

Emissions of Greenhouse Gases in the United States 2004

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Table 14. U.S. Carbon Dioxide Emissions from Industrial Processes, 1990 and 1996-2004
 (Million Metric Tons Carbon Dioxide)

Source	1990	1996	1997	1998	1999	2000	2001	2002	2003	P2004
Cement Manufacture										
Clinker Production	32.6	36.3	37.6	38.4	39.2	40.4	40.5	42.0	42.2	43.8
Masonry Cement	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Cement Kiln Dust	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9
Cement Subtotal	33.3	37.2	38.4	39.3	40.1	41.3	41.5	43.0	43.2	44.8
Other Industrial										
<i>Limestone Consumption</i>										
Lime Manufacture	12.4	15.1	15.5	15.8	15.5	15.4	14.8	14.1	15.1	16.0
Iron Smelting	1.7	1.1	1.1	1.1	1.0	1.1	1.0	0.9	0.9	0.9
Steelmaking	0.3	0.4	0.3	0.4	0.3	0.5	0.6	0.5	0.4	0.4
Copper Refining	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Glass Manufacture	0.1	0.2	0.1	0.0	0.2	0.2	0.1	0.1	0.2	0.2
Flue Gas Desulfurization	0.7	0.9	1.0	1.0	1.1	1.2	1.4	1.4	1.3	1.4
Dolomite Manufacture	0.5	0.3	0.0	0.3	0.1	0.1	0.1	0.1	0.1	0.1
Limestone Subtotal	15.9	18.3	18.3	18.7	18.3	18.6	18.1	17.1	18.0	19.1
Soda Ash Manufacture	3.4	3.8	3.9	3.8	3.7	3.6	3.6	3.5	3.6	3.8
<i>Soda Ash Consumption</i>										
Glass Manufacture	0.1	0.2	0.1	0.0	0.2	0.2	0.1	0.1	0.2	0.2
Flue Gas Desulfurization	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Sodium Silicate	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.3	0.3
Sodium Tripolyphosphate	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Soda Ash Subtotal	0.5	0.6	0.6	0.5	0.6	0.6	0.5	0.4	0.6	0.6
Carbon Dioxide Manufacture	0.9	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.5	1.5
Aluminum Manufacture	5.9	5.2	5.3	5.4	5.5	5.4	3.9	4.0	4.0	3.7
Shale Oil Production	0.2	*	*	*	*	*	*	*	*	*
Other Industrial Subtotal	26.8	29.0	29.2	29.7	29.3	29.4	27.4	26.4	27.6	28.7
Total	60.1	66.1	67.6	69.0	69.4	70.7	68.9	69.4	70.8	73.5

*Less than 50,000 metric tons carbon equivalent.

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: EIA estimates presented in this chapter.