



Appendix A Emission Trends

TABLE 10 EMISSIONS TRENDS (CO₂)
(Sheet 1 of 5)
(Part 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base Year (1990)	1991	1992	1993	1994	1995	1996	1997	1998	1999
1. Energy	4,826,403.65	4,797,772.12	4,894,481.51	5,036,716.45	5,083,003.53	5,154,924.87	5,241,821.85	5,407,924.65	5,468,279.22	5,527,589.28
A. Fuel Combustion (Sectoral Approach)	4,824,638.59	4,791,898.96	4,888,114.46	5,019,829.64	5,097,220.91	5,145,281.92	5,233,482.87	5,400,621.48	5,441,713.03	5,520,946.48
1. Energy Industries	1,795,514.03	1,791,841.24	1,804,521.58	1,884,278.53	1,811,285.04	1,928,381.19	1,997,272.26	2,068,237.21	2,154,894.35	2,165,584.41
2. Manufacturing Industries and Construction	851,114.88	830,172.80	874,057.19	865,207.09	871,274.82	854,349.22	918,159.19	912,431.43	871,919.08	849,011.29
3. Transport	1,412,240.29	1,282,651.43	1,431,515.50	1,481,263.62	1,519,792.86	1,548,355.81	1,584,231.84	1,601,594.88	1,629,624.56	1,693,297.10
4. Other Sectors	569,574.62	571,043.83	576,871.67	585,861.58	578,865.87	578,583.37	628,733.97	598,663.28	551,234.11	570,920.32
5. Other	204,214.77	213,189.67	201,548.51	204,718.82	215,902.12	214,527.12	212,213.82	220,633.48	234,041.15	241,853.06
B. Fugitive Emissions from Fuels	1,606.06	5,873.16	5,206.85	6,266.82	6,862.82	8,188.28	8,229.28	7,373.63	6,566.19	6,942.79
1. Solid Fuels	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2. Oil and Natural Gas	5,805.06	5,873.16	5,206.85	6,266.82	6,862.82	8,188.28	8,229.28	7,373.65	6,566.19	6,942.79
2. Industrial Processes	174,791.22	164,004.08	162,275.20	160,290.15	167,670.43	171,846.92	166,796.22	172,844.23	171,896.90	167,450.15
A. Mineral Products	54,199.19	52,614.59	53,181.47	55,228.29	57,626.59	61,220.82	62,625.64	63,611.33	64,911.37	65,237.41
B. Chemical Industry	25,523.61	25,110.36	26,329.41	26,247.48	27,419.26	27,317.42	27,166.51	27,528.24	29,402.40	28,847.48
C. Metal Production	95,272.43	86,339.03	83,764.02	78,614.28	82,624.59	82,459.43	78,994.17	81,488.25	77,523.03	75,645.25
D. Other Production	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
E. Production of Solvents and SF ₆	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
F. Consumption of Fluorocarbons and SF ₆	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
G. Other	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
J. Solvent and Other Product Use	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE
4. Agriculture										
A. Enteric Fermentation										
B. Manure Management										
C. Rice Cultivation										
D. Agricultural Soils										
E. Presoil Burning of Soils										
F. Field Burning of Agricultural Residues										
G. Other										
5. Land Use, Land-Use Change and Forestry ¹⁾	-910,373.10	-908,515.44	-872,606.25	-751,809.44	-742,849.42	-654,888.87	-603,849.85	-641,212.25	-744,041.71	-765,691.24
A. Forest Land	-563,339.86	-574,330.65	-530,219.65	-493,257.86	-397,992.11	-335,482.91	-272,653.43	-301,126.28	-412,697.88	-423,201.94
B. Cropland	-31,832.45	-31,680.75	-32,216.90	-34,827.29	-33,272.41	-29,399.37	-28,129.69	-29,528.69	-27,385.25	-27,409.07
C. Grassland	-22,154.24	-22,251.06	-22,311.10	-22,417.88	-22,492.53	-13,548.94	-13,573.87	-13,587.84	-13,602.81	-13,643.71
D. Wetlands	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE
E. Settlements	-43,187.81	-42,294.14	-45,107.59	-42,844.07	-43,128.29	-43,218.22	-41,218.27	-44,628.19	-54,252.80	-56,773.77
F. Other Land	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
G. Other	-210,038.25	-197,978.94	-202,251.02	-203,982.84	-218,449.89	-210,218.99	-210,218.99	-212,321.24	-206,122.86	-214,661.85
6. Waste	BE,NA	BE,NA	BE,NA	BE,NA	BE,NA	BE,NA	BE,NA	BE,NA	BE,NA	BE,NA
A. Solid Waste Disposal on Land	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Waste-water Handling	BE	BE	BE	BE	BE	BE	BE	BE	BE	BE
C. Waste Incineration	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7. Other (as specified in Summary Table) Other non-specified	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total CO ₂ emissions including net CO ₂ from LULUCF ²⁾	4,894,881.28	4,835,251.56	4,835,006.25	4,935,327.16	4,923,823.25	4,710,482.23	4,904,878.27	4,939,896.13	4,876,134.41	4,929,347.08
Total CO ₂ emissions excluding net CO ₂ from LULUCF ³⁾	5,815,254.88	4,951,437.00	5,057,606.60	5,187,386.61	5,271,653.98	5,222,289.59	5,288,728.27	5,580,868.38	5,630,176.12	5,695,839.42
Notes:										
International Bankers	113,582.87	119,859.04	109,225.69	99,251.86	97,724.81	106,678.57	102,294.91	109,858.16	114,557.44	105,228.41
Airline	44,230.19	46,521.67	46,900.62	47,481.59	48,035.25	50,149.58	52,186.86	55,888.25	56,627.27	58,799.40
Marine	87,272.48	75,237.27	62,821.98	52,220.36	49,684.56	45,624.59	45,188.85	45,929.81	47,900.06	46,428.92
Manufacture Operations	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
CO ₂ Emissions from Biomass	216,282.82	217,587.47	228,441.27	222,383.26	221,283.25	243,982.28	244,285.84	233,243.18	217,281.03	222,348.14

Notes: All footnotes for this table are given at the end of the table on sheet 5.

