

## California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — By IPCC Category

Last Updated: November 19, 2007

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b>Categories Included in the Inventory.</b>	<i>(CO2 equivalence based upon IPCC Fourth Assessment Report's Global Warming Potentials)</i>														
<b>1 - Energy</b>	<b>387.00</b>	<b>372.63</b>	<b>374.15</b>	<b>369.89</b>	<b>380.76</b>	<b>367.84</b>	<b>364.91</b>	<b>381.33</b>	<b>395.93</b>	<b>401.55</b>	<b>400.11</b>	<b>416.28</b>	<b>407.81</b>	<b>405.34</b>	<b>421.38</b>
<b>1A - Fuel Combustion Activities</b>	<b>381.19</b>	<b>366.93</b>	<b>368.89</b>	<b>364.39</b>	<b>375.52</b>	<b>363.02</b>	<b>359.89</b>	<b>376.34</b>	<b>391.00</b>	<b>396.61</b>	<b>395.28</b>	<b>411.35</b>	<b>402.79</b>	<b>400.31</b>	<b>416.28</b>
<b>1A1 - Energy Industries</b>	<b>157.34</b>	<b>150.29</b>	<b>151.31</b>	<b>151.48</b>	<b>157.36</b>	<b>145.41</b>	<b>140.99</b>	<b>154.50</b>	<b>159.56</b>	<b>157.38</b>	<b>152.50</b>	<b>167.89</b>	<b>152.26</b>	<b>159.84</b>	<b>166.44</b>
1A1a - Main Activity Electricity and Heat Production	115.844	108.838	110.639	112.936	120.612	106.525	99.200	108.157	115.070	116.793	111.602	124.900	111.234	115.680	123.201
1A1ai - Electricity Generation	90.499	83.080	82.392	84.048	91.231	77.385	68.649	77.445	83.177	84.459	79.120	95.666	78.490	86.011	93.109
Imported Electricity : Specified Imports : PNW : Boardman (OR) - Coal > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PNW : Boardman (OR) - Coal > CO2	0.281	0.605	0.659	0.654	0.771	0.323	0.345	0.271	0.673	0.711	0.740	0.671	0.567	0.671	0.542
Imported Electricity : Specified Imports : PNW : Boardman (OR) - Coal > N2O	0.001	0.003	0.003	0.003	0.004	0.001	0.002	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.002
Imported Electricity : Specified Imports : PNW : Boardman (OR) - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PNW : Boardman (OR) - Distillate > CO2	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.000	0.001	0.002	0.001
Imported Electricity : Specified Imports : PNW : Boardman (OR) - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PNW : Colstrip (MT) - Coal > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PNW : Colstrip (MT) - Coal > CO2	0.921	0.934	0.999	0.874	0.960	0.975	0.695	0.630	0.935	0.438	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PNW : Colstrip (MT) - Coal > N2O	0.004	0.004	0.005	0.004	0.004	0.004	0.003	0.003	0.004	0.002	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PNW : Colstrip (MT) - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PNW : Colstrip (MT) - Distillate > CO2	0.001	0.001	0.000	0.001	0.001	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PNW : Colstrip (MT) - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Bonanza (UT) - Coal > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Bonanza (UT) - Coal > CO2	0.620	0.643	0.645	0.534	0.488	0.462	0.453	0.282	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Bonanza (UT) - Coal > N2O	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Bonanza (UT) - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Bonanza (UT) - Distillate > CO2	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Bonanza (UT) - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Four Corners (NM) - Coal > CH4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Imported Electricity : Specified Imports : PSW : Four Corners (NM) - Coal > CO2	5.007	4.318	5.173	4.928	4.872	4.903	4.428	4.544	4.806	5.017	4.845	5.311	4.585	5.543	5.341
Imported Electricity : Specified Imports : PSW : Four Corners (NM) - Coal > N2O	0.023	0.020	0.024	0.023	0.022	0.023	0.020	0.021	0.022	0.023	0.022	0.024	0.021	0.026	0.025
Imported Electricity : Specified Imports : PSW : Four Corners (NM) - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Four Corners (NM) - Natural Gas > CO2	0.014	0.017	0.009	0.009	0.009	0.009	0.010	0.020	0.023	0.011	0.011	0.010	0.013	0.010	0.008
Imported Electricity : Specified Imports : PSW : Four Corners (NM) - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Intermountain (UT) - Coal > CH4	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Imported Electricity : Specified Imports : PSW : Intermountain (UT) - Coal > CO2	11.102	9.218	10.964	10.800	10.943	9.369	9.549	11.360	11.646	11.606	11.681	11.607	11.556	12.003	12.817
Imported Electricity : Specified Imports : PSW : Intermountain (UT) - Coal > N2O	0.053	0.044	0.052	0.052	0.052	0.045	0.046	0.054	0.056	0.056	0.056	0.056	0.055	0.057	0.061
Imported Electricity : Specified Imports : PSW : Intermountain (UT) - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Intermountain (UT) - Distillate > CO2	0.016	0.015	0.009	0.009	0.007	0.005	0.008	0.006	0.006	0.005	0.005	0.005	0.004	0.005	0.004
Imported Electricity : Specified Imports : PSW : Intermountain (UT) - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Mohave (NV) - Coal > CH4	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Imported Electricity : Specified Imports : PSW : Mohave (NV) - Coal > CO2	6.595	7.694	7.750	7.101	7.140	7.340	7.173	7.033	6.947	6.975	7.617	7.252	6.330	6.048	6.349
Imported Electricity : Specified Imports : PSW : Mohave (NV) - Coal > N2O	0.032	0.037	0.037	0.034	0.034	0.035	0.034	0.034	0.033	0.033	0.036	0.035	0.030	0.029	0.030
Imported Electricity : Specified Imports : PSW : Mohave (NV) - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Mohave (NV) - Natural Gas > CO2	0.084	0.082	0.088	0.101	0.093	0.073	0.033	0.024	0.019	0.025	0.027	0.012	0.006	0.009	0.006
Imported Electricity : Specified Imports : PSW : Mohave (NV) - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Navajo (AZ) - Coal > CH4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Imported Electricity : Specified Imports : PSW : Navajo (AZ) - Coal > CO2	3.233	3.313	3.394	3.241	3.234	2.455	2.344	2.745	3.236	3.342	3.627	3.511	3.646	3.338	3.517
Imported Electricity : Specified Imports : PSW : Navajo (AZ) - Coal > N2O	0.015	0.016	0.016	0.016	0.015	0.012	0.011	0.013	0.015	0.016	0.017	0.017	0.017	0.016	0.017

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Imported Electricity : Specified Imports : PSW : Navajo (AZ) - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Navajo (AZ) - Distillate > CO2	0.006	0.005	0.004	0.003	0.003	0.002	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.002
Imported Electricity : Specified Imports : PSW : Navajo (AZ) - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Reid Gardner (NV) - Coal > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Reid Gardner (NV) - Coal > CO2	1.110	1.146	0.916	1.048	1.100	0.960	1.131	0.990	1.274	1.184	1.368	1.159	1.252	1.203	1.204
Imported Electricity : Specified Imports : PSW : Reid Gardner (NV) - Coal > N2O	0.005	0.005	0.004	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.007	0.006	0.006	0.006	0.006
Imported Electricity : Specified Imports : PSW : Reid Gardner (NV) - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Reid Gardner (NV) - Distillate > CO2	0.001	0.002	0.004	0.002	0.002	0.002	0.002	0.004	0.003	0.002	0.002	0.002	0.004	0.003	0.002
Imported Electricity : Specified Imports : PSW : Reid Gardner (NV) - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : San Juan (NM) - Coal > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
Imported Electricity : Specified Imports : PSW : San Juan (NM) - Coal > CO2	0.405	0.327	0.364	0.402	0.436	0.423	0.481	0.501	0.496	0.484	0.515	2.947	3.107	2.904	3.136
Imported Electricity : Specified Imports : PSW : San Juan (NM) - Coal > N2O	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.014	0.014	0.013	0.014
Imported Electricity : Specified Imports : PSW : San Juan (NM) - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : San Juan (NM) - Distillate > CO2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.005	0.008	0.005
Imported Electricity : Specified Imports : PSW : San Juan (NM) - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : San Juan (NM) - Residual Fuel Oil > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : San Juan (NM) - Residual Fuel Oil > CO2	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : San Juan (NM) - Residual Fuel Oil > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Yucca/Yuma Axis (AZ) - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Yucca/Yuma Axis (AZ) - Distillate > CO2	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.002	0.001	0.018	0.030	0.001	0.004	0.002
Imported Electricity : Specified Imports : PSW : Yucca/Yuma Axis (AZ) - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Yucca/Yuma Axis (AZ) - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Yucca/Yuma Axis (AZ) - Natural Gas > CO2	0.054	0.027	0.028	0.036	0.032	0.030	0.060	0.082	0.086	0.100	0.113	0.144	0.108	0.064	0.072
Imported Electricity : Specified Imports : PSW : Yucca/Yuma Axis (AZ) - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Yucca/Yuma Axis (AZ) - Residual Fuel Oil > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Yucca/Yuma Axis (AZ) - Residual Fuel Oil > CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Specified Imports : PSW : Yucca/Yuma Axis (AZ) - Residual Fuel Oil > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Imported Electricity : Unspecified Imports : PNW - Imported electricity > CH4	0.002	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.002	0.001	0.001	0.002	0.003	0.003
Imported Electricity : Unspecified Imports : PNW - Imported electricity > CO2	7.828	7.152	4.715	3.787	3.704	4.932	7.491	6.337	4.832	6.415	4.673	4.530	7.159	9.932	8.706
Imported Electricity : Unspecified Imports : PNW - Imported electricity > N2O	0.036	0.033	0.022	0.017	0.017	0.023	0.035	0.029	0.022	0.030	0.022	0.018	0.029	0.042	0.035
Imported Electricity : Unspecified Imports : PSW - Imported electricity > CH4	0.006	0.005	0.003	0.006	0.006	0.006	0.004	0.005	0.006	0.005	0.001	0.004	0.004	0.005	0.006
Imported Electricity : Unspecified Imports : PSW - Imported electricity > CO2	22.972	20.555	13.255	21.048	20.978	21.173	14.631	20.256	22.742	18.639	4.809	13.408	12.359	15.527	18.901
Imported Electricity : Unspecified Imports : PSW - Imported electricity > N2O	0.108	0.097	0.062	0.099	0.099	0.100	0.069	0.095	0.107	0.088	0.023	0.055	0.051	0.064	0.076
In State Generation : Merchant Owned - Biomass > CH4	0.036	0.035	0.041	0.038	0.042	0.028	0.028	0.028	0.029	0.032	0.030	0.026	0.034	0.036	0.034
In State Generation : Merchant Owned - Biomass > N2O	0.057	0.056	0.066	0.061	0.067	0.044	0.045	0.044	0.045	0.051	0.047	0.041	0.054	0.057	0.053
In State Generation : Merchant Owned - Digester Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
In State Generation : Merchant Owned - Digester Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
In State Generation : Merchant Owned - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
In State Generation : Merchant Owned - Distillate > CO2	0.026	0.009	0.004	0.004	0.003	0.003	0.003	0.005	0.011	0.067	0.249	0.480	0.050	0.057	0.050
In State Generation : Merchant Owned - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000
In State Generation : Merchant Owned - Jet Fuel > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
In State Generation : Merchant Owned - Jet Fuel > CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.022
In State Generation : Merchant Owned - Jet Fuel > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
In State Generation : Merchant Owned - Kerosene > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
In State Generation : Merchant Owned - Kerosene > CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000



