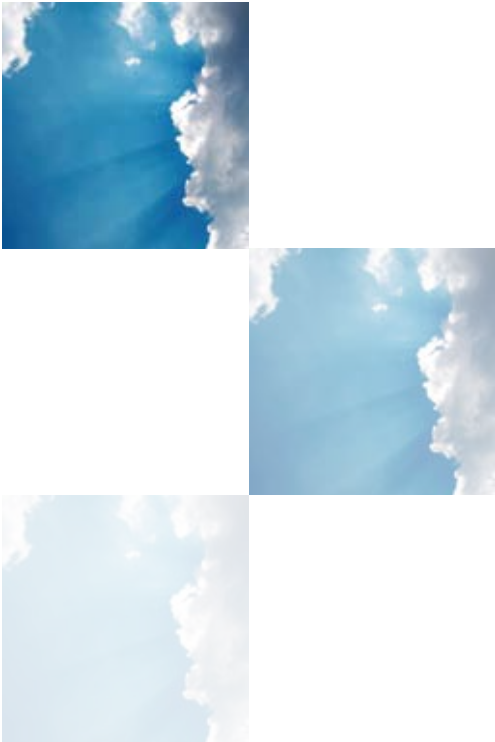


Appendices



Appendix A: Emission Trends



TABLE 10 EMISSION TRENDS
CO₂
(Part 1 of 2)

Inventory 2007
Submission 2009 v.1.1
UNITED STATES OF AMERICA

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year (1990)		1991		1992		1993		1994		1995		1996		1997		1998		1999		
	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	
1. Energy	4,870,953.27	4,836,985.34	4,936,119.34	5,063,791.85	5,149,752.90	5,201,233.13	5,375,999.90	5,464,586.29	5,497,051.13	5,577,645.24											
A. Fuel Combustion (Sectoral Approach)	4,836,644.15	4,803,782.01	4,903,586.99	5,029,995.51	5,115,919.64	5,167,081.83	5,344,184.55	5,432,694.24	5,467,404.39	5,547,011.49											
1. Energy Industries	1,820,634.08	1,818,266.55	1,829,956.81	1,912,854.25	1,938,171.63	1,954,374.11	2,028,073.81	2,097,640.10	2,185,937.48	2,196,703.57											
2. Manufacturing Industries and Construction	834,203.71	820,587.80	859,330.47	845,258.56	854,409.80	862,557.10	896,469.91	900,700.99	853,831.95	828,918.19											
3. Transport	1,436,605.15	1,396,509.98	1,446,753.58	1,492,574.68	1,536,849.54	1,567,436.09	1,603,248.65	1,627,139.89	1,650,444.90	1,720,181.80											
4. Other Sectors	552,559.71	566,412.85	571,144.07	585,555.67	577,249.83	578,843.59	619,202.36	596,848.13	549,032.05	569,344.17											
5. Other	193,141.50	201,944.84	196,404.07	195,752.36	209,238.84	203,670.93	197,189.84	210,365.15	228,168.01	231,865.76											
B. Fugitive Emissions from Fuels	34,109.12	33,203.32	32,530.35	33,796.33	33,833.26	34,151.30	31,664.05	29,646.74	29,646.74	30,633.76											
1. Solid Fuels	IE,NE,NO	IE,NE,NO	IE,NE,NO	IE,NE,NO	IE,NE,NO	IE,NE,NO	IE,NE,NO	IE,NE,NO	IE,NE,NO	IE,NE,NO											
2. Oil and Natural Gas	34,109.12	33,203.32	32,530.35	33,796.33	33,833.26	34,151.30	31,664.05	29,646.74	29,646.74	30,633.76											
2. Industrial Processes	197,622.92	185,599.17	188,123.22	185,342.00	191,408.79	198,584.35	198,200.97	201,177.86	197,639.68	194,664.61											
A. Mineral Products	54,079.29	52,453.88	53,152.90	54,951.90	57,411.73	61,127.15	62,617.93	63,099.61	65,031.29	66,054.32											
B. Chemical Industry	23,566.36	23,369.71	24,588.15	24,770.76	25,900.88	25,335.69	25,304.46	27,055.43	25,609.06	25,609.06											
C. Metal Production	119,977.27	109,775.58	110,382.17	105,619.33	108,096.18	112,121.50	110,278.58	111,602.36	105,552.95	103,001.23											
D. Other Production	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE											
E. Production of Halocarbons and SF ₆																					
F. Consumption of Halocarbons 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,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. Prescribed Burning of Savannas																					
F. Field Burning of Agricultural Residues																					
G. Other																					
5. Land Use, Land-Use Change and Forestry^(b)	-833,312.75	-851,158.63	-837,851.17	-779,963.93	-904,804.98	-842,885.19	-761,102.39	-836,046.07	-732,305.85	-686,851.10											
A. Forest Land	-529,273.49	-571,489.63	-564,608.35	-524,816.68	-563,902.11	-568,151.87	-543,329.69	-566,674.83	-500,461.50	-435,441.31											
B. Cropland	-20,175.45	-22,118.72	-33,574.35	-35,057.79	-36,745.27	-12,947.30	-21,148.24	-19,889.29	-16,014.07	-5,877.31											
C. Grassland	-69,001.74	-49,703.91	-29,828.28	-13,972.28	-96,315.76	-58,906.42	-113.60	-45,106.17	-12,728.90	-47,943.69											
D. Wetlands	1,033.48	962.28	919.55	980.58	937.87	1,017.94	872.25	1,037.48	1,084.22	1,154.91											
E. Settlements	-60,648.74	-62,825.20	-65,001.67	-67,178.13	-69,354.39	-71,531.05	-73,707.52	-75,883.98	-78,060.44	-80,236.90											
F. Other Land	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE											
G. Other	-155,246.82	-145,983.44	-145,758.07	-139,919.64	-139,425.12	-132,366.49	-123,675.60	-129,329.28	-126,125.16	-130,261.42											
6. Waste	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											
A. Solid Waste Disposal on Land	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE											
B. Waste-water Handling	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE											
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 L₁)																					
Total CO₂ emissions including net CO₂ from LULUCF	4,235,263.44	4,171,425.88	4,286,391.39	4,469,169.91	4,436,356.71	4,556,932.29	4,813,098.48	4,829,490.08	4,962,384.96	5,085,458.75											
Total CO₂ emissions excluding net CO₂ from LULUCF	5,068,576.19	5,022,584.51	5,124,242.56	5,249,133.85	5,341,161.69	5,399,817.48	5,574,200.87	5,665,536.15	5,694,690.81	5,772,309.85											
Memo Items:																					
International Bankers	114,329.60	123,567.53	115,588.68	104,003.73	106,489.22	101,620.41	108,308.43	111,092.04	120,332.95	102,459.82											
Aviation	46,377.60	49,489.37	52,132.13	51,205.39	56,297.74	51,195.57	57,693.42	56,587.38	61,848.03	55,561.92											
Marine	67,952.00	74,078.16	63,456.54	52,798.34	50,191.48	50,424.84	50,615.00	54,504.66	58,484.91	46,897.90											
CO₂ Emissions from Biomass	219,340.79	220,082.20	230,513.03	223,686.48	232,174.48	236,774.53	241,236.81	235,458.98	218,102.50	221,354.19											

