

別添 10. 共通報告様式 (CRF) の概要

以下に各年の排出状況が分かる CRF の Summary.2 Table を記載する。

日本は、1990 年～1994 年の期間は HFCs、PFCs、SF₆ の潜在排出量のみを報告している。CRF 本体の各年の傾向を示す Table.10 において、1990 年～1994 年の期間は HFCs、PFCs、SF₆ の潜在排出量が示されており、1995 年以降は HFCs、PFCs、SF₆ の実排出量が示されている。

10.1. 1990 年の排出量¹及び吸収量SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)

Inventory 1990
Submission 2007 v1.1
JAPAN

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⁾	1,051,886.15	33,471.48	32,736.96	17,930.00	5,670.00	38,240.00	1,179,934.59
1. Energy	1,059,180.36	3,866.78	6,536.32				1,069,583.46
A. Fuel Combustion (Sectoral Approach)	1,059,143.74	829.64	6,536.20				1,066,509.58
1. Energy Industries	317,760.48	18.37	545.63				318,324.48
2. Manufacturing Industries and Construction	367,681.17	307.45	1,495.92				369,484.54
3. Transport	211,053.69	296.16	4,204.15				215,554.00
4. Other Sectors	161,641.24	207.12	272.31				162,120.66
5. Other	1,007.16	0.54	18.19				1,025.88
B. Fugitive Emissions from Fuels	36.62	3,037.14	0.11				3,073.88
1. Solid Fuels	NE,NO	2,806.43	NE,NO				2,806.43
2. Oil and Natural Gas	36.62	230.71	0.11				267.45
2. Industrial Processes	62,318.39	357.58	8,266.95	17,930.00	5,670.00	38,240.00	132,782.92
A. Mineral Products	57,448.33	NA,NO	NA,NO				57,448.33
B. Chemical Industry	4,513.97	338.22	8,266.95	NA	NA	NA	13,119.14
C. Metal Production	356.09	19.36	NO	NA,NE	NA,NE	NA,NE	375.45
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				NE,NO	NE,NO	NE,NO	NE,NO
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				17,930.00	5,670.00	38,240.00	61,840.00
G. Other	NO	NO	NO	NE,NO	NE,NO	NE,NO	NE,NO
3. Solvent and Other Product Use	NA,NE		287.07				287.07
4. Agriculture		17,894.84	14,323.00				32,217.84
A. Enteric Fermentation		7,641.73					7,641.73
B. Manure Management		3,120.57	5,543.05				8,663.62
C. Rice Cultivation		7,002.78					7,002.78
D. Agricultural Soils ⁽³⁾		NA	8,676.03				8,676.03
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		129.77	103.92				233.69
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-92,311.23	99.33	103.46				-92,108.43
A. Forest Land	-80,776.66	8.31	0.84				-80,767.50
B. Cropland	1,864.81	21.72	95.59				1,982.12
C. Grassland	-4,001.13	3.06	0.31				-3,997.77
D. Wetlands	295.24	1.32	0.13				296.70
E. Settlements	-10,053.43	54.63	5.54				-9,993.26
F. Other Land	359.94	10.30	1.05				371.29
G. Other	NE	NE	NE				NE
6. Waste	22,698.63	11,252.94	3,220.16				37,171.73
A. Solid Waste Disposal on Land	NA,NE,NO	9,070.53					9,070.53
B. Waste-water Handling		2,119.61	1,289.37				3,408.98
C. Waste Incineration	21,995.80	62.80	1,910.66				23,969.26
D. Other	702.83	IE,NE,NO	20.12				722.95
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	30,829.18	42.30	275.80				31,147.29
Aviation	13,189.32	7.84	130.44				13,327.60
Marine	17,639.86	34.47	145.36				17,819.69
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	18,747.30						18,747.30
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,272,043.02
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,179,934.59

⁽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.

