Appendix A

Emission Trends

TABLE 10 EMISSIONS TRENDS (CO_2)
(Sheet 1 of 5)

United States of America
1999
Submission 2001

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year[1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
					(Gg)						
1. Energy	**0.00**	**4,840,809.87**	**4,788,679.21**	**4,887,340.69**	**4,996,714.56**	**5,088,608.10**	**5,134,849.78**	**5,315,958.31**	**5,386,939.02**	**5,397,600.27**	**5,464,788.74**
A. Fuel Combustion (Sectoral Approach)	0.00	4,835,688.49	4,782,408.64	4,881,064.68	4,986,699.51	5,078,407.35	5,121,262.89	5,302,960.54	5,374,912.89	5,386,761.75	5,453,088.14
1. Energy Industries		1,757,344.40	1,736,958.54	1,735,395.83	1,793,606.14	1,813,882.58	1,810,564.91	1,880,288.04	1,953,514.41	2,010,670.18	1,953,352.50
2. Manufacturing Industries and Construction		1,023,471.15	1,007,631.47	1,064,905.86	1,062,395.51	1,090,871.96	1,101,048.15	1,140,592.33	1,141,145.94	1,113,318.51	1,155,609.76
3. Transport		1,422,584.88	1,386,224.43	1,425,797.26	1,456,126.29	1,499,862.42	1,537,307.47	1,571,795.55	1,588,137.82	1,615,078.66	1,677,713.82
4. Other Sectors		549,373.48	560,839.92	570,245.56	588,643.73	580,616.65	586,246.09	623,239.13	608,568.63	558,376.01	577,133.24
5. Other		82,914.58	90,754.29	84,720.16	85,927.83	93,173.74	86,096.26	87,045.49	83,546.09	89,318.39	89,278.82
B. Fugitive Emissions from Fuels	0.00	5,121.37	6,270.57	6,276.01	10,015.05	10,200.75	13,586.90	12,997.77	12,026.14	10,838.53	11,700.60
1. Solid Fuels		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		5,121.37	6,270.57	6,276.01	10,015.05	10,200.75	13,586.90	12,997.77	12,026.14	10,838.53	11,700.60
2. Industrial Processes	**0.00**	**54,565.48**	**53,318.67**	**53,655.59**	**55,263.81**	**58,199.44**	**61,895.21**	**63,272.84**	**66,063.41**	**66,984.48**	**67,401.42**
A. Mineral Products		53,765.48	52,478.67	52,773.59	54,352.09	57,301.87	60,926.88	62,132.51	64,769.82	65,571.09	65,829.18
B. Chemical Industry		800.00	840.00	882.00	911.72	897.57	968.33	1,140.33	1,293.59	1,413.39	1,572.24
C. Metal Production		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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		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		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4. Agriculture	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
A. Enteric Fermentation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Manure Management		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Rice Cultivation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Agricultural Soils [2]		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Prescribed Burning of Savannas		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
G. Other		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. Land-Use Change and Forestry [3]	**0.00**	**-1,059,900.00**	**-1,046,800.00**	**-1,297,466.67**	**-1,024,200.00**	**-1,028,500.00**	**-1,019,000.00**	**-1,021,400.00**	**-981,900.00**	**-983,400.00**	**-990,400.00**
A. Changes in Forest and Other Woody Biomass Stocks		-750,200.00	-738,100.00	-711,300.00	-712,300.00	-719,000.00	-711,600.00	-716,000.00	-718,700.00	-712,500.00	-720,900.00
B. Forest and Grassland Conversion		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Abandonment of Managed Lands		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. CO_2 Emissions and Removals from Soil		-291,900.00	-291,200.00	-569,066.67	-296,600.00	-295,900.00	-295,400.00	-295,400.00	-253,800.00	-262,100.00	-261,800.00
E. Other		-17,800.00	-17,500.00	-17,100.00	-15,300.00	-13,600.00	-12,000.00	-10,000.00	-9,400.00	-8,800.00	-7,700.00
6. Waste	**0.00**	**17,571.80**	**19,225.29**	**19,933.61**	**20,952.94**	**22,009.61**	**23,065.35**	**23,968.46**	**25,674.27**	**25,144.74**	**25,959.73**
A. Solid Waste Disposal on Land		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Waste-water Handling		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Waste Incineration		17,571.80	19,225.29	19,933.61	20,952.94	22,009.61	23,065.35	23,968.46	25,674.27	25,144.74	25,959.73
D. Other		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7. Other *(please specify)*	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Emissions/Removals with LUCF [4]	**0.00**	**3,853,047.14**	**3,814,423.18**	**3,663,463.21**	**4,048,731.30**	**4,140,317.14**	**4,200,810.34**	**4,381,799.61**	**4,496,776.71**	**4,506,329.49**	**4,567,749.89**
Total Emissions without LUCF [4]	**0.00**	**4,912,947.14**	**4,861,223.18**	**4,960,929.88**	**5,072,931.30**	**5,168,817.14**	**5,219,810.34**	**5,403,199.61**	**5,478,676.71**	**5,489,729.49**	**5,558,149.89**
Memo Items:											
International Bunkers	**0.00**	**114,000.92**	**120,019.02**	**109,964.95**	**99,885.75**	**98,016.54**	**101,014.03**	**102,197.42**	**109,788.01**	**112,771.27**	**107,345.46**
Aviation		46,728.43	46,681.66	47,142.96	47,615.43	48,327.04	51,093.40	52,135.04	55,899.42	54,987.80	60,969.72
Marine		67,272.49	73,337.36	62,821.98	52,270.33	49,689.50	49,920.63	50,062.38	53,888.59	57,783.48	46,375.74
Multilateral Operations		**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
CO_2 Emissions from Biomass		**180,562.60**	**179,318.10**	**188,276.17**	**183,975.48**	**191,666.84**	**200,488.33**	**202,117.50**	**194,316.62**	**194,762.26**	**234,062.51**

