

## California Greenhouse Gas Inventory for 2000-2010 — by IPCC Category

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

<b>Gross emissions &amp; sinks</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>1 - Energy</b>	<b>404.81</b>	<b>422.08</b>	<b>418.56</b>	<b>417.19</b>	<b>426.88</b>	<b>419.81</b>	<b>416.21</b>	<b>422.34</b>	<b>422.66</b>	<b>391.89</b>	<b>384.99</b>
<b>1A - Fuel Combustion Activities</b>	<b>399.62</b>	<b>417.06</b>	<b>413.31</b>	<b>412.33</b>	<b>422.35</b>	<b>414.89</b>	<b>410.64</b>	<b>416.81</b>	<b>417.10</b>	<b>387.12</b>	<b>379.87</b>
<b>1A1 - Energy Industries</b>	<b>159.14</b>	<b>175.71</b>	<b>161.40</b>	<b>166.92</b>	<b>171.62</b>	<b>163.37</b>	<b>157.10</b>	<b>165.81</b>	<b>173.67</b>	<b>151.64</b>	<b>140.92</b>
1A1a - Main Activity Electricity and Heat Production	116.38	132.30	119.13	122.24	127.50	119.42	115.88	124.34	129.70	113.34	100.87
1A1ai - Electricity Generation	84.808	103.494	86.523	92.866	98.066	91.194	88.845	98.223	104.632	84.156	75.263
1A1aii - Combined Heat and Power Generation (CHP)	31.568	28.807	32.604	29.377	29.430	28.230	27.037	26.117	25.072	29.179	25.612
1A1b - Petroleum Refining	25.14	25.80	25.89	26.70	25.79	26.92	27.54	27.08	26.42	21.96	24.43
1A1c - Manufacture of Solid Fuels and Other Energy Industries	17.63	17.60	16.39	17.98	18.33	17.02	13.68	14.40	17.54	16.35	15.61
1A1cii - Other Energy Industries	17.625	17.604	16.387	17.984	18.327	17.022	13.676	14.398	17.536	16.350	15.610
<b>1A2 - Manufacturing Industries and Construction</b>	<b>24.80</b>	<b>23.53</b>	<b>25.04</b>	<b>21.35</b>	<b>21.55</b>	<b>20.78</b>	<b>20.81</b>	<b>19.26</b>	<b>20.26</b>	<b>18.65</b>	<b>21.04</b>
1A2c - Chemicals	4.55	4.08	3.97	2.60	3.22	3.81	3.78	3.13	3.91	3.82	5.36
1A2d - Pulp, Paper and Print	1.05	0.94	1.01	0.92	0.94	0.62	0.64	0.55	0.46	0.40	0.40
1A2e - Food Processing, Beverages and Tobacco	3.89	3.51	3.80	3.12	3.16	3.02	3.31	3.32	3.18	3.12	3.08
1A2f - Non-Metallic Minerals	5.42	5.28	5.47	5.29	5.27	5.32	5.32	4.78	4.33	2.93	2.89
1A2g - Transport Equipment	0.46	0.48	0.52	0.31	0.27	0.27	0.26	0.28	0.29	0.25	0.25
1A2h - Machinery	1.75	1.27	1.33	0.98	1.01	1.02	1.04	0.99	0.93	0.82	0.80
1A2i - Mining (excluding fuels) and Quarrying	0.86	0.31	0.31	0.34	0.36	0.34	0.11	0.16	0.19	0.14	0.15
1A2j - Wood and Wood Products	0.40	0.31	0.19	0.16	0.11	0.11	0.11	0.08	0.07	0.05	0.05
1A2k - Construction	0.41	0.60	0.62	0.63	0.78	0.74	0.62	0.50	0.45	0.43	0.51
1A2l - Textile and Leather	0.56	0.54	0.59	0.45	0.44	0.43	0.39	0.35	0.31	0.23	0.24
1A2m - Non-specified Industry.	4.65	5.42	6.31	5.80	5.27	4.49	4.77	4.59	5.62	6.10	6.84
<b>1A3 - Transport</b>	<b>170.68</b>	<b>173.91</b>	<b>180.43</b>	<b>178.47</b>	<b>182.45</b>	<b>185.33</b>	<b>185.97</b>	<b>186.36</b>	<b>177.24</b>	<b>172.49</b>	<b>172.24</b>
1A3a - Civil Aviation	3.86	3.70	4.00	3.84	4.37	4.84	5.04	5.26	5.22	5.33	4.76
1A3aii - Domestic Aviation	3.593	3.457	3.732	3.571	4.126	4.616	4.829	5.032	5.032	5.173	4.625
1A3b - Road Transportation	159.51	162.34	168.79	166.61	169.85	171.35	171.63	172.66	164.39	160.25	159.70
1A3bi - Cars	65.678	65.189	67.045	63.132	62.436	61.022	61.103	61.241	58.835	58.175	57.930
1A3bii - Light-duty Trucks	60.810	63.633	68.070	69.224	71.436	72.705	72.457	72.461	69.293	68.209	67.673
1A3biii - Heavy-duty Trucks and Buses	32.660	33.054	33.157	33.532	35.189	36.523	36.928	37.737	35.020	32.559	32.704
1A3biv - Motorcycles	0.242	0.319	0.362	0.534	0.580	0.594	0.609	0.623	0.607	0.608	0.611
1A3c - Railways	1.88	1.89	2.50	2.70	2.91	3.34	3.53	3.17	2.58	1.95	2.35
1A3d - Water-borne Navigation	3.21	2.99	3.28	3.42	3.42	3.69	3.74	3.71	3.62	3.42	3.39
1A3di - International Water-borne Navigation (International Bunkers)	0.842	0.885	0.930	0.977	1.026	1.077	1.130	1.093	1.074	0.939	0.985
1A3dii - Domestic Water-borne Navigation	2.372	2.100	2.345	2.448	2.393	2.610	2.610	2.622	2.545	2.485	2.403
<b>1A4 - Other Sectors</b>	<b>45.00</b>	<b>43.91</b>	<b>46.44</b>	<b>45.59</b>	<b>46.73</b>	<b>45.41</b>	<b>46.76</b>	<b>45.38</b>	<b>45.94</b>	<b>44.34</b>	<b>45.67</b>
1A4a - Commercial/Institutional	11.53	11.36	13.17	12.80	12.76	12.60	12.88	12.87	12.99	13.04	13.47
1A4b - Residential	29.65	28.72	28.88	28.41	29.45	28.18	28.55	28.70	29.03	28.65	29.38
1A4c - Agriculture/Forestry/Fishing/Fish Farms	3.82	3.83	4.39	4.38	4.53	4.63	5.33	3.80	3.92	2.65	2.82