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	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
CHP: Commercial : Useful Thermal Output - Digester Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Digester Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Distillate > CO2	0.004	0.000	0.001	0.000	0.000	0.014	0.016	0.039	0.001	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Jet Fuel > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Jet Fuel > CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Jet Fuel > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Landfill Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Landfill Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Natural Gas > CO2	0.386	0.334	0.402	0.413	0.462	0.436	0.603	1.109	0.931	0.914	1.089	1.050	1.016	0.186	0.475
CHP: Commercial : Useful Thermal Output - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000
CHP: Commercial : Useful Thermal Output - Propane > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Propane > CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Propane > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Refinery Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Refinery Gas > CO2	0.009	0.009	0.007	0.009	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Refinery Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Waste Oil > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Waste Oil > CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Commercial : Useful Thermal Output - Waste Oil > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Associated gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Associated gas > CO2	0.000	0.000	0.000	0.088	0.289	0.336	0.246	0.199	1.382	1.408	1.470	0.754	0.451	1.092	0.688
CHP: Industrial : Useful Thermal Output - Associated gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Biomass > CH4	0.016	0.015	0.014	0.008	0.009	0.008	0.007	0.009	0.008	0.009	0.011	0.009	0.005	0.005	0.011
CHP: Industrial : Useful Thermal Output - Biomass > N2O	0.025	0.024	0.022	0.013	0.015	0.013	0.011	0.014	0.013	0.014	0.017	0.014	0.008	0.009	0.018
CHP: Industrial : Useful Thermal Output - Bituminous Coal > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Bituminous Coal > CO2	1.724	1.833	1.778	1.664	1.625	1.609	1.692	1.646	1.585	1.658	1.650	1.713	1.650	1.734	1.378
CHP: Industrial : Useful Thermal Output - Bituminous Coal > N2O	0.008	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007
CHP: Industrial : Useful Thermal Output - Digester Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Digester Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Distillate > CO2	0.049	0.100	0.002	0.000	0.015	0.014	0.000	0.003	0.001	0.003	0.002	0.002	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Landfill Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Landfill Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Lignite Coal > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Lignite Coal > CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Lignite Coal > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Natural Gas > CH4	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.001
CHP: Industrial : Useful Thermal Output - Natural Gas > CO2	6.613	6.534	6.558	6.631	6.503	6.710	6.700	7.016	6.160	6.054	6.323	6.084	7.611	6.616	2.969
CHP: Industrial : Useful Thermal Output - Natural Gas > N2O	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.004	0.003	0.004	0.004	0.002
CHP: Industrial : Useful Thermal Output - Other Coal > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CHP: Industrial : Useful Thermal Output - Other Coal > CO2	0.007	0.003	0.005	0.006	0.005	0.006	0.000	0.003	0.004	0.001	0.000	0.000	0.000	0.000	0.000





## California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — By IPCC Category

Last Updated: November 19, 2007

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Petroleum Refining - Associated gas > CO2	0.655	1.201	0.864	1.563	1.458	1.075	1.065	0.228	0.980	0.346	0.316	0.282	0.000	0.000	0.000
Petroleum Refining - Associated gas > N2O	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Petroleum Refining - Catalyst Coke > CH4	0.004	0.005	0.004	0.005	0.005	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Petroleum Refining - Catalyst Coke > CO2	5.147	5.279	5.017	5.235	5.376	5.182	5.767	5.383	5.678	5.402	5.741	5.722	5.782	6.000	6.096
Petroleum Refining - Catalyst Coke > N2O	0.011	0.011	0.010	0.011	0.011	0.011	0.012	0.011	0.012	0.011	0.012	0.012	0.012	0.012	0.013
Petroleum Refining - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Petroleum Refining - Distillate > CO2	0.004	0.004	0.002	0.001	0.001	0.000	0.000	0.001	0.001	0.000	0.001	0.017	0.001	0.002	0.002
Petroleum Refining - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Petroleum Refining - LPG > CH4	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Petroleum Refining - LPG > CO2	0.858	0.992	1.682	1.137	1.236	0.846	0.607	0.494	0.320	0.257	0.504	0.687	0.275	0.515	0.395
Petroleum Refining - LPG > N2O	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Petroleum Refining - Natural Gas > CH4	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Petroleum Refining - Natural Gas > CO2	4.305	3.931	3.492	2.948	2.529	3.638	4.911	6.027	5.477	5.854	5.890	5.300	6.529	6.783	6.835
Petroleum Refining - Natural Gas > N2O	0.002	0.002	0.002	0.002	0.001	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004
Petroleum Refining - Petroleum Coke > CH4	0.000	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Petroleum Refining - Petroleum Coke > CO2	0.597	0.779	0.818	0.718	0.723	0.717	0.608	0.601	0.629	0.479	0.485	0.485	0.472	0.507	0.515
Petroleum Refining - Petroleum Coke > N2O	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Petroleum Refining - Refinery Gas > CH4	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Petroleum Refining - Refinery Gas > CO2	15.820	15.781	15.253	15.894	15.491	14.833	15.528	15.301	15.509	14.418	15.049	15.574	15.742	16.002	15.230
Petroleum Refining - Refinery Gas > N2O	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Petroleum Refining - Residual Fuel Oil > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Petroleum Refining - Residual Fuel Oil > CO2	0.212	0.210	0.163	0.177	0.187	0.154	0.094	0.065	0.062	0.034	0.002	0.000	0.000	0.000	0.000
Petroleum Refining - Residual Fuel Oil > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>1A1c - Manufacture of Solid Fuels and Other Energy Industries</b>	<b>13.858</b>	<b>13.239</b>	<b>13.345</b>	<b>10.835</b>	<b>9.712</b>	<b>12.399</b>	<b>13.170</b>	<b>18.207</b>	<b>15.798</b>	<b>13.761</b>	<b>12.872</b>	<b>14.887</b>	<b>12.186</b>	<b>14.310</b>	<b>14.122</b>
<i>1A1cii - Other Energy Industries</i>	<i>13.858</i>	<i>13.239</i>	<i>13.345</i>	<i>10.835</i>	<i>9.712</i>	<i>12.399</i>	<i>13.170</i>	<i>18.207</i>	<i>15.798</i>	<i>13.761</i>	<i>12.872</i>	<i>14.887</i>	<i>12.186</i>	<i>14.310</i>	<i>14.122</i>
Oil & Gas Extraction - Associated gas > CH4	0.002	0.001	0.004	0.004	0.003	0.004	0.005	0.007	0.005	0.004	0.004	0.005	0.004	0.005	0.005
Oil & Gas Extraction - Associated gas > CO2	5.271	3.808	10.041	9.377	8.477	11.343	12.183	17.480	12.802	11.153	10.007	13.519	11.173	12.160	11.798
Oil & Gas Extraction - Associated gas > N2O	0.002	0.002	0.005	0.004	0.004	0.005	0.006	0.008	0.006	0.005	0.005	0.006	0.005	0.006	0.005
Oil & Gas Extraction - Crude oil > CH4	0.003	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oil & Gas Extraction - Crude oil > CO2	2.491	1.473	0.514	0.169	0.142	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oil & Gas Extraction - Crude oil > N2O	0.006	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oil & Gas Extraction - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oil & Gas Extraction - Distillate > CO2	0.210	0.109	0.144	0.159	0.145	0.098	0.049	0.053	0.061	0.117	0.099	0.106	0.127	0.105	0.127
Oil & Gas Extraction - Distillate > N2O	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oil & Gas Extraction - Natural Gas > CH4	0.003	0.004	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.001	0.001
Oil & Gas Extraction - Natural Gas > CO2	5.726	7.652	2.442	1.002	0.835	0.826	0.739	0.535	2.820	2.397	2.654	0.895	0.670	1.920	2.040
Oil & Gas Extraction - Natural Gas > N2O	0.003	0.004	0.001	0.001	0.000	0.000	0.000	0.000	0.002	0.001	0.001	0.001	0.000	0.001	0.001
Oil & Gas Extraction - Residual Fuel Oil > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oil & Gas Extraction - Residual Fuel Oil > CO2	0.013	0.026	0.063	0.032	0.032	0.032	0.032	0.032	0.032	0.015	0.032	0.218	0.069	0.008	0.032
Oil & Gas Extraction - Residual Fuel Oil > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pipelines : Natural Gas Pipelines - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pipelines : Natural Gas Pipelines - Natural Gas > CO2	0.000	0.000	0.000	0.000	0.001	0.002	0.071	0.012	0.002	0.002	0.003	0.003	0.014	0.022	0.021
Pipelines : Natural Gas Pipelines - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pipelines : Non Natural Gas Pipelines - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pipelines : Non Natural Gas Pipelines - Natural Gas > CO2	0.127	0.155	0.128	0.084	0.071	0.077	0.085	0.079	0.067	0.064	0.066	0.132	0.124	0.082	0.091

