

Table 20. U.S. Methane Emissions from Enteric Fermentation in Domesticated Animals, 1990-2002

Animal Type	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	P2002
Million Metric Tons Methane													
Cattle.....	4.94	4.91	5.02	4.97	5.07	5.16	5.06	4.94	4.85	4.86	4.82	4.76	4.76
Sheep	0.08	0.09	0.09	0.09	0.09	0.09	0.08	0.09	0.09	0.09	0.09	0.09	0.09
Pigs.....	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05
Goats.....	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
Horses.....	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10
Total	5.22	5.19	5.29	5.24	5.34	5.42	5.31	5.19	5.11	5.11	5.06	5.00	5.00
Million Metric Tons Carbon Dioxide Equivalent													
Cattle.....	113.68	112.90	115.41	114.25	116.59	118.67	116.37	113.54	111.53	111.75	110.75	109.38	109.43
Sheep	1.88	1.99	2.01	2.00	2.06	2.01	1.94	2.11	2.15	2.05	2.04	2.06	2.05
Pigs.....	2.09	2.06	1.99	1.88	1.81	1.65	1.56	1.48	1.44	1.33	1.29	1.28	1.23
Goats.....	0.22	0.21	0.23	0.23	0.23	0.21	0.22	0.19	0.16	0.16	0.15	0.16	0.14
Horses.....	2.10	2.11	2.12	2.12	2.12	2.12	2.13	2.14	2.17	2.14	2.17	2.19	2.19
Total	119.96	119.27	121.75	120.48	122.80	124.67	122.21	119.45	117.44	117.42	116.40	115.08	115.05

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 2001*, DOE/EIA-0573(2001) (Washington, DC, December 2002). Totals may not equal sum of components due to independent rounding.

Sources: Cattle, sheep, and pig population data provided by the U.S. Department of Agriculture, National Agricultural Statistics Service, Livestock, Dairy and Poultry Service. Goat and horse population figures extrapolated from U.S. Department of Commerce, Bureau of the Census, *Census of Agriculture*, 1982, 1987, 1992, and 1997. Emissions calculations based on U.S. Environmental Protection Agency, *Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2001*, EPA-430-R-03-004 (Washington, DC, April 2003), web site <http://yosemite.epa.gov/oar/globalwarming.nsf/content/ResourceCenterPublicationsGHGEmissionsUSEmissionsInventory2003.html>; and P.J. Crutzen, I. Aselmann, and W.S. Seiler, "Methane Production by Domestic Animals, Wild Ruminants, Other Herbivorous Fauna, and Humans," *Tellus*, Vol. 38B (1986), pp. 271-284.