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<b>Gross emissions &amp; sinks</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>1B - Fugitive Emissions from Fuels</b>	<b>5.19</b>	<b>5.02</b>	<b>5.25</b>	<b>4.86</b>	<b>4.53</b>	<b>4.92</b>	<b>5.57</b>	<b>5.53</b>	<b>5.56</b>	<b>4.77</b>	<b>5.12</b>
<b>1B1 - Solid Fuels</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>
<b>1B2 - Oil and Natural Gas</b>	<b>3.03</b>	<b>2.89</b>	<b>2.97</b>	<b>2.60</b>	<b>2.25</b>	<b>2.64</b>	<b>3.32</b>	<b>3.27</b>	<b>3.33</b>	<b>3.34</b>	<b>3.94</b>
1B2a - Oil	0.47	0.45	0.46	0.45	0.43	0.46	0.47	0.46	0.45	0.44	0.48
1B2ai - Venting	0.063	0.065	0.065	0.066	0.065	0.067	0.068	0.068	0.067	0.062	0.049
1B2aii - Flaring	0.056	0.058	0.058	0.059	0.058	0.060	0.061	0.060	0.060	0.055	0.055
1B2aiii - All Other	0.348	0.326	0.332	0.327	0.313	0.330	0.337	0.334	0.327	0.318	0.375
1B2b - Natural Gas	1.76	1.48	1.70	1.32	1.35	1.74	1.93	1.92	1.94	1.96	2.53
<b>1B3 - Geothermal Energy Production</b>	<b>2.02</b>	<b>2.00</b>	<b>2.14</b>	<b>2.12</b>	<b>2.15</b>	<b>2.14</b>	<b>2.11</b>	<b>2.13</b>	<b>2.10</b>	<b>1.31</b>	<b>1.10</b>
<b>1B4 - Pollution control devices</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>0.10</b>	<b>0.10</b>	<b>0.06</b>
<b>2 - Industrial Processes and Product Use</b>	<b>25.84</b>	<b>26.20</b>	<b>26.94</b>	<b>27.45</b>	<b>28.26</b>	<b>28.96</b>	<b>29.82</b>	<b>29.81</b>	<b>29.55</b>	<b>26.45</b>	<b>27.62</b>
<b>2A - Mineral Industry</b>	<b>5.51</b>	<b>5.58</b>	<b>5.66</b>	<b>5.74</b>	<b>5.84</b>	<b>5.92</b>	<b>5.86</b>	<b>5.61</b>	<b>5.33</b>	<b>3.63</b>	<b>3.49</b>
<b>2A1 - Cement Production</b>	<b>5.43</b>	<b>5.52</b>	<b>5.60</b>	<b>5.68</b>	<b>5.77</b>	<b>5.85</b>	<b>5.80</b>	<b>5.55</b>	<b>5.28</b>	<b>3.60</b>	<b>3.46</b>
<b>2A2 - Lime Production</b>	<b>0.07</b>	<b>0.07</b>	<b>0.06</b>	<b>0.06</b>	<b>0.08</b>	<b>0.07</b>	<b>0.07</b>	<b>0.05</b>	<b>0.04</b>	<b>0.03</b>	<b>0.03</b>
<b>2B - Chemical Industry</b>	<b>0.07</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.09</b>	<b>0.08</b>	<b>0.08</b>	<b>0.07</b>	<b>0.08</b>