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

TABLE 10 EMISSION TRENDS
CO₂
(Part 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2000		2001		2002		2003		2004		2005		2006		2007		Change from base to latest reported year
	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	
1. Energy	5,753,192.29	5,676,392.94	5,725,316.43	5,785,075.45	5,865,681.40	5,910,830.29	5,830,206.44	5,919,451.52	5,830,206.44	5,919,451.52	5,830,206.44	5,919,451.52	5,830,206.44	5,919,451.52	5,830,206.44	5,919,451.52	21.53
A. Fuel Combustion (Sectoral Approach)	5,723,473.25	5,647,271.04	5,695,363.30	5,756,310.03	5,837,253.92	5,881,080.19	5,800,139.21	5,890,484.85	5,800,139.21	5,890,484.85	5,800,139.21	5,890,484.85	5,800,139.21	5,890,484.85	5,800,139.21	5,890,484.85	21.78
I. Energy Industries	2,300,662.09	2,263,809.72	2,273,168.45	2,302,469.44	2,333,871.91	2,400,534.15	2,347,137.23	2,417,976.57	2,333,871.91	2,417,976.57	2,333,871.91	2,417,976.57	2,333,871.91	2,417,976.57	2,333,871.91	2,417,976.57	32.81
2. Manufacturing Industries and Construction	844,553.58	839,115.92	842,053.96	844,277.95	844,607.28	828,008.27	844,505.28	845,415.82	844,607.28	845,415.82	844,505.28	845,415.82	844,505.28	845,415.82	844,505.28	845,415.82	1.34
3. Transport	1,772,568.94	1,748,893.27	1,786,899.10	1,782,181.60	1,830,672.19	1,855,548.29	1,838,382.71	1,864,111.44	1,830,672.19	1,864,111.44	1,838,382.71	1,864,111.44	1,838,382.71	1,864,111.44	1,838,382.71	1,864,111.44	29.76
4. Other Sectors	597,284.45	582,938.69	581,272.90	579,796.52	595,566.44	579,796.52	595,566.44	579,796.52	595,566.44	579,796.52	595,566.44	579,796.52	595,566.44	579,796.52	595,566.44	579,796.52	0.49
5. Other	208,404.20	212,513.44	211,968.88	212,513.44	212,513.44	212,513.44	212,513.44	212,513.44	212,513.44	212,513.44	212,513.44	212,513.44	212,513.44	212,513.44	212,513.44	212,513.44	7.70
B. Fugitive Emissions from Fuels	29,719.04	29,121.90	29,953.13	28,765.42	28,427.48	29,750.10	29,827.23	28,966.67	28,427.48	29,750.10	29,827.23	28,966.67	28,427.48	29,750.10	29,827.23	28,966.67	-15.08
I. Solid 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	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	0.00
2. Oil and Natural Gas	29,719.04	29,121.90	29,953.13	28,765.42	28,427.48	29,750.10	29,827.23	28,966.67	28,427.48	29,750.10	29,827.23	28,966.67	28,427.48	29,750.10	29,827.23	28,966.67	-15.08
2. Industrial Processes	193,216.55	174,662.49	173,359.36	168,930.68	173,691.29	171,074.83	175,897.22	174,938.59	173,691.29	171,074.83	175,897.22	174,938.59	173,691.29	171,074.83	175,897.22	174,938.59	-11.48
A. Mineral Products	64,314.74	63,868.84	65,321.71	65,056.15	70,248.55	71,285.60	73,859.38	69,442.20	70,248.55	71,285.60	73,859.38	69,442.20	70,248.55	71,285.60	73,859.38	69,442.20	28.41
B. Chemical Industry	24,210.16	20,080.99	21,391.06	19,886.44	19,886.44	20,334.61	19,832.55	21,526.11	21,016.52	20,334.61	19,832.55	21,526.11	19,832.55	21,526.11	19,832.55	21,526.11	-8.66
C. Metal Production	104,491.64	90,712.66	86,646.59	83,988.09	82,426.22	79,454.62	82,205.28	83,970.28	82,426.22	79,454.62	82,205.28	83,970.28	82,426.22	79,454.62	82,205.28	83,970.28	-30.01
D. Other Production	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0.00
E. Production of Halocarbons and SF ₆																	
F. Consumption of Halocarbons 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	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	0.00
3. 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	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	0.00
4. Agriculture																	
A. Enteric Fermentation																	
B. Manure Management																	
C. Rice Cultivation																	
D. Agricultural Soils																	
E. Prescribed Burning of Savannas																	
F. Field Burning of Agricultural Residues																	
G. Other																	
5. Land Use, Land-Use Change and Forestry^(b)	-708,737.38	-736,975.85	-1,019,122.24	-1,256,125.55	-1,285,822.59	-1,113,812.87	-1,041,773.03	-1,053,548.12	-1,285,822.59	-1,113,812.87	-1,041,773.03	-1,053,548.12	-1,285,822.59	-1,113,812.87	-1,041,773.03	-1,053,548.12	26.43
A. Forest Land	-399,675.24	-489,904.29	-754,103.55	-1,028,558.70	-1,044,794.02	-871,739.16	-791,694.96	-809,631.52	-1,044,794.02	-871,739.16	-791,694.96	-809,631.52	-1,044,794.02	-871,739.16	-791,694.96	-809,631.52	52.97
B. Cropland	-20,272.80	-845.54	1,873.13	-3,472.07	-4,619.69	-4,465.72	-5,247.42	-5,698.80	-4,619.69	-4,465.72	-5,247.42	-5,698.80	-4,619.69	-4,465.72	-5,247.42	-5,698.80	-71.75
C. Grassland	-83,352.93	-57,734.31	-71,396.80	-31,199.75	-31,240.83	-31,290.80	-31,326.57	-31,362.65	-31,240.83	-31,290.80	-31,326.57	-31,362.65	-31,240.83	-31,290.80	-31,326.57	-31,362.65	-54.55
D. Wetlands	1,227.28	1,140.27	1,000.95	983.07	1,094.82	1,078.91	878.94	1,010.50	1,094.82	1,078.91	878.94	1,010.50	1,094.82	1,078.91	878.94	1,010.50	-2.22
E. Settlements	-82,413.36	-84,589.83	-86,766.29	-88,942.75	-91,119.21	-93,295.68	-95,472.14	-97,648.60	-91,119.21	-93,295.68	-95,472.14	-97,648.60	-91,119.21	-93,295.68	-95,472.14	-97,648.60	61.01
F. Other Land	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0.00
G. Other	-124,250.32	-105,042.16	-109,729.67	-104,935.34	-115,243.66	-114,100.42	-118,910.87	-110,217.05	-115,243.66	-114,100.42	-118,910.87	-110,217.05	-115,243.66	-114,100.42	-118,910.87	-110,217.05	-29.01
6. Waste	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	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	0.00
A. Solid Waste Disposal on Land	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	NA,NE	0.00
B. Waste-water Handling																	
C. Waste Incineration	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	0.00
D. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
7. Other (as specified in Summary L4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
Total CO₂ emissions including net CO₂ from LULUCF	5,237,671.46	5,114,079.58	4,697,880.58	4,697,880.58	4,753,550.10	4,964,330.63	4,964,330.63	5,040,841.99	4,753,550.10	4,964,330.63	4,964,330.63	5,040,841.99	4,964,330.63	4,964,330.63	5,040,841.99	5,040,841.99	19.02
Total CO₂ emissions excluding net CO₂ from LULUCF	5,946,408.84	5,851,055.43	5,898,675.79	5,954,006.13	6,039,272.69	6,081,905.12	6,006,103.66	6,094,390.11	6,039,272.69	6,081,905.12	6,006,103.66	6,094,390.11	6,039,272.69	6,081,905.12	6,006,103.66	6,094,390.11	20.24
Memo Items:																	
International Bankers	98,965.90	97,046.95	104,628.27	100,392.03	114,869.20	111,487.07	110,519.62	108,755.77	114,869.20	111,487.07	110,519.62	108,755.77	114,869.20	111,487.07	110,519.62	108,755.77	-4.88
Aviation	57,693.74	58,180.80	62,215.60	55,615.00	60,784.92	56,423.97	54,563.91	52,739.81	60,784.92	56,423.97	54,563.91	52,739.81	60,784.92	56,423.97	54,563.91	52,739.81	13.72
Marine	41,272.16	38,866.16	41,412.67	44,777.03	54,084.29	55,063.10	55,955.71	56,015.96	54,084.29	55,063.10	55,955.71	56,015.96	54,084.29	55,063.10	55,955.71	56,015.96	-17.57
Multilateral Operations	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0.00
CO₂ Emissions from Biomass	227,276.44	203,163.58	204,350.53	209,537.43	224,825.39	231,481.40	240,385.63	247,829.09	224,825.39	231,481.40	240,385.63	247,829.09	224,825.39	231,481.40	240,385.63	247,829.09	12.99

