

Emissions of Greenhouse Gases in the United States 2004

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Table 25. Estimated U.S. Emissions of Nitrous Oxide, 1990 and 1996-2004

Source	1990	1996	1997	1998	1999	2000	2001	2002	2003	P2004
Million Metric Tons Carbon Dioxide Equivalent										
Agriculture										
Nitrogen Fertilization of Soils	186.9	184.2	190.5	194.0	192.7	189.4	189.1	185.1	186.6	204.3
Solid Waste of Domesticated Animals . .	61.9	65.1	63.8	62.9	62.4	61.8	61.4	61.2	60.7	60.3
Crop Residue Burning	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.6
Subtotal.	249.3	249.8	254.8	257.4	255.6	251.8	251.1	246.8	247.8	265.2
Energy Use										
Mobile Combustion	41.1	53.9	52.4	54.2	54.3	54.3	53.3	53.0	53.0	53.8
Stationary Combustion.	13.3	14.5	14.6	14.5	14.7	15.1	14.5	14.2	14.5	14.7
Subtotal.	54.4	68.5	67.0	68.7	68.9	69.4	67.9	67.2	67.5	68.4
Industrial Sources	28.6	34.3	21.8	17.2	16.8	16.6	14.0	15.2	14.0	14.0
Waste Management										
Human Sewage in Wastewater	4.6	5.2	5.2	5.3	5.5	5.6	5.6	5.7	5.7	5.8
Waste Combustion	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Subtotal.	4.8	5.4	5.4	5.5	5.7	5.8	5.9	5.9	6.0	6.0
Total	337.0	358.0	349.1	348.8	347.1	343.5	338.8	335.1	335.2	353.7
Thousand Metric Tons Nitrous Oxide										
Agriculture										
Nitrogen Fertilization of Soils	631	622	643	655	651	640	639	625	630	690
Solid Waste of Domesticated Animals . .	209	220	216	212	211	209	208	207	205	204
Crop Residue Burning	2	2	2	2	2	2	2	2	2	2
Subtotal.	842	844	861	870	864	851	848	834	837	896
Energy Use										
Mobile Combustion	139	182	177	183	183	183	180	179	179	182
Stationary Combustion.	45	49	49	49	50	51	49	48	49	50
Subtotal.	184	231	227	232	233	234	229	227	228	231
Industrial Sources	96	116	74	58	57	56	47	51	47	47
Waste Management										
Human Sewage in Wastewater	16	17	18	18	19	19	19	19	19	20
Waste Combustion.	1	1	1	1	1	1	1	1	1	1
Subtotal.	16	18	18	19	19	20	20	20	20	20
Total	1,139	1,209	1,179	1,178	1,173	1,160	1,145	1,132	1,133	1,195

P = preliminary data.

Notes: Data in this table are revised from the data contained in the previous EIA report, *Emissions of Greenhouse Gases in the United States 2003*, DOE/EIA-0573(2003) (Washington, DC, December 2004). Totals may not equal sum of components due to independent rounding.

Sources: Estimates presented in this chapter. Emissions calculations based on Intergovernmental Panel on Climate Change, *Greenhouse Gas Inventory Reference Manual: Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Vol. 3 (Paris, France, 1997), pp. 4.81-4.94, web site www.ipcc.ch/pub/guide.htm; and U.S. Environmental Protection Agency, *Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2003*, EPA 430-R-05-003 (Washington, DC, April 2005), web site <http://yosemite.epa.gov/oar/globalwarming.nsf/content/ResourceCenterPublicationsGHGEmissionsUSEmissionsInventory2005.html>.