5	306,786	10,286	4,069.9	117.1%	108.0%	74.5%	4,521.7	93.9%
Tuolumne	40,217	1,379	720.9	65,099	2,163	924.6	61.9%	56.9%	28.3%	1,027.3	42.5%
Ventura	366,976	11,543	5,519.0	590,113	16,560	6,844.1	60.8%	43.5%	24.0%	7,603.9	37.8%
Yolo	76,245	2,941	1,373.2	156,033	5,544	2,290.0	104.6%	88.5%	66.8%	2,544.2	85.3%
Yuba	28,450	1,035	517.5	59,459	2,084	858.1	109.0%	101.4%	65.8%	953.4	84.2%

## Summary by Air Basin

### CO<sub>2</sub>e Emissions (Light Duty Autos and Trucks from EMFAC 2007)

Basin	1990			2008			2020			% Increase 1990-2008			% Increase 1990-2020		
	Veh Pop	VMT/1000	CO <sub>2</sub> e	Veh Pop	VMT/1000	CO <sub>2</sub> e	Veh Pop	VMT/1000	CO <sub>2</sub> e	Veh Pop	VMT/1000	CO <sub>2</sub> e	Veh Pop	VMT/1000	CO <sub>2</sub> e
Great Basin Valley	25,098	926	475.9	28,924	995	474.1	39,463	1,407	657.1	15.2%	7.5%	-0.4%	57.2%	51.9%	38.1%
Lake County	34,475	1,188	593.5	52,445	1,585	725.7	71,553	2,311	1,029.4	52.1%	33.4%	22.3%	107.6%	94.5%	73.4%
Lake Tahoe	23,332	875	463.4	32,354	1,046	531.0	44,139	1,505	752.0	38.7%	19.5%	14.6%	89.2%	72.0%	62.3%
Mountain Counties	252,678	8,329	4,120.5	358,981	10,892	5,055.5	477,546	14,842	6,768.7	42.1%	30.8%	22.7%	89.0%	78.2%	64.3%
Mojave Desert	350,899	15,357	7,339.3	525,087	22,747	10,523.9	713,306	30,483	14,033.3	49.6%	48.1%	43.4%	103.3%	98.5%	91.2%
North Coast	195,796	7,100	3,573.3	245,410	7,819	3,625.4	325,904	10,795	4,873.6	25.3%	10.1%	1.5%	66.5%	52.0%	36.4%
North Central Coast	367,025	14,640	7,141.0	454,497	16,718	7,761.6	508,755	18,722	8,510.3	23.8%	14.2%	8.7%	38.6%	27.9%	19.2%
Northeast Plateau	62,656	2,064	1,152.9	70,945	2,089	1,065.9	96,790	3,005	1,505.0	13.2%	1.2%	-7.6%	54.5%	45.6%	30.5%
South Coast	6,571,331	245,101	123,713.6	8,402,272	303,929	149,068.0	9,821,114	335,397	164,298.8	27.9%	24.0%	20.5%	49.5%	36.8%	32.8%
South Central Coast	743,365	25,331	12,573.1	984,668	31,161	14,097.5	1,208,028	37,968	16,656.1	32.5%	23.0%	12.1%	62.5%	49.9%	32.5%
San Diego	1,420,909	58,199	32,159.1	1,886,164	71,436	34,483.8	2,191,067	80,338	38,202.2	32.7%	22.7%	7.2%	54.2%	38.0%	18.8%
San Francisco Bay	3,549,704	120,691	59,356.4	4,450,205	142,733	68,917.8	5,344,017	168,353	80,701.3	25.4%	18.3%	16.1%	50.5%	39.5%	36.0%
San Joaquin Valley	1,132,372	44,444	21,713.9	1,844,593	67,655	31,148.8	2,453,068	91,301	41,585.9	62.9%	52.2%	43.5%	116.6%	105.4%	91.5%
Salton Sea	252,481	9,402	4,553.4	328,235	11,776	5,608.1	457,372	15,976	7,515.0	30.0%	25.2%	23.2%	81.2%	69.9%	65.0%
Sacramento Valley	1,175,158	42,561	20,922.7	1,605,638	54,207	25,194.0	2,068,872	69,941	31,852.9	36.6%	27.4%	20.4%	76.1%	64.3%	52.2%
<b>STATEWIDE</b>	<b>16,157,279</b>	<b>596,208</b>	<b>299,852</b>	<b>21,270,418</b>	<b>746,788</b>	<b>358,281</b>	<b>25,820,994</b>	<b>882,344</b>	<b>418,942</b>	<b>31.6%</b>	<b>25.3%</b>	<b>19.5%</b>	<b>59.8%</b>	<b>48.0%</b>	<b>39.7%</b>