Inventory 2004
Submission 2006 v.1.1
UNITED STATES OF AMERICA

**TABLE 10. EMISSIONS TRENDS (CO₂)
(Sheet 1 of 5)**
(Part 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2000	2001	2002	2003	2004	Change from base to latest reported year %
	Gg					
1. Energy	5,658,886.35	5,642,683.67	5,660,383.81	5,730,008.56	5,835,334.97	18.88
A. Fuel Combustion (Sectoral Approach)	5,682,317.61	5,636,594.62	5,657,080.21	5,723,937.99	5,879,300.81	18.82
1. Energy Industries	2,248,311.57	2,237,342.82	2,233,452.50	2,262,197.79	2,290,619.61	27.57
2. Manufacturing Industries and Construction	882,564.34	862,387.85	842,119.24	844,020.29	865,461.40	3.43
3. Transport	1,738,562.34	1,735,938.49	1,771,796.85	1,772,544.33	1,825,651.34	28.18
4. Other Sectors	598,343.98	598,318.81	584,324.43	614,563.10	595,585.26	6.33
5. Other	232,334.87	238,212.45	235,424.19	230,301.78	256,303.20	34.38
B. Fugitive Emissions from Fuels	5,768.54	6,094.64	6,202.29	6,090.97	6,033.86	3.94
1. Solid Fuels	NE	NE	NE	NE	NE	0.00
2. Oil and Natural Gas	5,768.54	6,094.64	6,202.29	6,090.97	6,033.86	3.94
2. Industrial Processes	168,378.73	152,428.59	152,685.17	147,688.81	151,449.74	-12.67
A. Mineral Products	64,852.48	64,863.15	65,238.52	64,801.51	70,163.13	29.46
B. Chemical Industry	27,887.54	23,339.85	25,374.86	27,853.69	26,798.35	-2.23
C. Metal Production	34,718.71	64,924.36	61,298.79	59,891.61	57,728.26	-28.41
D. Other Production	NE	NE	NE	NE	NE	0.00
E. Production of Halocarbons and SF ₆	NE	NE	NE	NE	NE	0.00
F. Consumption of Halocarbons and SF ₆	NE	NE	NE	NE	NE	0.00
G. Other	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	0.00
3. Solvent and Other Product Use	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	0.00
4. Agriculture	NE	NE	NE	NE	NE	0.00
A. Enteric Fermentation	NE	NE	NE	NE	NE	0.00
B. Manure Management	NE	NE	NE	NE	NE	0.00
C. Rice Cultivation	NE	NE	NE	NE	NE	0.00
D. Agricultural Soils	NE	NE	NE	NE	NE	0.00
E. Prescribed Burning of Synchron	NE	NE	NE	NE	NE	0.00
F. Field Burning of Agricultural Residues	NE	NE	NE	NE	NE	0.00
G. Other	NE	NE	NE	NE	NE	0.00
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-259,596.65	-267,387.44	-268,634.59	-274,647.66	-280,094.17	-14.31
A. Forest Land	-420,195.58	-420,195.58	-420,195.58	-420,195.58	-420,195.58	-25.41
B. Cropland	-28,946.42	-30,995.97	-30,228.23	-31,203.42	-31,759.21	0.40
C. Grassland	-13,865.35	-13,256.58	-13,789.66	-13,814.02	-13,895.92	-37.44
D. Wetlands	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	0.00
E. Settlements	-85,865.99	-89,677.60	-89,494.27	-89,754.29	-89,211.28	16.98
F. Other Land	NE	NE	NE	NE	NE	0.00
G. Other	-210,815.31	-213,790.50	-214,488.83	-215,378.26	-216,087.88	5.29
6. Waste	NA	NA	NA	NA	NA	0.00
A. Solid Waste Disposed on Land	NA	NA	NA	NA	NA	0.00
B. Water-sewer Handling	NE	NE	NE	NE	NE	0.00
C. Water Incineration	NA	NA	NA	NA	NA	0.00
D. Other	NE	NE	NE	NE	NE	0.00
7. Other (or specified) Sources (L₀)	NA	NA	NA	NA	NA	0.00
Other non-specified	NA	NA	NA	NA	NA	0.00
Total CO₂ emissions including net CO₂ from LULUCF⁽¹⁾	5,984,958.23	5,977,296.79	5,943,299.39	5,102,838.71	5,387,898.23	27.18
Total CO₂ emissions excluding net CO₂ from LULUCF⁽¹⁾	5,884,464.88	5,795,193.22	5,815,888.98	5,877,637.27	5,987,984.43	19.63
More Items:						
International Bankers	191,966.67	97,814.95	89,888.77	84,883.38	84,498.89	-16.74
Aviation	60,597.03	59,337.45	61,717.41	59,441.46	59,011.63	-29.59
Marine	40,859.44	38,477.49	27,391.36	24,634.85	24,287.29	-48.59
Multilateral Operations	NE	NE	NE	NE	NE	0.00
CO ₂ Emissions from Biomass	236,766.85	200,476.81	194,351.19	182,118.66	211,224.03	-2.53

Note: All footnotes for this table are given at the end of the table on sheet 5.