(1) Fill in the base year adopted by the Party under the Convention, if different from 1990.
(2) See footnote 4 to Summary 1.A of this common reporting format.
(3) Take the net emissions as reported in Summary 1.A of this common reporting format. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
(4) The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report CO_2 emissions and removals from Land-Use Change and Forestry.

TABLE 10 EMISSIONS TRENDS (CH_4)
(Sheet 2 of 5)

United States of America
1999
Submission 2001

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year[1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	(Gg)										
Total Emissions	**0.00**	**30,688.55**	**30,605.64**	**30,883.05**	**30,389.09**	**30,784.20**	**30,977.73**	**30,378.63**	**30,095.69**	**29,754.00**	**29,504.02**
1. Energy	**0.00**	**11,890.79**	**11,770.17**	**11,686.86**	**11,248.36**	**11,140.66**	**11,284.29**	**11,095.51**	**10,867.82**	**10,669.40**	**10,388.16**
A. Fuel Combustion (Sectoral Approach)	0.00	640.57	644.37	661.22	637.84	637.61	654.05	658.96	611.01	580.00	601.03
1. Energy Industries		22.98	22.73	22.32	23.21	23.39	22.70	23.47	24.53	26.12	25.34
2. Manufacturing Industries and Construction		128.52	126.12	130.14	132.28	137.29	140.64	143.32	145.30	143.83	156.99
3. Transport		237.42	234.84	237.24	236.22	234.98	231.98	228.49	224.73	218.65	214.72
4. Other Sectors		251.65	260.67	271.52	246.14	241.96	258.72	263.66	216.45	191.39	203.98
5. Other		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Fugitive Emissions from Fuels	0.00	11,250.22	11,125.80	11,025.64	10,610.52	10,503.04	10,630.24	10,436.55	10,256.81	10,089.40	9,787.14
1. Solid Fuels		4,183.70	3,975.39	3,834.90	3,355.84	3,389.85	3,550.02	3,301.04	3,274.14	3,167.64	2,944.20
2. Oil and Natural Gas		7,066.52	7,150.40	7,190.73	7,254.68	7,113.19	7,080.22	7,135.52	6,982.67	6,921.76	6,842.94
2. Industrial Processes	**0.00**	**56.76**	**57.62**	**60.97**	**66.63**	**71.25**	**72.41**	**75.86**	**77.30**	**77.66**	**80.12**
A. Mineral Products		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Chemical Industry		56.76	57.62	60.97	66.63	71.25	72.41	75.86	77.30	77.66	80.12
C. Metal Production		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
E. Production of Halocarbons and SF_6											
F. Consumption of Halocarbons and SF_6											
G. Other		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		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4. Agriculture	**0.00**	**7,862.31**	**7,881.17**	**8,101.50**	**7,935.85**	**8,407.71**	**8,445.64**	**8,205.28**	**8,207.84**	**8,258.84**	**8,232.39**
A. Enteric Fermentation		6,166.13	6,143.04	6,288.80	6,159.82	6,447.30	6,491.60	6,295.47	6,171.80	6,072.14	6,057.20
B. Manure Management		1,256.28	1,310.57	1,326.20	1,337.28	1,445.19	1,477.44	1,463.04	1,552.70	1,676.61	1,637.82
C. Rice Cultivation		414.44	403.90	458.52	416.41	485.33	452.18	418.77	454.78	480.52	509.19
D. Agricultural Soils		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Prescribed Burning of Savannas		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Field Burning of Agricultural Residues		25.46	23.67	27.97	22.34	29.89	24.42	28.00	28.56	29.56	28.18
G. Other		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. Land-Use Change and Forestry	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
A. Changes in Forest and Other Woody Biomass Stocks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Forest and Grassland Conversion		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Abandonment of Managed Lands		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. CO_2 Emissions and Removals from Soil		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Other		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6. Waste	**0.00**	**10,878.69**	**10,896.68**	**11,033.72**	**11,138.26**	**11,164.58**	**11,175.39**	**11,001.97**	**10,942.73**	**10,748.11**	**10,803.34**
A. Solid Waste Disposal on Land		10,345.89	10,358.17	10,489.01	10,587.63	10,608.52	10,614.01	10,435.38	10,370.69	10,170.77	10,220.79
B. Waste-water Handling		532.80	538.52	544.72	550.63	556.07	561.38	566.60	572.04	577.33	582.56
C. Waste Incineration		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Other		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7. Other *(please specify)*	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
		0.00	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00
Memo Items:											
International Bunkers	**0.00**	**1.91**	**1.96**	**1.88**	**1.79**	**1.79**	**1.87**	**1.90**	**2.04**	**2.05**	**2.11**
Aviation		1.28	1.28	1.30	1.31	1.33	1.41	1.44	1.54	1.52	1.68
Marine		0.62	0.68	0.58	0.48	0.46	0.46	0.46	0.50	0.53	0.43
Multilateral Operations		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
CO_2 Emissions from Biomass											

