

California Greenhouse Gas Inventory for 2000-2013 — by IPCC Category

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

Included Emissions	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
1 - Energy	409.2	424.4	421.5	422.5	431.9	423.1	419.1	424.1	420.6	394.0	386.6	379.5	383.8	382.4
1A - Fuel Combustion Activities	401.42	416.40	412.96	414.60	424.39	415.50	410.77	415.87	412.16	385.33	378.27	371.00	375.89	374.18
1A1 - Energy Industries	159.12	175.95	161.55	167.81	172.76	163.90	157.63	165.74	171.51	154.26	144.72	137.03	144.87	140.80
1A1a - Main Activity Electricity and Heat Production	116.37	132.29	119.12	122.23	127.49	119.41	115.87	124.33	129.70	113.35	102.64	98.66	105.80	100.03
1A1ai - Electricity Generation	84.804	103.488	86.517	92.858	98.058	91.186	88.839	98.216	104.626	84.154	75.812	72.112	81.075	74.604
1A1aii - Combined Heat and Power Generation (CHP)	31.565	28.804	32.600	29.375	29.427	28.227	27.034	26.115	25.072	29.199	26.825	26.548	24.730	25.426
1A1b - Petroleum Refining	24.66	25.23	25.33	26.03	25.31	25.93	25.57	25.05	24.27	24.55	26.47	22.85	22.80	23.13
1A1c - Manufacture of Solid Fuels and Other Energy Industries	18.09	18.43	17.11	19.55	19.96	18.56	16.19	16.35	17.54	16.35	15.61	15.52	16.27	17.63
1A1cii - Other Energy Industries	18.085	18.429	17.109	19.547	19.964	18.563	16.192	16.353	17.537	16.351	15.611	15.524	16.271	17.635
1A2 - Manufacturing Industries and Construction	22.71	21.54	22.86	19.24	19.53	18.64	18.72	17.01	18.12	16.61	18.77	19.91	19.88	19.93
1A2c - Chemicals	4.55	4.08	3.97	2.60	3.22	3.81	3.79	3.13	3.91	3.82	5.36	6.32	5.71	5.67
1A2d - Pulp, Paper and Print	1.05	0.94	1.01	0.92	0.94	0.62	0.64	0.55	0.46	0.40	0.40	0.44	0.44	0.43
1A2e - Food Processing, Beverages and Tobacco	3.89	3.51	3.80	3.12	3.16	3.02	3.31	3.32	3.18	3.12	3.08	3.16	3.26	3.27
1A2f - Non-Metallic Minerals	5.42	5.28	5.47	5.29	5.27	5.32	5.32	4.78	4.34	2.93	2.89	2.85	3.07	3.05
1A2g - Transport Equipment	0.46	0.48	0.52	0.31	0.27	0.27	0.26	0.28	0.29	0.25	0.25	0.24	0.24	0.28
1A2h - Machinery	1.75	1.27	1.33	0.98	1.01	1.02	1.04	0.99	0.93	0.82	0.80	0.82	0.81	0.79
1A2i - Mining (excluding fuels) and Quarrying	0.86	0.31	0.31	0.34	0.36	0.34	0.11	0.16	0.19	0.14	0.15	0.15	0.16	0.16
1A2j - Wood and Wood Products	0.40	0.31	0.19	0.16	0.11	0.11	0.11	0.08	0.07	0.05	0.05	0.04	0.03	0.03
1A2k - Construction	0.41	0.61	0.62	0.64	0.78	0.74	0.62	0.50	0.44	0.43	0.50	0.59	0.59	0.61
1A2l - Textile and Leather	0.56	0.54	0.59	0.45	0.44	0.43	0.39	0.35	0.31	0.23	0.24	0.23	0.22	0.22
1A2m - Non-specified Industry.	2.55	3.42	4.13	3.69	3.25	2.35	2.68	2.35	3.48	4.06	4.57	4.57	4.84	4.90
1A3 - Transport	174.92	175.33	182.43	182.29	185.71	187.80	187.90	187.99	176.87	170.39	169.37	167.15	166.59	168.20
1A3a - Civil Aviation	4.15	4.07	4.12	4.25	4.50	4.50	4.57	4.98	4.51	4.04	3.85	3.75	3.73	3.88
1A3aii - Domestic Aviation	3.885	3.829	3.848	3.983	4.254	4.281	4.360	4.755	4.318	3.883	3.717	3.613	3.601	3.744
1A3b - Road Transportation	162.64	163.12	169.25	168.52	171.30	172.42	172.12	172.15	162.77	158.20	157.22	154.80	153.96	155.24
1A3bi - Cars	66.218	64.702	65.897	62.722	61.820	60.365	59.516	58.984	55.974	55.888	55.755	54.781	55.297	56.028
1A3bii - Light-duty Trucks	59.493	61.539	65.189	67.500	69.320	70.601	70.607	70.378	67.189	65.808	65.266	64.013	63.344	62.831
1A3biii - Heavy-duty Trucks and Buses	36.578	36.428	37.669	37.743	39.571	40.527	40.996	41.698	38.454	35.306	34.968	34.699	34.042	35.015
1A3biv - Motorcycles	0.231	0.300	0.342	0.365	0.381	0.416	0.461	0.490	0.512	0.506	0.491	0.480	0.479	0.477
1A3c - Railways	1.88	1.89	2.50	2.70	2.91	3.34	3.53	3.17	2.38	1.94	2.33	2.49	2.48	2.48
1A3d - Water-borne Navigation	3.50	3.32	3.63	3.80	3.81	4.06	4.11	4.27	4.02	3.66	3.68	3.70	3.88	3.96
1A3di - International Water-borne Navigation (International Bunkers)	1.125	1.181	1.239	1.300	1.364	1.431	1.481	1.565	1.449	1.212	1.245	1.244	1.334	1.394
1A3dii - Domestic Water-borne Navigation	2.375	2.137	2.390	2.502	2.447	2.633	2.625	2.703	2.569	2.444	2.440	2.453	2.541	2.561
1A3e - Other Transportation	2.63	2.79	2.77	2.84	3.03	3.22	3.32	3.18	2.82	2.25	2.03	2.13	2.23	2.33
1A3eii - Off-road	2.631	2.790	2.768	2.843	3.029	3.217	3.315	3.176	2.819	2.246	2.033	2.133	2.234	2.334
1A4 - Other Sectors	44.67	43.60	46.11	45.25	46.39	45.16	46.52	45.12	45.67	44.08	45.41	46.90	44.54	45.25
1A4a - Commercial/Institutional	11.47	11.31	13.11	12.74	12.70	12.56	12.84	12.83	12.94	12.99	13.42	13.61	13.41	13.31