TABLE 10 EMISSIONS TRENDS (CH₄)
(Sheet 2 of 5)
(Part 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base Year (1990)	1991	1992	1993	1994	1995	1996	1997	1998	1999
		Gg								
Total CH₄ emissions	29,431.69	28,435.83	29,668.61	28,899.39	29,163.28	28,997.40	28,523.84	28,096.31	27,584.86	27,093.90
1. Energy	12,458.65	12,366.48	12,225.90	11,600.87	11,716.55	11,694.29	11,607.13	11,413.55	11,208.59	10,900.17
A. Fuel Combustion (Sectoral Approach)	593.51	613.80	588.15	588.15	581.13	592.64	593.59	538.13	556.59	508.29
1. Energy Industries	26.25	26.87	26.77	26.09	28.49	27.29	28.31	29.26	31.28	31.24
2. Manufacturing Industries and Construction	193.88	197.62	111.46	114.20	112.70	119.27	122.24	123.43	117.61	115.14
3. Transport	213.91	207.77	207.94	204.93	203.21	193.01	188.87	178.43	169.84	161.91
4. Other Sectors	344.74	253.59	263.90	237.19	231.96	247.99	232.67	203.67	184.31	195.84
5. Other	3.71	3.88	3.74	3.72	3.73	3.48	3.33	3.43	3.48	3.46
B. Fugitive Emissions from Fuels	11,860.24	11,766.86	11,612.10	11,072.74	11,137.42	11,035.65	11,013.54	10,875.42	10,704.09	10,291.87
1. Solid Fuels	4,386.17	4,095.25	3,994.15	3,429.25	3,487.42	3,327.95	3,407.63	3,381.12	3,317.66	3,126.97
2. Oil and Natural Gas	7,674.17	7,719.32	7,627.95	7,643.49	7,648.00	7,707.70	7,605.91	7,534.30	7,386.43	7,164.90
3. Industrial Processes	109.57	114.42	106.30	126.99	132.65	135.95	137.48	136.64	137.99	137.78
A. Mineral Products	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
B. Chemical Industry	56.77	58.91	61.63	67.29	72.26	75.68	76.98	79.09	80.49	82.02
C. Metal Production	62.83	55.51	58.57	59.20	68.39	62.27	66.42	59.55	57.21	55.77
D. Other Production										
E. Production of Hydrocarbons and SF ₆										
F. Consumption of Hydrocarbons and SF ₆										
G. Other	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
3. Solvent and Other Product Use	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
4. Agriculture	9,468.13	9,531.49	9,621.28	9,582.55	9,633.24	9,699.44	9,759.78	9,599.86	9,624.69	9,610.10
A. Enteric Fermentation	5,622.38	5,578.78	5,685.69	5,658.26	5,714.01	5,656.24	5,740.21	5,635.55	5,538.80	5,502.85
B. Manure Management	1,483.72	1,578.88	1,536.66	1,583.53	1,669.47	1,718.20	1,651.88	1,721.57	1,848.25	1,812.97
C. Rice Cultivation	339.21	333.19	374.29	334.24	393.13	382.90	331.75	356.24	376.24	369.87
D. Agricultural Soils	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE
E. Precombustion Burning of Biomass	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Field Burning of Agricultural Residues	32.83	30.73	36.14	29.62	38.77	31.50	32.84	30.51	37.28	36.51
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Land Use, Land-Use Change and Forestry	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE
A. Forest Land	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE
B. Cropland	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE
C. Grassland	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE
D. Wetlands	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE
E. Settlements	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE
F. Other Land	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
G. Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
6. Waste	9,389.24	9,456.55	9,591.22	9,525.89	9,678.74	9,835.71	9,619.63	9,727.25	9,424.58	9,548.79
A. Solid Waste Disposal on Land	8,395.61	8,309.13	8,219.31	8,248.67	8,164.02	7,772.54	7,257.44	7,217.94	6,874.39	6,792.43
B. Waste-water Handling	1,178.63	1,227.43	1,281.92	1,277.32	1,274.72	1,425.18	1,462.19	1,509.31	1,558.19	1,602.32
C. Waste Incineration	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
D. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7. Other (or qualified) Inventory (L₀)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Netto Emission										
International Aviation	7.88	8.29	7.38	4.38	6.15	6.25	6.26	6.78	7.19	6.13
Marine	1.27	1.28	1.29	1.32	1.44	1.29	1.41	1.54	1.56	1.62
Net/Total Operations	6.53	7.11	6.03	5.68	4.82	4.85	4.86	5.24	5.83	4.51
CO₂ Emissions from Biomass	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

Note: All inventories for this table are given at the end of the table on sheet 5.

Inventory 2004
 Schedule 2004 v1.1
 UNITED STATES OF AMERICA

TABLE 19. EMISSIONS TRENDS (CH₄)
 (Sheet 2 of 5)
 (Part 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2000	2001	2002	2003	2004	Change from base to latest reporting year	
						Gg	%
Total CH₄ emissions	26,997.19	26,679.08	26,657.36	26,874.81	26,511.31		-9.82
1. Energy	10,897.53	10,714.78	10,400.17	10,577.44	10,377.38		-17.51
A. Fuel Combustion (Sectoral Approach)	512.75	479.40	447.10	455.68	446.59		-25.35
1. Energy Industries	32.40	32.16	31.95	33.18	33.43		24.02
2. Manufacturing Industries and Construction	117.32	110.11	108.15	106.78	110.32		1.68
3. Transport	155.85	146.65	139.43	133.02	126.19		-41.60
4. Other Sources	203.77	181.90	163.74	188.13	171.74		-29.83
5. Other	3.42	4.18	3.88	4.15	4.41		18.85
B. Fugitive Emissions from Pools	10,379.78	10,240.37	10,072.07	10,062.26	9,850.61		-17.11
1. Solid Pools	3,022.39	2,956.39	2,787.76	2,888.02	2,951.20		-29.20
2. Oil and Natural Gas	3,357.39	3,283.99	3,243.22	3,174.34	3,079.41		-10.56
3. Industrial Processes	175.82	179.45	178.43	171.34	177.17		6.35
A. Mineral Products	85	85	85	85	85		0.00
B. Chemical Industry	88.23	88.67	72.67	72.62	77.41		36.55
C. Metal Production	37.49	38.78	47.76	48.72	49.35		-20.77
D. Other Production							
E. Production of Halocarbons and SF ₆							
F. Combustion of Halocarbons and SF ₆							
G. Other	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO		0.00
3. Solvent and Other Product Use	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO		0.00
4. Agriculture	7,712.89	7,709.95	7,692.83	7,711.89	7,618.84		2.28
A. Enteric Fermentation	5,907.09	5,459.14	5,482.73	5,481.04	5,162.16		-4.45
B. Manure Management	1,811.35	1,850.37	1,871.30	1,864.62	1,873.45		26.48
C. Rice Cultivation	356.84	360.78	325.20	328.23	346.37		6.24
D. Agricultural Soils	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE		0.00
E. Prescribed Burning of Savannas	NA	NA	NA	NA	NA		0.00
F. Field Burning of Agricultural Residues	37.41	26.65	33.61	37.62	41.76		27.28
G. Other	NA	NA	NA	NA	NA		0.00
5. Land Use, Land-Use Change and Forestry	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE		0.00
A. Forest Land	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE		0.00
B. Cropland	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE		0.00
C. Grassland	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE		0.00
D. Wetlands	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE		0.00
E. Shrublands	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE		0.00
F. Other Land	NE	NE	NE	NE	NE		0.00
G. Other	NE	NE	NE	NE	NE		0.00
6. Waste	8,253.95	8,134.82	8,363.93	8,524.04	8,487.89		-6.78
A. Solid Waste Disposal on Land	6,618.57	6,484.23	6,658.73	6,782.47	6,788.58		-18.28
B. Waste-water Handling	1,635.27	1,656.59	1,705.19	1,741.87	1,751.64		69.65
C. Waste Incineration	NE	NE	NE	NE	NE		0.00
D. Other	NA	NA	NA	NA	NA		0.00
7. Other (as specified in Inventory L-4)	NA	NA	NA	NA	NA		0.00
Minus Items:							
International Airports	5.83	6.37	4.48	4.84	5.02		-35.64
Aviation	1.87	1.64	1.79	1.64	1.65		38.06
Marine	3.96	3.73	2.69	2.41	3.37		-48.42
Manufacture Operations	NE	NE	NE	NE	NE		0.00
CO₂ Emissions from Biomass							

Note: All footnotes for this table are given at the end of the table on sheet 5.