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

TABLE 10 EMISSION TRENDS
CH₄
(Part 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year (1990)										1999
	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	
1. Energy	12,651.30	12,582.00	12,088.81	12,076.10	11,969.96	12,064.61	11,871.58	11,677.96	11,257.74		
A. Fuel Combustion (Sectoral Approach)	577.52	578.38	590.88	553.71	546.77	551.23	510.59	475.04	470.87		
1. Energy Industries	26.99	26.69	26.83	28.61	27.45	28.25	29.57	31.54	31.57		
2. Manufacturing, Industries and Construction	82.52	81.01	83.52	87.00	88.63	90.19	91.98	86.30	86.04		
3. Transport	213.73	207.45	204.47	200.47	194.20	185.55	176.68	167.56	157.24		
4. Other Sectors	250.56	259.58	269.33	233.85	233.00	243.63	208.93	186.18	192.57		
5. Other	3.86	3.71	3.74	3.77	3.48	3.33	3.43	3.46	3.46		
B. Fugitive Emissions from Fuels	12,073.98	12,003.42	11,897.93	11,522.39	11,423.20	11,513.38	11,360.99	11,202.92	10,786.87		
1. Solid Fuels	4,290.85	4,155.70	4,077.32	3,631.23	3,585.27	3,583.39	3,521.73	3,508.75	3,329.88		
2. Oil and Natural Gas	7,783.13	7,847.72	7,820.61	7,891.16	7,837.92	7,929.99	7,839.26	7,694.17	7,457.00		
2. Industrial Processes	88.46	85.23	89.35	97.71	100.30	101.31	104.49	104.76	103.41		
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA		
B. Chemical Industry	46.24	44.19	45.30	51.81	53.02	55.37	58.40	59.96	60.38		
C. Metal Production	46.24	41.04	44.05	45.90	47.28	45.93	46.09	44.80	43.04		
D. Other Production											
E. Production of Halocarbons and SF ₆											
F. Consumption of Halocarbons and SF ₆											
G. Other	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO		
3. Solvent and Other Product Use	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO		
4. Agriculture	8,161.33	8,230.38	8,419.81	8,713.50	8,873.04	8,643.59	8,643.63	8,751.29	8,715.01		
A. Enteric Fermentation	6,342.30	6,357.38	6,557.05	6,687.95	6,837.01	6,723.17	6,894.89	6,528.64	6,498.54		
B. Manure Management	1,446.92	1,509.02	1,451.75	1,491.07	1,641.54	1,577.75	1,655.91	1,806.70	1,784.94		
C. Rice Cultivation	339.21	333.19	374.79	391.13	362.90	331.75	356.24	376.26	394.87		
D. Agricultural Soils	NA,NAE	NA,NAE	NA,NAE	NA,NAE	NA,NAE	NA,NAE	NA,NAE	NA,NAE	NA,NAE		
E. Prescribed Burning of Savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA		
F. Field Burning of Agricultural Residues	32.89	30.80	36.22	38.82	31.59	35.92	36.60	37.69	36.66		
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA		
5. Land Use, Land-Use Change and Forestry	218.36	190.15	284.79	175.92	228.85	228.85	162.34	217.74	227.75		
A. Forest Land	218.36	190.15	284.79	175.92	228.85	228.85	162.34	217.74	227.75		
B. Cropland	NE	NE	NE	NE	NE	NE	NE	NE	NE		
C. Grassland	NE	NE	NE	NE	NE	NE	NE	NE	NE		
D. Wetlands	NE	NE	NE	NE	NE	NE	NE	NE	NE		
E. Settlements	NE	NE	NE	NE	NE	NE	NE	NE	NE		
F. Other Land	NE	NE	NE	NE	NE	NE	NE	NE	NE		
G. Other	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO	NA,NAO		
6. Waste	8,240.20	8,328.94	8,406.04	8,370.05	8,098.92	7,937.43	7,619.79	7,306.02	7,243.56		
A. Solid Waste Disposal on Land	7,105.30	7,173.42	7,227.68	7,221.48	6,870.91	6,711.18	6,373.85	6,056.73	5,984.13		
B. Wastewater Handling	1,119.66	1,138.10	1,158.76	1,176.65	1,183.28	1,186.66	1,202.14	1,201.60	1,206.02		
C. Waste Incineration	NE	NE	NE	NE	NE	NE	NE	NE	NE		
D. Other	15.24	17.42	19.60	30.77	34.73	39.59	43.80	47.68	53.42		
7. Other (as specified in Summary L.4)	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Total CH₄ emissions including CH₄ from LULUCF	29,359.85	29,416.72	29,688.80	29,792.25	29,325.06	29,604.79	28,401.83	28,057.76	28,092.48		
Total CH₄ emissions excluding CH₄ from LULUCF	29,141.49	29,226.57	29,404.01	29,266.36	29,032.21	28,771.94	28,239.49	27,840.02	27,319.73		
Monitors:											
International Bankers	8.04	8.71	7.73	6.55	6.43	6.61	6.95	7.48	6.19		
Aviation	1.51	1.60	1.63	1.73	1.58	1.75	1.71	1.86	1.68		
Marine	6.53	7.11	6.10	4.82	4.86	4.86	5.24	5.63	4.51		
Multilateral Operations	NE	NE	NE	NE	NE	NE	NE	NE	NE		
CO₂ Emissions from Biomass											