<b>2B2 - Nitric Acid Production</b>	<b>0.07</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.09</b>	<b>0.08</b>	<b>0.08</b>	<b>0.07</b>	<b>0.08</b>
<b>2D - Non-Energy Products from Fuels and Solvent Use</b>	<b>2.46</b>	<b>2.23</b>	<b>2.13</b>	<b>2.03</b>	<b>1.98</b>	<b>1.97</b>	<b>1.94</b>	<b>2.00</b>	<b>1.88</b>	<b>1.69</b>	<b>1.87</b>
<b>2D1 - Lubricant Use</b>	<b>2.09</b>	<b>1.92</b>	<b>1.89</b>	<b>1.75</b>	<b>1.77</b>	<b>1.77</b>	<b>1.72</b>	<b>1.78</b>	<b>1.65</b>	<b>1.48</b>	<b>1.65</b>
<b>2D3 - Solvent Use</b>	<b>0.36</b>	<b>0.32</b>	<b>0.23</b>	<b>0.27</b>	<b>0.21</b>	<b>0.20</b>	<b>0.22</b>	<b>0.22</b>	<b>0.23</b>	<b>0.21</b>	<b>0.22</b>
<b>2E - Electronics Industry</b>	<b>0.97</b>	<b>0.80</b>	<b>0.71</b>	<b>0.68</b>	<b>0.68</b>	<b>0.78</b>	<b>0.87</b>	<b>0.86</b>	<b>0.92</b>	<b>0.95</b>	<b>0.96</b>
<b>2F - Product Uses as Substitutes for Ozone Depleting Substances</b>	<b>8.58</b>	<b>9.32</b>	<b>10.09</b>	<b>10.84</b>	<b>11.59</b>	<b>12.08</b>	<b>12.40</b>	<b>12.48</b>	<b>12.57</b>	<b>12.90</b>	<b>13.84</b>
<b>2G - Other Product Manufacture and Use</b>	<b>1.79</b>	<b>1.68</b>	<b>1.69</b>	<b>1.62</b>	<b>1.65</b>	<b>1.64</b>	<b>1.67</b>	<b>1.64</b>	<b>1.64</b>	<b>1.53</b>	<b>1.55</b>
<b>2G1 - Electrical Equipment</b>	<b>1.17</b>	<b>1.15</b>	<b>1.07</b>	<b>1.05</b>	<b>1.04</b>	<b>1.03</b>	<b>0.99</b>	<b>0.93</b>	<b>0.95</b>	<b>0.91</b>	<b>0.85</b>
2G1b - Use of Electrical Equipment	1.17	1.15	1.07	1.05	1.04	1.03	0.99	0.93	0.95	0.91	0.85
<b>2G4 - CO<sub>2</sub>, Limestone or Soda Ash consumption</b>	<b>0.62</b>	<b>0.53</b>	<b>0.62</b>	<b>0.57</b>	<b>0.61</b>	<b>0.61</b>	<b>0.68</b>	<b>0.71</b>	<b>0.70</b>	<b>0.62</b>	<b>0.69</b>
<b>2H - Other</b>	<b>6.47</b>	<b>6.52</b>	<b>6.60</b>	<b>6.48</b>	<b>6.45</b>	<b>6.51</b>	<b>6.97</b>	<b>7.14</b>	<b>7.14</b>	<b>5.68</b>	<b>5.83</b>
<b>2H3 - Hydrogen Production</b>	<b>6.47</b>	<b>6.52</b>	<b>6.60</b>	<b>6.48</b>	<b>6.45</b>	<b>6.51</b>	<b>6.97</b>	<b>7.14</b>	<b>7.14</b>	<b>5.68</b>	<b>5.83</b>

