

California Greenhouse Gas Inventory for 2000-2006 — Summary by IPCC Category

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

Gross emissions & sinks	2000	2001	2002	2003	2004	2005	2006
1 - Energy	406.73	418.88	414.97	413.57	424.84	416.74	419.32
1A - Fuel Combustion Activities	402.03	414.35	410.07	409.21	420.63	412.00	414.03
1A1 - Energy Industries	160.55	172.80	157.43	163.74	169.53	160.58	160.82
1A1a - Main Activity Electricity and Heat Production	113.72	125.76	110.98	114.04	120.25	111.35	110.96
1A1ai - Electricity Generation	81.523	96.471	77.796	84.435	90.454	83.168	83.995
1A1aii - Combined Heat and Power Generation (CHP)	32.193	29.293	33.184	29.604	29.801	28.179	26.961
1A1b - Petroleum Refining	28.40	28.63	29.05	30.24	29.41	30.76	31.55
1A1c - Manufacture of Solid Fuels and Other Energy Industries	18.43	18.41	17.40	19.46	19.87	18.47	18.31
1A1cii - Other Energy Industries	18.432	18.406	17.397	19.463	19.866	18.474	18.312
1A2 - Manufacturing Industries and Construction	22.84	22.26	24.42	20.69	20.39	18.25	19.03
1A2c - Chemicals	1.33	1.41	1.40	0.91	0.97	0.98	0.89
1A2d - Pulp, Paper and Print	1.07	0.94	1.02	0.91	0.94	0.62	0.64
1A2e - Food Processing, Beverages and Tobacco	3.96	3.50	3.87	3.11	3.15	3.02	3.28
1A2f - Non-Metallic Minerals	5.59	5.42	5.64	5.44	5.42	5.47	5.45
1A2g - Transport Equipment	0.46	0.48	0.53	0.31	0.27	0.27	0.26
1A2h - Machinery	1.79	1.27	1.35	0.98	1.00	1.01	1.03
1A2i - Mining (excluding fuels) and Quarrying	0.87	0.31	0.32	0.34	0.36	0.34	0.32
1A2j - Wood and Wood Products	0.40	0.31	0.20	0.16	0.11	0.11	0.10
1A2k - Construction	0.41	0.60	0.62	0.63	0.77	0.74	0.62
1A2l - Textile and Leather	0.57	0.54	0.60	0.45	0.44	0.43	0.39
1A2m - Non-specified Industry.	5.57	6.71	7.94	6.70	6.23	4.65	5.63
1A3 - Transport	170.74	173.52	180.23	177.90	182.01	184.81	184.78
1A3a - Civil Aviation	3.32	3.17	3.47	3.29	3.78	3.86	3.92
1A3aai - Domestic Aviation	3.053	2.931	3.196	3.017	3.532	3.638	3.711
1A3b - Road Transportation	159.42	161.71	168.41	166.20	169.24	170.85	170.55
1A3bi - Cars	65.476	64.949	66.726	62.794	62.024	60.676	60.501
1A3bii - Light-duty Trucks	60.591	63.350	67.697	68.809	70.920	72.254	71.711
1A3biii - Heavy-duty Trucks and Buses	32.985	32.946	33.479	33.876	35.510	36.825	37.178
1A3biv - Motorcycles	0.242	0.318	0.361	0.531	0.576	0.591	0.603
1A3c - Railways	1.86	1.87	2.48	2.41	2.89	3.32	3.49
1A3d - Water-borne Navigation	3.82	3.61	3.92	4.09	4.11	4.42	4.50
1A3dai - International Water-borne Navigation (International Bunkers)	0.962	1.008	1.056	1.106	1.159	1.214	1.273
1A3dii - Domestic Water-borne Navigation	2.856	2.601	2.865	2.987	2.953	3.203	3.229
1A4 - Other Sectors	47.89	45.76	47.99	46.89	48.70	48.36	49.41
1A4a - Commercial/Institutional	11.87	11.50	13.38	12.80	12.66	12.82	13.07
1A4b - Residential	32.20	30.45	30.22	29.88	31.54	30.94	31.12
1A4c - Agriculture/Forestry/Fishing/Fish Farms	3.82	3.81	4.39	4.20	4.50	4.60	5.22
1B - Fugitive Emissions from Fuels	4.70	4.53	4.90	4.36	4.20	4.74	5.28
1B2 - Oil and Natural Gas	2.75	2.60	2.83	2.30	2.13	2.68	3.25