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

TABLE 10. EMISSION TRENDS
CH₄
(Part 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2000		2001		2002		2003		2004		2005		2006		2007		Change from base to latest reported year	
	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	%
1. Energy	11,380.90	11,252.09	11,001.27	10,872.90	10,468.41	9,831.58	9,795.39	9,795.51	10,468.41	9,831.58	9,795.39	9,795.51	10,468.41	9,831.58	9,795.39	9,795.51	10,468.41	-22.57
A. Fuel Combustion (Sectoral Approach)	478.23	452.15	435.90	437.43	436.83	439.33	415.01	423.81	436.83	439.33	415.01	423.81	436.83	439.33	415.01	423.81	436.83	-26.62
1. Energy Industries	32.58	32.31	32.49	33.61	34.02	35.49	33.70	34.79	34.02	35.49	33.70	34.79	34.02	35.49	33.70	34.79	34.02	28.88
2. Manufacturing Industries and Construction	87.42	83.20	81.02	80.74	84.12	84.89	84.12	84.89	84.12	84.89	84.12	84.89	84.12	84.89	84.12	84.89	84.12	2.44
3. Transport	150.25	144.54	127.74	117.45	111.72	105.24	98.95	92.67	111.72	105.24	98.95	92.67	111.72	105.24	98.95	92.67	111.72	-56.64
4. Other Sectors	204.56	187.92	190.83	201.35	201.69	210.15	191.14	207.77	201.69	210.15	191.14	207.77	201.69	210.15	191.14	207.77	201.69	-17.08
5. Other	3.42	4.18	3.81	4.28	4.50	4.33	4.28	4.05	4.50	4.33	4.28	4.05	4.50	4.33	4.28	4.05	4.50	9.08
B. Fugitive Emissions from Fuels	10,902.67	10,799.94	10,565.37	10,435.47	10,031.58	9,392.24	9,380.39	9,371.69	10,031.58	9,392.24	9,380.39	9,371.69	10,031.58	9,392.24	9,380.39	9,371.69	10,031.58	-22.38
1. Solid Fuels	3,231.16	3,195.35	2,998.34	2,990.45	3,046.74	2,984.45	3,043.19	3,016.85	3,046.74	2,984.45	3,043.19	3,016.85	3,046.74	2,984.45	3,043.19	3,016.85	3,046.74	-29.69
2. Oil and Natural Gas	7,671.50	7,604.60	7,567.03	7,445.02	6,984.84	6,407.79	6,337.20	6,354.85	6,984.84	6,407.79	6,337.20	6,354.85	6,984.84	6,407.79	6,337.20	6,354.85	6,984.84	-18.35
2. Industrial Processes	103.73	93.84	93.61	92.34	98.45	86.16	83.25	82.46	98.45	86.16	83.25	82.46	98.45	86.16	83.25	82.46	98.45	-6.78
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
B. Chemical Industry	59.34	54.86	56.39	54.78	59.44	51.70	48.21	48.83	59.44	51.70	48.21	48.83	59.44	51.70	48.21	48.83	59.44	15.66
C. Metal Production	44.39	38.98	37.22	37.56	39.01	34.46	35.03	33.63	39.01	34.46	35.03	33.63	39.01	34.46	35.03	33.63	39.01	-27.27
D. Other Production	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
E. Production of Halocarbons and SF ₆	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
F. Consumption of Halocarbons and SF ₆	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
3. Solvent and Other Product Use	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
4. Agriculture	8,596.63	8,634.38	8,665.36	8,692.89	8,663.34	8,832.54	8,894.49	9,047.06	8,663.34	8,832.54	8,894.49	9,047.06	8,663.34	8,832.54	8,894.49	9,047.06	8,663.34	10.85
A. Enteric Fermentation	6,398.46	6,362.80	6,381.62	6,410.32	6,368.96	6,474.14	6,579.88	6,617.96	6,368.96	6,474.14	6,579.88	6,617.96	6,368.96	6,474.14	6,579.88	6,617.96	6,368.96	4.35
B. Manure Management	1,803.59	1,870.96	1,924.78	1,916.11	1,892.31	1,991.37	1,993.34	2,093.30	1,892.31	1,991.37	1,993.34	2,093.30	1,892.31	1,991.37	1,993.34	2,093.30	1,892.31	44.67
C. Rice Cultivation	356.84	363.78	325.20	328.37	328.37	325.20	328.37	328.37	328.37	325.20	328.37	328.37	328.37	325.20	328.37	328.37	328.37	-13.53
D. Agricultural Soils	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
E. Prescribed Burning of Savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
F. Field Burning of Agricultural Residues	37.73	36.84	33.77	38.09	41.84	40.93	39.30	42.47	41.84	40.93	39.30	42.47	41.84	40.93	39.30	42.47	41.84	29.14
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
5. Land Use, Land-Use Change and Forestry	982.60	573.34	863.00	553.19	313.62	676.21	1,488.53	1,381.15	313.62	676.21	1,488.53	1,381.15	313.62	676.21	1,488.53	1,381.15	313.62	532.51
A. Forest Land	982.60	573.34	863.00	553.19	313.62	676.21	1,488.53	1,381.15	313.62	676.21	1,488.53	1,381.15	313.62	676.21	1,488.53	1,381.15	313.62	532.51
B. Cropland	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
C. Grassland	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
D. Wetlands	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
E. Settlements	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
F. Other Land	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
6. Waste	7,083.96	6,926.00	7,038.35	7,346.49	7,252.75	7,321.56	7,451.46	7,566.06	7,038.35	7,346.49	7,451.46	7,566.06	7,038.35	7,346.49	7,451.46	7,566.06	7,038.35	-8.18
A. Solid Waste Disposal on Land	5,824.65	5,688.59	5,802.62	6,109.60	6,009.43	6,088.08	6,211.43	6,327.42	6,009.43	6,088.08	6,211.43	6,327.42	6,009.43	6,088.08	6,211.43	6,327.42	6,009.43	-10.95
B. Waste-water Handling	1,199.62	1,177.35	1,174.98	1,167.65	1,169.04	1,158.91	1,164.62	1,159.85	1,169.04	1,158.91	1,164.62	1,159.85	1,169.04	1,158.91	1,164.62	1,159.85	1,169.04	3.59
C. Waste Incineration	59.69	60.06	60.75	69.24	74.28	74.57	75.41	78.78	74.28	74.57	75.41	78.78	74.28	74.57	75.41	78.78	74.28	416.90
D. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
7. Other (as specified in Summary I.4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
Total CH₄ emissions including CH₄ from LULUCF	28,147.82	27,479.65	27,661.59	27,557.81	26,796.56	26,748.04	27,713.12	27,872.24	26,796.56	26,748.04	27,713.12	27,872.24	26,796.56	26,748.04	27,713.12	27,872.24	26,796.56	-5.07
Total CH₄ emissions excluding CH₄ from LULUCF	27,165.21	26,906.31	26,798.59	27,004.62	26,482.94	26,071.83	26,224.59	26,491.09	26,482.94	26,071.83	26,224.59	26,491.09	26,482.94	26,071.83	26,224.59	26,491.09	26,482.94	-9.09
Memo Items:																		
International Bankers	5.70	5.49	5.87	5.99	7.03	6.99	7.00	6.96	7.03	6.99	7.00	6.96	7.03	6.99	7.00	6.96	7.03	-13.47
Aviation	1.74	1.76	1.89	1.68	1.83	1.70	1.63	1.58	1.74	1.76	1.89	1.63	1.74	1.76	1.89	1.63	1.74	4.42
Marine	3.96	3.73	3.98	4.31	5.21	5.29	5.38	5.38	3.96	3.73	3.98	4.31	5.21	5.29	5.38	5.38	3.96	-17.62
Multilateral Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
CO₂ Emissions from Biomass	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00