10.2. 1991 年の排出量²及び吸収量SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 1991
Submission 2007 v1.1
JAPAN

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⁾	1,062,438.57	33,233.03	32,209.63	18,070.00	6,370.00	43,498.00	1,195,819.23
1. Energy	1,066,681.72	3,629.49	6,814.38				1,077,125.59
A. Fuel Combustion (Sectoral Approach)	1,066,628.05	834.73	6,814.22				1,074,277.00
1. Energy Industries	320,303.88	19.59	568.32				320,891.79
2. Manufacturing Industries and Construction	362,542.37	307.19	1,581.86				364,431.42
3. Transport	222,466.79	298.57	4,367.17				227,132.54
4. Other Sectors	160,314.95	208.77	278.75				160,802.47
5. Other	1,000.07	0.60	18.12				1,018.79
B. Fugitive Emissions from Fuels	53.67	2,794.76	0.16				2,848.59
1. Solid Fuels	NE,NO	2,538.33	NE,NO				2,538.33
2. Oil and Natural Gas	53.67	256.43	0.16				310.26
2. Industrial Processes	63,875.92	347.49	7,539.75	18,070.00	6,370.00	43,498.00	139,701.17
A. Mineral Products	59,052.72	NA,NO	NA,NO				59,052.72
B. Chemical Industry	4,500.16	329.15	7,539.75	NA	NA	NA	12,369.06
C. Metal Production	323.04	18.34	NO	NA,NE	NA,NE	NA,NE	341.38
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				NE,NO	NE,NO	NE,NO	NE,NO
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				18,070.00	6,370.00	43,498.00	67,938.00
G. Other	NO	NO	NO	NE,NO	NE,NO	NE,NO	NE,NO
3. Solvent and Other Product Use	NA,NE		356.85				356.85
4. Agriculture		18,016.38	14,107.72				32,124.09
A. Enteric Fermentation		7,751.70					7,751.70
B. Manure Management		3,116.81	5,499.54				8,616.35
C. Rice Cultivation		7,020.95					7,020.95
D. Agricultural Soils ⁽³⁾		NA	8,509.81				8,509.81
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		126.91	98.37				225.28
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-91,192.13	98.26	96.50				-90,997.37
A. Forest Land	-80,733.64	6.22	0.63				-80,726.79
B. Cropland	1,448.07	12.28	87.77				1,548.12
C. Grassland	-3,515.68	1.75	0.18				-3,513.76
D. Wetlands	277.47	1.20	0.12				278.80
E. Settlements	-9,095.44	64.99	6.60				-9,023.86
F. Other Land	427.09	11.82	1.20				440.11
G. Other	NE	NE	NE				NE
6. Waste	23,073.05	11,141.41	3,294.44				37,508.90
A. Solid Waste Disposal on Land	NA,NE,NO	9,001.32					9,001.32
B. Waste-water Handling		2,077.23	1,311.17				3,388.40
C. Waste Incineration	22,386.61	62.86	1,966.95				24,416.42
D. Other	686.45	IE,NE,NO	16.31				702.76
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	32,531.98	44.64	291.02				32,867.64
Aviation	13,919.12	8.27	137.65				14,065.05
Marine	18,612.86	36.36	153.37				18,802.60
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	18,870.94						18,870.94
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,286,816.60
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,195,819.23

⁽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.

¹ HFCs, PFCs, SF₆については潜在排出量が報告されている

² HFCs, PFCs, SF₆については潜在排出量が報告されている

10.3. 1992 年の排出量³及び吸収量SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 1992
Submission 2007 v1.1
JAPAN