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Gross emissions & sinks	2000	2001	2002	2003	2004	2005	2006
1B2a - Oil	0.05	0.03	0.03	0.02	0.01	0.02	0.02
1B2a ⁱⁱⁱ - All Other	0.053	0.025	0.029	0.018	0.012	0.020	0.020
1B2b - Natural Gas	1.76	1.48	1.70	1.32	1.35	1.74	1.90
1B3 - Other Emissions from Energy Production	1.95	1.93	2.07	2.05	2.07	2.06	2.03
2 - Industrial Processes and Product Use	25.95	25.93	26.78	27.46	28.44	29.27	30.22
2A - Mineral Industry	5.57	5.65	5.74	5.82	5.90	5.98	5.92
2A1 - Cement Production	5.43	5.52	5.60	5.68	5.77	5.85	5.80
2A2 - Lime Production	0.14	0.14	0.13	0.13	0.13	0.13	0.12
2B - Chemical Industry	0.29	0.23	0.25	0.24	0.24	0.24	0.37
2B2 - Nitric Acid Production	0.29	0.23	0.25	0.24	0.24	0.24	0.37
2D - Non-Energy Products from Fuels and Solvent Use	2.27	2.08	2.04	1.89	1.89	1.88	1.85
2D1 - Lubricant Use	2.10	1.92	1.90	1.75	1.78	1.77	1.72
2D3 - Solvent Use	0.17	0.16	0.14	0.13	0.12	0.12	0.13
2E - Electronics Industry	1.23	0.86	0.69	0.69	0.69	0.71	0.77
2F - Product Uses as Substitutes for Ozone Depleting Substances	8.58	9.44	10.33	11.20	12.08	12.79	13.38
2G - Other Product Manufacture and Use	1.78	1.68	1.67	1.60	1.65	1.63	1.67
2G1 - Electrical Equipment	1.13	1.12	1.04	1.01	1.02	1.01	0.99
2G1b - Use of Electrical Equipment	1.13	1.12	1.04	1.01	1.02	1.01	0.99
2G4 - Other (Please specify)	0.65	0.56	0.63	0.59	0.62	0.62	0.68
2H - Other	6.23	5.99	6.05	6.03	5.99	6.04	6.25
2H3 - Other (please specify)	6.23	5.99	6.05	6.03	5.99	6.04	6.25
3 - Agriculture, Forestry and Other Land Use	21.83	21.85	24.35	24.65	24.64	24.78	25.10
3A - Livestock	13.53	14.04	14.53	14.90	14.80	15.41	15.68
3A1 - Enteric Fermentation	7.07	7.21	7.42	7.54	7.50	7.78	7.88
3A1a - Cattle	6.77	6.90	7.10	7.20	7.14	7.39	7.48
3A1a ⁱ - Dairy Cows	4.484	4.655	4.868	4.972	4.997	5.183	5.344
3A1a ⁱⁱⁱ - Other Cattle	2.288	2.246	2.234	2.229	2.145	2.208	2.134
3A1c - Sheep	0.14	0.14	0.13	0.12	0.11	0.11	0.11
3A1d - Goats	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
3A1h - Swine	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3A2 - Manure Management	6.46	6.84	7.11	7.36	7.29	7.63	7.80
3A2a - Cattle	6.17	6.56	6.82	7.08	7.03	7.36	7.53
3A2a ⁱ - Dairy Cows	5.877	6.248	6.501	6.750	6.697	7.009	7.179
3A2a ⁱⁱ - Other Cattle	0.291	0.311	0.321	0.328	0.330	0.347	0.354

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3A2c - Sheep	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3A2d - Goats	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3A2f - Horses	0.03	0.03	0.03	0.04	0.05	0.05	0.05
3A2h - Swine	0.06	0.04	0.06	0.05	0.06	0.05	0.05
3A2i - Poultry	0.19	0.19	0.18	0.17	0.15	0.15	0.15
3B - Land	0.19	0.19	0.19	0.19	0.19	0.19	0.19
3B1 - Forest Land	0.19	0.19	0.19	0.19	0.19	0.19	0.19
3C - Aggregate Sources and Non-CO2 Emissions Sources on Land	8.12	7.62	9.63	9.57	9.65	9.19	9.24
3C1 - Emissions from Biomass Burning	0.09	0.07	0.07	0.08	0.07	0.07	0.07
3C1b - Biomass Burning in Croplands	0.09	0.07	0.07	0.08	0.07	0.07	0.07
3C2 - Liming	0.27	0.16	0.23	0.24	0.24	0.30	0.48
3C4 - Direct N2O Emissions from Managed Soils	5.49	5.27	6.69	6.65	6.65	6.31	6.21
3C5 - Indirect N2O Emissions from Managed Soils	1.70	1.62	2.08	2.07	2.07	1.96	1.93
3C7 - Rice Cultivations	0.57	0.49	0.55	0.53	0.62	0.55	0.55
4 - Waste	8.69	8.77	8.73	8.81	8.80	9.10	9.23
4A - Solid Waste Disposal	5.86	5.94	5.89	5.97	5.91	6.21	6.31
4A1 - Managed Waste Disposal Sites	5.86	5.94	5.89	5.97	5.91	6.21	6.31
4D - Wastewater Treatment and Discharge	2.83	2.83	2.84	2.85	2.89	2.89	2.92
4D1 - Domestic Wastewater Treatment and Discharge	2.14	2.18	2.17	2.19	2.21	2.22	2.24
4D2 - Industrial Wastewater Treatment and Discharge	0.69	0.65	0.67	0.66	0.68	0.66	0.68
Summary for Gross emissions & sinks	2000	2001	2002	2003	2004	2005	2006
Gross California Emissions	463.19	475.43	474.82	474.50	486.71	479.89	483.87
Sinks from Forests and Rangelands	-4.74	-4.54	-4.40	-4.38	-4.36	-4.19	-4.07
Net California Emissions	458.45	470.89	470.42	470.12	482.35	475.70	479.80