TABLE 10 EMISSIONS TRENDS (NO_x)
(Sheet 3 of 5)
(Part 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year (1990)	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total NO_x emissions	1,373.81	1,321.26	1,343.60	1,453.64	1,303.67	1,465.27	1,483.19	1,586.43	1,491.97	1,582.81
1. Energy	101.24	107.51	106.05	205.83	211.42	215.19	216.59	221.73	221.19	218.54
A. Fuel Combustion (Excludes Aircraft)	101.24	107.51	106.05	205.83	211.42	215.19	216.59	221.73	221.19	218.54
1. Energy Industries	24.40	24.23	24.29	23.39	23.84	23.87	27.26	28.01	28.72	28.29
2. Manufacturing Industries and Construction	12.87	12.54	13.01	13.47	13.48	13.66	14.01	13.47	13.47	13.43
3. Transport	136.31	142.94	152.68	159.33	164.91	168.15	170.81	172.89	172.86	173.45
4. Other Sectors	4.65	4.77	4.38	4.48	4.40	4.29	4.28	4.04	3.67	3.89
5. Other	3.20	2.91	2.91	2.89	2.78	2.72	2.68	2.57	2.47	2.28
B. Fugitive Emissions from Fuels	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE
1. Solid Fuels	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2. Oil and Natural Gas	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE
2. Industrial Processes	106.59	105.41	101.14	102.89	111.73	119.66	121.37	101.71	86.68	82.58
A. Mineral Products	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
B. Chemical Industry	106.59	105.41	101.14	102.89	111.73	119.66	121.37	101.71	86.68	82.58
C. Metal Production	IE/NA	IE/NA	IE/NA	IE/NA	IE/NA	IE/NA	IE/NA	IE/NA	IE/NA	IE/NA
D. Other Production										
E. Production of Halocarbons and SF ₆										
F. Consumption of Halocarbons and SF ₆										
G. Other	NA/ND	NA/ND	NA/ND	NA/ND	NA/ND	NA/ND	NA/ND	NA/ND	NA/ND	NA/ND
3. Solvent and Other Product Use	11.87	11.69	13.72	14.45	14.45	14.45	14.45	15.37	15.37	15.37
4. Agriculture	912.06	953.55	899.16	1,064.61	899.86	1,080.44	1,079.43	949.58	1,028.08	964.24
A. Enteric Fermentation	52.44	54.08	53.37	54.35	54.74	55.27	54.94	55.95	56.12	56.22
B. Manure Management	838.41	899.30	814.46	1,008.78	842.65	993.93	1,014.11	892.18	971.38	967.69
C. Rice Cultivation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Agricultural Soils	1.20	1.17	1.33	1.18	1.47	1.22	1.37	1.44	1.48	1.44
E. Field Burning of Agricultural Residues	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G. Other	18.31	18.59	18.82	18.59	20.32	19.83	20.44	20.86	21.88	21.81
5. Land Use, Land-Use Change and Forestry	0.19	0.19	0.20	0.18	0.42	0.60	0.37	0.96	1.14	1.59
A. Forest Land	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE	IE/NA/NE
B. Cropland	NA/NE	NA/NE	NA/NE	NA/NE	NA/NE	NA/NE	NA/NE	NA/NE	NA/NE	NA/NE
C. Grassland	NA/NE	NA/NE	NA/NE	NA/NE	NA/NE	NA/NE	NA/NE	NA/NE	NA/NE	NA/NE
D. Wetlands	18.12	18.40	18.52	19.14	19.00	19.23	19.17	19.29	19.33	21.09
E. Settlements	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
F. Other Land	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
G. Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
6. Waste	41.64	42.81	43.51	44.24	45.89	45.76	46.32	47.17	48.97	49.68
A. Solid Waste Disposal on Land	41.64	42.81	43.51	44.24	45.89	45.70	46.32	47.17	48.97	49.68
B. Waste-water Handling	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
C. Waste Incineration	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
D. Other	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
7. Other (as specified in Summary T-6)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Means Items	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
International Borders	3.11	3.27	3.83	2.79	2.75	2.84	2.89	3.10	3.22	3.81
Aviation	1.66	1.47	1.48	1.20	1.52	1.61	1.65	1.77	1.80	1.85
Marine	1.66	1.81	1.53	1.29	1.22	1.23	1.23	1.33	1.43	1.44
Multilateral Operations	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
CO₂ Emissions from Business										

Note: All forecasts for this table are given at the end of the table on sheet 5.

TABLE 19 EMISSIONS TRENDS (MtO)
(Sheet 3 of 5)
(Part 2 of 2)