## California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — By IPCC Category

Last Updated: November 19, 2007

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Pipelines : Non Natural Gas Pipelines - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>1A2 - Manufacturing Industries and Construction</b>	<b>24.24</b>	<b>22.14</b>	<b>20.29</b>	<b>19.74</b>	<b>20.94</b>	<b>20.76</b>	<b>20.04</b>	<b>20.41</b>	<b>21.60</b>	<b>22.32</b>	<b>23.56</b>	<b>23.95</b>	<b>20.68</b>	<b>18.66</b>	<b>19.46</b>
Manufacturing : Primary Metals - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Primary Metals - Natural Gas > CO2	0.943	0.894	0.753	0.760	0.852	0.785	0.821	0.843	0.877	0.882	0.910	0.785	0.689	0.702	0.478
Manufacturing : Primary Metals - Natural Gas > N2O	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
1A2c - Chemicals	0.961	0.857	0.659	0.529	0.612	0.602	0.633	0.536	0.724	0.572	0.700	0.602	1.110	0.663	0.677
Manufacturing : Chemicals & Allied Products : Fuel Use - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
Manufacturing : Chemicals & Allied Products : Fuel Use - Natural Gas > CO2	0.960	0.856	0.659	0.529	0.611	0.601	0.633	0.535	0.723	0.572	0.699	0.601	1.109	0.663	0.677
Manufacturing : Chemicals & Allied Products : Fuel Use - Natural Gas > N2O	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
1A2d - Pulp, Paper and Print	1.915	1.652	1.158	1.282	1.681	1.723	1.993	1.627	1.628	1.506	1.385	1.685	1.129	1.045	1.115
Manufacturing : Printing & Publishing - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Printing & Publishing - Natural Gas > CO2	0.113	0.121	0.111	0.121	0.132	0.149	0.143	0.141	0.155	0.145	0.116	0.112	0.086	0.081	0.085
Manufacturing : Printing & Publishing - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Pulp & Paper - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Pulp & Paper - Natural Gas > CO2	0.438	0.386	0.320	0.305	0.300	0.270	0.313	0.281	0.326	0.300	0.292	0.316	0.199	0.191	0.187
Manufacturing : Pulp & Paper - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Pulp & Paper : Paper Mills - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Pulp & Paper : Paper Mills - Natural Gas > CO2	0.390	0.328	0.247	0.401	0.671	0.650	0.711	0.484	0.584	0.557	0.539	0.519	0.762	0.691	0.387
Manufacturing : Pulp & Paper : Paper Mills - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Pulp & Paper : Paperboard Mills - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Pulp & Paper : Paperboard Mills - Natural Gas > CO2	0.908	0.737	0.351	0.399	0.543	0.652	0.824	0.720	0.550	0.501	0.437	0.656	0.000	0.000	0.375
Manufacturing : Pulp & Paper : Paperboard Mills - Natural Gas > N2O	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Pulp & Paper : Pulp Mills - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Pulp & Paper : Pulp Mills - Natural Gas > CO2	0.063	0.078	0.129	0.055	0.032	0.000	0.000	0.000	0.012	0.000	0.000	0.081	0.080	0.081	0.080
Manufacturing : Pulp & Paper : Pulp Mills - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1A2e - Food Processing, Beverages and Tobacco	3.072	3.266	3.230	3.282	3.255	3.157	3.126	3.146	3.530	3.637	3.599	3.305	3.457	3.172	3.397
Manufacturing : Food Products - Natural Gas > CH4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Manufacturing : Food Products - Natural Gas > CO2	1.409	1.465	1.491	1.534	1.535	1.384	1.449	1.543	1.691	1.722	1.807	1.712	1.784	1.662	1.777
Manufacturing : Food Products - Natural Gas > N2O	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Manufacturing : Food Products : Food Processing - Natural Gas > CH4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Manufacturing : Food Products : Food Processing - Natural Gas > CO2	1.197	1.323	1.367	1.334	1.244	1.346	1.398	1.371	1.529	1.555	1.386	1.238	1.343	1.176	1.290
Manufacturing : Food Products : Food Processing - Natural Gas > N2O	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Manufacturing : Food Products : Sugar & Confections - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Food Products : Sugar & Confections - Natural Gas > CO2	0.463	0.474	0.369	0.410	0.472	0.423	0.276	0.229	0.307	0.356	0.403	0.351	0.327	0.331	0.327
Manufacturing : Food Products : Sugar & Confections - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Tobacco - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Tobacco - Natural Gas > CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Tobacco - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1A2f - Non-Metallic Minerals	5.125	4.956	4.942	4.874	4.849	4.845	5.047	5.189	5.393	5.369	5.495	5.455	5.361	5.320	5.402
Manufacturing : Stone, Clay, Glass & Cement - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Stone, Clay, Glass & Cement - Natural Gas > CO2	0.845	0.756	0.736	0.650	0.665	0.726	0.771	0.863	0.954	0.875	0.861	0.850	0.580	0.556	0.624
Manufacturing : Stone, Clay, Glass & Cement - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Stone, Clay, Glass & Cement : Cement - Biomass Waste Fuel > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Stone, Clay, Glass & Cement : Cement - Biomass Waste Fuel > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Stone, Clay, Glass & Cement : Cement - Coal > CH4	0.008	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008









## California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — By IPCC Category

Last Updated: November 19, 2007

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b>1A3aii - Domestic Aviation</b>	5.113	4.669	4.079	3.658	3.868	4.003	4.202	3.906	3.877	3.736	3.500	4.173	3.374	3.011	3.016
Aviation : Domestic Air transport - Aviation Gasoline > CH4	0.008	0.008	0.008	0.006	0.006	0.006	0.006	0.006	0.004	0.006	0.005	0.005	0.005	0.005	0.004
Aviation : Domestic Air transport - Aviation Gasoline > CO2	0.386	0.381	0.370	0.286	0.277	0.282	0.268	0.292	0.200	0.288	0.252	0.229	0.254	0.254	0.207
Aviation : Domestic Air transport - Aviation Gasoline > N2O	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aviation : Domestic Air transport : Intrastate - Jet Fuel > CH4	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002
Aviation : Domestic Air transport : Intrastate - Jet Fuel > CO2	4.671	4.236	3.664	3.332	3.548	3.678	3.888	3.571	3.635	3.406	3.209	3.900	3.083	2.724	2.775
Aviation : Domestic Air transport : Intrastate - Jet Fuel > N2O	0.044	0.039	0.034	0.031	0.033	0.034	0.036	0.033	0.034	0.032	0.030	0.036	0.029	0.025	0.026
<b>1A3b - Road Transportation</b>	137.917	134.409	141.661	139.340	140.366	143.469	144.969	148.280	151.223	155.785	159.245	162.188	168.905	165.395	171.427
On road : Freight - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
On road : Freight - Natural Gas > CO2	0.016	0.015	0.013	0.014	0.014	0.011	0.012	0.012	0.013	0.015	0.012	0.012	0.023	0.022	0.025
On road : Freight - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
On road : Passenger - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
On road : Passenger - Natural Gas > CO2	0.010	0.011	0.012	0.013	0.015	0.015	0.022	0.029	0.030	0.037	0.040	0.025	0.036	0.027	0.015
On road : Passenger - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
On road : Passenger : Taxis & Buses - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
On road : Passenger : Taxis & Buses - Natural Gas > CO2	0.010	0.012	0.008	0.009	0.014	0.014	0.024	0.021	0.024	0.026	0.026	0.028	0.025	0.025	0.025
On road : Passenger : Taxis & Buses - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>1A3bi - Cars</b>	63.712	62.318	65.606	63.542	62.530	62.917	62.865	63.200	63.239	63.845	65.412	65.220	66.979	62.011	63.051
On road : Passenger cars - Distillate > CH4	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
On road : Passenger cars - Distillate > CO2	0.610	0.543	0.512	0.468	0.464	0.434	0.393	0.386	0.362	0.343	0.330	0.287	0.279	0.242	0.241
On road : Passenger cars - Distillate > N2O	0.006	0.005	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.002	0.002
On road : Passenger cars - Gasoline > CH4	0.519	0.488	0.455	0.436	0.421	0.411	0.377	0.368	0.356	0.344	0.333	0.298	0.275	0.234	0.219
On road : Passenger cars - Gasoline > CO2	59.676	58.528	61.796	59.943	59.057	59.531	59.786	60.184	60.319	61.005	62.675	62.721	64.605	59.955	61.069
On road : Passenger cars - Gasoline > N2O	2.900	2.752	2.837	2.690	2.584	2.536	2.305	2.258	2.198	2.150	2.071	1.911	1.817	1.578	1.520
<b>1A3bii - Light-duty Trucks</b>	44.714	44.512	47.640	48.122	48.854	50.669	51.960	53.884	56.218	58.924	60.513	63.600	67.931	67.968	72.080
On road : Light-Duty Trucks - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
On road : Light-Duty Trucks - Distillate > CO2	0.520	0.504	0.514	0.524	0.554	0.583	0.587	0.652	0.627	0.700	0.770	0.850	1.014	0.953	0.957
On road : Light-Duty Trucks - Distillate > N2O	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.008	0.008	0.010	0.009	0.009
On road : Light-Duty Trucks - Gasoline > CH4	0.378	0.362	0.332	0.325	0.317	0.316	0.294	0.291	0.288	0.281	0.270	0.251	0.237	0.219	0.210
On road : Light-Duty Trucks - Gasoline > CO2	41.337	41.197	44.187	44.693	45.439	47.226	48.752	50.630	52.992	55.647	57.276	60.433	64.712	64.986	69.155
On road : Light-Duty Trucks - Gasoline > N2O	2.474	2.443	2.601	2.575	2.539	2.539	2.322	2.305	2.305	2.288	2.189	2.058	1.957	1.800	1.749
<b>1A3biii - Heavy-duty Trucks and Buses</b>	29.027	27.120	27.993	27.283	28.610	29.515	29.762	30.882	31.459	32.701	32.998	32.984	33.549	34.816	35.646
On road : Heavy-Duty Vehicles - Distillate > CH4	0.025	0.024	0.025	0.024	0.019	0.019	0.019	0.021	0.021	0.021	0.022	0.021	0.021	0.021	0.021
On road : Heavy-Duty Vehicles - Distillate > CO2	17.401	16.967	17.732	17.575	19.173	20.222	20.517	22.206	22.773	23.921	25.623	25.523	26.137	26.939	27.639
On road : Heavy-Duty Vehicles - Distillate > N2O	0.169	0.165	0.172	0.171	0.186	0.197	0.200	0.216	0.222	0.233	0.249	0.249	0.255	0.262	0.269
On road : Heavy-Duty Vehicles - Gasoline > CH4	0.167	0.139	0.100	0.090	0.083	0.077	0.069	0.061	0.059	0.057	0.050	0.047	0.045	0.043	0.040
On road : Heavy-Duty Vehicles - Gasoline > CO2	10.582	9.229	9.351	8.843	8.584	8.451	8.495	7.949	7.960	8.044	6.622	6.737	6.689	7.164	7.306
On road : Heavy-Duty Vehicles - Gasoline > N2O	0.683	0.596	0.613	0.581	0.565	0.549	0.462	0.429	0.425	0.425	0.432	0.407	0.403	0.386	0.372
<b>1A3biv - Motorcycles</b>	0.428	0.422	0.389	0.357	0.329	0.328	0.324	0.252	0.238	0.237	0.244	0.319	0.361	0.526	0.585
On road : Motorcycles - Gasoline > CH4	0.021	0.020	0.014	0.013	0.012	0.011	0.011	0.008	0.008	0.007	0.008	0.010	0.011	0.016	0.017
On road : Motorcycles - Gasoline > CO2	0.376	0.371	0.346	0.317	0.293	0.292	0.289	0.225	0.213	0.212	0.219	0.286	0.324	0.473	0.526
On road : Motorcycles - Gasoline > N2O	0.031	0.030	0.029	0.027	0.025	0.024	0.024	0.018	0.018	0.017	0.018	0.023	0.026	0.038	0.042
<b>1A3c - Railways</b>	2.331	2.463	2.236	1.970	2.131	2.428	2.593	2.567	2.699	2.798	3.067	2.900	3.041	2.785	3.189
Rail - Distillate > CH4	0.005	0.005	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.005	0.006
Rail - Distillate > CO2	2.290	2.421	2.202	1.941	2.101	2.397	2.559	2.536	2.661	2.758	3.027	2.858	3.003	2.746	3.144