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⁾	1,071,616.78	32,981.24	32,329.31	19,750.00	6,370.00	47,800.00	1,210,847.32
1. Energy	1,073,741.85	3,376.96	6,974.76				1,084,093.57
A. Fuel Combustion (Sectoral Approach)	1,073,684.90	849.62	6,974.59				1,081,509.11
1. Energy Industries	327,020.00	20.45	541.47				327,581.92
2. Manufacturing Industries and Construction	354,334.67	303.22	1,666.08				356,303.98
3. Transport	226,859.69	301.50	4,459.21				231,620.40
4. Other Sectors	164,488.04	223.76	289.85				165,001.65
5. Other	982.50	0.69	17.98				1,001.17
B. Fugitive Emissions from Fuels	56.95	2,527.34	0.17				2,584.46
1. Solid Fuels	NE,NO	2,267.52	NE,NO				2,267.52
2. Oil and Natural Gas	56.95	259.82	0.17				316.94
2. Industrial Processes	63,524.19	322.22	7,452.41	19,750.00	6,370.00	47,800.00	145,218.82
A. Mineral Products	58,818.65	NA,NO	NA,NO				58,818.65
B. Chemical Industry	4,380.50	304.45	7,452.41	NA	NA	NA	12,137.36
C. Metal Production	325.05	17.76	NO	NA,NE	NA,NE	NA,NE	342.81
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				NE,NO	NE,NO	NE,NO	NE,NO
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				19,750.00	6,370.00	47,800.00	73,920.00
G. Other	NO	NO	NO	NE,NO	NE,NO	NE,NO	NE,NO
3. Solvent and Other Product Use	NA,NE		413.01				413.01
4. Agriculture		18,101.56	13,975.66				32,077.22
A. Enteric Fermentation		7,793.32					7,793.32
B. Manure Management		3,089.85	5,447.38				8,537.23
C. Rice Cultivation		7,102.75					7,102.75
D. Agricultural Soils ⁽³⁾		NA	8,437.57				8,437.57
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		115.64	90.72				206.36
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-90,222.78	105.52	92.00				-90,025.27
A. Forest Land	-80,691.83	4.34	0.44				-80,687.05
B. Cropland	1,475.17	14.07	82.72				1,571.95
C. Grassland	-3,306.22	2.05	0.21				-3,303.96
D. Wetlands	375.13	3.85	0.39				379.38
E. Settlements	-8,410.53	71.58	7.26				-8,331.69
F. Other Land	335.49	9.63	0.98				346.10
G. Other	NE	NE	NE				NE
6. Waste	24,573.52	11,074.98	3,421.47				39,069.97
A. Solid Waste Disposal on Land	NA,NE,NO	8,973.56					8,973.56
B. Waste-water Handling		2,038.24	1,296.16				3,334.39
C. Waste Incineration	23,874.62	63.19	2,108.55				26,046.36
D. Other	698.90	IE,NE,NO	16.76				715.66
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	32,937.28	45.03	294.87				33,277.18
Aviation	14,216.76	8.45	140.60				14,365.81
Marine	18,720.51	36.58	154.28				18,911.37
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	18,419.27						18,419.27
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,300,872.60
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,210,847.32

⁽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.

³ HFCs、PFCs、SF₆については潜在排出量が報告されている

10.4. 1993 年の排出量⁴及び吸収量SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 1993
Submission 2007 v1.1
JAPAN