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<b>3 - Agriculture, Forestry and Other Land Use</b>	<b>26.12</b>	<b>26.29</b>	<b>28.87</b>	<b>27.30</b>	<b>28.90</b>	<b>29.04</b>	<b>29.45</b>	<b>29.82</b>	<b>30.61</b>	<b>30.34</b>	<b>29.82</b>
<b>3A - Livestock</b>	<b>16.50</b>	<b>17.17</b>	<b>17.70</b>	<b>16.36</b>	<b>17.69</b>	<b>18.33</b>	<b>18.69</b>	<b>19.93</b>	<b>20.23</b>	<b>20.05</b>	<b>19.60</b>
<b>3A1 - Enteric Fermentation</b>	<b>8.32</b>	<b>8.48</b>	<b>8.72</b>	<b>8.40</b>	<b>8.76</b>	<b>9.05</b>	<b>9.14</b>	<b>9.70</b>	<b>9.67</b>	<b>9.51</b>	<b>9.35</b>
3A1a - Cattle	8.02	8.18	8.41	8.06	8.40	8.66	8.74	9.31	9.28	9.11	8.96
3A1ai - Dairy Cows	5.372	5.562	5.803	5.470	5.855	6.039	6.203	6.554	6.660	6.592	6.448
3A1aii - Other Cattle	2.650	2.614	2.606	2.590	2.542	2.616	2.535	2.752	2.619	2.518	2.509
3A1c - Sheep	0.14	0.14	0.13	0.12	0.11	0.12	0.11	0.10	0.10	0.11	0.10
3A1d - Goats	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3A1f - Horses	0.15	0.16	0.17	0.20	0.23	0.26	0.27	0.27	0.27	0.27	0.27
3A1h - Swine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>3A2 - Manure Management</b>	<b>8.18</b>	<b>8.69</b>	<b>8.98</b>	<b>7.96</b>	<b>8.94</b>	<b>9.28</b>	<b>9.55</b>	<b>10.23</b>	<b>10.56</b>	<b>10.53</b>	<b>10.25</b>
3A2a - Cattle	7.84	8.36	8.64	7.63	8.61	8.95	9.23	9.90	10.27	10.23	9.94
3A2ai - Dairy Cows	7.500	8.015	8.260	7.224	8.228	8.548	8.803	9.474	9.848	9.833	9.555
3A2aii - Other Cattle	0.344	0.347	0.376	0.406	0.386	0.405	0.427	0.429	0.419	0.398	0.389
3A2c - Sheep	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.03
3A2d - Goats	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3A2f - Horses	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.07	0.07	0.07
3A2h - Swine	0.05	0.04	0.06	0.05	0.06	0.05	0.05	0.06	0.03	0.04	0.04
3A2i - Poultry	0.19	0.19	0.18	0.17	0.15	0.15	0.15	0.16	0.16	0.15	0.15
<b>3B - Land</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>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>
<b>3B1 - Forest Land</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>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>	<b>0.19</b>
<b>3C - Aggregate Sources and Non-CO2 Emissions Sources on Land</b>	<b>9.43</b>	<b>8.93</b>	<b>10.98</b>	<b>10.75</b>	<b>11.02</b>	<b>10.52</b>	<b>10.57</b>	<b>9.70</b>	<b>10.19</b>	<b>10.11</b>	<b>10.04</b>
<b>3C1 - Emissions from Biomass Burning</b>	<b>0.08</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.07</b>	<b>0.06</b>	<b>0.07</b>	<b>0.07</b>	<b>0.07</b>	<b>0.07</b>
3C1b - Biomass Burning in Croplands	0.08	0.06	0.06	0.06	0.06	0.07	0.06	0.07	0.07	0.07	0.07
<b>3C2 - Liming</b>	<b>0.27</b>	<b>0.16</b>	<b>0.23</b>	<b>0.24</b>	<b>0.24</b>	<b>0.30</b>	<b>0.48</b>	<b>0.26</b>	<b>0.17</b>	<b>0.17</b>	<b>0.17</b>
<b>3C4 - Direct N2O Emissions from Managed Soils</b>	<b>6.63</b>	<b>6.40</b>	<b>7.86</b>	<b>7.69</b>	<b>7.85</b>	<b>7.45</b>	<b>7.35</b>	<b>6.83</b>	<b>7.29</b>	<b>7.18</b>	<b>7.13</b>
<b>3C5 - Indirect N2O Emissions from Managed Soils</b>	<b>1.89</b>	<b>1.81</b>	<b>2.28</b>	<b>2.23</b>	<b>2.26</b>	<b>2.16</b>	<b>2.13</b>	<b>1.99</b>	<b>2.12</b>	<b>2.11</b>	<b>2.09</b>
<b>3C7 - Rice Cultivations</b>	<b>0.57</b>	<b>0.49</b>	<b>0.55</b>	<b>0.53</b>	<b>0.61</b>	<b>0.55</b>	<b>0.54</b>	<b>0.55</b>	<b>0.54</b>	<b>0.58</b>	<b>0.57</b>
<b>4 - Waste</b>	<b>8.47</b>	<b>8.54</b>	<b>8.49</b>	<b>8.58</b>	<b>8.56</b>	<b>8.86</b>	<b>8.96</b>	<b>8.92</b>	<b>9.10</b>	<b>9.14</b>	<b>9.17</b>
<b>4A - Solid Waste Disposal</b>	<b>6.13</b>	<b>6.21</b>	<b>6.14</b>	<b>6.23</b>	<b>6.17</b>	<b>6.47</b>	<b>6.54</b>	<b>6.49</b>	<b>6.66</b>	<b>6.70</b>	<b>6.72</b>
4A1 - Managed Waste Disposal Sites	6.13	6.21	6.14	6.23	6.17	6.47	6.54	6.49	6.66	6.70	6.72
<b>4B - Biological Treatment of Solid Waste</b>	<b>0.12</b>	<b>0.13</b>	<b>0.15</b>	<b>0.16</b>	<b>0.17</b>	<b>0.19</b>	<b>0.20</b>	<b>0.22</b>	<b>0.23</b>	<b>0.25</b>	<b>0.26</b>