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Included Emissions	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
1A4b - Residential	29.38	28.47	28.62	28.14	29.17	27.98	28.36	28.50	28.82	28.45	29.18	29.64	27.34	28.11
1A4c - Agriculture/Forestry/Fishing/Fish Farms	3.81	3.82	4.38	4.37	4.52	4.62	5.32	3.79	3.91	2.65	2.81	3.66	3.80	3.83
1B - Fugitive Emissions from Fuels	7.82	7.96	8.52	7.93	7.55	7.56	8.34	8.22	8.39	8.68	8.34	8.53	7.94	8.21
1B1 - Solid Fuels	0.08	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02
1B2 - Oil and Natural Gas	6.50	6.70	7.27	6.68	6.28	6.29	7.09	6.96	7.17	7.25	7.15	7.23	7.07	7.23
1B2a - Oil	0.48	0.46	0.47	0.46	0.44	0.46	0.48	0.47	0.46	0.45	0.49	0.52	0.47	0.56
1B2ai - Venting	0.067	0.069	0.069	0.071	0.069	0.071	0.073	0.072	0.071	0.066	0.053	0.072	0.061	0.178
1B2aii - Flaring	0.057	0.058	0.058	0.059	0.058	0.060	0.061	0.061	0.060	0.055	0.055	0.128	0.106	0.078
1B2aiii - All Other	0.358	0.331	0.338	0.330	0.315	0.334	0.341	0.338	0.330	0.324	0.377	0.322	0.305	0.307
1B2b - Natural Gas	3.60	3.68	4.30	3.76	3.85	3.88	4.11	4.00	4.13	4.20	4.04	4.03	3.84	3.82
1B3 - Geothermal Energy Production	1.13	1.11	1.11	1.10	1.12	1.12	1.10	1.11	1.09	1.31	1.10	1.22	0.83	0.95
1B4 - Pollution control devices	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.06	0.05	0.02	0.01
2 - Industrial Processes and Product Use	20.1	20.1	20.7	21.3	22.1	23.0	23.8	24.4	24.9	23.7	25.5	30.6	31.8	31.8
2A - Mineral Industry	5.51	5.58	5.66	5.74	5.84	5.92	5.86	5.61	5.33	3.63	3.49	4.11	4.69	4.97
2A1 - Cement Production	5.43	5.52	5.60	5.68	5.77	5.85	5.80	5.55	5.28	3.60	3.46	4.08	4.65	4.93
2A2 - Lime Production	0.07	0.07	0.06	0.06	0.08	0.07	0.07	0.05	0.04	0.03	0.03	0.04	0.04	0.04
2B - Chemical Industry	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
2B2 - Nitric Acid Production	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
2C - Metal Industry	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.06	0.07
2C5 - Lead Production	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.06	0.07
2D - Non-Energy Products from Fuels and Solvent Use	3.30	2.99	2.83	2.73	2.65	2.66	2.61	2.65	2.50	2.27	2.47	2.35	2.22	2.31
2D1 - Lubricant Use	2.09	1.92	1.89	1.75	1.77	1.77	1.72	1.78	1.65	1.48	1.65	1.56	1.44	1.52
2D3 - Solvent Use	1.20	1.07	0.94	0.98	0.87	0.89	0.89	0.87	0.85	0.79	0.82	0.79	0.78	0.79
2E - Electronics Industry	0.57	0.41	0.38	0.39	0.32	0.30	0.32	0.30	0.30	0.19	0.24	0.43	0.37	0.30
2F - Product Uses as Substitutes for Ozone Depleting Substances	6.35	6.82	7.37	8.10	8.95	9.75	10.33	11.04	12.05	13.38	15.01	16.11	17.16	18.02
2G - Other Product Manufacture and Use	0.95	0.86	0.92	0.87	0.90	0.90	0.96	0.97	0.95	0.88	0.81	0.76	0.73	0.63
2G1 - Electrical Equipment	0.33	0.32	0.30	0.29	0.30	0.29	0.28	0.26	0.27	0.26	0.24	0.24	0.23	0.19
2G1b - Use of Electrical Equipment	0.33	0.32	0.30	0.29	0.30	0.29	0.28	0.26	0.27	0.26	0.24	0.24	0.23	0.19
2G4 - CO2, Limestone or Soda Ash consumption	0.62	0.53	0.62	0.57	0.61	0.61	0.68	0.71	0.68	0.63	0.57	0.52	0.49	0.44
2H - Other	3.31	3.35	3.39	3.33	3.31	3.34	3.58	3.67	3.67	3.27	3.36	6.68	6.54	5.50
2H3 - Hydrogen Production	3.31	3.35	3.39	3.33	3.31	3.34	3.58	3.67	3.67	3.27	3.36	6.68	6.54	5.50