Inventory 2004
Submission 2009 v.1.1
UNITED STATES OF AMERICA

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2000					2001					2002					2003					2004					Change from base to latest reported year	%					
	Gg					Gg					Gg					Gg					Gg											
Total N₂O emissions	1,342.61	1,351.68	1,314.38	1,345.41	1,307.46	1,342.61	1,351.68	1,314.38	1,345.41	1,307.46	1,342.61	1,351.68	1,314.38	1,345.41	1,307.46	1,342.61	1,351.68	1,314.38	1,345.41	1,307.46	1,342.61	1,351.68	1,314.38	1,345.41	1,307.46	1,342.61	1,351.68	1,314.38	1,345.41	1,307.46	-2.67	1.46
1. Energy	217.61	206.22	197.68	189.91	182.99	217.61	206.22	197.68	189.91	182.99	217.61	206.22	197.68	189.91	182.99	217.61	206.22	197.68	189.91	182.99	217.61	206.22	197.68	189.91	182.99	217.61	206.22	197.68	189.91	182.99		
A. Fuel Combustion (Sectoral Approach)	217.61	206.22	197.68	189.91	182.99	217.61	206.22	197.68	189.91	182.99	217.61	206.22	197.68	189.91	182.99	217.61	206.22	197.68	189.91	182.99	217.61	206.22	197.68	189.91	182.99	217.61	206.22	197.68	189.91	182.99		
1. Energy Industries	20.12	20.42	20.38	20.08	20.24	20.12	20.42	20.38	20.08	20.24	20.12	20.42	20.38	20.08	20.24	20.12	20.42	20.38	20.08	20.24	20.12	20.42	20.38	20.08	20.24	20.12	20.42	20.38	20.08	20.24		
2. Manufacturing Industries and Construction	13.63	13.59	13.03	13.12	12.63	13.63	13.59	13.03	13.12	12.63	13.63	13.59	13.03	13.12	12.63	13.63	13.59	13.03	13.12	12.63	13.63	13.59	13.03	13.12	12.63	13.63	13.59	13.03	13.12	12.63		
3. Transport	167.25	159.89	148.87	139.97	131.43	167.25	159.89	148.87	139.97	131.43	167.25	159.89	148.87	139.97	131.43	167.25	159.89	148.87	139.97	131.43	167.25	159.89	148.87	139.97	131.43	167.25	159.89	148.87	139.97	131.43		
4. Other Sectors	4.06	3.78	3.46	3.78	3.69	4.06	3.78	3.46	3.78	3.69	4.06	3.78	3.46	3.78	3.69	4.06	3.78	3.46	3.78	3.69	4.06	3.78	3.46	3.78	3.69	4.06	3.78	3.46	3.78	3.69		
5. Other	2.44	2.34	2.46	2.97	3.02	2.44	2.34	2.46	2.97	3.02	2.44	2.34	2.46	2.97	3.02	2.44	2.34	2.46	2.97	3.02	2.44	2.34	2.46	2.97	3.02	2.44	2.34	2.46	2.97	3.02		
B. Fugitive Emissions from Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1. Solid Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2. Oil and Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2. Industrial Processes	82.67	67.28	74.54	72.85	72.13	82.67	67.28	74.54	72.85	72.13	82.67	67.28	74.54	72.85	72.13	82.67	67.28	74.54	72.85	72.13	82.67	67.28	74.54	72.85	72.13	82.67	67.28	74.54	72.85	72.13		
A. Mineral Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
B. Chemical Industry	82.67	67.28	74.54	72.85	72.13	82.67	67.28	74.54	72.85	72.13	82.67	67.28	74.54	72.85	72.13	82.67	67.28	74.54	72.85	72.13	82.67	67.28	74.54	72.85	72.13	82.67	67.28	74.54	72.85	72.13		
C. Metal Production	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
D. Other Production	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
E. Production of Halocarbons and SF₆	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
F. Consumption of Halocarbons and SF₆	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
G. Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3. Solvent and Other Product Use	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37		
A. Solvent Use	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37		
B. Other Product Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4. Agriculture	956.35	972.88	955.55	894.00	902.21	956.35	972.88	955.55	894.00	902.21	956.35	972.88	955.55	894.00	902.21	956.35	972.88	955.55	894.00	902.21	956.35	972.88	955.55	894.00	902.21	956.35	972.88	955.55	894.00	902.21		
A. Enteric Fermentation	57.28	58.28	58.02	56.56	57.05	57.28	58.28	58.02	56.56	57.05	57.28	58.28	58.02	56.56	57.05	57.28	58.28	58.02	56.56	57.05	57.28	58.28	58.02	56.56	57.05	57.28	58.28	58.02	56.56	57.05		
B. Manure Management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
C. Rice Cultivation	897.29	912.72	896.14	836.01	843.50	897.29	912.72	896.14	836.01	843.50	897.29	912.72	896.14	836.01	843.50	897.29	912.72	896.14	836.01	843.50	897.29	912.72	896.14	836.01	843.50	897.29	912.72	896.14	836.01	843.50		
D. Agricultural Soils	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
E. Precombusted Burning of Biomass	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48		
F. Field Burning of Agricultural Residues	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
G. Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5. Land Use, Land-Use Change and Forestry	10.56	10.12	10.61	21.22	22.06	10.56	10.12	10.61	21.22	22.06	10.56	10.12	10.61	21.22	22.06	10.56	10.12	10.61	21.22	22.06	10.56	10.12	10.61	21.22	22.06	10.56	10.12	10.61	21.22	22.06		
A. Forest Land	1.14	1.26	1.26	1.26	1.26	1.14	1.26	1.26	1.26	1.26	1.14	1.26	1.26	1.26	1.26	1.14	1.26	1.26	1.26	1.26	1.14	1.26	1.26	1.26	1.26	1.14	1.26	1.26	1.26	1.26		
B. Cropland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
C. Grassland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
D. Wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
E. Settlements	19.42	18.83	19.33	19.95	20.80	19.42	18.83	19.33	19.95	20.80	19.42	18.83	19.33	19.95	20.80	19.42	18.83	19.33	19.95	20.80	19.42	18.83	19.33	19.95	20.80	19.42	18.83	19.33	19.95	20.80		
F. Other Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0														

Inventory 2004
Substatus 2005 v.1.1
UNITED STATES OF AMERICA

TABLE 10 EMISSION TRENDS (HFCs, PFCs and SF₆)
(Sheet 4 of 5)
(Part 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year (1990)	Gt										
		1991	1992	1993	1994	1995	1996	1997	1998	1999		
Excludes of HFC ¹⁹ - (6g CO ₂ equivalent)	35,551.51	31,493.24	37,133.47	36,712.48	41,494.53	51,441.45	66,072.81	75,491.05	95,856.44	93,632.22		
HFC-23	3.01	2.65	3.06	2.74	2.72	2.34	2.66	2.60	3.47	2.64		
HFC-32	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO		
HFC-41	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO		
HFC-43-10trans	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO		
HFC-125	IE,NA,NO	IE,NA,NO	8.21	8.48	8.79	1.39	1.87	2.52	3.13	3.57		
HFC-134	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO		
HFC-134a	IE,NA,NO	IE,NA,NO	8.49	1.75	4.62	13.83	18.48	23.36	27.06	30.96		
HFC-152a	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO		
HFC-143	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO		
HFC-143a	IE,NA,NO	IE,NA,NO	0.01	0.09	0.20	0.57	0.85	1.37	1.77	1.34		
HFC-227ea	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO		
HFC-236fa	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	0.86	0.14		
HFC-245fa	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO	CJ,NA,NO		
Unspecified mix of listed HFC ¹⁹ - (6g CO ₂ equivalent)	292.46	742.33	822.62	903.28	976.38	1,492.29	1,219.83	3,943.05	4,414.82	4,787.06		
Excludes of PFC ²⁰ - (6g CO ₂ equivalent)	20,444.79	17,818.59	16,296.46	16,524.45	15,171.29	15,635.82	16,684.49	15,825.08	14,493.39	14,466.37		
CF ₄	2.60	2.22	2.06	2.02	1.81	1.82	1.93	1.76	1.53	1.53		
C ₂ F ₆	0.40	0.37	0.35	0.37	0.37	0.42	0.43	0.47	0.50	0.50		
C ₃ F ₈	0.00	0.00	0.00	0.00	0.00	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO		
C ₄ F ₁₀	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO		
i-C ₄ F ₁₀	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO		
C ₅ F ₁₂	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO		
C ₆ F ₁₄	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO	CJ,NA,NE,NO		
Unspecified mix of listed PFC ²⁰ - (6g CO ₂ equivalent)	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO		
Excludes of SF ₆ ²¹ - (6g CO ₂ equivalent)	34,564.05	32,948.69	36,032.32	35,096.22	32,404.81	27,749.39	31,259.68	28,748.82	23,849.12	23,438.35		
SF ₆	1.45	1.38	1.28	1.47	1.35	1.16	1.21	1.20	1.00	0.91		

Note: All brackets for this table are g/tm at the end of the table on sheet 5.

