

## California Nitrous Oxide Inventory for 2000-2014 — by Sector and Activity

million tonnes of CO2 equivalent - (based upon IPCC Fourth Assessment Report's 100-yr Global Warming Potentials)

Included Emissions	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Electricity Generation (In State)</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>	<b>0.13</b>	<b>0.13</b>	<b>0.14</b>	<b>0.13</b>	<b>0.12</b>	<b>0.12</b>	<b>0.13</b>	<b>0.13</b>
<i>CHP: Commercial</i>	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	0.00
<i>CHP: Industrial</i>	0.05	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.03
<i>Merchant Owned</i>	0.09	0.08	0.09	0.08	0.08	0.08	0.09	0.08	0.08	0.10	0.09	0.08	0.08	0.09	0.09
<i>Utility Owned</i>	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>Electricity Generation (Imports)</b>	<b>0.22</b>	<b>0.28</b>	<b>0.27</b>	<b>0.29</b>	<b>0.29</b>	<b>0.28</b>	<b>0.24</b>	<b>0.26</b>	<b>0.29</b>	<b>0.13</b>	<b>0.14</b>	<b>0.14</b>	<b>0.14</b>	<b>0.25</b>	<b>0.11</b>
<i>Specified Imports</i>	0.16	0.17	0.16	0.16	0.17	0.16	0.13	0.13	0.13	0.12	0.13	0.13	0.12	0.25	0.10
<i>Unspecified Imports</i>	0.06	0.11	0.11	0.13	0.13	0.12	0.10	0.13	0.16	0.01	0.01	0.01	0.01	0.01	0.01
<b>Transportation</b>	<b>4.58</b>	<b>4.12</b>	<b>3.81</b>	<b>3.52</b>	<b>3.15</b>	<b>2.82</b>	<b>2.57</b>	<b>2.35</b>	<b>2.10</b>	<b>1.94</b>	<b>1.85</b>	<b>1.73</b>	<b>1.62</b>	<b>1.53</b>	<b>1.44</b>
<i>Aviation</i>	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03
<i>Not Specified Transportation</i>	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	0.00
<i>Off Road</i>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01
<i>On Road</i>	4.53	4.07	3.75	3.46	3.09	2.76	2.50	2.28	2.04	1.89	1.80	1.67	1.56	1.47	1.38
<i>Rail</i>	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01
<i>Water-borne</i>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>Industrial</b>	<b>1.00</b>	<b>0.99</b>	<b>0.99</b>	<b>1.00</b>	<b>1.03</b>	<b>1.03</b>	<b>1.05</b>	<b>1.07</b>	<b>1.06</b>	<b>1.05</b>	<b>1.08</b>	<b>1.07</b>	<b>1.09</b>	<b>1.11</b>	<b>1.08</b>
<i>CHP: Industrial</i>	0.04	0.03	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03
<i>Landfills</i>	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	0.00
<i>Manufacturing</i>	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.07	0.08	0.06	0.08	0.08	0.05
<i>Mining</i>	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	0.00
<i>Not Specified Industrial</i>	0.05	0.06	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<i>Oil &amp; Gas Extraction</i>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<i>Petroleum Refining and Hydrogen Production</i>	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.07	0.08	0.08
<i>Pipelines</i>	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	0.00
<i>Solid Waste Treatment</i>	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.12
<i>Wastewater Treatment</i>	0.67	0.66	0.68	0.69	0.70	0.69	0.71	0.72	0.73	0.73	0.74	0.75	0.76	0.77	0.78
<b>Commercial</b>	<b>0.52</b>	<b>0.53</b>	<b>0.53</b>	<b>0.54</b>	<b>0.55</b>	<b>0.55</b>	<b>0.55</b>	<b>0.55</b>	<b>0.56</b>	<b>0.56</b>	<b>0.57</b>	<b>0.57</b>	<b>0.58</b>	<b>0.58</b>	<b>0.59</b>
<i>CHP: Commercial</i>	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	0.00
<i>Communication</i>	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	0.00
<i>Domestic Utilities</i>	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	0.00
<i>Education</i>	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	0.00
<i>Food Services</i>	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	0.00
<i>Health Care</i>	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	0.00
<i>Hotels</i>	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	0.00
<i>Landscape</i>	0.50	0.51	0.51	0.52	0.53	0.53	0.53	0.54	0.54	0.55	0.55	0.55	0.56	0.57	0.57
<i>National Security</i>	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	0.00
<i>Not Specified Commercial</i>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<i>Offices</i>	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	0.00