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3 - Agriculture, Forestry and Other Land Use	29.5	30.0	31.0	31.6	31.1	31.8	32.3	33.6	33.9	33.6	33.1	33.4	34.0	33.8
3A - Livestock	19.66	20.44	21.06	21.63	21.06	21.81	22.22	23.73	24.09	23.88	23.35	23.38	23.92	23.92
3A1 - Enteric Fermentation	10.26	10.45	10.74	10.89	10.78	11.14	11.24	11.93	11.89	11.71	11.51	11.49	11.78	11.78
3A1a - Cattle	9.90	10.08	10.36	10.48	10.35	10.66	10.76	11.46	11.43	11.22	11.02	11.00	11.30	11.30
3A1ai - Dairy Cows	6.634	6.860	7.155	7.298	7.226	7.452	7.652	8.084	8.216	8.135	7.951	7.991	8.220	8.220
3A1aii - Other Cattle	3.264	3.221	3.210	3.185	3.125	3.212	3.110	3.376	3.210	3.086	3.073	3.007	3.080	3.080
3A1c - Sheep	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.12	0.12	0.13	0.12	0.12	0.11	0.11
3A1d - Goats	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
3A1f - Horses	0.18	0.19	0.20	0.24	0.27	0.31	0.32	0.32	0.32	0.33	0.34	0.35	0.35	0.35
3A1h - Swine	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
3A2 - Manure Management	9.40	10.00	10.32	10.75	10.28	10.67	10.98	11.80	12.20	12.17	11.84	11.89	12.14	12.14
3A2a - Cattle	9.02	9.63	9.94	10.38	9.92	10.31	10.63	11.43	11.87	11.83	11.50	11.55	11.80	11.80
3A2ai - Dairy Cows	8.678	9.282	9.562	9.972	9.536	9.906	10.202	11.001	11.451	11.436	11.113	11.164	11.403	11.403
3A2aii - Other Cattle	0.344	0.348	0.375	0.403	0.385	0.403	0.424	0.429	0.419	0.398	0.387	0.387	0.401	0.401
3A2c - Sheep	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.03	0.03
3A2d - Goats	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3A2f - Horses	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.08	0.08	0.09	0.09	0.09	0.09
3A2h - Swine	0.06	0.05	0.07	0.06	0.06	0.06	0.06	0.07	0.04	0.05	0.05	0.05	0.05	0.05
3A2i - Poultry	0.21	0.21	0.20	0.19	0.17	0.17	0.17	0.18	0.17	0.17	0.17	0.17	0.17	0.17
3C - Aggregate Sources and Non-CO₂ Emissions Sources on Land	9.87	9.56	9.90	9.92	10.06	9.96	10.08	9.85	9.82	9.68	9.71	10.01	10.09	9.85
3C1 - Emissions from Biomass Burning	0.08	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08
3C1b - Biomass Burning in Croplands	0.08	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08
3C2 - Liming	0.27	0.16	0.23	0.24	0.24	0.30	0.48	0.26	0.17	0.17	0.18	0.17	0.23	0.19
3C4 - Direct N₂O Emissions from Managed Soils	6.44	6.43	6.54	6.58	6.57	6.53	6.48	6.45	6.53	6.35	6.37	6.56	6.60	6.45
3C5 - Indirect N₂O Emissions from Managed Soils	1.89	1.89	1.92	1.94	1.91	1.93	1.92	1.91	1.93	1.88	1.89	1.95	1.96	1.92
3C7 - Rice Cultivations	1.19	1.02	1.14	1.10	1.28	1.14	1.13	1.15	1.12	1.20	1.20	1.26	1.22	1.21
4 - Waste	9.9	10.1	10.0	10.2	10.2	10.4	10.5	10.6	10.7	10.7	10.9	11.1	11.2	11.3
4A - Solid Waste Disposal	7.21	7.36	7.30	7.42	7.40	7.58	7.65	7.70	7.84	7.94	7.99	8.25	8.25	8.32
4A1 - Managed Waste Disposal Sites	7.21	7.36	7.30	7.42	7.40	7.58	7.65	7.70	7.84	7.94	7.99	8.25	8.25	8.32
4B - Biological Treatment of Solid Waste	0.24	0.26	0.29	0.31	0.33	0.36	0.38	0.40	0.43	0.45	0.47	0.50	0.52	0.54
4D - Wastewater Treatment and Discharge	2.47	2.44	2.45	2.43	2.45	2.48	2.46	2.48	2.46	2.36	2.40	2.39	2.38	2.41
4D1 - Domestic Wastewater Treatment and Discharge	1.60	1.61	1.59	1.59	1.59	1.60	1.59	1.60	1.59	1.56	1.56	1.55	1.55	1.55