TABLE 10 EMISSIONS TRENDS (N_2O)
(Sheet 3 of 5)

United States of America
1999
Submission 2001

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year[1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	(Gg)										
Total Emissions	**0.00**	**1,280.23**	**1,304.18**	**1,339.98**	**1,341.59**	**1,429.59**	**1,393.58**	**1,424.61**	**1,432.57**	**1,399.00**	**1,395.45**
1. Energy	**0.00**	**219.05**	**229.10**	**243.14**	**253.11**	**259.94**	**261.58**	**258.61**	**258.73**	**255.77**	**255.01**
A. Fuel Combustion (Sectoral Approach)	0.00	219.05	229.10	243.14	253.11	259.94	261.58	258.61	258.73	255.77	255.01
1. Energy Industries		23.82	23.77	24.03	24.97	25.19	25.15	26.53	27.37	27.98	27.89
2. Manufacturing Industries and Construction		15.52	15.04	15.57	15.59	16.28	16.37	16.70	17.03	16.92	18.79
3. Transport		175.15	185.61	198.73	208.06	214.05	215.42	210.61	210.22	207.17	204.42
4. Other Sectors		4.56	4.68	4.82	4.50	4.42	4.64	4.78	4.11	3.69	3.92
5. Other		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
1. Solid Fuels		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
2. Industrial Processes	**0.00**	**116.60**	**119.46**	**115.91**	**121.36**	**128.71**	**129.73**	**133.87**	**123.66**	**90.79**	**94.23**
A. Mineral Products		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Chemical Industry		116.60	119.46	115.91	121.36	128.71	129.73	133.87	123.66	90.79	94.23
C. Metal Production		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
E. Production of Halocarbons and SF_6											
F. Consumption of Halocarbons and SF_6											
G. Other		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		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4. Agriculture	**0.00**	**920.64**	**931.29**	**956.22**	**942.07**	**1,014.97**	**974.84**	**1,006.12**	**1,023.84**	**1,025.54**	**1,019.02**
A. Enteric Fermentation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Manure Management		51.77	53.40	52.74	54.02	54.11	53.14	54.46	55.22	55.34	55.43
C. Rice Cultivation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Agricultural Soils		867.70	876.76	902.18	886.98	959.43	920.51	950.32	967.20	968.74	962.20
E. Prescribed Burning of Savannas		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Field Burning of Agricultural Residues		1.17	1.13	1.30	1.07	1.43	1.19	1.34	1.42	1.46	1.39
G. Other		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. Land-Use Change and Forestry	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
A. Changes in Forest and Other Woody Biomass Stocks		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Forest and Grassland Conversion		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Abandonment of Managed Lands		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. CO_2 Emissions and Removals from Soil		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Other		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6. Waste	**0.00**	**23.94**	**24.33**	**24.70**	**25.04**	**25.96**	**27.41**	**26.00**	**26.34**	**26.90**	**27.19**
A. Solid Waste Disposal on Land		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Waste-water Handling		23.03	23.57	23.83	24.20	25.08	26.52	25.11	25.51	26.14	26.40
C. Waste Incineration		0.92	0.76	0.87	0.84	0.88	0.89	0.89	0.83	0.77	0.80
D. Other		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7. Other *(please specify)*	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
		NA	NA	NA	NA	NA	NA	NA	NA	0.00	0.00
Memo Items:											
International Bunkers	**0.00**	**3.13**	**3.28**	**3.04**	**2.80**	**2.76**	**2.85**	**2.89**	**3.10**	**3.17**	**3.08**
Aviation		1.48	1.47	1.49	1.51	1.53	1.62	1.65	1.77	1.74	1.93
Marine		1.66	1.81	1.55	1.29	1.22	1.23	1.23	1.33	1.43	1.14
Multilateral Operations		**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
CO_2 Emissions from Biomass											

