Table 12.5 Methane Emissions, 1980-2002

(Million Metric Tons of Methane)

Year	Energy Sources						Waste Management			Agricultural Sources					Industrial Processes [6]	Total
	Coal Mining	Natural Gas Systems [1]	Petroleum Systems [2]	Mobile Combustion [3]	Stationary Combustion [4]	Total	Landfills	Wastewater Treatment	Total	Enteric Fermentation [5]	Animal Waste	Rice Cultivation	Crop Residue Burning	Total		
1980	3.05	4.30	NA	0.28	0.81	8.44	9.85	R0.53	R10.38	5.47	3.03	0.48	0.04	9.02	0.13	R27.98
1981	2.80	4.91	NA	0.27	0.82	8.80	10.07	R0.53	R10.60	5.56	2.88	0.54	R0.05	9.03	0.14	R28.57
1982	3.23	4.94	NA	0.27	0.88	9.31	10.21	R0.54	R10.75	5.50	2.78	0.47	R0.05	R8.80	0.10	R28.95
1983	3.02	4.90	NA	0.27	0.86	9.05	10.41	R0.54	R10.95	5.46	2.84	0.31	0.03	8.64	0.11	R28.75
1984	3.60	5.00	NA	R0.27	0.86	9.73	10.55	R0.55	R11.10	5.33	2.76	0.40	0.04	R8.54	0.11	R29.48
1985	3.88	5.05	NA	0.26	0.84	10.03	10.67	R0.55	R11.22	5.27	2.76	0.36	R0.05	8.43	0.11	R29.79
1986	3.73	4.93	NA	0.26	0.82	9.74	10.69	R0.56	R11.25	5.13	2.70	0.34	0.04	R8.21	0.10	R29.30
1987	4.01	5.03	NA	0.25	0.80	10.09	10.92	R0.56	R11.49	5.08	2.74	0.33	0.04	R8.20	0.11	R29.89
1988	3.93	5.18	NA	0.25	0.83	10.19	10.98	R0.57	R11.55	5.10	2.76	0.41	0.03	8.30	0.12	R30.16
1989	3.96	5.34	NA	0.25	0.86	10.41	11.08	R0.57	R11.65	5.08	2.66	0.38	0.04	8.16	0.12	R30.35
1990	R4.25	5.60	1.30	0.25	0.56	R11.96	R11.01	R0.58	R11.59	R5.22	R1.93	0.40	R0.05	R7.60	0.12	R31.27
1991	R4.10	5.83	1.31	R0.24	0.59	R12.06	R10.86	R0.58	R11.44	R5.19	R2.19	0.40	0.04	R7.81	0.11	R31.43
1992	R4.05	5.89	1.27	0.24	0.62	R12.07	R10.77	R0.59	R11.36	R5.29	R2.21	0.45	R0.05	R8.01	0.12	R31.55
1993	R3.44	5.88	1.21	0.24	0.54	R11.30	R10.58	R0.60	R11.18	R5.24	R2.26	0.41	0.04	R7.95	0.12	R30.55
1994	R3.51	5.89	1.18	0.24	0.53	R11.35	R10.27	R0.60	R10.88	R5.34	R2.34	0.48	0.05	R8.21	0.13	R30.57
1995	R3.66	5.98	1.17	0.25	0.58	R11.64	R9.87	R0.61	R10.48	R5.42	R2.35	0.44	0.04	R8.26	0.13	R30.51
1996	R3.19	6.00	1.15	0.24	0.58	R11.16	R9.37	R0.61	R9.98	R5.31	R2.34	0.41	R0.05	R8.11	0.13	R29.39
1997	R3.50	6.01	1.14	0.24	0.44	R11.33	R8.80	R0.62	R9.42	R5.19	R2.48	0.45	R0.05	R8.18	0.13	R29.05
1998	R3.28	6.02	1.11	0.24	0.39	R11.04	R8.25	R0.63	R8.88	R5.11	R2.51	0.47	R0.05	R8.13	0.13	R28.19
1999	3.12	6.19	R1.05	0.26	0.42	11.02	R7.91	R0.63	R8.54	R5.11	R2.46	0.50	R0.05	R8.11	0.13	R27.81
2000	2.98	R6.41	1.03	0.25	0.44	R11.10	R7.87	R0.65	R8.53	R5.06	R2.46	0.45	0.05	R8.02	0.13	R27.77
2001	R2.96	R6.38	1.03	R0.24	0.41	R11.03	R7.58	R0.66	R8.24	R5.00	R2.49	R0.47	R0.05	R8.01	0.11	R27.40
2002P	2.86	6.47	1.02	0.24	0.36	10.95	6.94	0.67	7.61	5.00	2.47	0.46	0.05	7.98	0.11	26.65

[1] Natural gas production, processing, and distribution.
[2] Petroleum production, refining, and distribution.
[3] Emissions from passenger cars, trucks, buses, motorcycles, and other transport.
[4] Consumption of coal, petroleum, natural gas, and wood for heat or electricity.
[5] Methane emitted as a product of digestion in animals such as cattle, buffalo, sheep, goats, and camels.
[6] Chemical production, and iron and steel production.

R=Revised. P=Preliminary. NA=Not available.

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 and unpublished revisions. • 1990 forward—EIA, *Emissions of Greenhouse Gases in the United States 2002* (October 2003), Table 13.