Inventory 2004
 Submission 2006 v.1.1
 UNITED STATES OF AMERICA

TABLE 10 EMISSION TRENDS (HFCs, PFCs and SF₆)
 (Sheet 4 of 5)
 (Part 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Gg							Change from base to latest reported year	%
	2000	2001	2002	2003	2004	2005	2006		
Emissions of HFC ^g , (6g CO ₂ equivalent)	101,239.68	99,642.84	106,169.33	105,994.75	119,091.97			234.08	
HFC-23	2.57	1.71	1.71	1.08	1.36			-54.75	
HFC-32	0.44	0.46	0.50	0.76	0.63			100.00	
HFC-41	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO			0.00	
HFC-43-1b,ase	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO			0.00	
HFC-125	4.01	4.39	4.79	5.26	5.82			100.00	
HFC-134	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO			0.00	
HFC-134a	34.05	38.10	41.17	43.66	47.39			100.00	
HFC-152a	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO			0.00	
HFC-143	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO			0.00	
HFC-149a	2.16	2.65	3.29	3.83	4.54			100.00	
HFC-227aa	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO			0.00	
HFC-236fa	0.21	0.28	0.34	0.37	0.37			100.00	
HFC-245aa	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO			0.00	
Unspecified mix of linear HFC ^g , (6g CO ₂ equivalent)	4,647.92	4,301.66	4,583.99	4,641.82	5,387.85			1,247.35	
Emissions of PFC ^g , (6g CO ₂ equivalent)	13,092.62	7,256.96	8,774.61	7,119.14	6,656.97			-68.87	
CF ₄	1.52	0.74	0.88	0.67	0.56			-78.57	
C ₂ F ₆	0.42	0.29	0.32	0.28	0.29			-27.83	
C ₃ F ₈	0.02	0.01	0.01	0.01	0.01			1,248.84	
C ₄ F ₁₀	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,NA,NE,NO			0.00	
o-C ₃ F ₆	C,IE,NA,NE,NO	C,IE,NA,NE,NO	0.01	0.01	0.01			100.00	
C ₂ F ₄	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,NA,NE,NO			0.00	
C ₃ F ₆	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,NA,NE,NO			0.00	
Unspecified mix of linear PFC ^g , (6g CO ₂ equivalent)	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO	NA,NE,NO			0.00	
Emissions of SF ₆ ^g , (6g CO ₂ equivalent)	19,557.46	18,676.85	17,782.52	17,896.33	17,454.48			-49.59	
SF ₆	0.82	0.78	0.74	0.75	0.75			-49.59	

Note: All footnotes for this table are given at the end of the table on sheet 5.

Inventory 2004
Submission 2006 v.1.1
UNITED STATES OF AMERICA

TABLE 10 EMISSION TRENDS (SUMMARY)
(Sheet 5 of 5)
(Part 1 of 2)

GREENHOUSE GAS EMISSIONS	Gg CO ₂ equivalent										
	Base year (1990)	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
CO ₂ emissions (including net CO ₂ from LULUCF) ⁽¹⁾	4,894,881.79	4,855,321.56	4,182,890.35	4,435,237.58	4,222,812.55	4,716,402.73	4,904,278.32	4,939,196.13	4,876,134.61	4,829,347.08	4,829,347.08
CO ₂ emissions (excluding net CO ₂ from LULUCF) ⁽²⁾	5,845,254.88	4,961,857.00	5,657,894.49	5,187,266.81	5,271,653.98	5,232,288.39	5,508,738.27	5,580,868.38	5,620,176.12	5,695,039.42	5,695,039.42
CH ₄	618,963.64	618,175.60	619,249.88	606,887.38	612,384.39	606,943.43	599,002.82	588,825.41	579,475.17	586,972.00	586,972.00
N ₂ O	394,880.95	409,620.24	385,492.73	436,629.23	464,135.58	454,233.47	462,888.38	420,488.34	440,624.59	419,369.57	419,369.57
HFCs	35,551.51	31,893.24	37,102.47	36,712.80	41,484.53	51,441.45	66,072.83	75,491.05	95,026.44	95,632.22	95,632.22
PFCS	28,444.70	17,818.50	16,586.66	16,534.45	15,171.39	15,633.82	16,684.40	15,823.08	14,493.78	14,466.27	14,466.27
SF ₆	34,564.95	32,940.49	36,632.32	35,096.22	32,464.81	37,749.16	31,229.08	28,748.02	25,840.12	25,428.35	25,428.35
Total (including net CO ₂ from LULUCF) ⁽³⁾	5,198,587.53	5,183,599.83	5,271,712.81	5,589,196.83	5,629,317.64	5,968,498.16	6,080,855.93	6,068,974.03	6,029,624.51	6,049,215.49	6,049,215.49
Total (excluding net CO ₂ from LULUCF) ⁽⁴⁾	6,188,946.63	6,872,885.27	6,146,218.66	6,233,166.27	6,277,158.87	6,483,195.87	6,684,705.88	6,716,146.38	6,775,666.22	6,814,907.83	6,814,907.83