TABLE 10 EMISSION TRENDS (HFCs, PFCs and SF_6)
(Sheet 4 of 5)

United States of America
1999
Submission 2001

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year[1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	(Gg)										
Emissions of HFCs[5] - CO_2 equivalent (Gg)	**0.00**	**35,743.33**	**31,638.33**	**36,319.02**	**37,139.33**	**41,474.69**	**51,098.74**	**65,177.41**	**72,236.56**	**89,647.65**	**87,105.19**
HFC-23		2.97	2.63	2.97	2.73	2.69	2.32	2.67	2.58	3.44	2.62
HFC-32*		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02
HFC-41		1.40	0.70	0.29	0.65	5.14	23.80	43.88	50.93	58.65	62.96
HFC-43-10mee		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HFC-125		0.00	0.00	0.24	0.48	0.30	0.48	0.67	0.89	1.12	1.29
HFC-134		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HFC-134a		0.56	0.56	0.63	2.88	6.28	14.35	18.96	23.48	26.85	30.34
HFC-152a		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HFC-143		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HFC-143a		0.00	0.00	0.00	0.01	0.05	0.11	0.21	0.33	0.49	0.68
HFC-227ea		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HFC-236fa		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.12	0.21
HFC-245ca		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions of PFCs[5] - CO_2 equivalent (Gg)	**0.00**	**22,158.83**	**20,113.92**	**19,157.78**	**17,664.34**	**15,694.35**	**16,744.92**	**18,615.77**	**17,843.50**	**16,927.78**	**16,843.57**
CF_4		2.58	2.31	2.18	1.89	1.56	1.54	1.59	1.49	1.39	1.38
C_2F_6		0.59	0.55	0.54	0.58	0.60	0.74	0.90	0.89	0.86	0.85
C_3F_8		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C_4F_{10}		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$c\text{-}C_4F_8$		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C_5F_{12}		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C_6F_{14}		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions of SF_6[5] - CO_2 equivalent (Gg)	**0.00**	**26,000.00**	**27,040.00**	**28,080.00**	**29,020.00**	**29,760.00**	**31,200.00**	**31,300.00**	**33,200.00**	**32,000.00**	**31,800.00**
SF_6		1.09	1.13	1.17	1.21	1.25	1.31	1.31	1.39	1.34	1.33

Chemical	GWP
HFCs	
HFC-23	11700
HFC-32	650
HFC-41	150
HFC-43-10mee	1300
HFC-125	2800
HFC-134	1000
HFC-134a	1300
HFC-152a	140
HFC-143	300
HFC-143a	3800
HFC-227ea	2900
HFC-236fa	6300
HFC-245ca	560
PFCs	
CF_4	6500
C_2F_6	9200
C_3F_8	7000
C_4F_{10}	7000
$c\text{-}C_4F_8$	8700
C_5F_{12}	7500
C_6F_{14}	7400
SF_6	23900

[5] Enter information on the actual emissions. Where estimates are only available for the potential emissions, specify this in a comment to the corresponding cell. Only in this row the emissions are expressed as CO_2 equivalent emissions in order to facilitate data flow among spreadsheets.