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

TABLE 10 EMISSION TRENDS
N₂O
(Part 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year (1990)	1991	1992	1993	1994	1995	1996	1997	1998	1999
	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)
1. Energy	183.77	189.97	200.39	207.87	213.77	217.62	221.87	224.47	223.63	220.09
A. Fuel Combustion (Sectoral Approach)	183.77	189.97	200.39	207.87	213.77	217.62	221.87	224.47	223.63	220.09
1. Energy Industries	27.56	27.22	27.67	28.83	29.01	29.08	30.57	31.28	31.91	31.92
2. Manufacturing Industries and Construction	13.47	13.25	13.68	13.64	14.18	14.40	14.69	14.96	14.15	14.15
3. Transport	136.38	143.01	152.66	159.41	164.83	168.49	170.76	172.95	172.67	169.02
4. Other Sectors	4.69	4.83	4.93	4.59	4.43	4.40	4.64	4.11	3.69	3.84
5. Other	1.67	1.65	1.45	1.41	1.32	1.24	1.20	1.18	1.20	1.16
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	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,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	113.84	112.65	108.58	112.57	119.72	127.76	130.20	110.34	95.18	90.83
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical Industry	113.84	112.65	108.58	112.57	119.72	127.76	130.20	110.34	95.18	90.83
C. Metal Production	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Other Production	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Production of Halocarbons and SF ₆	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Consumption of Halocarbons and SF ₆	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Solvent and Other Product Use	14.21	13.81	13.02	14.80	14.80	14.80	14.80	15.74	15.74	15.74
4. Agriculture	686.34	704.66	671.32	724.08	698.35	695.55	750.35	709.30	749.63	676.89
A. Enteric Fermentation	38.92	40.69	39.71	41.15	41.28	41.62	40.90	42.35	43.20	43.53
B. Manure Management	646.22	662.80	630.27	681.83	655.59	652.70	708.08	665.50	704.95	631.91
C. Rice Cultivation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Agricultural Soils	1.20	1.17	1.33	1.10	1.47	1.23	1.37	1.45	1.48	1.44
E. Prescribed Burning of Savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Field Burning of Agricultural Residues	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G. Other	4.89	4.77	5.73	5.66	8.34	6.43	10.14	5.59	5.39	9.43
5. Land Use, Land-Use Change and Forestry	1.65	1.45	2.19	1.50	3.94	2.46	6.39	1.97	2.44	6.59
A. Forest Land	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE
B. Cropland	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
C. Grassland	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.02	0.01	0.02
D. Wetlands	3.22	3.31	3.53	4.14	4.39	3.96	3.74	3.61	2.93	2.83
E. Settlements	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
F. Other Land	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
G. Other	13.04	13.48	14.05	14.62	15.32	15.62	16.25	16.59	17.19	18.09
6. Waste	11.90	12.18	12.58	12.74	13.01	13.02	13.28	13.30	13.62	14.08
A. Solid Waste Disposal on Land	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
B. Waste-water Handling	1.14	1.31	1.47	1.88	2.31	2.60	2.97	3.28	3.58	4.01
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 L.4)	1.016.08	1.039.25	1.013.10	1.079.60	1.070.29	1.077.78	1.143.61	1.082.03	1.106.77	1.031.06
Total N ₂ O emissions including N ₂ O from LULUCF	1.011.20	1.034.57	1.007.37	1.073.94	1.061.95	1.071.35	1.133.46	1.076.44	1.101.38	1.021.64
Total N ₂ O emissions excluding N ₂ O from LULUCF	3.40	3.64	3.42	3.13	3.21	3.05	3.25	3.29	3.56	3.07
International Bankers Aviation	1.74	1.84	1.87	1.84	1.99	1.82	2.01	1.96	2.13	1.93
Multilateral Operations	1.66	1.81	1.55	1.29	1.22	1.23	1.23	1.33	1.43	1.14
CO ₂ Emissions from Biomass	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