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Gg CO ₂ equivalent										
	Base year (1990)	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
1. Energy	5,143,103.53	5,115,586.86	5,212,562.19	5,235,463.07	5,412,571.48	5,466,523.41	5,655,753.34	5,716,363.59	5,752,399.19	5,822,264.53	5,822,264.53
2. Industrial Processes	260,386.47	281,597.15	281,483.18	284,158.97	354,071.53	369,874.35	321,516.51	327,488.97	335,054.48	327,471.02	327,471.02
3. Solvent and Other Product Use	4,388.23	4,188.79	3,941.89	4,478.43	4,478.42	4,478.42	4,479.42	4,479.42	4,766.04	4,766.04	4,766.04
4. Agriculture	438,588.46	453,299.66	426,487.72	489,328.15	443,438.07	492,994.78	494,789.12	457,325.58	483,223.40	463,084.23	463,084.23
5. Land Use, Land-Use Change and Forestry ⁽⁵⁾	-964,685.37	-982,752.89	-866,779.51	-745,023.21	-741,541.75	-668,739.52	-597,452.85	-634,696.29	-397,997.47	-399,025.00	-399,025.00
6. Waste	206,897.59	211,438.67	213,012.35	213,766.43	213,288.89	307,275.86	203,770.39	197,896.14	191,818.87	190,855.07	190,855.07
7. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total (including LULUCF) ⁽⁶⁾	5,198,587.53	5,183,599.83	5,271,712.81	5,589,196.83	5,629,317.64	5,968,498.16	6,080,855.93	6,068,974.03	6,029,624.51	6,049,215.49	6,049,215.49

TABLE 10 EMISSION TRENDS (SUMMARY)
Inventory 2004
Submission 2005 v.1.1
UNITED STATES OF AMERICA

GREENHOUSE GAS EMISSIONS	Gg CO ₂ equivalent						Change from base to latest reported year (%)
	2000	2001	2002	2003	2004	2004	
CO ₂ emissions including net CO ₂ from LULUCF ^(a)	5,104,658.23	5,027,264.79	5,047,239.39	5,102,826.71	5,207,890.25	5,207,890.25	27.18
CO ₂ emissions excluding net CO ₂ from LULUCF ^(b)	5,894,464.88	5,795,192.22	5,813,888.98	5,877,677.37	5,987,384.41	5,987,384.41	19.63
CH ₄	566,048.92	560,218.04	559,804.46	564,371.10	556,337.49	556,337.49	-0.92
N ₂ O	416,207.67	412,828.33	407,398.83	356,076.78	388,215.91	388,215.91	-2.07
HFCs	101,239.00	98,642.84	106,169.33	105,994.75	119,891.97	119,891.97	234.98
PFCs	13,892.62	7,238.96	8,774.61	7,119.14	6,426.97	6,426.97	-68.87
SF ₆	19,457.46	18,678.05	17,763.52	17,898.53	17,454.45	17,454.45	-49.30
Total (including net CO ₂ from LULUCF ^(a))	6,222,795.90	6,125,138.93	6,147,158.12	6,184,290.81	6,294,315.94	6,294,315.94	21.08
Total (including net CO ₂ from LULUCF ^{(a),(b)})	6,063,903.45	6,003,137.35	6,015,796.70	6,049,137.68	6,174,499.20	6,174,499.20	15.80

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Gg CO ₂ equivalent						Change from base to latest reported year (%)
	2000	2001	2002	2003	2004	2004	
1. Energy	5,994,287.86	5,921,601.78	5,944,647.79	6,000,767.97	6,108,190.96	6,108,190.96	18.64
2. Industrial Processes	329,589.05	300,735.53	316,949.28	304,102.06	320,654.33	320,654.33	6.49
3. Solvent and Other Product Use	4,766.04	4,766.04	4,766.04	4,766.04	4,766.04	4,766.04	10.83
4. Agriculture	458,438.83	463,383.11	457,789.00	459,089.67	440,124.54	440,124.54	0.13
5. Land Use, Land-Use Change and Forestry ^(c)	-753,132.79	-761,778.57	-762,249.18	-768,270.68	-773,254.52	-773,254.52	-14.23
6. Waste	188,846.89	186,414.02	191,375.18	194,834.93	193,831.69	193,831.69	-7.70
7. Other	NA	NA	NA	NA	NA	NA	0.00
Total (including LULUCF ^(d))	6,222,795.90	6,125,138.93	6,147,158.12	6,184,290.81	6,294,315.94	6,294,315.94	21.08

^(a) The column "Base year" should be filled in only by those Parties with emissions in transition that use a base year different from 1990 in accordance with the relevant decisions of the COP. For those Parties, this different base year is used to calculate the percentage change in the first column of this table.

^(b) Fill in net emissions/removals as reported in table Summary 1-A. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

^(c) The information in these rows is requested to facilitate comparison of data. Because Parties differ in the way they report CO₂ emissions and removals from LULUCF.

^(d) These actual emissions estimates are available; these should be reported in this table and as an indication for this should be provided in the documentation box. Only in these rows are the emissions expressed as CO₂ equivalent emissions.

^(e) In accordance with the UNFCCC reporting guidelines, HFC and PFC emissions should be reported for each relevant chemical. However, if it is not possible to report values for each chemical (i.e., emissions, confidential data, lack of disaggregation), this row should be used for reporting aggregate figures for HFCs and PFCs, respectively. Note that the unit used for this row is Gg of CO₂ equivalent and that appropriate notation keys should be entered in the cells for the individual chemicals.

^(f) These totals will differ from the totals reported in table Summary 2 if Parties report net-CO₂ emissions from LULUCF.

^(g) Includes net CO₂, CH₄, and N₂O from LULUCF.