California Environmental Protection Agency

 Air Resources Board

## California Greenhouse Gas Inventory for 2000-2010 — by IPCC Category

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

<b>Gross emissions &amp; sinks</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>4D - Wastewater Treatment and Discharge</b>	2.23	2.20	2.20	2.19	2.22	2.21	2.21	2.21	2.20	2.20	2.19
4D1 - Domestic Wastewater Treatment and Discharge	1.47	1.49	1.47	1.47	1.47	1.47	1.47	1.46	1.46	1.45	1.45
4D2 - Industrial Wastewater Treatment and Discharge	0.75	0.71	0.73	0.72	0.75	0.73	0.75	0.75	0.74	0.75	0.74
<b>Net CO2 Flux from Forested Lands</b>	-4.48	-4.29	-4.16	-4.17	-4.17	-4.03	-3.88	-3.95	-3.85	-3.81	-3.76
<b>3B - Land</b>	-4.48	-4.29	-4.16	-4.17	-4.17	-4.03	-3.88	-3.95	-3.85	-3.81	-3.76
<b>Summary for Gross emissions &amp; sinks</b>											
Gross California Emissions	465.25	483.12	482.87	480.51	492.60	486.68	484.43	490.89	491.92	457.83	451.60
Net CO2 flux from Forests and Rangelands	-4.48	-4.29	-4.16	-4.17	-4.17	-4.03	-3.88	-3.95	-3.85	-3.81	-3.76
Net California Emissions	460.77	478.83	478.71	476.35	488.43	482.65	480.55	486.94	488.06	454.01	447.84

