

California Greenhouse Gas Inventory for 1990 (millions of tonnes of CO2 equivalent)

(CO2 equivalence based upon IPCC Second Assessment Report's Global Warming Potentials)

Categories Included in the Inventory.

1 - Energy	386.41
1A - Fuel Combustion Activities	381.16
1A1 - Energy Industries	157.33
1A1a - Main Activity Electricity and Heat Production	115.84
1A1ai - Electricity Generation	90.502
1A1aia - Combined Heat and Power Generation (CHP)	25.341
1A1b - Petroleum Refining	27.63
1A1c - Manufacture of Solid Fuels and Other Energy Industries	13.86
1A1cii - Other Energy Industries	13.858
1A2 - Manufacturing Industries and Construction	24.24
1A2c - Chemicals	0.96
1A2d - Pulp, Paper and Print	1.91
1A2e - Food Processing, Beverages and Tobacco	3.07
1A2f - Non-Metallic Minerals	5.12
1A2g - Transport Equipment	0.53
1A2h - Machinery	1.33
1A2i - Mining (excluding fuels) and Quarrying	0.03
1A2j - Wood and Wood Products	0.24
1A2k - Construction	0.67
1A2l - Textile and Leather	0.38
1A2m - Non-specified Industry.	9.04
1A3 - Transport	150.02
1A3a - Civil Aviation	5.13
1A3aia - Domestic Aviation	5.113
1A3b - Road Transportation	137.99
1A3bia - Cars	63.746
1A3biib - Light-duty Trucks	44.754
1A3biic - Heavy-duty Trucks and Buses	29.031
1A3biid - Motorcycles	0.426
1A3c - Railways	2.33
1A3d - Water-borne Navigation	2.21
1A3dia - International Water-borne Navigation (International Bunkers)	0.548
1A3diib - Domestic Water-borne Navigation	1.662
1A4 - Other Sectors	48.19
1A4a - Commercial/Institutional	14.03
1A4b - Residential	29.66
1A4c - Agriculture/Forestry/Fishing/Fish Farms	4.50
1A5 - Non-Specified	1.38
1B - Fugitive Emissions from Fuels	5.25
1B2 - Oil and Natural Gas	2.94
1B2a - Oil	0.14
1B2aii - All Other	0.139
1B2b - Natural Gas	1.50
1B3 - Other Emissions from Energy Production	2.31

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2 - Industrial Processes and Product Use	18.34
2A - Mineral Industry	4.85
2A1 - Cement Production	4.62
2A2 - Lime Production	0.23
2B - Chemical Industry	2.34
2B2 - Nitric Acid Production	0.53
2D - Non-Energy Products from Fuels and Solvent Use	2.29
2D1 - Lubricant Use	1.13
2D2 - Paraffin Wax Use	0.00
2D4 - Other (please specify)	1.16
2E - Electronics Industry	0.59
2F - Product Uses as Substitutes for Ozone Depleting Substances	0.04
2G - Other Product Manufacture and Use	3.18
2G1 - Electrical Equipment	2.58
2G1b - Use of Electrical Equipment	2.58
2G4 - Other (Please specify)	0.61
2H - Other	5.05
2H3 - Other (please specify)	5.05
3 - Agriculture, Forestry and Other Land Use	19.11
3A - Livestock	11.67
3A1 - Enteric Fermentation	6.67
3A1a - Cattle	6.25
3A1ai - Dairy Cows	3.632
3A1aia - Other Cattle	2.618
3A1c - Sheep	0.17
3A1d - Goats	0.00
3A1f - Horses	0.24
3A1h - Swine	0.01
3A2 - Manure Management	5.00
3A2a - Cattle	4.68
3A2ai - Dairy Cows	4.359
3A2aia - Other Cattle	0.324
3A2c - Sheep	0.02
3A2d - Goats	0.00
3A2f - Horses	0.03
3A2h - Swine	0.07
3A2i - Poultry	0.20
3B - Land	0.19
3B1 - Forest Land	0.19

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3C - Aggregate Sources and Non-CO2 Emissions Sources on Land	7.26
3C1 - Emissions from Biomass Burning	0.12
3C1b - Biomass Burning in Croplands	0.12
3C2 - Liming	0.07
3C4 - Direct N2O Emissions from Managed Soils	5.20
3C5 - Indirect N2O Emissions from Managed Soils	1.44
3C7 - Rice Cultivations	0.41
4 - Waste	9.42
4A - Solid Waste Disposal	6.26
4A1 - Managed Waste Disposal Sites	6.26
4D - Wastewater Treatment and Discharge	3.17
4D1 - Domestic Wastewater Treatment and Discharge	2.83
4D2 - Industrial Wastewater Treatment and Discharge	0.34

Summary of Categories Included in the Inventory.

Gross California Emissions	433.29
Sinks and Sequestrations from Rangelands and Forestry	-6.69
Net California Emissions	426.60

Categories Excluded from the Inventory.

1 - Energy	59.02
1A - Fuel Combustion Activities	59.02
1A3 - Transport	59.02
1A3a - Civil Aviation	33.95
1A3ai - International Aviation (International Bunkers)	14.597
1A3aia - Domestic Aviation	19.357
1A3d - Water-borne Navigation	25.06
1A3di - International Water-borne Navigation (International Bunkers)	25.062

Summary of Categories Excluded from the Inventory.

Gross California Emissions	59.02
Net California Emissions	59.02