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

TABLE 10 EMISSION TRENDS
N₂O
(Part 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2000		2001		2002		2003		2004		2005		2006		2007		Change from base to latest reported year		
	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	%	
1. Energy	218.53	208.43	194.98	184.95	177.09	167.32	156.37	145.76	145.76	145.76	145.76	145.76	145.76	145.76	145.76	145.76	145.76	-20.68	
A. Fuel Combustion (Sectoral Approach)	218.53	208.43	194.98	184.95	177.09	167.32	156.37	145.76	145.76	145.76	145.76	145.76	145.76	145.76	145.76	145.76	145.76	-20.68	
1. Energy Industries	33.50	33.72	33.50	33.72	33.50	33.72	33.50	33.72	33.50	33.72	33.50	33.72	33.50	33.72	33.50	33.72	33.50	24.77	
2. Manufacturing Industries and Construction	14.41	14.14	13.85	13.93	14.61	14.58	15.07	14.71	14.71	14.71	14.71	14.71	14.71	14.71	14.71	14.71	14.71	9.27	
3. Transport	165.51	156.62	143.40	132.15	123.34	112.88	102.68	91.58	91.58	91.58	91.58	91.58	91.58	91.58	91.58	91.58	91.58	-32.85	
4. Other Sectors	4.07	3.86	3.81	4.07	4.08	4.13	3.72	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	3.95	-15.81	
5. Other	1.14	1.26	1.19	1.31	1.23	1.23	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	-32.06	
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	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	0.00	
I. Solid Fuels	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	0.00	
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	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	IE,NA,NE	0.00	
2. Industrial Processes	90.78	73.85	81.74	78.85	77.02	79.21	77.96	89.16	89.16	89.16	89.16	89.16	89.16	89.16	89.16	89.16	89.16	-21.68	
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	
B. Chemical Industry	90.78	73.85	81.74	78.85	77.02	79.21	77.96	89.16	89.16	89.16	89.16	89.16	89.16	89.16	89.16	89.16	89.16	-21.68	
C. Metal Production	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	
D. Other Production	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	
E. Production of Halocarbons and SF ₆																			
F. Consumption of Halocarbons 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	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	0.00	
3. Solvent and Other Product Use	15.74	15.74	14.15	14.15	14.15	14.15	14.15	14.15	14.15	14.15	14.15	14.15	14.15	14.15	14.15	14.15	14.15	-0.38	
4. Agriculture	706.18	758.59	717.00	700.43	728.15	726.91	721.01	719.60	719.60	719.60	719.60	719.60	719.60	719.60	719.60	719.60	719.60	4.85	
A. Enteric Fermentation	45.13	46.19	45.91	44.74	45.33	45.85	46.99	47.40	47.40	47.40	47.40	47.40	47.40	47.40	47.40	47.40	47.40	21.80	
B. Manure Management																			
C. Rice Cultivation																			
D. Agricultural Soils	659.56	710.91	669.69	654.26	681.16	679.42	672.40	670.65	670.65	670.65	670.65	670.65	670.65	670.65	670.65	670.65	670.65	3.78	
E. Prescribed Burning of Savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	
F. Field Burning of Agricultural Residues	1.49	1.50	1.39	1.44	1.66	1.63	1.62	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	29.50	
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	
5. Land Use, Land-Use Change and Forestry	11.75	9.67	11.79	9.81	8.31	10.55	16.21	15.71	15.71	15.71	15.71	15.71	15.71	15.71	15.71	15.71	15.71	221.43	
A. Forest Land	7.83	5.05	7.24	5.03	3.16	5.65	11.24	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	535.55	
B. Cropland	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	IE,NE	0.00	
C. Grassland	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	0.00	
D. Wetlands	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-2.37	
E. Settlements	3.90	4.60	4.54	4.76	5.13	4.88	4.96	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	5.19	61.29	
F. Other Land	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0.00	
G. Other	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	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	IE,NA,NO	0.00	
6. Waste	18.85	19.28	19.09	19.87	20.55	20.93	21.14	21.61	21.61	21.61	21.61	21.61	21.61	21.61	21.61	21.61	21.61	65.72	
A. Solid Waste Disposal on Land																			
B. Waste-water Handling	14.37	14.78	14.53	14.68	14.98	15.33	15.49	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	15.70	31.98	
C. Waste Incineration	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	0.00	
D. Other	4.48	4.50	4.56	5.19	5.57	5.59	5.66	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	5.91	416.90	
7. Other (as specified in Summary L4)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00	
Total N₂O emissions including N₂O from LULUCF	1,061.83	1,085.56	1,038.75	1,008.07	1,025.28	1,019.07	1,006.85	1,005.99	1,005.99	1,005.99	1,005.99	1,005.99	1,005.99	1,005.99	1,005.99	1,005.99	1,005.99	-0.99	
Total N₂O emissions excluding N₂O from LULUCF	1,050.08	1,075.89	1,026.96	998.26	1,016.97	1,008.51	990.64	990.29	990.29	990.29	990.29	990.29	990.29	990.29	990.29	990.29	990.29	-2.07	
Memo Items:																			
International Bankers	3.00	2.97	3.18	3.02	3.42	3.29	3.24	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18	-6.33	
Aviation	2.00	2.02	2.17	1.93	2.00	2.17	1.95	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	4.42	
Marine	1.01	0.95	1.01	1.09	1.32	1.34	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	-17.62	
Multilateral Operations	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	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 EMISSION TRENDS
HFCs, PFCs and SF₆
(Part 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year (1990)										1998 (Gg)	1999 (Gg)	
	(Gg)	1991 (Gg)	1992 (Gg)	1993 (Gg)	1994 (Gg)	1995 (Gg)	1996 (Gg)	1997 (Gg)	1998 (Gg)	1999 (Gg)			
Emissions of HFC⁶³ - (Gg CO₂ equivalent)													
HFC-23	36,924.10	33,540.69	38,282.65	38,755.86	44,050.24	61,803.33	71,168.28	81,040.87	96,880.42	94,853.65			
	3.13	2.81	3.12	2.85	2.72	2.84	2.69	2.69	2.64	2.64			
	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO			
HFC-32													
HFC-41													
HFC-43-1bmes													
HFC-125													
HFC-134													
HFC-134b													
HFC-132a													
HFC-143													
HFC-143a													
HFC-227ea													
HFC-236bf													
HFC-245ca													
Unspecified mix of listed HFCs ⁶³ - (Gg CO ₂ equivalent)	331.04	640.05	648.53	656.99	658.63	1,590.70	2,780.98	3,452.19	4,076.77	4,203.48			
Emissions of PFC⁶³ - (Gg CO₂ equivalent)													
CF ₄	20,759.93	17,774.74	16,539.87	16,807.74	15,167.42	15,587.02	16,600.19	15,222.69	14,029.04	13,961.47			
	2.55	2.16	1.99	1.96	1.75	1.75	1.86	1.68	1.47	1.46			
	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO	C.I.E.N.A.NE.NO			
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TABLE 10 EMISSION TRENDS
HFCs, PFCs and SF₆
(Part 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2000	2001	2002	2003	2004	2005	2006	2007	Change from base to latest reported year
	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	%
Emissions of HFCs⁽⁹⁾ - (Gg CO₂ equivalent)									
HFC-23	100,098.22	96,905.86	104,307.81	101,361.21	112,376.34	116,073.33	119,072.79	125,531.42	239.97
	2.47	1.70	1.82	1.07	1.49	1.37	1.21	1.48	-52.78
HFC-32	0.04	0.09	0.17	0.27	0.40	0.56	0.91	1.33	100.00
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	0.00
HFC-43-10mee	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	0.00
HFC-125	1.87	2.15	2.44	2.80	3.22	3.67	4.39	5.25	100.00
HFC-134	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	0.00
HFC-134a	44.01	46.89	49.33	51.27	53.28	54.23	54.36	52.78	100.00
HFC-152a	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	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	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	0.00
HFC-143a	1.09	1.41	1.78	2.19	2.65	3.20	3.78	4.40	100.00
HFC-227ea	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	0.00
HFC-236fa	0.09	0.09	0.10	0.11	0.12	0.12	0.13	0.14	100.00
HFC-245ea	C,IE,NA,NO	C,IE,NA,NO	C,IE,NA,NO	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 listed HFCs ⁽⁹⁾ - (Gg CO ₂ equivalent)	4,045.51	3,965.97	4,517.98	5,178.10	5,559.65	5,917.87	6,194.60	6,482.85	1,858.34
Emissions of PFCs⁽⁹⁾ - (Gg CO₂ equivalent)									
CF ₄	13,479.45	6,979.60	8,711.06	7,077.89	6,125.08	6,194.63	6,030.44	7,479.87	-63.97
C ₂ F ₆	1.48	0.67	0.88	0.67	0.55	0.56	0.51	0.69	-73.03
C ₃ F ₈	0.41	0.27	0.31	0.28	0.27	0.26	0.28	0.32	-30.10
C ₄ F ₁₀	0.02	0.01	0.01	0.01	0.01	0.00	0.01	0.01	1,417.03
C ₆ F ₁₄	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,NA,NE,NO	C,NA,NE,NO	C,NA,NE,NO	C,NA,NE,NO	0.00
C ₈ F ₁₈	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,IE,NA,NE,NO	C,NA,NE,NO	C,NA,NE,NO	C,NA,NE,NO	C,NA,NE,NO	0.00
Unspecified mix of listed PFCs ⁽⁹⁾ - (Gg 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	0.00
Emissions of SF₆⁽⁹⁾ - (Gg CO₂ equivalent)									
SF ₆	19,199.54	18,761.05	18,122.79	18,207.16	17,756.95	17,893.06	17,026.87	16,458.76	-49.80
	0.80	0.78	0.76	0.76	0.74	0.75	0.71	0.69	-49.80

