

**California Greenhouse Gas Inventory for 2000-2006**  
**— by Category as Defined in the Scoping Plan**

*million tonnes of CO2 equivalent - (based upon IPCC Second Assessment Report's Global Warming Potentials)*

	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>
<b>Transportation</b>	<b>171.94</b>	<b>174.62</b>	<b>181.32</b>	<b>178.90</b>	<b>183.03</b>	<b>185.82</b>	<b>185.77</b>
<b>On Road</b>	<b>159.42</b>	<b>161.71</b>	<b>168.41</b>	<b>166.20</b>	<b>169.24</b>	<b>170.85</b>	<b>170.55</b>
Passenger Vehicles	126.43	128.76	134.93	132.32	133.73	134.03	133.37
Heavy Duty Trucks	32.98	32.95	33.48	33.88	35.51	36.82	37.18
<b>Ships &amp; Commercial Boats</b>	<b>3.82</b>	<b>3.61</b>	<b>3.92</b>	<b>4.09</b>	<b>4.11</b>	<b>4.42</b>	<b>4.50</b>
<b>Aviation (Intrastate)</b>	<b>3.32</b>	<b>3.17</b>	<b>3.47</b>	<b>3.29</b>	<b>3.78</b>	<b>3.86</b>	<b>3.92</b>
<b>Rail</b>	<b>1.86</b>	<b>1.87</b>	<b>2.48</b>	<b>2.41</b>	<b>2.89</b>	<b>3.32</b>	<b>3.49</b>
<b>Unspecified</b>	<b>3.53</b>	<b>4.25</b>	<b>3.04</b>	<b>2.92</b>	<b>3.01</b>	<b>3.38</b>	<b>3.30</b>
<b>Electric Power</b>	<b>102.59</b>	<b>115.93</b>	<b>101.13</b>	<b>105.04</b>	<b>115.65</b>	<b>106.35</b>	<b>105.92</b>
<b>In-State Generation</b>	<b>59.93</b>	<b>63.86</b>	<b>50.87</b>	<b>49.08</b>	<b>57.40</b>	<b>51.75</b>	<b>56.28</b>
Natural Gas	51.06	55.55	42.42	41.01	48.66	43.21	47.62
Other Fuels	8.87	8.31	8.45	8.07	8.74	8.54	8.67
<b>Imported Electricity</b>	<b>42.66</b>	<b>52.06</b>	<b>50.26</b>	<b>55.96</b>	<b>58.25</b>	<b>54.60</b>	<b>49.63</b>
Unspecified Imports	11.97	19.44	20.20	25.20	26.36	23.33	24.29
Specified Imports	30.69	32.62	30.05	30.76	31.89	31.27	25.35
<b>Commercial and Residential</b>	<b>45.18</b>	<b>43.03</b>	<b>44.68</b>	<b>42.95</b>	<b>44.68</b>	<b>43.90</b>	<b>44.37</b>
<b>Residential Fuel Use</b>	<b>32.20</b>	<b>30.45</b>	<b>30.22</b>	<b>29.88</b>	<b>31.54</b>	<b>30.94</b>	<b>31.12</b>
Natural Gas	28.52	27.34	28.03	26.59	27.30	25.89	26.44
Other Fuels	3.68	3.11	2.19	3.29	4.24	5.04	4.69
<b>Commercial Fuel Use</b>	<b>11.87</b>	<b>11.50</b>	<b>13.38</b>	<b>12.80</b>	<b>12.66</b>	<b>12.82</b>	<b>13.07</b>
Natural Gas	10.24	10.07	12.11	11.34	11.13	10.90	11.44
Other Fuels	1.63	1.43	1.27	1.46	1.53	1.92	1.63
<b>Commercial Cogeneration Heat Output</b>	<b>1.11</b>	<b>1.07</b>	<b>1.08</b>	<b>0.26</b>	<b>0.49</b>	<b>0.15</b>	<b>0.17</b>
<b>Industrial</b>	<b>101.02</b>	<b>98.84</b>	<b>101.01</b>	<b>99.88</b>	<b>94.50</b>	<b>93.71</b>	<b>96.05</b>
<b>Refineries</b>	<b>34.68</b>	<b>34.65</b>	<b>35.13</b>	<b>36.29</b>	<b>35.42</b>	<b>36.82</b>	<b>37.82</b>
<b>General Fuel Use</b>	<b>20.22</b>	<b>19.62</b>	<b>21.69</b>	<b>17.79</b>	<b>17.73</b>	<b>15.45</b>	<b>16.09</b>
Natural Gas	13.82	11.92	12.80	10.26	10.52	9.86	9.56
Other Fuels	6.40	7.70	8.89	7.53	7.21	5.59	6.53
<b>Oil &amp; Gas Extraction [1]</b>	<b>18.55</b>	<b>18.57</b>	<b>17.53</b>	<b>19.69</b>	<b>19.48</b>	<b>18.17</b>	<b>18.64</b>
Fuel Use	17.86	17.74	16.80	18.95	19.11	17.82	17.88
Fugitive Emissions	0.69	0.83	0.73	0.74	0.37	0.35	0.77
<b>Cement Plants</b>	<b>9.53</b>	<b>9.64</b>	<b>9.74</b>	<b>9.85</b>	<b>9.95</b>	<b>10.05</b>	<b>9.90</b>
Clinker Production	5.43	5.52	5.60	5.68	5.77	5.85	5.80
Fuel Use	4.10	4.12	4.14	4.16	4.18	4.20	4.11
<b>Cogeneration Heat Output</b>	<b>11.96</b>	<b>10.69</b>	<b>10.84</b>	<b>10.79</b>	<b>6.19</b>	<b>6.91</b>	<b>6.90</b>
<b>Other Process Emissions</b>	<b>6.08</b>	<b>5.66</b>	<b>6.08</b>	<b>5.48</b>	<b>5.74</b>	<b>6.30</b>	<b>6.69</b>
<b>Recycling and Waste</b>	<b>5.86</b>	<b>5.94</b>	<b>5.89</b>	<b>5.97</b>	<b>5.91</b>	<b>6.21</b>	<b>6.31</b>
<b>Landfills [2]</b>	<b>5.86</b>	<b>5.94</b>	<b>5.89</b>	<b>5.97</b>	<b>5.91</b>	<b>6.21</b>	<b>6.31</b>