## California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — By IPCC Category

Last Updated: November 19, 2007

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Water-borne : Intrastate : Transit (CA waters) - Distillate > CO2	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004
Water-borne : Intrastate : Transit (CA waters) - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Water-borne : Intrastate : Transit (CA waters) - Residual Fuel Oil > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
Water-borne : Intrastate : Transit (CA waters) - Residual Fuel Oil > CO2	0.082	0.085	0.089	0.094	0.099	0.104	0.110	0.116	0.122	0.128	0.135	0.141	0.149	0.156	0.164
Water-borne : Intrastate : Transit (CA waters) - Residual Fuel Oil > N2O	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002
<b>1A4 - Other Sectors</b>	<b>48.28</b>	<b>47.80</b>	<b>44.46</b>	<b>44.46</b>	<b>46.06</b>	<b>42.21</b>	<b>42.69</b>	<b>43.04</b>	<b>48.50</b>	<b>50.68</b>	<b>49.02</b>	<b>45.50</b>	<b>44.92</b>	<b>44.01</b>	<b>46.36</b>
<b>1A4a - Commercial/Institutional</b>	<b>14.036</b>	<b>13.612</b>	<b>11.479</b>	<b>11.118</b>	<b>11.719</b>	<b>11.202</b>	<b>11.178</b>	<b>11.303</b>	<b>12.297</b>	<b>12.964</b>	<b>12.802</b>	<b>11.515</b>	<b>11.432</b>	<b>11.916</b>	<b>12.340</b>
Communication - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Communication - Natural Gas > CO2	0.002	0.002	0.003	0.004	0.017	0.013	0.016	0.033	0.011	0.012	0.013	0.006	0.004	0.010	0.007
Communication - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Communication : Other Message Communications - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Communication : Other Message Communications - Natural Gas > CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.056	0.046	0.044
Communication : Other Message Communications - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Communication : Radio Broadcasting Stations - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Communication : Radio Broadcasting Stations - Natural Gas > CO2	0.005	0.005	0.004	0.004	0.005	0.004	0.005	0.006	0.006	0.006	0.005	0.006	0.006	0.006	0.006
Communication : Radio Broadcasting Stations - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Communication : Telephone & Cell Phone Services - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Communication : Telephone & Cell Phone Services - Natural Gas > CO2	0.048	0.050	0.039	0.020	0.022	0.019	0.019	0.021	0.023	0.026	0.021	0.018	0.023	0.014	0.015
Communication : Telephone & Cell Phone Services - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Communication : U.S. Postal Service - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Communication : U.S. Postal Service - Natural Gas > CO2	0.014	0.015	0.012	0.014	0.018	0.019	0.022	0.017	0.021	0.021	0.019	0.017	0.016	0.015	0.014
Communication : U.S. Postal Service - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Domestic Utilities : Electricity, Natural Gas & Steam - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Domestic Utilities : Electricity, Natural Gas & Steam - Natural Gas > CO2	0.141	0.158	0.164	0.104	0.112	0.119	0.173	0.145	0.134	0.132	0.127	0.130	0.149	0.155	0.154
Domestic Utilities : Electricity, Natural Gas & Steam - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Domestic Utilities : Sewerage Systems - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
Domestic Utilities : Sewerage Systems - Natural Gas > CO2	0.074	0.073	0.083	0.068	0.076	0.093	0.132	0.132	0.184	0.172	0.150	0.138	0.077	0.136	0.257
Domestic Utilities : Sewerage Systems - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Domestic Utilities : Streetlights - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Domestic Utilities : Streetlights - Natural Gas > CO2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Domestic Utilities : Streetlights - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Domestic Utilities : Water Supply - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
Domestic Utilities : Water Supply - Natural Gas > CO2	0.122	0.105	0.107	0.100	0.099	0.100	0.109	0.110	0.101	0.132	0.158	0.092	0.092	0.259	0.203
Domestic Utilities : Water Supply - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Education : College - Natural Gas > CH4	0.002	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001
Education : College - Natural Gas > CO2	0.696	0.604	0.531	0.546	0.691	0.514	0.475	0.556	0.624	0.731	0.752	0.561	0.519	0.507	0.548
Education : College - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Education : School - Natural Gas > CH4	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001
Education : School - Natural Gas > CO2	0.717	0.675	0.556	0.577	0.579	0.467	0.470	0.483	0.592	0.638	0.549	0.431	0.542	0.489	0.510
Education : School - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Food Services : Food & Liquor - Natural Gas > CH4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Food Services : Food & Liquor - Natural Gas > CO2	0.255	0.247	0.236	0.247	0.259	0.252	0.264	0.279	0.310	0.327	0.334	0.318	0.306	0.318	0.391
Food Services : Food & Liquor - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Food Services : Restaurant - Natural Gas > CH4	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.004	0.005	0.005	0.005
Food Services : Restaurant - Natural Gas > CO2	1.633	1.635	1.617	1.628	1.639	1.636	1.689	1.744	1.872	1.931	1.991	1.871	1.997	2.117	2.185