* Represents a weighted total of confidential data, which includes emissions of HFC-152a, HFC-227ea, HFC-4310mee, and PFC/PFPEs, the latter being a proxy for a diverse collection of PFCs and perfluoropolyethers (PFPEs) employed for solvent applications.

TABLE 10 EMISSION TRENDS (SUMMARY)
(Sheet 5 of 5)

United States of America
1999
Submission 2001

GREENHOUSE GAS EMISSIONS	Base year[1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	CO_2 equivalent (Gg)										
Net CO_2 emissions/removals	0.00	3,853,047.14	3,814,423.18	3,663,463.21	4,048,731.30	4,140,317.14	4,200,810.34	4,381,799.61	4,496,776.71	4,506,329.49	4,567,749.89
CO_2 emissions (without LUCF) [6]	0.00	4,912,947.14	4,861,223.18	4,960,929.88	5,072,931.30	5,168,817.14	5,219,810.34	5,403,199.61	5,478,676.71	5,489,729.49	5,558,149.89
CH_4	0.00	644,459.49	642,718.35	648,544.07	638,170.89	646,468.10	650,532.39	637,951.13	632,009.44	624,834.01	619,584.42
N_2O	0.00	396,871.55	404,295.51	415,393.49	415,893.01	443,172.61	432,008.27	441,628.52	444,097.12	433,690.74	432,589.31
HFCs	0.00	35,743.33	31,638.33	36,319.02	37,139.33	41,474.69	51,098.74	65,177.41	72,236.56	89,647.65	87,105.19
PFCs	0.00	22,158.83	20,113.92	19,157.78	17,664.34	15,694.35	16,744.92	18,615.77	17,843.50	16,927.78	16,843.57
SF_6	0.00	26,000.00	27,040.00	28,080.00	29,020.00	29,760.00	31,200.00	31,300.00	33,200.00	32,000.00	31,800.00
Total (with net CO_2 emissions/removals)	**0.00**	**4,978,280.35**	**4,940,229.29**	**4,810,957.58**	**5,186,618.87**	**5,316,886.90**	**5,382,394.66**	**5,576,472.43**	**5,696,163.31**	**5,703,429.67**	**5,755,672.39**
Total (without CO_2 from LUCF) [6]	**0.00**	**6,038,180.35**	**5,987,029.29**	**6,108,424.25**	**6,210,818.87**	**6,345,386.90**	**6,401,394.66**	**6,597,872.43**	**6,678,063.31**	**6,686,829.67**	**6,746,072.39**

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year[1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	CO_2 equivalent (Gg)										
1. Energy	0.00	5,158,421.65	5,106,874.47	5,208,139.74	5,311,395.73	5,403,144.43	5,452,911.08	5,629,134.60	5,695,369.18	5,700,945.25	5,761,992.91
2. Industrial Processes	0.00	175,805.88	170,352.27	174,425.72	178,109.52	186,524.87	202,677.06	221,459.27	229,301.96	235,335.22	234,043.92
3. Solvent and 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
4. Agriculture	0.00	450,505.62	454,204.66	466,559.50	458,695.14	491,203.28	479,560.17	484,209.46	489,753.99	491,353.71	488,775.40
5. Land-Use Change and Forestry [7]	0.00	-1,059,900.00	-1,046,800.00	-1,297,466.67	-1,024,200.00	-1,028,500.00	-1,019,000.00	-1,021,400.00	-981,900.00	-983,400.00	-990,400.00
6. Waste	0.00	253,447.20	255,597.89	259,299.29	262,618.49	264,514.32	266,246.34	263,069.11	263,638.19	259,195.50	261,260.16
7. Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

[6] The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report CO_2 emissions and removals from Land-Use Change and Forestry.
[7] Net emissions.

SUMMARY 2 SUMMARY REPORT FOR CO_2 EQUIVALENT EMISSIONS (Sheet 1 of 1)