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<b>Included Emissions</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<i>Retail &amp; Wholesale</i>	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	0.00
<i>Transportation Services</i>	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	0.00
<b>Residential</b>	<b>0.80</b>	<b>0.81</b>	<b>0.82</b>	<b>0.83</b>	<b>0.84</b>	<b>0.83</b>	<b>0.83</b>	<b>0.84</b>	<b>0.86</b>	<b>0.87</b>	<b>0.87</b>	<b>0.88</b>	<b>0.88</b>	<b>0.91</b>	<b>0.91</b>
<i>Household Use</i>	0.07	0.06	0.06	0.07	0.07	0.05	0.05	0.05	0.06	0.07	0.06	0.06	0.06	0.07	0.07
<i>Landscape</i>	0.74	0.75	0.76	0.77	0.78	0.78	0.79	0.79	0.80	0.80	0.81	0.82	0.83	0.83	0.84
<b>Agriculture &amp; Forestry</b>	<b>8.27</b>	<b>8.22</b>	<b>8.51</b>	<b>8.52</b>	<b>8.42</b>	<b>8.44</b>	<b>8.43</b>	<b>8.44</b>	<b>8.37</b>	<b>8.14</b>	<b>8.24</b>	<b>8.39</b>	<b>8.50</b>	<b>8.19</b>	<b>7.94</b>
<i>Ag Energy Use</i>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<i>Ag Residue Burning</i>	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
<i>Ag Soil Management</i>	6.68	6.62	6.81	6.78	6.77	6.74	6.67	6.67	6.63	6.44	6.55	6.70	6.76	6.50	6.23
<i>Histosol Cultivation</i>	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
<i>Manure Management</i>	1.38	1.41	1.50	1.54	1.45	1.50	1.55	1.57	1.53	1.49	1.48	1.48	1.54	1.48	1.50
<b>Summary for Included Emissions</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>California N2O Emissions</b>	<b>15.5</b>	<b>15.1</b>	<b>15.1</b>	<b>14.9</b>	<b>14.4</b>	<b>14.1</b>	<b>13.8</b>	<b>13.6</b>	<b>13.4</b>	<b>12.8</b>	<b>12.9</b>	<b>12.9</b>	<b>12.9</b>	<b>12.7</b>	<b>12.2</b>

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<b>Excluded Emissions</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
<b>Transportation</b>	<b>0.34</b>	<b>0.31</b>	<b>0.33</b>	<b>0.31</b>	<b>0.34</b>	<b>0.34</b>	<b>0.35</b>	<b>0.37</b>	<b>0.34</b>	<b>0.34</b>	<b>0.33</b>	<b>0.32</b>	<b>0.31</b>	<b>0.33</b>	<b>0.35</b>
<i>Aviation</i>	<i>0.30</i>	<i>0.28</i>	<i>0.30</i>	<i>0.29</i>	<i>0.31</i>	<i>0.31</i>	<i>0.32</i>	<i>0.33</i>	<i>0.30</i>	<i>0.29</i>	<i>0.29</i>	<i>0.29</i>	<i>0.28</i>	<i>0.30</i>	<i>0.32</i>
<i>Water-borne</i>	<i>0.04</i>	<i>0.03</i>	<i>0.03</i>	<i>0.02</i>	<i>0.03</i>	<i>0.04</i>	<i>0.04</i>	<i>0.04</i>	<i>0.04</i>	<i>0.04</i>	<i>0.04</i>	<i>0.03</i>	<i>0.03</i>	<i>0.03</i>	<i>0.03</i>
<b>Military</b>	<b>0.03</b>	<b>0.04</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.03</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.03</b>	<b>0.02</b>	<b>0.02</b>
<i>Not Specified Military</i>	<i>0.03</i>	<i>0.04</i>	<i>0.03</i>	<i>0.03</i>	<i>0.03</i>	<i>0.03</i>	<i>0.03</i>	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	<i>0.03</i>	<i>0.02</i>	<i>0.02</i>
<b>Summary for Excluded Emissions</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>
International and Interstate N2O Emissions	0.4	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4

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**N2O**

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**2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014**

This section of the inventory is currently under development