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Excluded Emissions	2000	2001	2002	2003	2004	2005	2006
1 - Energy	47.60	43.59	47.64	40.47	44.12	47.64	48.77
1A - Fuel Combustion Activities	47.60	43.59	47.64	40.47	44.12	47.64	48.77
1A3 - Transport	44.61	40.11	44.25	37.21	40.67	45.14	46.54
1A3a - Civil Aviation	29.38	28.71	30.58	28.01	29.47	31.14	30.80
1A3ai - International Aviation (International Bunkers)	14.479	14.303	14.654	12.820	13.332	14.353	14.113
1A3aia - International Aviation (Domestic Bunkers)	14.901	14.407	15.921	15.185	16.135	16.783	16.686
1A3aia - Domestic Aviation	14.901	14.407	15.921	15.185	16.135	16.783	16.686
1A3d - Water-borne Navigation	15.23	11.40	13.67	9.21	11.21	14.00	15.74
1A3di - International Water-borne Navigation (International Bunkers)	15.235	11.397	13.674	9.206	11.207	14.000	15.744
1A5 - Non-Specified	2.99	3.49	3.39	3.26	3.44	2.50	2.22
1A5b - Mobile	2.91	3.20	2.90	2.79	2.90	2.41	2.11
1A5bi - Mobile (Aviation Component)	2.914	3.198	2.904	2.786	2.903	2.406	2.115
Summary for Excluded Emissions	2000	2001	2002	2003	2004	2005	2006
International and Interstate Emissions	47.60	43.59	47.64	40.47	44.12	47.64	48.77

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CO2 from biogenic materials	2000	2001	2002	2003	2004	2005	2006
1 - Energy	17.59	18.41	17.12	15.04	15.02	15.73	15.82
1A - Fuel Combustion Activities	17.59	18.41	17.12	15.04	15.02	15.73	15.82
1A1 - Energy Industries	9.54	9.40	11.33	9.36	9.30	9.75	10.04
1A1a - Main Activity Electricity and Heat Production	9.54	9.40	11.33	9.36	9.30	9.75	10.04
1A1ai - Electricity Generation	6.190	5.866	8.841	6.840	6.641	6.746	7.037
1A1aii - Combined Heat and Power Generation (CHP)	3.347	3.535	2.484	2.518	2.658	3.004	3.000
1A2 - Manufacturing Industries and Construction	3.75	4.23	2.62	2.55	2.58	2.71	2.61
1A2f - Non-Metallic Minerals	0.04	0.04	0.04	0.05	0.05	0.06	0.04
1A2m - Non-specified Industry.	3.72	4.19	2.57	2.50	2.53	2.66	2.56
1A4 - Other Sectors	4.30	4.78	3.17	3.13	3.14	3.27	3.18
1A4a - Commercial/Institutional	0.58	0.59	0.60	0.63	0.61	0.61	0.62
1A4b - Residential	3.72	4.19	2.57	2.50	2.53	2.66	2.56
3 - Agriculture, Forestry and Other Land Use	1.61	1.35	1.36	1.42	1.39	1.35	1.24
3C - Aggregate Sources and Non-CO2 Emissions Sources on Land	1.61	1.35	1.36	1.42	1.39	1.35	1.24
3C1 - Emissions from Biomass Burning	1.61	1.35	1.36	1.42	1.39	1.35	1.24
3C1b - Biomass Burning in Croplands	1.61	1.35	1.36	1.42	1.39	1.35	1.24
4 - Waste	5.26	5.57	5.80	5.79	5.84	6.13	6.33
4A - Solid Waste Disposal	5.26	5.57	5.80	5.79	5.84	6.13	6.33
4A1 - Managed Waste Disposal Sites	5.26	5.57	5.80	5.79	5.84	6.13	6.33
Summary for CO2 from biogenic materials	2000	2001	2002	2003	2004	2005	2006
Carbon dioxide from Biogenic sources	24.46	25.33	24.28	22.24	22.25	23.21	23.39