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

TABLE 10 EMISSION TRENDS
SUMMARY
(Part 1 of 2)

	Base year (1990)									
	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)
GREENHOUSE GAS EMISSIONS										
CO ₂ emissions including net CO ₂ from LULUCF	4,235,263.44	4,171,423.88	4,286,391.39	4,469,169.91	4,436,356.71	4,556,932.29	4,813,098.48	4,829,490.08	4,962,384.96	5,085,458.75
CO ₂ emissions excluding net CO ₂ from LULUCF	5,068,576.19	5,022,584.51	5,124,242.56	5,249,133.85	5,341,161.69	5,399,817.48	5,574,200.87	5,665,536.15	5,694,690.81	5,772,309.85
CH ₄ emissions including CH ₄ from LULUCF	61,655,56.93	61,751,1.11	62,346,481.1	610,298.60	625,637.28	615,826.21	621,700.54	596,438.37	589,213.01	589,942.12
CH ₄ emissions excluding CH ₄ from LULUCF	61,197,133	61,757,888	61,784,23	606,604.31	614,593.49	609,676.45	604,210.74	593,029.25	584,640.47	573,714.28
N ₂ O emissions including N ₂ O from LULUCF	314,985.77	322,197.59	314,600.21	334,677.36	331,790.72	334,113.02	354,518.38	335,429.09	343,099.44	319,630.09
N ₂ O emissions excluding N ₂ O from LULUCF	313,470.98	320,717.41	312,383.69	332,922.92	329,204.20	332,119.16	351,373.55	333,695.17	341,428.62	316,707.45
HFCs	36,924.10	33,540.69	38,282.65	38,755.86	44,050.24	61,803.33	71,168.28	81,040.87	96,880.42	94,853.65
PF ₆ s	20,759.93	17,774.74	16,539.87	16,507.74	15,167.42	15,587.02	16,600.19	15,222.69	14,029.04	13,961.47
SF ₆	32,787.70	31,399.66	31,592.00	31,043.81	29,535.10	28,080.98	27,314.39	25,551.89	22,535.93	22,891.96
Total (including LULUCF)	5,257,277.87	5,194,089.67	5,310,330.93	5,500,453.29	5,482,537.48	5,612,342.86	5,904,400.25	5,883,172.99	6,028,142.80	6,126,738.05
Total (excluding LULUCF)	6,084,490.17	6,039,774.89	6,140,425.01	6,274,968.47	6,373,712.14	6,447,084.43	6,644,868.01	6,714,076.03	6,754,205.30	6,794,438.66

	Base year (1990)									
	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)
GREENHOUSE GAS SOURCE AND SINK CATEGORIES										
1. Energy	5,193,603.06	5,160,098.15	5,260,504.40	5,379,469.73	5,469,619.64	5,520,063.22	5,698,135.18	5,783,247.60	5,811,613.44	5,882,285.73
2. Industrial Processes	325,243.41	305,025.99	310,075.03	308,517.81	319,325.85	345,768.84	355,773.21	359,993.67	362,791.93	356,700.76
3. Solvent and Other Product Use	4,404.02	4,281.69	4,037.02	4,587.52	4,587.52	4,587.52	4,587.52	4,587.52	4,879.50	4,879.50
4. Agriculture	384,152.80	391,282.02	384,925.21	401,290.41	399,470.61	401,954.09	414,647.53	401,397.92	416,163.86	392,850.32
5. Land Use, Land-Use Change and Forestry ⁽⁶⁾	-827,212.31	-845,685.22	-830,094.08	-774,515.18	-891,174.66	-834,741.57	-740,467.76	-830,903.04	-726,062.50	-667,700.62
6. Waste	177,087.09	179,087.04	180,883.36	181,103.00	180,708.52	174,710.76	171,724.56	165,157.34	158,756.57	157,722.35
7. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total (including LULUCF)⁽⁶⁾	5,257,277.87	5,194,089.67	5,310,330.93	5,500,453.29	5,482,537.48	5,612,342.86	5,904,400.25	5,883,172.99	6,028,142.80	6,126,738.05

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

(2) 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 (+).

(3) Enter actual emissions estimates. If only potential emissions estimates are available, these should be reported in this table and an indication for this be provided in the documentation box. Only in these rows are the emissions expressed as CO₂ equivalent emissions.

(4) 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 (due to missing confidential data, lack of disaggregation), this row could 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.

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

TABLE 10. EMISSION TRENDS SUMMARY (Part 2 of 2)

GREENHOUSE GAS EMISSIONS	2000	2001	2002	2003	2004	2005	2006	2007	Change from base to latest reported year (%)
	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	
CO ₂ emissions including net CO ₂ from LULUCF	5,237,671.46	5,114,079.58	4,879,553.55	4,697,880.58	4,753,550.10	4,968,092.25	4,964,330.63	5,040,841.99	19.02
CO ₂ emissions excluding net CO ₂ from LULUCF	5,946,408.84	5,851,055.43	5,898,675.79	5,954,006.13	6,039,372.69	6,081,905.12	6,006,103.66	6,094,390.11	20.24
CH ₄ emissions including CH ₄ from LULUCF	591,104.15	577,072.62	580,893.47	578,713.95	562,727.77	561,708.94	581,975.56	585,317.05	-5.07
CH ₄ emissions excluding CH ₄ from LULUCF	570,469.46	565,032.48	562,770.39	567,097.01	556,141.75	547,508.47	550,716.44	556,312.80	-9.09
N ₂ O emissions including N ₂ O from LULUCF	329,168.37	336,524.87	322,013.18	312,501.78	317,835.74	315,910.27	312,124.05	311,857.84	-0.99
N ₂ O emissions excluding N ₂ O from LULUCF	325,524.81	333,525.98	318,357.20	309,459.55	315,259.52	312,638.86	307,099.01	306,988.74	-2.07
HFCs	100,098.22	96,905.86	104,307.81	101,361.21	112,376.34	116,073.33	119,072.79	125,531.42	239.97
PFCS	13,479.45	6,979.60	8,711.06	7,077.89	6,125.08	6,194.63	6,030.44	7,479.87	-63.97
SF ₆	19,199.54	18,761.05	18,122.79	18,207.16	17,756.95	17,893.06	17,026.87	16,458.76	-49.80
Total (including LULUCF)	6,290,721.21	6,150,323.57	5,913,601.85	5,715,742.55	5,770,371.99	5,985,872.47	6,000,560.33	6,087,486.93	15.79
Total (excluding LULUCF)	6,975,180.33	6,872,260.40	6,910,945.04	6,957,208.94	7,047,032.33	7,082,213.46	7,006,049.20	7,107,161.69	16.81