United States of America
1999
Submission 2001

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 [(1)]	CH_4	N_2O	HFCs	PFCs	SF_6	Total
	CO_2 equivalent (Gg)						
Total (Net Emissions) [(1)]	**4,567,749.89**	**619,584.42**	**432,589.31**	**87,105.19**	**16,843.57**	**31,800.00**	**5,755,672.39**
1. Energy	**5,464,788.74**	**218,151.43**	**79,052.75**				**5,761,992.91**
A. Fuel Combustion (Sectoral Approach)	5,453,088.14	12,621.56	79,052.75				5,544,762.45
1. Energy Industries	1,953,352.50	532.12	8,645.76				1,962,530.39
2. Manufacturing Industries and Construction	1,155,609.76	3,296.79	5,823.37				1,164,729.92
3. Transport	1,677,713.82	4,509.02	63,369.66				1,745,592.50
4. Other Sectors	577,133.24	4,283.63	1,213.95				582,630.82
5. Other	89,278.82	0.00	0.00				89,278.82
B. Fugitive Emissions from Fuels	11,700.60	205,529.87	0.00				217,230.46
1. Solid Fuels	0.00	61,828.15	0.00				61,828.15
2. Oil and Natural Gas	11,700.60	143,701.71	0.00				155,402.31
2. Industrial Processes	**67,401.42**	**1,682.52**	**29,211.21**	**87,105.19**	**16,843.57**	**31,800.00**	**234,043.92**
A. Mineral Products	65,829.18	0.00	0.00				65,829.18
B. Chemical Industry	1,572.24	1,682.52	29,211.21	0.00	0.00	0.00	32,465.97
C. Metal Production	0.00	0.00	0.00		10,040.05	6,100.00	16,140.05
D. Other Production	NE						0.00
E. Production of Halocarbons and SF_6				30,400.00	0.00	0.00	30,400.00
F. Consumption of Halocarbons and SF_6				56,705.19	6,803.52	25,700.00	89,208.72
G. Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3. Solvent and Other Product Use	**0.00**		**0.00**				**0.00**
4. Agriculture	**0.00**	**172,880.28**	**315,895.13**				**488,775.40**
A. Enteric Fermentation		127,201.20					127,201.20
B. Manure Management		34,394.30	17,181.77				51,576.07
C. Rice Cultivation		10,692.97					10,692.97
D. Agricultural Soils [(2)]	IE	0.00	298,281.28				298,281.28
E. Prescribed Burning of Savannas		0.00	0.00				0.00
F. Field Burning of Agricultural Residues		591.81	432.08				1,023.89
G. Other		0.00	0.00				0.00
5. Land-Use Change and Forestry [(1)]	**-990,400.00**	**0.00**	**0.00**				**-990,400.00**
6. Waste	**25,959.73**	**226,870.20**	**8,430.22**				261,260.16
A. Solid Waste Disposal on Land	0.00	214,636.53					214,636.53
B. Wastewater Handling		12,233.68	8,183.31				20,416.99
C. Waste Incineration	25,959.73	0.00	246.91				26,206.64
D. Other	0.00	0.00	0.00				0.00
7. Other *(please specify)*	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
	NA	NA	NA	NA	NA	NA	0.00
Memo Items:							
International Bunkers	**107,345.46**	**44.30**	**953.35**				**108,343.11**
Aviation	60,969.72	35.30	599.03				61,604.05
Marine	46,375.74	9.00	354.32				46,739.06
Multilateral Operations	**NE**	**0.00**	**0.00**				**0.00**
CO_2 Emissions from Biomass	**234,062.51**						**234,062.51**

(1) For CO_2 emissions from Land-Use Change and Forestry the net emissions are to be reported. Please note that for the purposes of reporting, the signs for uptake are always (-) and for emissions (+).
(2) See footnote 4 to Summary 1.A of this common reporting format.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2 emissions	CO_2 removals	Net CO_2 emissions / removals	CH_4	N_2O	Total emissions
Land-Use Change and Forestry	CO_2 equivalent (Gg)					
A. Changes in Forest and Other Woody Biomass Stocks	0.00	-720,900.00	-720,900.00			-720,900.00
B. Forest and Grassland Conversion	0.00		0.00	0.00	0.00	0.00
C. Abandonment of Managed Lands	0.00	0.00	0.00			0.00
D. CO_2 Emissions and Removals from Soil	32,300.00	-294,100.00	-261,800.00			-261,800.00
E. Other	0.00	-7,700.00	-7,700.00	0.00	0.00	-7,700.00
Total CO_2 Equivalent Emissions from Land-Use Change and Forestry	32,300.00	-1,022,700.00	-990,400.00	0.00	0.00	-990,400.00

Total CO_2 Equivalent Emissions without Land-Use Change and Forestry [(a)]	6,746,072.39
Total CO_2 Equivalent Emissions with Land-Use Change and Forestry [(a)]	5,755,672.39

(a) The information in these rows is requested to facilitate comparison of data, since Parties differ in the way they report emissions and removals from Land-Use Change and Forestry.