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⁾	1,063,973.01	32,699.42	32,036.55	21,310.00	8,860.00	45,410.00	1,204,288.98
1. Energy	1,067,613.04	3,208.95	7,007.99				1,077,829.99
A. Fuel Combustion (Sectoral Approach)	1,067,559.83	869.73	7,007.83				1,075,437.38
1. Energy Industries	308,959.26	20.39	551.21				309,530.85
2. Manufacturing Industries and Construction	353,672.48	305.06	1,683.79				355,661.33
3. Transport	231,727.93	294.22	4,432.03				236,454.18
4. Other Sectors	172,284.75	249.36	322.72				172,856.82
5. Other	915.40	0.70	18.09				934.19
B. Fugitive Emissions from Fuels	53.21	2,339.23	0.16				2,392.61
1. Solid Fuels	NE,NO	2,075.76	NE,NO				2,075.76
2. Oil and Natural Gas	53.21	263.46	0.16				316.84
2. Industrial Processes	62,767.28	320.55	7,302.85	21,310.00	8,860.00	45,410.00	145,970.68
A. Mineral Products	58,279.87	NA,NO	NA,NO				58,279.87
B. Chemical Industry	4,156.65	303.85	7,302.85	NA	NA	NA	11,763.35
C. Metal Production	330.76	16.70	NO	NA,NE	NA,NE	NA,NE	347.46
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				NE,NO	NE,NO	NE,NO	NE,NO
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				21,310.00	8,860.00	45,410.00	75,580.00
G. Other	NO	NO	NO	NE,NO	NE,NO	NE,NO	NE,NO
3. Solvent and Other Product Use	NA,NE		411.66				411.66
4. Agriculture		18,185.94	13,796.26				31,982.20
A. Enteric Fermentation		7,748.30					7,748.30
B. Manure Management		3,026.51	5,347.77				8,374.27
C. Rice Cultivation		7,292.48					7,292.48
D. Agricultural Soils ⁽³⁾		NA	8,358.06				8,358.06
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		118.65	90.43				209.08
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-90,586.38	97.48	85.48				-90,403.42
A. Forest Land	-80,642.95	23.91	2.43				-80,616.61
B. Cropland	1,057.71	4.99	76.09				1,138.80
C. Grassland	-2,999.32	0.74	0.07				-2,998.50
D. Wetlands	274.21	1.68	0.17				276.06
E. Settlements	-8,755.46	54.09	5.49				-8,695.87
F. Other Land	479.42	12.06	1.22				492.71
G. Other	NE	NE	NE				NE
6. Waste	24,179.07	10,886.50	3,432.30				38,497.87
A. Solid Waste Disposal on Land	NA,NE,NO	8,836.65					8,836.65
B. Waste-water Handling		1,986.60	1,299.83				3,286.43
C. Waste Incineration	23,498.33	63.24	2,114.98				25,676.55
D. Other	680.75	IE,NE,NO	17.48				698.23
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	34,935.20	49.40	310.66				35,295.26
Aviation	13,856.19	8.23	137.03				14,001.45
Marine	21,079.01	41.17	173.63				21,293.81
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	17,568.73						17,568.73
	Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry						1,294,692.40
	Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry						1,204,288.98

⁽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.

⁴ HFCs、PFCs、SF₆については潜在排出量が報告されている

10.5. 1994 年の排出量⁵及び吸収量SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 1994
Submission 2007 v1.1
JAPAN

