Table 22. U.S. Methane Emissions from Industrial Processes, 1990-2002
(Thousand Metric Tons Methane)

Source	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	P2002
Thousand Metric Tons Methane													
Chemical Production													
Ethylene	17	18	19	19	20	21	22	23	23	25	23	20	21
Ethylene Dichloride	3	2	3	3	3	3	3	4	4	4	4	3	3
Styrene	15	15	16	18	20	21	22	21	21	22	20	16	18
Methanol	8	8	7	10	10	10	11	12	11	11	9	9	6
Carbon Black	14	13	15	16	16	17	17	17	18	18	17	16	17
Total	**56**	**57**	**60**	**66**	**70**	**72**	**75**	**77**	**77**	**80**	**72**	**64**	**66**
Iron and Steel Production													
Coke[a]	11	9	9	9	8	9	8	7	7	6	7	6	6
Sinter	6	5	6	6	6	6	6	6	5	6	5	5	5
Pig Iron	45	40	43	43	44	46	44	45	43	42	43	38	36
Total	**62**	**54**	**57**	**58**	**59**	**61**	**59**	**58**	**56**	**54**	**55**	**48**	**46**
Total Industrial Processes	**117**	**111**	**117**	**124**	**129**	**132**	**134**	**134**	**133**	**133**	**127**	**112**	**112**
Thousand Metric Tons Carbon Dioxide Equivalent													
Chemical Production													
Ethylene	380	417	427	430	465	488	511	531	540	578	521	470	493
Ethylene Dichloride	58	57	63	75	78	72	79	84	82	91	82	78	78
Styrene	335	339	376	420	470	475	496	476	477	499	452	357	415
Methanol	174	182	169	220	226	225	245	267	262	254	218	211	137
Carbon Black	331	310	345	367	378	386	395	402	407	415	384	363	386
Total	**1,277**	**1,304**	**1,380**	**1,512**	**1,616**	**1,646**	**1,726**	**1,760**	**1,767**	**1,837**	**1,658**	**1,479**	**1,509**
Iron and Steel Production													
Coke[a]	251	206	202	199	191	201	193	172	163	148	155	130	132
Sinter	141	122	132	143	140	144	136	132	125	127	124	106	104
Pig Iron	1,028	913	981	997	1,022	1,053	1,023	1,027	998	958	991	872	833
Total	**1,420**	**1,241**	**1,314**	**1,339**	**1,353**	**1,399**	**1,352**	**1,330**	**1,286**	**1,233**	**1,271**	**1,108**	**1,068**
Total Industrial Processes	**2,697**	**2,545**	**2,694**	**2,851**	**2,969**	**3,044**	**3,078**	**3,090**	**3,053**	**3,070**	**2,928**	**2,587**	**2,577**

[a]Based on total U.S. production of metallurgical coke, including non-iron and steel uses.

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: American Iron and Steel Institute, *Annual Statistical Report* (Washington, DC, various years); American Chemical Council (formerly the Chemical Manufacturers Association), *U.S. Chemical Industry Statistical Handbook* (Washington, DC, various years); and Intergovernmental Panel on Climate Change, *Greenhouse Gas Inventory Reference Manual: Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Vol. 3 (Paris, France, 1997), p. 2.23, web site www.ipcc/pub/guide.htm.