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2000	2001	2002	2003	2004	2005	2006	2007	Change from base to latest reported year (%)
	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	CO ₂ equivalent (Gg)	
1. Energy	6,059,934.22	5,977,299.97	6,016,786.57	6,070,742.36	6,140,416.84	6,169,162.03	6,084,385.29	6,170,343.23	18.81
2. Industrial Processes	356,315.05	322,171.53	331,806.83	321,960.17	335,893.15	337,598.92	343,943.73	353,779.52	8.77
3. Solvent and Other Product Use	4,879.50	4,879.50	4,387.15	4,387.15	4,387.15	4,387.15	4,387.15	4,387.15	-0.38
4. Agriculture	399,444.64	416,485.79	404,242.71	399,683.72	407,657.36	410,825.55	410,297.98	413,064.72	7.53
5. Land Use, Land-Use Change and Forestry ⁽¹⁾	-684,459.12	-721,936.83	-997,343.18	-1,241,466.39	-1,276,660.34	-1,096,340.99	-1,005,488.87	-1,019,674.76	23.27
6. Waste	154,606.92	151,423.60	153,721.78	160,435.54	158,677.84	160,239.81	163,035.05	165,587.07	-6.49
7. Other	NA	NA	NA	NA	NA	NA	NA	NA	0.00
Total (including LULUCF)⁽²⁾	6,290,721.21	6,150,323.57	5,913,601.85	5,715,742.55	5,770,371.99	5,985,872.47	6,000,560.33	6,087,486.93	15.79

⁽¹⁾ The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the COP. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.

⁽²⁾ 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 (+).

⁽³⁾ Enter actual emissions estimates. If only potential emissions estimates are available, these should be reported in this table and an indication for this be provided in the documentation box. Only in these rows are the emissions expressed as CO₂ equivalent emissions.

⁽⁴⁾ 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. mixtures, confidential data, lack of disaggregation), this row could 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.

⁽⁵⁾ Includes net CO₂, CH₄ and N₂O from LULUCF.

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS

(Sheet 1 of 1)

Inventory 2007

Submission 2009 v1.1

UNITED STATES OF AMERICA

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ ⁽¹⁾	CH ₄	N ₂ O	HFCs ⁽²⁾	PFCs ⁽²⁾	SF ₆ ⁽²⁾	Total
	CO ₂ equivalent (Gg)						
Total (Net Emissions)⁽¹⁾	5,040,841.99	585,317.05	311,857.84	125,531.42	7,479.87	16,458.76	6,087,486.93
1. Energy	5,919,451.52	205,705.62	45,186.09				6,170,343.23
A. Fuel Combustion (Sectoral Approach)	5,890,484.85	8,900.08	45,186.09				5,944,571.01
1. Energy Industries	2,417,976.57	730.57	10,657.92				2,429,365.07
2. Manufacturing Industries and Construction	845,415.82	1,775.24	4,561.61				851,752.68
3. Transport	1,864,111.44	1,946.01	28,389.41				1,894,446.85
4. Other Sectors	554,976.35	4,363.22	1,224.81				560,564.37
5. Other	208,004.68	85.03	352.34				208,442.05
B. Fugitive Emissions from Fuels	28,966.67	196,805.54	IE,NA,NE				225,772.22
1. Solid Fuels	IE,NE,NO	63,353.76	IE,NE				63,353.76
2. Oil and Natural Gas	28,966.67	133,451.79	IE,NA,NE				162,418.46
2. Industrial Processes	174,938.59	1,731.76	27,639.12	125,531.42	7,479.87	16,458.76	353,779.52
A. Mineral Products	69,442.20	NA	NA				69,442.20
B. Chemical Industry	21,526.11	1,025.51	27,639.12	NA	NA	NA	50,190.74
C. Metal Production	83,970.28	706.25	NA	NA	3,836.03	2,973.25	91,485.81
D. Other Production	NE						NE
E. Production of Halocarbons and SF ₆				16,999.76	NA,NE	NA,NE	16,999.76
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				108,531.66	3,643.84	13,485.51	125,661.00
G. Other	NA,NO	NA,NO	NA,NO	NA	NA	NA	NA,NO
3. Solvent and Other Product Use	NA,NE		4,387.15				4,387.15
4. Agriculture		189,988.21	223,076.51				413,064.72
A. Enteric Fermentation		138,977.19					138,977.19
B. Manure Management		43,959.32	14,693.81				58,653.14
C. Rice Cultivation		6,159.75					6,159.75
D. Agricultural Soils ⁽³⁾		NA,NE	207,900.52				207,900.52
E. Prescribed Burning of Savannas		NA	NA				NA
F. Field Burning of Agricultural Residues		891.95	482.18				1,374.13
G. Other		NA	NA				NA
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-1,053,548.12	29,004.25	4,869.11				-1,019,674.76
A. Forest Land	-809,631.52	29,004.25	3,255.32				-777,371.95
B. Cropland	-5,698.80	NE	IE,NE				-5,698.80
C. Grassland	-31,362.65	NE	IE				-31,362.65
D. Wetlands	1,010.50	NE	5.09				1,015.59
E. Settlements	-97,648.60	NE	1,608.69				-96,039.91
F. Other Land	NE	NE	NE				NE
G. Other	-110,217.05	NA,NO	IE,NA,NO				-110,217.05
6. Waste	IE,NA,NE	158,887.20	6,699.87				165,587.07
A. Solid Waste Disposal on Land	NA,NE	132,875.92					132,875.92
B. Waste-water Handling		24,356.87	4,868.21				29,225.08
C. Waste Incineration	IE	NE	IE				IE,NE
D. Other	NA	1,654.41	1,831.66				3,486.07
7. Other (as specified in Summary I.A)	NA	NA	NA	NA	NA	NA	NA
Memo Items:⁽⁴⁾							
International Bunkers	108,755.77	146.09	986.08				109,887.94
Aviation	52,739.81	33.16	562.70				53,335.67
Marine	56,015.96	112.93	423.39				56,552.27
Multilateral Operations	NE	NE	NE				NE
CO₂ Emissions from Biomass	247,829.09						247,829.09
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							7,107,161.69
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							6,087,486.93

(1) For CO₂ from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

(2) Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

(3) Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary I.A.