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⁾	1,124,098.29	31,987.90	33,190.95	28,840.00	12,274.00	45,410.00	1,275,801.14
1. Energy	1,123,001.06	2,847.86	7,327.10				1,133,176.02
A. Fuel Combustion (Sectoral Approach)	1,122,949.91	868.33	7,326.94				1,131,145.18
1. Energy Industries	349,637.32	22.63	622.06				350,282.02
2. Manufacturing Industries and Construction	361,531.01	314.22	1,847.28				363,692.50
3. Transport	243,681.03	295.61	4,513.22				248,489.85
4. Other Sectors	167,240.42	235.14	326.03				167,801.59
5. Other	860.13	0.73	18.35				879.21
B. Fugitive Emissions from Fuels	51.15	1,979.53	0.16				2,030.84
1. Solid Fuels	NE,NO	1,712.96	NE,NO				1,712.96
2. Oil and Natural Gas	51.15	266.57	0.16				317.88
2. Industrial Processes	64,049.23	320.85	8,298.10	28,840.00	12,274.00	45,410.00	159,192.18
A. Mineral Products	59,270.16	NA,NO	NA,NO				59,270.16
B. Chemical Industry	4,433.31	303.40	8,298.10	NA	NA	NA	13,034.81
C. Metal Production	345.76	17.45	NO	NA,NE	NA,NE	NA,NE	363.21
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				NE,NO	NE,NO	NE,NO	NE,NO
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				28,840.00	12,274.00	45,410.00	86,524.00
G. Other	NO	NO	NO	NE,NO	NE,NO	NE,NO	NE,NO
3. Solvent and Other Product Use	NA,NE		438.02				438.02
4. Agriculture		18,041.41	13,491.82				31,533.23
A. Enteric Fermentation		7,660.50					7,660.50
B. Manure Management		2,956.18	5,220.30				8,176.48
C. Rice Cultivation		7,308.38					7,308.38
D. Agricultural Soils ⁽³⁾		NA	8,183.28				8,183.28
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		116.35	88.24				204.59
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽⁴⁾	-90,396.31	78.70	71.20				-90,246.41
A. Forest Land	-80,582.10	17.75	1.80				-80,562.55
B. Cropland	890.35	4.90	63.70				958.95
C. Grassland	-2,777.83	0.73	0.07				-2,777.02
D. Wetlands	269.03	1.84	0.19				271.06
E. Settlements	-8,637.08	42.50	4.31				-8,590.27
F. Other Land	441.32	10.99	1.12				453.43
G. Other	NE	NE	NE				NE
6. Waste	27,444.31	10,699.08	3,564.72				41,708.10
A. Solid Waste Disposal on Land	NA,NE,NO	8,714.31					8,714.31
B. Waste-water Handling		1,920.29	1,264.39				3,184.68
C. Waste Incineration	26,742.39	64.48	2,284.55				29,091.43
D. Other	701.91	IE,NE,NO	15.77				717.68
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	36,093.69	50.02	322.19				36,465.90
Aviation	15,066.49	8.95	149.00				15,224.44
Marine	21,027.20	41.06	173.19				21,241.46
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	17,803.39						17,803.39
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,366,047.55
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,275,801.14

⁽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.

⁵ HFCs、PFCs、SF₆については潜在排出量が報告されている

10.6. 1995 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 1995
Submission 2007 v1.1
JAPAN

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⁾	1,134,338.94	31,024.52	33,505.07	20,211.80	14,045.93	16,928.79	1,250,055.06
1. Energy	1,135,318.29	2,511.31	7,942.05				1,145,771.65
A. Fuel Combustion (Sectoral Approach)	1,135,267.37	901.44	7,941.90				1,144,110.70
1. Energy Industries	337,867.69	23.02	1,033.30				338,924.01
2. Manufacturing Industries and Construction	366,245.96	316.34	1,903.48				368,465.78
3. Transport	251,161.43	306.24	4,649.77				256,117.44
4. Other Sectors	179,123.31	254.95	336.05				179,714.31
5. Other	868.98	0.89	19.30				889.17
B. Fugitive Emissions from Fuels	50.92	1,609.87	0.16				1,660.95
1. Solid Fuels	NE,NO	1,344.68	NE,NO				1,344.68
2. Oil and Natural Gas	50.92	265.19	0.16				316.26
2. Industrial Processes	64,264.52	322.37	8,212.71	20,211.80	14,045.93	16,928.79	123,986.12
A. Mineral Products	59,381.83	NA,NO	NA,NO				59,381.83
B. Chemical Industry	4,525.47	304.45	8,212.71	NA	NA	NA	13,042.62
C. Metal Production	357.22	17.92	NO	NA,NE	69.73	119.50	564.37
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				17,442.52	762.85	4,708.30	22,913.67
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				2,769.29	13,213.35	12,100.99	28,083.63
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		437.58				437.58
4. Agriculture		17,718.38	13,136.08				30,854.45
A. Enteric Fermentation		7,575.17					7,575.17
B. Manure Management		2,895.37	5,111.81				8,007.18
C. Rice Cultivation		7,126.61					7,126.61
D. Agricultural Soils ⁽³⁾		NA	7,935.56				7,935.56
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		121.22	88.70				209.92
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-93,714.09	70.56	62.92				-93,580.60
A. Forest Land	-84,367.09	8.66	0.88				-84,357.56
B. Cropland	850.30	5.10	56.28				911.67
C. Grassland	-2,535.34	0.77	0.08				-2,534.49
D. Wetlands	365.55	4.43	0.45				370.43
E. Settlements	-8,431.55	41.84	4.25				-8,385.46
F. Other Land	404.05	9.77	0.99				414.81
G. Other	NE	NE	NE				NE
6. Waste	28,470.23	10,401.90	3,713.74				42,585.86
A. Solid Waste Disposal on Land	NA,NE,NO	8,476.93					8,476.93
B. Waste-water Handling		1,859.63	1,246.87				3,106.50
C. Waste Incineration	27,802.40	65.34	2,450.63				30,318.37
D. Other	667.83	IE,NE,NO	16.24				684.06
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	38,179.77	51.56	342.39				38,573.71
Aviation	16,922.99	10.06	167.36				17,100.41
Marine	21,256.78	41.50	175.03				21,473.30
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	18,487.35						18,487.35
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,343,635.66
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,250,055.06