## California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — By IPCC Category

Last Updated: November 19, 2007

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Transportation Services : Airports - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Transportation Services : Airports - Natural Gas > CO2	0.024	0.025	0.015	0.029	0.026	0.022	0.036	0.021	0.045	0.052	0.043	0.028	0.037	0.038	0.037
Transportation Services : Airports - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Transportation Services : Transportation - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Transportation Services : Transportation - Natural Gas > CO2	0.007	0.008	0.008	0.008	0.007	0.006	0.004	0.005	0.006	0.007	0.007	0.011	0.007	0.007	0.007
Transportation Services : Transportation - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Transportation Services : Water Transportation - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Transportation Services : Water Transportation - Natural Gas > CO2	0.004	0.004	0.004	0.003	0.004	0.004	0.003	0.003	0.004	0.004	0.005	0.004	0.004	0.004	0.004
Transportation Services : Water Transportation - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>1A4b - Residential</b>	<b>29.740</b>	<b>30.322</b>	<b>28.651</b>	<b>29.146</b>	<b>29.867</b>	<b>27.274</b>	<b>27.380</b>	<b>26.777</b>	<b>31.471</b>	<b>32.263</b>	<b>30.660</b>	<b>28.640</b>	<b>28.575</b>	<b>27.971</b>	<b>29.153</b>
Household Use - Distillate > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Household Use - Distillate > CO2	0.089	0.085	0.101	0.101	0.102	0.078	0.065	0.070	0.075	0.077	0.108	0.127	0.064	0.053	0.061
Household Use - Distillate > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Household Use - Kerosene > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Household Use - Kerosene > CO2	0.054	0.044	0.048	0.037	0.036	0.015	0.031	0.030	0.036	0.046	0.057	0.099	0.078	0.083	0.113
Household Use - Kerosene > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Household Use - LPG > CH4	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.002
Household Use - LPG > CO2	1.298	1.565	1.084	1.130	1.123	1.103	0.918	0.830	1.371	1.286	1.545	1.066	1.218	1.218	1.218
Household Use - LPG > N2O	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Household Use - Natural Gas > CH4	0.065	0.066	0.063	0.064	0.066	0.060	0.061	0.060	0.069	0.072	0.066	0.064	0.062	0.062	0.065
Household Use - Natural Gas > CO2	27.663	27.960	26.725	27.275	28.012	25.436	25.725	25.442	29.603	30.445	28.532	26.982	26.823	26.225	27.366
Household Use - Natural Gas > N2O	0.016	0.016	0.015	0.015	0.016	0.014	0.014	0.014	0.017	0.017	0.016	0.015	0.015	0.015	0.015
Household Use - Wood (Wet) > CH4	0.476	0.502	0.528	0.448	0.439	0.487	0.486	0.283	0.256	0.273	0.287	0.245	0.269	0.269	0.269
Household Use - Wood (Wet) > N2O	0.076	0.080	0.084	0.071	0.070	0.077	0.077	0.045	0.041	0.043	0.046	0.039	0.043	0.043	0.043
<b>1A4c - Agriculture/Forestry/Fishing/Fish Farms</b>	<b>4.507</b>	<b>3.862</b>	<b>4.332</b>	<b>4.198</b>	<b>4.478</b>	<b>3.733</b>	<b>4.133</b>	<b>4.961</b>	<b>4.733</b>	<b>5.448</b>	<b>5.555</b>	<b>5.348</b>	<b>4.913</b>	<b>4.125</b>	<b>4.862</b>
Ag Energy Use - Distillate > CH4	0.011	0.009	0.011	0.011	0.011	0.009	0.010	0.013	0.012	0.014	0.014	0.014	0.012	0.010	0.012
Ag Energy Use - Distillate > CO2	3.355	2.752	3.232	3.167	3.238	2.598	2.933	3.693	3.398	3.990	4.060	4.074	3.653	2.875	3.423
Ag Energy Use - Distillate > N2O	0.008	0.007	0.008	0.008	0.008	0.006	0.007	0.009	0.008	0.010	0.010	0.010	0.009	0.007	0.008
Ag Energy Use - Gasoline > CH4	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
Ag Energy Use - Gasoline > CO2	0.433	0.433	0.433	0.434	0.434	0.433	0.422	0.418	0.418	0.418	0.418	0.367	0.392	0.403	0.511
Ag Energy Use - Gasoline > N2O	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Ag Energy Use - Kerosene > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ag Energy Use - Kerosene > CO2	0.002	0.001	0.005	0.005	0.007	0.002	0.007	0.006	0.003	0.004	0.002	0.004	0.014	0.003	0.005
Ag Energy Use - Kerosene > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ag Energy Use - LPG > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ag Energy Use - LPG > CO2	0.154	0.153	0.154	0.153	0.154	0.154	0.153	0.153	0.153	0.153	0.092	0.213	0.153	0.153	0.153
Ag Energy Use - LPG > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ag Energy Use - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ag Energy Use - Natural Gas > CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
Ag Energy Use - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ag Energy Use : Crop Production - Natural Gas > CH4	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001
Ag Energy Use : Crop Production - Natural Gas > CO2	0.447	0.426	0.416	0.344	0.450	0.403	0.497	0.574	0.640	0.697	0.753	0.557	0.589	0.601	0.628
Ag Energy Use : Crop Production - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ag Energy Use : Irrigation - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ag Energy Use : Irrigation - Natural Gas > CO2	0.038	0.020	0.016	0.022	0.120	0.076	0.052	0.037	0.035	0.080	0.115	0.029	0.014	0.001	0.048



## California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — By IPCC Category

Last Updated: November 19, 2007

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Ag Energy Use : Irrigation - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ag Energy Use : Livestock - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ag Energy Use : Livestock - Natural Gas > CO2	0.053	0.056	0.053	0.050	0.050	0.047	0.048	0.053	0.060	0.078	0.085	0.074	0.071	0.067	0.069
Ag Energy Use : Livestock - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>1A5 - Non-Specified</b>	<b>1.38</b>	<b>0.78</b>	<b>0.69</b>	<b>0.73</b>	<b>0.82</b>	<b>0.70</b>	<b>0.68</b>	<b>0.60</b>	<b>0.35</b>	<b>0.84</b>	<b>0.95</b>	<b>0.82</b>	<b>5.61</b>	<b>2.60</b>	<b>2.16</b>
Flaring - Natural Gas > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Flaring - Natural Gas > CO2	0.149	0.068	0.078	0.041	0.031	0.044	0.069	0.068	0.090	0.105	0.071	0.119	0.091	0.145	0.106
Flaring - Natural Gas > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Not Specified Not Specified - LPG > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Not Specified Not Specified - LPG > CO2	0.134	0.133	0.134	0.133	0.134	0.134	0.133	0.133	0.133	0.133	0.101	0.166	0.133	0.133	0.133
Not Specified Not Specified - LPG > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Not Specified Not Specified - Natural Gas > CH4	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.001
Not Specified Not Specified - Natural Gas > CO2	1.097	0.576	0.480	0.560	0.650	0.526	0.476	0.400	0.125	0.596	0.780	0.538	5.379	2.316	1.920
Not Specified Not Specified - Natural Gas > N2O	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.001
<b>1B - Fugitive Emissions from Fuels</b>	<b>5.81</b>	<b>5.70</b>	<b>5.26</b>	<b>5.49</b>	<b>5.24</b>	<b>4.82</b>	<b>5.02</b>	<b>4.99</b>	<b>4.93</b>	<b>4.95</b>	<b>4.83</b>	<b>4.92</b>	<b>5.02</b>	<b>5.03</b>	<b>5.10</b>
<b>1B2 - Oil and Natural Gas</b>	<b>3.50</b>	<b>3.36</b>	<b>2.94</b>	<b>3.14</b>	<b>3.08</b>	<b>3.01</b>	<b>3.07</b>	<b>2.98</b>	<b>2.89</b>	<b>2.88</b>	<b>2.88</b>	<b>3.00</b>	<b>2.95</b>	<b>2.98</b>	<b>3.03</b>
Manufacturing : Chemicals & Allied Products : Fugitives > Fugitive emissions > CH4	0.027	0.021	0.009	0.015	0.020	0.017	0.015	0.027	0.023	0.025	0.025	0.022	0.019	0.016	0.015
Manufacturing : Construction : Fugitives > Fugitive emissions > CH4	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Manufacturing : Electric & Electronic Equip. : Fugitives > Fugitive emissions > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Manufacturing : Food Products : Fugitives > Fugitive emissions > CH4	0.016	0.017	0.006	0.011	0.009	0.008	0.011	0.014	0.011	0.013	0.013	0.012	0.009	0.009	0.009
Manufacturing : Fugitives > Fugitive emissions > CH4	0.054	0.092	0.030	0.080	0.083	0.080	0.080	0.051	0.051	0.047	0.048	0.064	0.036	0.036	0.036
Manufacturing : Plastics & Rubber : Fugitives > Fugitive emissions > CH4	0.008	0.008	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.008	0.009	0.009
Manufacturing : Primary Metals : Fugitives > Fugitive emissions > CH4	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.003	0.001	0.003	0.003	0.001	0.001	0.001	0.001
Manufacturing : Pulp & Paper : Fugitives > Fugitive emissions > CH4	0.005	0.005	0.004	0.004	0.004	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Manufacturing : Stone, Clay, Glass & Cement : Fugitives > Fugitive emissions > CH4	0.007	0.007	0.003	0.007	0.007	0.007	0.006	0.010	0.009	0.010	0.010	0.006	0.006	0.006	0.006
Manufacturing : Storage Tanks : Fugitives > Fugitive emissions > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Not Specified Industrial : Fugitives > Fugitive emissions > CH4	0.313	0.313	0.302	0.310	0.312	0.316	0.320	0.326	0.328	0.335	0.341	0.347	0.353	0.365	0.371
Oil & Gas Extraction : Petroleum Gas Seeps : Fugitives > Fugitive emissions > CH4	0.287	0.287	0.287	0.287	0.287	0.287	0.427	0.427	0.427	0.427	0.427	0.555	0.567	0.567	0.567
Oil & Gas Extraction : Process Losses : Fugitives > Fugitive emissions > CH4	0.497	0.453	0.319	0.443	0.420	0.392	0.379	0.364	0.307	0.323	0.314	0.296	0.248	0.249	0.250
Oil & Gas Extraction : Storage Tanks : Fugitives > Fugitive emissions > CH4	0.306	0.276	0.138	0.164	0.146	0.131	0.129	0.112	0.129	0.111	0.108	0.106	0.101	0.091	0.103
Petroleum Marketing : Process Losses : Fugitives > Fugitive emissions > CH4	0.009	0.010	0.008	0.006	0.006	0.006	0.004	0.003	0.003	0.003	0.003	0.003	0.001	0.001	0.001
Petroleum Marketing : Storage Tanks : Fugitives > Fugitive emissions > CH4	0.010	0.012	0.001	0.009	0.009	0.009	0.009	0.010	0.008	0.006	0.007	0.004	0.002	0.002	0.002
1B2a - Oil	0.166	0.093	0.086	0.079	0.080	0.085	0.065	0.052	0.053	0.069	0.064	0.030	0.035	0.035	0.035
1B2a-iii - All Other	0.166	0.093	0.086	0.079	0.080	0.085	0.065	0.052	0.053	0.069	0.064	0.030	0.035	0.035	0.035
Petroleum Refining : Process Losses : Fugitives > Fugitive emissions > CH4	0.163	0.089	0.082	0.074	0.075	0.076	0.059	0.047	0.049	0.043	0.045	0.021	0.019	0.019	0.019
Petroleum Refining : Storage Tanks : Fugitives > Fugitive emissions > CH4	0.003	0.004	0.005	0.005	0.005	0.009	0.006	0.005	0.004	0.026	0.018	0.009	0.015	0.015	0.016
1B2b - Natural Gas	1.792	1.763	1.731	1.712	1.691	1.662	1.612	1.570	1.529	1.494	1.504	1.533	1.552	1.584	1.612
Pipelines : Natural Gas : Fugitives > Fugitive emissions > CH4	1.792	1.763	1.731	1.712	1.691	1.662	1.612	1.570	1.529	1.494	1.504	1.533	1.552	1.584	1.612
<b>1B3 - Other Emissions from Energy Production</b>	<b>2.31</b>	<b>2.34</b>	<b>2.33</b>	<b>2.35</b>	<b>2.15</b>	<b>1.80</b>	<b>1.95</b>	<b>2.01</b>	<b>2.03</b>	<b>2.06</b>	<b>1.95</b>	<b>1.93</b>	<b>2.07</b>	<b>2.05</b>	<b>2.07</b>
In State Generation : Merchant Owned > Geothermal power - Geothermal > CO2	0.968	1.088	1.079	1.185	1.089	1.078	1.152	1.170	1.238	1.820	1.948	1.928	1.882	1.888	1.907
In State Generation : Utility Owned > Geothermal power - Geothermal > CO2	1.339	1.249	1.247	1.169	1.062	0.725	0.796	0.837	0.794	0.244	0.000	0.000	0.187	0.166	0.167
<b>2 - Industrial Processes and Product Use</b>	<b>18.32</b>	<b>17.36</b>	<b>16.98</b>	<b>18.09</b>	<b>18.95</b>	<b>20.87</b>	<b>22.63</b>	<b>24.76</b>	<b>26.42</b>	<b>27.33</b>	<b>28.93</b>	<b>28.94</b>	<b>30.31</b>	<b>31.52</b>	<b>32.80</b>
<b>2A - Mineral Industry</b>	<b>4.85</b>	<b>4.85</b>	<b>4.85</b>	<b>4.82</b>	<b>4.85</b>	<b>4.89</b>	<b>5.01</b>	<b>5.15</b>	<b>5.28</b>	<b>5.42</b>	<b>5.57</b>	<b>5.65</b>	<b>5.73</b>	<b>5.82</b>	<b>5.90</b>
<b>2A1 - Cement Production</b>	<b>4.62</b>	<b>4.64</b>	<b>4.66</b>	<b>4.68</b>	<b>4.70</b>	<b>4.72</b>	<b>4.86</b>	<b>5.00</b>	<b>5.15</b>	<b>5.29</b>	<b>5.43</b>	<b>5.52</b>	<b>5.60</b>	<b>5.68</b>	<b>5.77</b>
Manufacturing : Stone, Clay, Glass & Cement : Cement > Clinker production > CO2	4.619	4.638	4.658	4.677	4.697	4.716	4.859	5.003	5.146	5.289	5.433	5.517	5.601	5.684	5.768