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4D2 - Industrial Wastewater Treatment and Discharge	0.88	0.83	0.87	0.85	0.87	0.88	0.87	0.89	0.86	0.80	0.84	0.83	0.83	0.85
Summary for Included Emissions														
California Emissions	468.8	484.6	483.2	485.5	495.3	488.2	485.7	492.6	490.1	462.1	456.0	454.6	460.8	459.3

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1 - Energy	54.7	48.4	53.1	47.4	51.2	54.1	56.3	59.0	55.3	54.7	54.6	49.9	47.7	49.6
1A - Fuel Combustion Activities	54.74	48.38	53.09	47.44	51.24	54.09	56.30	58.95	55.31	54.75	54.55	49.91	47.69	49.63
1A3 - Transport	50.94	44.02	48.97	43.26	47.36	50.68	53.19	56.03	52.54	52.04	51.39	47.20	44.40	46.25
1A3a - Civil Aviation	35.18	32.51	35.19	33.80	36.18	35.84	36.79	38.44	34.87	34.20	33.50	34.00	32.70	34.55
1A3ai - International Aviation (International Bunkers)	16.794	15.171	15.722	14.555	15.779	16.187	16.830	17.546	16.619	16.468	16.203	17.049	16.445	17.757
1A3a _{ii} - Domestic Aviation	18.389	17.334	19.467	19.245	20.396	19.650	19.958	20.899	18.250	17.733	17.297	16.948	16.253	16.790
1A3d - Water-borne Navigation	15.75	11.51	13.78	9.46	11.18	14.84	16.40	17.58	17.67	17.84	17.89	13.20	11.70	11.70
1A3di - International Water-borne Navigation (International Bunkers)	15.753	11.512	13.779	9.462	11.184	14.844	16.399	17.582	17.675	17.844	17.893	13.199	11.698	11.698
1A5 - Non-Specified	3.81	4.36	4.13	4.18	3.88	3.41	3.11	2.93	2.77	2.70	3.16	2.71	3.30	3.38
1A5b - Mobile	3.74	4.07	3.64	3.66	3.34	3.31	3.00	2.81	2.68	2.56	2.58	2.31	2.87	2.87
1A5bi - Mobile (Aviation Component)	3.736	4.069	3.640	3.661	3.338	3.313	3.004	2.807	2.682	2.562	2.584	2.308	2.874	2.874
Summary for Excluded Emissions	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
International and Interstate Emissions	54.7	48.4	53.1	47.4	51.2	54.1	56.3	59.0	55.3	54.7	54.6	49.9	47.7	49.6