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## California Greenhouse Gas Inventory for 2000-2010 — by IPCC Category

million tonnes of CO<sub>2</sub> equivalent - (based upon IPCC Second Assessment Report's Global Warming Potentials)

<b>Excluded Emissions</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>1 - Energy</b>	<b>48.80</b>	<b>44.42</b>	<b>48.51</b>	<b>44.53</b>	<b>44.86</b>	<b>48.92</b>	<b>49.71</b>	<b>53.38</b>	<b>50.66</b>	<b>52.01</b>	<b>48.40</b>
<b>1A - Fuel Combustion Activities</b>	<b>48.80</b>	<b>44.42</b>	<b>48.51</b>	<b>44.53</b>	<b>44.86</b>	<b>48.92</b>	<b>49.71</b>	<b>53.38</b>	<b>50.66</b>	<b>52.01</b>	<b>48.40</b>
<b>1A3 - Transport</b>	<b>44.99</b>	<b>40.06</b>	<b>44.38</b>	<b>40.35</b>	<b>40.97</b>	<b>45.51</b>	<b>46.59</b>	<b>50.45</b>	<b>47.89</b>	<b>49.31</b>	<b>45.24</b>
1A3a - Civil Aviation	28.67	27.96	29.98	27.20	29.10	29.94	29.47	31.93	29.03	30.79	29.18
1A3ai - International Aviation (International Bunkers)	13.683	13.046	13.393	11.711	12.691	13.520	13.479	14.573	13.831	14.680	13.868
1A3aii - Domestic Aviation	14.986	14.909	16.588	15.489	16.410	16.416	15.988	17.361	15.195	16.109	15.307
1A3d - Water-borne Navigation	16.32	12.11	14.40	13.15	11.87	15.57	17.12	18.52	18.86	18.52	16.06
1A3di - International Water-borne Navigation (International Bunkers)	16.318	12.108	14.402	13.152	11.871	15.570	17.125	18.516	18.864	18.519	16.063
<b>1A5 - Non-Specified</b>	<b>3.81</b>	<b>4.36</b>	<b>4.13</b>	<b>4.18</b>	<b>3.88</b>	<b>3.41</b>	<b>3.11</b>	<b>2.93</b>	<b>2.77</b>	<b>2.70</b>	<b>3.16</b>
1A5b - Mobile	3.74	4.07	3.64	3.66	3.34	3.31	3.00	2.81	2.68	2.56	2.59
1A5bi - Mobile (Aviation Component)	3.737	4.070	3.641	3.662	3.339	3.314	3.005	2.808	2.683	2.563	2.585
<b>Summary for Excluded Emissions</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
International and Interstate Emissions	48.80	44.42	48.51	44.53	44.86	48.92	49.71	53.38	50.66	52.01	48.40

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## California Greenhouse Gas Inventory for 2000-2010 — by IPCC Category

million tonnes of CO<sub>2</sub> equivalent - (based upon IPCC Second Assessment Report's Global Warming Potentials)