## California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — By IPCC Category

Last Updated: November 19, 2007

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b>2A2 - Lime Production</b>	<b>0.23</b>	<b>0.21</b>	<b>0.19</b>	<b>0.14</b>	<b>0.15</b>	<b>0.17</b>	<b>0.15</b>	<b>0.15</b>	<b>0.14</b>	<b>0.14</b>	<b>0.14</b>	<b>0.14</b>	<b>0.13</b>	<b>0.13</b>	<b>0.13</b>
Manufacturing : Stone, Clay, Glass & Cement : Lime > Lime production > CO2	0.234	0.208	0.190	0.144	0.151	0.170	0.155	0.149	0.138	0.135	0.138	0.136	0.133	0.131	0.128
<b>2B - Chemical Industry</b>	<b>2.32</b>	<b>1.91</b>	<b>1.79</b>	<b>1.51</b>	<b>1.66</b>	<b>1.61</b>	<b>1.26</b>	<b>1.21</b>	<b>1.40</b>	<b>1.21</b>	<b>1.37</b>	<b>1.18</b>	<b>1.23</b>	<b>1.25</b>	<b>1.31</b>
Manufacturing : Chemicals & Allied Products > Fuel consumption - LPG > CO2	0.052	0.059	0.060	0.058	0.067	0.068	0.071	0.072	0.075	0.078	0.071	0.066	0.072	0.072	0.072
Manufacturing : Chemicals & Allied Products > Fuel consumption - Natural Gas > CO2	0.862	0.769	0.591	0.475	0.549	0.540	0.568	0.480	0.650	0.513	0.628	0.540	0.556	0.564	0.557
Manufacturing : Chemicals & Allied Products > Fuel consumption - Petroleum feedstocks > CO2	0.894	0.567	0.604	0.604	0.627	0.530	0.337	0.378	0.398	0.356	0.410	0.363	0.374	0.397	0.463
<b>2B2 - Nitric Acid Production</b>	<b>0.51</b>	<b>0.52</b>	<b>0.53</b>	<b>0.37</b>	<b>0.42</b>	<b>0.47</b>	<b>0.28</b>	<b>0.28</b>	<b>0.27</b>	<b>0.26</b>	<b>0.26</b>	<b>0.21</b>	<b>0.23</b>	<b>0.22</b>	<b>0.22</b>
Manufacturing : Chemicals & Allied Products : Nitric Acid > Nitric acid production > N2O	0.514	0.517	0.533	0.370	0.421	0.468	0.284	0.284	0.274	0.264	0.257	0.209	0.226	0.219	0.218
<b>2D - Non-Energy Products from Fuels and Solvent Use</b>	<b>2.29</b>	<b>1.92</b>	<b>2.03</b>	<b>2.04</b>	<b>1.90</b>	<b>1.78</b>	<b>1.58</b>	<b>1.63</b>	<b>1.92</b>	<b>2.18</b>	<b>1.85</b>	<b>1.64</b>	<b>1.78</b>	<b>1.56</b>	<b>1.37</b>
<b>2D1 - Lubricant Use</b>	<b>1.13</b>	<b>1.01</b>	<b>1.03</b>	<b>1.05</b>	<b>1.10</b>	<b>1.08</b>	<b>1.05</b>	<b>1.11</b>	<b>1.16</b>	<b>1.17</b>	<b>1.15</b>	<b>1.06</b>	<b>1.04</b>	<b>0.96</b>	<b>0.98</b>
Not Specified Industrial > Fuel consumption - Lubricants > CO2	0.484	0.433	0.442	0.450	0.470	0.462	0.449	0.474	0.496	0.501	0.494	0.603	0.596	0.551	0.558
Not Specified Transportation > Fuel consumption - Lubricants > CO2	0.646	0.578	0.589	0.600	0.627	0.616	0.598	0.632	0.661	0.668	0.658	0.452	0.447	0.413	0.419
<b>2D2 - Paraffin Wax Use</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Not Specified Industrial > Fuel consumption - Waxes > CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>2D4 - Other (please specify)</b>	<b>1.16</b>	<b>0.91</b>	<b>1.00</b>	<b>0.99</b>	<b>0.80</b>	<b>0.70</b>	<b>0.53</b>	<b>0.52</b>	<b>0.76</b>	<b>1.01</b>	<b>0.70</b>	<b>0.58</b>	<b>0.74</b>	<b>0.59</b>	<b>0.39</b>
Not Specified Industrial > Fuel consumption - Asphalt > CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Not Specified Industrial > Fuel consumption - Naphtha > CO2	0.938	0.755	0.897	0.897	0.696	0.608	0.486	0.471	0.699	0.948	0.635	0.512	0.668	0.525	0.333
Not Specified Industrial > Fuel consumption - Other Petroleum Products > CO2	0.219	0.151	0.099	0.094	0.105	0.097	0.049	0.053	0.065	0.061	0.065	0.069	0.073	0.069	0.062
<b>2E - Electronics Industry</b>	<b>0.71</b>	<b>0.71</b>	<b>0.71</b>	<b>0.88</b>	<b>0.98</b>	<b>1.23</b>	<b>1.35</b>	<b>1.54</b>	<b>1.72</b>	<b>1.71</b>	<b>1.47</b>	<b>1.03</b>	<b>0.99</b>	<b>0.97</b>	<b>1.06</b>
Manufacturing : Electric & Electronic Equip. : Semiconductors & Related Products > Semiconductor manufacture > Halogenated gases (in CO2 Eq.)	0.711	0.711	0.711	0.882	0.980	1.225	1.348	1.544	1.716	1.714	1.475	1.034	0.990	0.968	1.058
<b>2F - Product Uses as Substitutes for Ozone Depleting Substances</b>	<b>0.04</b>	<b>0.08</b>	<b>0.41</b>	<b>1.03</b>	<b>2.05</b>	<b>4.32</b>	<b>6.04</b>	<b>7.77</b>	<b>8.90</b>	<b>10.00</b>	<b>11.02</b>	<b>12.13</b>	<b>13.32</b>	<b>14.59</b>	<b>15.87</b>
Not Specified Not Specified > Use of substitutes for ozone depleting substances > CF4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001
Not Specified Not Specified > Use of substitutes for ozone depleting substances > HFC-125	0.000	0.000	0.091	0.196	0.316	0.524	0.779	1.053	1.315	1.489	1.687	1.878	2.082	2.348	2.640
Not Specified Not Specified > Use of substitutes for ozone depleting substances > HFC-134a	0.000	0.000	0.226	0.731	1.575	3.427	4.534	5.651	6.186	6.872	7.463	8.088	8.651	9.163	9.640
Not Specified Not Specified > Use of substitutes for ozone depleting substances > HFC-143a	0.000	0.000	0.000	0.014	0.057	0.127	0.310	0.524	0.754	0.944	1.177	1.468	1.816	2.209	2.642
Not Specified Not Specified > Use of substitutes for ozone depleting substances > HFC-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.004	0.004	0.004	0.005
Not Specified Not Specified > Use of substitutes for ozone depleting substances > HFC-236fa	0.000	0.000	0.000	0.000	0.019	0.037	0.056	0.075	0.094	0.114	0.131	0.151	0.151	0.171	0.190
Not Specified Not Specified > Use of substitutes for ozone depleting substances > HFC-32	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.025	0.038	0.038	0.038	0.038	0.050	0.051	0.063
Not Specified Not Specified > Use of substitutes for ozone depleting substances > Other ODS substitutes	0.037	0.075	0.088	0.088	0.088	0.199	0.349	0.438	0.515	0.543	0.526	0.504	0.569	0.647	0.685
<b>2G - Other Product Manufacture and Use</b>	<b>3.07</b>	<b>2.78</b>	<b>2.55</b>	<b>2.93</b>	<b>2.71</b>	<b>2.30</b>	<b>2.44</b>	<b>2.20</b>	<b>1.90</b>	<b>1.87</b>	<b>1.68</b>	<b>1.62</b>	<b>1.60</b>	<b>1.52</b>	<b>1.55</b>
<b>2G1 - Electrical Equipment</b>	<b>2.46</b>	<b>2.21</b>	<b>2.00</b>	<b>2.37</b>	<b>2.12</b>	<b>1.64</b>	<b>1.78</b>	<b>1.58</b>	<b>1.27</b>	<b>1.20</b>	<b>1.09</b>	<b>1.09</b>	<b>1.00</b>	<b>0.98</b>	<b>0.97</b>
2G1b - Use of Electrical Equipment	2.458	2.207	1.996	2.370	2.120	1.645	1.778	1.580	1.272	1.204	1.088	1.092	1.000	0.984	0.971
Imported Electricity : Transmission and Distribution > SF6 use > SF6	0.969	0.860	0.642	0.758	0.682	0.550	0.622	0.579	0.438	0.422	0.290	0.316	0.340	0.321	0.325
In State Generation : Transmission and Distribution > SF6 use > SF6	1.489	1.347	1.354	1.612	1.438	1.094	1.155	1.001	0.834	0.783	0.799	0.776	0.660	0.663	0.646
<b>2G4 - Other (Please specify)</b>	<b>0.61</b>	<b>0.58</b>	<b>0.56</b>	<b>0.56</b>	<b>0.59</b>	<b>0.65</b>	<b>0.66</b>	<b>0.62</b>	<b>0.62</b>	<b>0.66</b>	<b>0.60</b>	<b>0.53</b>	<b>0.60</b>	<b>0.54</b>	<b>0.58</b>
Not Specified Industrial > CO2 Consumption > CO2	0.129	0.126	0.124	0.125	0.129	0.134	0.132	0.125	0.119	0.119	0.119	0.068	0.085	0.110	0.102
Not Specified Industrial > Limestone and dolomite consumption > CO2	0.138	0.125	0.112	0.112	0.147	0.193	0.207	0.165	0.175	0.202	0.155	0.142	0.197	0.122	0.163
Not Specified Industrial > Soda ash consumption > CO2	0.341	0.324	0.320	0.318	0.312	0.324	0.322	0.333	0.329	0.340	0.322	0.317	0.315	0.308	0.319
<b>2H - Other</b>	<b>5.05</b>	<b>5.12</b>	<b>4.65</b>	<b>4.88</b>	<b>4.80</b>	<b>4.76</b>	<b>4.95</b>	<b>5.25</b>	<b>5.31</b>	<b>4.93</b>	<b>5.96</b>	<b>5.69</b>	<b>5.65</b>	<b>5.81</b>	<b>5.74</b>
<b>2H3 - Other (please specify)</b>	<b>5.05</b>	<b>5.12</b>	<b>4.65</b>	<b>4.88</b>	<b>4.80</b>	<b>4.76</b>	<b>4.95</b>	<b>5.25</b>	<b>5.31</b>	<b>4.93</b>	<b>5.96</b>	<b>5.69</b>	<b>5.65</b>	<b>5.81</b>	<b>5.74</b>
Petroleum Refining : Transformation > Fuel consumption - Naphtha > CO2	0.416	0.416	0.400	0.400	0.400	0.390	0.173	0.173	0.173	0.173	0.173	0.403	0.403	0.227	0.227
Petroleum Refining : Transformation > Fuel consumption - Natural Gas > CO2	2.100	2.124	1.898	2.017	1.976	1.949	2.178	2.346	2.407	2.251	2.817	2.525	2.531	2.676	2.660
Petroleum Refining : Transformation > Fuel consumption - Natural Gas Liquids > CO2	0.275	0.275	0.275	0.275	0.275	0.292	0.251	0.300	0.266	0.254	0.198	0.227	0.233	0.221	0.185