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<i>CO₂ from biogenic materials</i>	<i>2000</i>	<i>2001</i>	<i>2002</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>	<i>2010</i>	<i>2011</i>	<i>2012</i>	<i>2013</i>
1 - Energy	17.4	17.6	15.7	16.1	16.2	15.4	15.2	15.0	15.0	15.7	15.1	17.3	16.8	17.0
1A - Fuel Combustion Activities	17.37	17.58	15.73	16.12	16.16	15.43	15.16	14.98	14.96	15.70	15.14	17.26	16.79	16.98
1A1 - Energy Industries	9.54	9.40	9.11	9.36	9.30	9.75	10.04	9.62	9.63	10.62	10.05	11.31	11.09	11.24
1A1a - Main Activity Electricity and Heat Production	9.54	9.40	9.11	9.36	9.30	9.75	10.04	9.62	9.63	10.62	10.05	11.30	11.09	11.24
1A1ai - Electricity Generation	6.192	5.868	6.623	6.592	6.415	6.518	6.784	6.404	6.606	8.163	7.756	8.447	8.234	7.998
1A1aii - Combined Heat and Power Generation (CHP)	3.347	3.535	2.485	2.769	2.887	3.234	3.256	3.219	3.026	2.452	2.293	2.854	2.855	3.237
1A1b - Petroleum Refining	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
1A2 - Manufacturing Industries and Construction	3.78	4.25	2.64	2.57	2.60	2.86	2.61	2.65	2.37	2.25	2.31	2.36	2.37	2.42
1A2f - Non-Metallic Minerals	0.06	0.06	0.07	0.07	0.07	0.07	0.05	0.05	0.06	0.07	0.10	0.09	0.14	0.19
1A2m - Non-specified Industry.	3.72	4.19	2.57	2.50	2.53	2.78	2.56	2.59	2.32	2.18	2.21	2.28	2.23	2.23
1A4 - Other Sectors	4.05	3.92	3.99	4.19	4.26	2.82	2.51	2.71	2.95	2.84	2.78	3.59	3.33	3.33
1A4a - Commercial/Institutional	0.58	0.59	0.60	0.63	0.61	0.39	0.36	0.38	0.41	0.40	0.40	0.47	0.41	0.41
1A4b - Residential	3.47	3.33	3.38	3.56	3.65	2.43	2.15	2.32	2.55	2.44	2.38	3.12	2.91	2.91
3 - Agriculture, Forestry and Other Land Use	1.4	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5
3C - Aggregate Sources and Non-CO₂ Emissions Sources on Land	1.39	1.16	1.16	1.20	1.21	1.20	1.22	1.26	1.34	1.36	1.39	1.47	1.49	1.51
3C1 - Emissions from Biomass Burning	1.39	1.16	1.16	1.20	1.21	1.20	1.22	1.26	1.34	1.36	1.39	1.47	1.49	1.51
3C1b - Biomass Burning in Croplands	1.39	1.16	1.16	1.20	1.21	1.20	1.22	1.26	1.34	1.36	1.39	1.47	1.49	1.51
4 - Waste	7.1	7.5	7.8	7.9	8.0	8.3	8.6	8.7	8.9	9.1	9.2	9.3	9.6	9.7
4A - Solid Waste Disposal	6.28	6.62	6.88	6.86	6.90	7.09	7.31	7.40	7.47	7.56	7.65	7.66	7.82	7.90
4A1 - Managed Waste Disposal Sites	6.28	6.62	6.88	6.86	6.90	7.09	7.31	7.40	7.47	7.56	7.65	7.66	7.82	7.90
4B - Biological Treatment of Solid Waste	0.80	0.87	0.95	1.03	1.11	1.19	1.26	1.34	1.42	1.50	1.57	1.65	1.73	1.81
Summary for CO₂ from biogenic materials	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Carbon dioxide from Biogenic sources	25.8	26.2	24.7	25.2	25.4	24.9	25.0	25.0	25.2	26.1	25.8	28.0	27.8	28.2

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2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

This section of the inventory is currently under development

Archive