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	2000	2001	2002	2003	2004	2005	2006
<b>High GWP</b>	<b>10.94</b>	<b>11.42</b>	<b>12.06</b>	<b>12.90</b>	<b>13.79</b>	<b>14.51</b>	<b>15.15</b>
<i>Ozone Depleting Substance (ODS) Substitutes</i>	<b>8.58</b>	<b>9.44</b>	<b>10.33</b>	<b>11.20</b>	<b>12.08</b>	<b>12.79</b>	<b>13.38</b>
<i>Electricity Grid SF6 Losses [3]</i>	<b>1.13</b>	<b>1.12</b>	<b>1.04</b>	<b>1.01</b>	<b>1.02</b>	<b>1.01</b>	<b>0.99</b>
<i>Semiconductor Manufacturing [2]</i>	<b>1.23</b>	<b>0.86</b>	<b>0.69</b>	<b>0.69</b>	<b>0.69</b>	<b>0.71</b>	<b>0.77</b>
<b>Agriculture [4]</b>	<b>25.46</b>	<b>25.47</b>	<b>28.54</b>	<b>28.66</b>	<b>28.95</b>	<b>29.20</b>	<b>30.13</b>
<b>Livestock</b>	<b>13.53</b>	<b>14.04</b>	<b>14.53</b>	<b>14.90</b>	<b>14.80</b>	<b>15.41</b>	<b>15.68</b>
Enteric Fermentation (Digestive Process)	7.07	7.21	7.42	7.54	7.50	7.78	7.88
Manure Management	6.46	6.84	7.11	7.36	7.29	7.63	7.80
<b>Crop Growing &amp; Harvesting</b>	<b>8.12</b>	<b>7.62</b>	<b>9.63</b>	<b>9.57</b>	<b>9.65</b>	<b>9.19</b>	<b>9.24</b>
Fertilizers	6.96	6.63	8.50	8.45	8.44	7.99	7.86
Soil Preparation and Disturbances	1.07	0.91	1.06	1.04	1.13	1.12	1.31
Crop Residue Burning	0.09	0.07	0.07	0.08	0.07	0.07	0.07
<b>General Fuel Use</b>	<b>3.82</b>	<b>3.81</b>	<b>4.39</b>	<b>4.20</b>	<b>4.50</b>	<b>4.60</b>	<b>5.22</b>
Diesel	2.51	2.68	3.02	2.94	3.15	3.38	3.83
Natural Gas	1.00	0.75	0.95	0.85	0.82	0.69	0.81
Gasoline	0.31	0.38	0.40	0.41	0.52	0.52	0.57
Other Fuels	0.01	0.00	0.00	0.00	0.00	0.00	0.01
<b>Forestry</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>
<i>Wildfire (CH4 &amp; N2O Emissions)</i>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>
<b>Total Gross Emissions</b>	<b>463.19</b>	<b>475.43</b>	<b>474.82</b>	<b>474.50</b>	<b>486.71</b>	<b>479.89</b>	<b>483.87</b>
<b>Forestry Net Emissions</b>	<b>-4.74</b>	<b>-4.54</b>	<b>-4.40</b>	<b>-4.38</b>	<b>-4.36</b>	<b>-4.19</b>	<b>-4.07</b>
<b>Total Net Emissions</b>	<b>458.45</b>	<b>470.89</b>	<b>470.42</b>	<b>470.12</b>	<b>482.35</b>	<b>475.70</b>	<b>479.80</b>

[1] Reflects emissions from combustion of natural gas, diesel, and lease fuel plus fugitive emissions

[2] These categories are listed in the Industrial sector of ARB's GHG Emission Inventory sectors

[3] This category is listed in the Electric Power sector of ARB's GHG Emission Inventory sectors

[4] Reflects use of updated USEPA models for determining emissions from livestock and fertilizers