## California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — By IPCC Category

Last Updated: November 19, 2007

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Livestock population - Not on Feed - Heifers 500+ lbs > CH4	0.011	0.011	0.011	0.010	0.011	0.010	0.011	0.010	0.010	0.010	0.010	0.009	0.008	0.008	0.008
Livestock population - Not on Feed - Heifers 500+ lbs > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Livestock population - Not on Feed - Steers 500+ lbs > CH4	0.012	0.010	0.012	0.011	0.013	0.012	0.013	0.012	0.011	0.012	0.011	0.009	0.009	0.007	0.008
Livestock population - Not on Feed - Steers 500+ lbs > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>3A2c - Sheep</b>	<b>0.022</b>	<b>0.022</b>	<b>0.021</b>	<b>0.019</b>	<b>0.023</b>	<b>0.022</b>	<b>0.020</b>	<b>0.019</b>	<b>0.017</b>	<b>0.018</b>	<b>0.017</b>	<b>0.017</b>	<b>0.016</b>	<b>0.016</b>	<b>0.015</b>
Livestock population - Sheep > CH4	0.020	0.020	0.019	0.017	0.021	0.020	0.018	0.017	0.016	0.016	0.016	0.016	0.015	0.014	0.013
Livestock population - Sheep > N2O	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001
<b>3A2d - Goats</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>
Livestock population - Goats > CH4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Livestock population - Goats > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>3A2f - Horses</b>	<b>0.042</b>	<b>0.042</b>	<b>0.042</b>	<b>0.042</b>	<b>0.042</b>	<b>0.032</b>	<b>0.032</b>	<b>0.032</b>	<b>0.033</b>	<b>0.032</b>	<b>0.026</b>	<b>0.026</b>	<b>0.026</b>	<b>0.026</b>	<b>0.026</b>
Livestock population - Horses > CH4	0.042	0.042	0.042	0.042	0.042	0.032	0.032	0.032	0.033	0.032	0.026	0.026	0.026	0.026	0.026
Livestock population - Horses > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>3A2h - Swine</b>	<b>0.080</b>	<b>0.090</b>	<b>0.113</b>	<b>0.109</b>	<b>0.108</b>	<b>0.107</b>	<b>0.093</b>	<b>0.094</b>	<b>0.084</b>	<b>0.079</b>	<b>0.062</b>	<b>0.048</b>	<b>0.065</b>	<b>0.061</b>	<b>0.062</b>
Livestock population - Swine - Breeding > CH4	0.020	0.021	0.026	0.023	0.023	0.023	0.020	0.020	0.019	0.018	0.014	0.014	0.015	0.014	0.014
Livestock population - Swine - Breeding > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Livestock population - Swine - Market <60 lbs > CH4	0.011	0.012	0.016	0.014	0.013	0.013	0.011	0.012	0.013	0.011	0.006	0.007	0.007	0.007	0.006
Livestock population - Swine - Market <60 lbs > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Livestock population - Swine - Market 120-179 lbs > CH4	0.016	0.020	0.023	0.024	0.023	0.023	0.021	0.024	0.020	0.018	0.022	0.006	0.014	0.014	0.013
Livestock population - Swine - Market 120-179 lbs > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Livestock population - Swine - Market 180+ lbs > CH4	0.018	0.021	0.029	0.029	0.029	0.029	0.024	0.023	0.015	0.017	0.007	0.013	0.018	0.018	0.020
Livestock population - Swine - Market 180+ lbs > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Livestock population - Swine - Market 60-119 lbs > CH4	0.015	0.015	0.018	0.018	0.020	0.018	0.016	0.014	0.015	0.015	0.013	0.008	0.009	0.008	0.009
Livestock population - Swine - Market 60-119 lbs > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>3A2i - Poultry</b>	<b>0.223</b>	<b>0.217</b>	<b>0.205</b>	<b>0.188</b>	<b>0.189</b>	<b>0.187</b>	<b>0.185</b>	<b>0.189</b>	<b>0.164</b>	<b>0.170</b>	<b>0.167</b>	<b>0.166</b>	<b>0.160</b>	<b>0.150</b>	<b>0.135</b>
Livestock population - Broilers > CH4	0.019	0.019	0.019	0.017	0.018	0.019	0.019	0.019	0.005	0.005	0.008	0.008	0.008	0.008	0.007
Livestock population - Broilers > N2O	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.002	0.002	0.003	0.003	0.003	0.003	0.003
Livestock population - Hens 1+ yr > CH4	0.114	0.115	0.112	0.108	0.111	0.107	0.111	0.113	0.112	0.111	0.106	0.107	0.102	0.093	0.085
Livestock population - Hens 1+ yr > N2O	0.019	0.017	0.015	0.013	0.012	0.010	0.009	0.007	0.006	0.005	0.005	0.005	0.004	0.004	0.004
Livestock population - Other Chickens > CH4	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000
Livestock population - Other Chickens > N2O	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Livestock population - Pullets > CH4	0.021	0.020	0.019	0.016	0.017	0.018	0.014	0.019	0.018	0.028	0.026	0.024	0.023	0.024	0.020
Livestock population - Pullets > N2O	0.003	0.003	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Livestock population - Turkeys > CH4	0.028	0.025	0.023	0.019	0.017	0.017	0.017	0.016	0.014	0.013	0.013	0.013	0.013	0.012	0.011
Livestock population - Turkeys > N2O	0.011	0.010	0.009	0.007	0.007	0.007	0.007	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004
<b>3B - Land</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>
<b>3B1 - Forest Land</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>	<b>0.22</b>
Fire - Forest > N2O	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Fire - Rangeland > N2O	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Fire and other disturbances - Forest > CH4	0.182	0.182	0.182	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
Fire and other disturbances - Rangeland > CH4	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
<b>3C - Aggregate Sources and Non-CO2 Emissions Sources on Land</b>	<b>7.08</b>	<b>6.39</b>	<b>6.53</b>	<b>6.92</b>	<b>6.85</b>	<b>7.56</b>	<b>7.42</b>	<b>6.87</b>	<b>6.83</b>	<b>7.05</b>	<b>7.70</b>	<b>7.19</b>	<b>9.03</b>	<b>8.93</b>	<b>8.97</b>
<b>3C1 - Emissions from Biomass Burning</b>	<b>0.13</b>	<b>0.12</b>	<b>0.11</b>	<b>0.12</b>	<b>0.11</b>	<b>0.11</b>	<b>0.10</b>	<b>0.09</b>	<b>0.09</b>	<b>0.09</b>	<b>0.10</b>	<b>0.08</b>	<b>0.08</b>	<b>0.08</b>	<b>0.09</b>
3C1b - Biomass Burning in Croplands	0.127	0.115	0.109	0.116	0.113	0.108	0.103	0.090	0.092	0.091	0.096	0.081	0.082	0.085	0.086