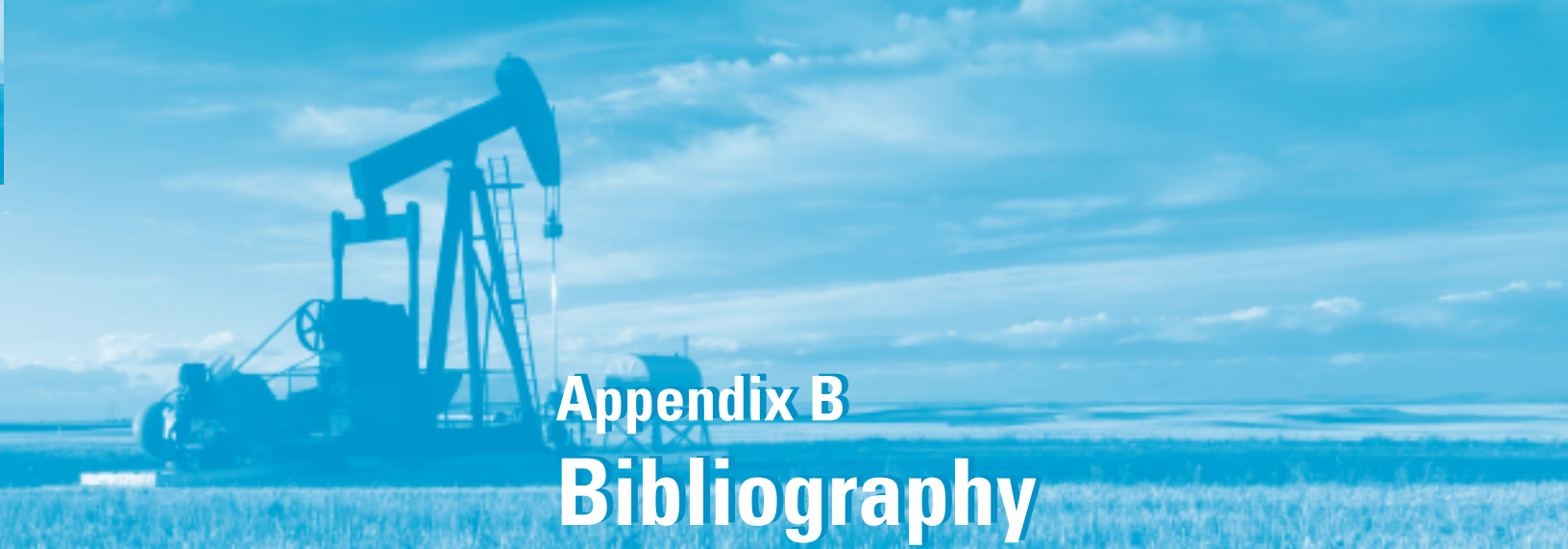
Documentation box:

- Parties should provide detailed explanations on emissions trends in Chapter 2: Trends in Greenhouse Gas Emissions and, as appropriate, in the corresponding Chapters 3 - 9 of the NIR. Use this documentation box to provide references to relevant sections.
- Use the documentation box to provide explanations if percent of emissions are reported.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ ⁽¹⁾	CH ₄	N ₂ O	HFCS ⁽²⁾	FFC ⁽³⁾	SF ₆ ⁽⁴⁾	Total
	Gg CO ₂ equivalent						
Total (Net Emissions)⁽⁵⁾	5,287,890.25	586,737.49	386,713.91	119,891.97	6,426.97	17,454.45	6,374,515.04
1. Energy	5,835,334.67	319,821.24	57,037.65				6,106,192.96
A. Fuel Combustion (Sectoral Approach)	5,835,330.81	9,378.42	57,037.65				5,899,716.28
1. Energy Industries	2,290,419.61	782.00	9,374.38				2,300,695.98
2. Manufacturing Industries and Construction	883,481.40	2,527.16	4,224.98				870,013.53
3. Transport	1,825,631.34	2,659.01	41,259.18				1,869,640.54
4. Other Sectors	585,545.26	3,668.62	1,142.48				600,334.36
5. Other	354,003.29	92.64	938.03				355,031.87
B. Fugitive Emissions from Fuels	6,033.85	309,442.82	IE,NA,NE				212,476.67
1. Solid Fuels	61,975.37	NE	NE				151,901.40
2. Oil and Natural Gas	6,033.85	144,467.54	IE,NA,NE				150,501.40
2. Industrial Processes	182,649.34	2,678.47	32,266.72	119,891.97	6,426.97	17,454.45	326,654.33
A. Mineral Products	78,163.13	IE	IE				70,163.13
B. Chemical Industry	24,728.25	1,625.59	32,266.72	IE,NA	IE,NA	IE,NA	48,244.67
C. Metal Production	57,728.28	1,044.88	IE,NA	IE,NA	2,868.15	2,764.92	64,326.24
D. Other Production	NE						NE
E. Production of Halocarbons and SF ₆				15,666.73	NA,NE	NA,NE	15,666.73
F. Consumption of Halocarbons and SF ₆ ⁽⁶⁾				101,491.24	5,578.82	14,749.50	121,819.56
G. Other	NA,NO	NA,NO	NA,NO	NA	NA	NA	NA,NO
3. Solvent and Other Product Use	4,766.04						4,766.04
4. Agriculture	169,438.74	279,686.89					449,124.54
A. Enteric Fermentation	112,609.58						112,609.58
B. Manure Management	39,284.41	17,684.43					57,068.84
C. Rice Cultivation	7,567.75						7,567.75
D. Agricultural Soils ⁽⁷⁾	NA,NE	261,406.40					261,406.40
E. Precombustion Burning of Biomass	NA	NA					NA
F. Field Burning of Agricultural Residues	877.00	514.97					1,391.97
G. Other	NA	NA					NA
5. Land Use, Land-Use Change and Forestry⁽⁸⁾	-786,094.17	NA,NE	6,839.65				-779,254.52
A. Forest Land	-433,193.28	NA,NE	391.87				-419,803.71
B. Cropland	-31,759.31	NA,NE	IE,NA,NE				-31,759.31
C. Grassland	-13,859.93	NA,NE	NA,NE				-13,859.92
D. Wetlands	NA,NE	NA,NE	NA,NE				NA,NE
E. Settlements	-97,211.28	NA,NE	6,447.77				-90,863.51
F. Other Land	NE	NE	NE				NE
G. Other	NE	NE	NE				NE
6. Waste	IE,NA	177,807.05	16,824.84				193,831.89
A. Solid Waste Disposal on Land	NA	140,888.15					140,888.15
B. Waste-water Handling	36,918.90	16,026.64					52,945.54
C. Waste Incineration	IE	NE	IE				IE,NE
D. Other	NA	NA	IE				IE,NA
7. Other (as specified in Inventory L.A.)	NA	NA	NA	NA	NA	NA	NA
Minus Items⁽⁹⁾							
International bunkers	94,498.89	105.40	853.72				95,458.00
Aircraft	39,911.60	586.63					40,538.23
Marine	34,587.29	70.71	265.99				34,923.98
Maritime Operations	NE	NE	NE				NE
CO ₂ Emissions from Biomass	211,239.93						211,239.93

Total CO₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry⁽¹⁾ 7,067,569.56
Total CO₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry⁽¹⁾ 6,294,315.04

(1) For CO₂ from Land Use, Land-Use Change and Forestry the net emissions/removed are to be reported. For the purposes of reporting, the sign for removals are always negative (-) and for emissions positive (+).
(2) Partial emissions should be included in the national total. If no actual emissions were reported, potential emissions should be included.
(3) Partials which previously reported CO₂ from soils in the Agriculture sector should not be included.
(4) See footnote 8 to table 3 inventory L.A.
(5) These totals will differ from the totals reported in table 10, sheet 3 if Parties report net-CO₂ emissions from LULUCF.



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