<b>CO<sub>2</sub> from biogenic materials</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>1 - Energy</b>	<b>17.45</b>	<b>17.58</b>	<b>15.73</b>	<b>16.12</b>	<b>16.16</b>	<b>15.42</b>	<b>15.22</b>	<b>15.11</b>	<b>14.97</b>	<b>15.54</b>	<b>14.32</b>
<b>1A - Fuel Combustion Activities</b>	<b>17.45</b>	<b>17.58</b>	<b>15.73</b>	<b>16.12</b>	<b>16.16</b>	<b>15.42</b>	<b>15.22</b>	<b>15.11</b>	<b>14.97</b>	<b>15.54</b>	<b>14.32</b>
<b>1A1 - Energy Industries</b>	<b>9.54</b>	<b>9.40</b>	<b>9.11</b>	<b>9.36</b>	<b>9.30</b>	<b>9.75</b>	<b>10.04</b>	<b>9.62</b>	<b>9.63</b>	<b>10.47</b>	<b>9.22</b>
1A1a - Main Activity Electricity and Heat Production	9.54	9.40	9.11	9.36	9.30	9.75	10.04	9.62	9.63	10.47	9.22
1A1ai - Electricity Generation	6.192	5.868	6.623	6.592	6.415	6.518	6.784	6.404	6.606	7.991	6.937
1A1aii - Combined Heat and Power Generation (CHP)	3.347	3.535	2.485	2.769	2.887	3.234	3.256	3.219	3.026	2.476	2.281
1A1b - Petroleum Refining	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>1A2 - Manufacturing Industries and Construction</b>	<b>3.78</b>	<b>4.25</b>	<b>2.64</b>	<b>2.57</b>	<b>2.60</b>	<b>2.86</b>	<b>2.61</b>	<b>2.66</b>	<b>2.38</b>	<b>2.23</b>	<b>2.26</b>
1A2f - Non-Metallic Minerals	0.06	0.06	0.07	0.07	0.07	0.07	0.05	0.05	0.06	0.07	0.10
1A2m - Non-specified Industry.	3.72	4.19	2.57	2.50	2.53	2.78	2.56	2.61	2.32	2.16	2.16
<b>1A4 - Other Sectors</b>	<b>4.13</b>	<b>3.92</b>	<b>3.99</b>	<b>4.19</b>	<b>4.26</b>	<b>2.82</b>	<b>2.57</b>	<b>2.82</b>	<b>2.95</b>	<b>2.84</b>	<b>2.84</b>
1A4a - Commercial/Institutional	0.58	0.59	0.60	0.63	0.61	0.39	0.36	0.38	0.41	0.40	0.40
1A4b - Residential	3.55	3.33	3.38	3.56	3.65	2.43	2.21	2.44	2.55	2.44	2.44
<b>3 - Agriculture, Forestry and Other Land Use</b>	<b>1.39</b>	<b>1.16</b>	<b>1.16</b>	<b>1.20</b>	<b>1.18</b>	<b>1.26</b>	<b>1.17</b>	<b>1.32</b>	<b>1.32</b>	<b>1.38</b>	<b>1.38</b>
<b>3C - Aggregate Sources and Non-CO<sub>2</sub> Emissions Sources on Land</b>	<b>1.39</b>	<b>1.16</b>	<b>1.16</b>	<b>1.20</b>	<b>1.18</b>	<b>1.26</b>	<b>1.17</b>	<b>1.32</b>	<b>1.32</b>	<b>1.38</b>	<b>1.38</b>
<b>3C1 - Emissions from Biomass Burning</b>	<b>1.39</b>	<b>1.16</b>	<b>1.16</b>	<b>1.20</b>	<b>1.18</b>	<b>1.26</b>	<b>1.17</b>	<b>1.32</b>	<b>1.32</b>	<b>1.38</b>	<b>1.38</b>
3C1b - Biomass Burning in Croplands	1.39	1.16	1.16	1.20	1.18	1.26	1.17	1.32	1.32	1.38	1.38
<b>4 - Waste</b>	<b>5.42</b>	<b>5.73</b>	<b>5.97</b>	<b>5.96</b>	<b>6.02</b>	<b>6.31</b>	<b>6.53</b>	<b>6.47</b>	<b>6.63</b>	<b>6.73</b>	<b>6.81</b>
<b>4A - Solid Waste Disposal</b>	<b>5.42</b>	<b>5.73</b>	<b>5.97</b>	<b>5.96</b>	<b>6.02</b>	<b>6.31</b>	<b>6.53</b>	<b>6.47</b>	<b>6.63</b>	<b>6.73</b>	<b>6.81</b>
4A1 - Managed Waste Disposal Sites	5.42	5.73	5.97	5.96	6.02	6.31	6.53	6.47	6.63	6.73	6.81
<b>Summary for CO<sub>2</sub> from biogenic materials</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
Carbon dioxide from Biogenic sources	24.26	24.47	22.86	23.27	23.36	22.98	22.91	22.89	22.92	23.64	22.50