## California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — By IPCC Category

Last Updated: November 19, 2007

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Petroleum Refining : Wastewater Treatment : Fugitives > Fugitive emissions > CH4	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001
Waste water treatment : Industrial Waste Water > Production Processed - Fruit and Vegetables > CH4	0.265	0.254	0.249	0.273	0.300	0.278	0.298	0.299	0.279	0.313	0.322	0.293	0.338	0.304	0.316
Waste water treatment : Industrial Waste Water > Production Processed - Poultry > CH4	0.050	0.048	0.044	0.039	0.038	0.038	0.038	0.038	0.036	0.035	0.054	0.055	0.053	0.051	0.051
Waste water treatment : Industrial Waste Water > Production Processed - Red Meat > CH4	0.082	0.078	0.069	0.067	0.070	0.076	0.077	0.076	0.076	0.077	0.078	0.083	0.099	0.104	0.104

**Summary of Categories Included in the Inventory.***(using IPCC Fourth Assessment Report's GWPs)*

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b>Gross California Emissions</b>	<b>437.41</b>	<b>421.01</b>	<b>422.83</b>	<b>419.55</b>	<b>432.01</b>	<b>421.61</b>	<b>419.32</b>	<b>437.93</b>	<b>454.27</b>	<b>462.01</b>	<b>462.90</b>	<b>479.28</b>	<b>474.48</b>	<b>473.61</b>	<b>490.79</b>
<b>Sinks from Forests and Rangelands</b>	<b>-6.69</b>	<b>-6.54</b>	<b>-6.33</b>	<b>-6.03</b>	<b>-5.79</b>	<b>-5.56</b>	<b>-5.42</b>	<b>-5.37</b>	<b>-5.19</b>	<b>-5.18</b>	<b>-5.02</b>	<b>-4.83</b>	<b>-4.69</b>	<b>-4.67</b>	<b>-4.66</b>
<b>Net California Emissions</b>	<b>430.72</b>	<b>414.48</b>	<b>416.50</b>	<b>413.52</b>	<b>426.22</b>	<b>416.04</b>	<b>413.90</b>	<b>432.56</b>	<b>449.07</b>	<b>456.83</b>	<b>457.88</b>	<b>474.45</b>	<b>469.78</b>	<b>468.95</b>	<b>486.12</b>

## California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — By IPCC Category

Last Updated: November 19, 2007

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b>Categories Excluded from the Inventory.</b>	<i>(CO2 equivalence based upon IPCC Fourth Assessment Report's Global Warming Potentials)</i>														
<b>1 - Energy</b>	<b>59.01</b>	<b>52.99</b>	<b>45.38</b>	<b>46.21</b>	<b>52.90</b>	<b>55.12</b>	<b>56.50</b>	<b>48.60</b>	<b>48.36</b>	<b>50.46</b>	<b>55.51</b>	<b>51.07</b>	<b>53.05</b>	<b>40.79</b>	<b>44.15</b>
<b>1A - Fuel Combustion Activities</b>	<b>59.01</b>	<b>52.99</b>	<b>45.38</b>	<b>46.21</b>	<b>52.90</b>	<b>55.12</b>	<b>56.50</b>	<b>48.60</b>	<b>48.36</b>	<b>50.46</b>	<b>55.51</b>	<b>51.07</b>	<b>53.05</b>	<b>40.79</b>	<b>44.15</b>
<b>1A3 - Transport</b>	<b>59.01</b>	<b>52.99</b>	<b>45.38</b>	<b>46.21</b>	<b>52.90</b>	<b>55.12</b>	<b>56.50</b>	<b>48.60</b>	<b>48.36</b>	<b>50.46</b>	<b>55.51</b>	<b>51.07</b>	<b>53.05</b>	<b>40.79</b>	<b>44.15</b>
1A3a - Civil Aviation	33.945	32.411	31.589	32.939	36.559	34.984	38.200	38.265	39.110	36.616	38.572	35.527	38.418	30.835	32.907
1A3ai - <i>International Aviation (International Bunkers)</i>	14.593	13.849	13.320	13.703	15.152	14.607	15.901	15.805	16.148	15.120	15.783	14.896	15.676	12.677	13.479
Aviation : International Civil Aviation - Jet Fuel > CH4 (Excluded)	0.010	0.009	0.009	0.009	0.010	0.010	0.011	0.011	0.011	0.010	0.011	0.010	0.011	0.009	0.009
Aviation : International Civil Aviation - Jet Fuel > CO2 (Excluded)	14.449	13.711	13.188	13.567	15.002	14.462	15.743	15.648	15.988	14.969	15.626	14.748	15.521	12.551	13.345
Aviation : International Civil Aviation - Jet Fuel > N2O (Excluded)	0.135	0.128	0.123	0.127	0.140	0.135	0.147	0.146	0.149	0.140	0.146	0.138	0.145	0.117	0.125
1A3aii - <i>Domestic Aviation</i>	19.351	18.562	18.269	19.236	21.407	20.377	22.299	22.460	22.962	21.497	22.789	20.630	22.742	18.158	19.428
Aviation : Domestic Air transport : Interstate - Jet Fuel > CH4 (Excluded)	0.013	0.012	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.015	0.015	0.014	0.015	0.012	0.013
Aviation : Domestic Air transport : Interstate - Jet Fuel > CO2 (Excluded)	19.160	18.378	18.088	19.045	21.194	20.175	22.078	22.237	22.734	21.283	22.563	20.425	22.516	17.977	19.235
Aviation : Domestic Air transport : Interstate - Jet Fuel > N2O (Excluded)	0.179	0.171	0.169	0.178	0.198	0.189	0.206	0.208	0.213	0.199	0.211	0.191	0.211	0.168	0.180
1A3d - Water-borne Navigation	25.062	20.579	13.787	13.269	16.341	20.133	18.304	10.332	9.246	13.848	16.940	15.543	14.633	9.953	11.242
1A3di - <i>International Water-borne Navigation (International Bunkers)</i>	25.062	20.579	13.787	13.269	16.341	20.133	18.304	10.332	9.246	13.848	16.940	15.543	14.633	9.953	11.242
Water-borne : International Marine Bunker Fuel - Distillate > CH4 (Excluded)	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.000
Water-borne : International Marine Bunker Fuel - Distillate > CO2 (Excluded)	0.352	0.532	0.000	0.000	0.109	0.000	0.000	0.475	0.014	0.114	0.385	0.203	0.086	0.000	0.000
Water-borne : International Marine Bunker Fuel - Distillate > N2O (Excluded)	0.003	0.004	0.000	0.000	0.001	0.000	0.000	0.004	0.000	0.001	0.003	0.002	0.001	0.000	0.000
Water-borne : International Marine Bunker Fuel - Residual Fuel Oil > CH4 (Excluded)	0.043	0.035	0.024	0.023	0.028	0.035	0.032	0.017	0.016	0.024	0.029	0.027	0.025	0.017	0.019
Water-borne : International Marine Bunker Fuel - Residual Fuel Oil > CO2 (Excluded)	24.487	19.863	13.665	13.151	16.087	19.954	18.141	9.765	9.150	13.610	16.404	15.201	14.417	9.864	11.142
Water-borne : International Marine Bunker Fuel - Residual Fuel Oil > N2O (Excluded)	0.177	0.144	0.099	0.095	0.116	0.144	0.131	0.071	0.066	0.098	0.119	0.110	0.104	0.071	0.081

**Summary of Categories Excluded from the Inventory.***(using IPCC Fourth Assessment Report's GWPs)*

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b>Gross California Emissions</b>	<b>59.01</b>	<b>52.99</b>	<b>45.38</b>	<b>46.21</b>	<b>52.90</b>	<b>55.12</b>	<b>56.50</b>	<b>48.60</b>	<b>48.36</b>	<b>50.46</b>	<b>55.51</b>	<b>51.07</b>	<b>53.05</b>	<b>40.79</b>	<b>44.15</b>
<b>Gross California Emissions</b>	<b>27.58</b>	<b>26.49</b>	<b>27.64</b>	<b>24.71</b>	<b>24.90</b>	<b>23.39</b>	<b>22.81</b>	<b>21.09</b>	<b>19.98</b>	<b>21.22</b>	<b>22.36</b>	<b>22.15</b>	<b>22.26</b>	<b>22.56</b>	<b>22.37</b>
<b>Net California Emissions</b>	<b>86.59</b>	<b>79.48</b>	<b>73.02</b>	<b>70.92</b>	<b>77.80</b>	<b>78.50</b>	<b>79.31</b>	<b>69.69</b>	<b>68.33</b>	<b>71.69</b>	<b>77.88</b>	<b>73.22</b>	<b>75.32</b>	<b>63.35</b>	<b>66.52</b>