

Table 12.6 Nitrous Oxide Emissions, 1980-2002
(Thousand Metric Tons of Nitrous Oxide)

Year	Energy Sources			Waste Management			Agricultural Sources				Industrial Processes ³	Total
	Mobile Combustion ¹	Stationary Combustion ²	Total	Waste Combustion	Human Sewage in Wastewater	Total	Nitrogen Fertilization of Soils	Crop Residue Burning	Solid Waste of Domesticated Animals	Total		
1980	60	43	102	(s)	13	13	499	1	264	764	88	968
1981	63	42	105	(s)	13	13	515	2	266	782	85	985
1982	67	40	107	(s)	13	13	486	2	265	752	81	954
1983	71	41	112	(s)	14	14	441	1	264	706	80	912
1984	86	43	130	(s)	14	14	500	2	259	761	88	992
1985	98	43	141	(s)	15	15	619	2	251	871	89	1,116
1986	107	43	150	(s)	15	15	597	2	242	841	87	1,093
1987	120	44	164	1	15	16	582	1	237	821	91	1,092
1988	138	46	183	1	15	16	539	1	234	774	96	1,069
1989	146	46	192	1	15	16	586	2	228	816	99	1,123
1990	156	45	200	1	16	17	604	2	209	814	96	1,128
1991	165	44	209	1	16	17	609	2	211	821	99	1,146
1992	175	45	220	1	16	17	624	2	214	839	95	1,171
1993	180	46	226	1	16	17	613	1	216	831	100	1,174
1994	190	46	237	1	17	18	667	2	220	888	110	1,253
1995	200	47	247	1	17	18	601	2	222	825	111	1,200
1996	198	49	247	1	17	18	587	2	220	809	116	1,190
1997	201	49	250	1	17	18	604	2	216	822	74	1,164
1998	203	48	251	1	18	18	616	2	213	830	58	1,158
1999	221	49	270	1	18	19	613	2	211	826	58	1,173
2000	214	50	264	1	19	20	601	2	209	812	57	1,153
2001	215	49	263	1	19	20	598	2	208	807	47	1,138
2002 ^P	214	49	263	1	19	20	583	2	207	791	50	1,125

¹ Emissions from passenger cars and trucks; air, rail, and marine transportation; and farm and construction equipment.

² Consumption of coal, petroleum, natural gas, and wood for heat or electricity.

³ Adipic acid production (primarily for the manufacture of nylon fibers and plastics), and nitric acid production (primarily for fertilizers).

P=Preliminary. (s)=Less than 0.5 thousand metric tons.

Notes: • Emissions are from anthropogenic sources. "Anthropogenic" means produced as the result of human activities, including emissions from agricultural activity and domestic livestock. Emissions from natural sources, such as wetlands and wild animals, are not included. • Under certain conditions, methane

may be produced via anaerobic decomposition of organic materials in landfills, animal wastes, and rice paddies. • Because of the continuing goal to improve estimation methods for greenhouse gases, data are frequently revised on an annual basis in keeping with the latest findings of the international scientific community. • Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/environment.html>.

Sources: • 1980-1989—Energy Information Administration (EIA), *Emissions of Greenhouse Gases in the United States*, annual reports. • 1990 forward—EIA, *Emissions of Greenhouse Gases in the United States 2002* (October 2003), Table 23.