(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.

10.7. 1996 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 1996
Submission 2007 v1.1
JAPAN

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⁾	1,147,601.48	30,328.60	34,580.41	19,844.37	14,461.86	17,494.78	1,264,311.50
1. Energy	1,147,173.83	2,461.01	8,148.14				1,157,782.98
A. Fuel Combustion (Sectoral Approach)	1,147,124.46	900.52	8,147.99				1,156,172.96
1. Energy Industries	337,751.05	24.77	1,052.48				338,828.29
2. Manufacturing Industries and Construction	374,481.98	333.19	2,037.80				376,852.97
3. Transport	256,736.87	311.60	4,736.76				261,785.23
4. Other Sectors	177,236.82	230.05	301.23				177,768.10
5. Other	917.74	0.91	19.72				938.37
B. Fugitive Emissions from Fuels	49.37	1,560.49	0.15				1,610.01
1. Solid Fuels	NE,NO	1,297.15	NE,NO				1,297.15
2. Oil and Natural Gas	49.37	263.34	0.15				312.86
2. Industrial Processes	64,029.45	312.02	9,220.07	19,844.37	14,461.86	17,494.78	125,362.55
A. Mineral Products	59,153.87	NA,NO	NA,NO				59,153.87
B. Chemical Industry	4,495.60	293.80	9,220.07	NA	NA	NA	14,009.47
C. Metal Production	379.99	18.22	NO	NA,NE	65.97	143.40	607.58
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				16,050.22	1,008.00	4,182.50	21,240.72
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				3,794.16	13,387.89	13,168.88	30,350.92
G. Other	NO	NO	NO	NE,NO	NO	NE,NO	NE,NO
3. Solvent and Other Product Use	NA,NE		420.94				420.94
4. Agriculture		17,321.41	12,846.60				30,168.01
A. Enteric Fermentation		7,518.23					7,518.23
B. Manure Management		2,851.35	5,044.17				7,895.52
C. Rice Cultivation		6,835.77					6,835.77
D. Agricultural Soils ⁽³⁾		NA	7,717.01				7,717.01
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		116.06	85.41				201.47
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-93,546.22	84.33	56.63				-93,405.26
A. Forest Land	-84,302.72	28.37	2.88				-84,271.47
B. Cropland	742.44	4.10	48.49				795.03
C. Grassland	-2,341.53	0.62	0.06				-2,340.84
D. Wetlands	542.39	8.01	0.81				551.21
E. Settlements	-8,549.14	33.37	3.39				-8,512.38
F. Other Land	362.33	9.87	1.00				373.21
G. Other	NE	NE	NE				NE
6. Waste	29,944.41	10,149.83	3,888.04				43,982.28
A. Solid Waste Disposal on Land	NA,NE,NO	8,258.97					8,258.97
B. Waste-water Handling		1,824.66	1,268.42				3,093.08
C. Waste Incineration	29,303.94	66.20	2,602.93				31,973.08
D. Other	640.47	IE,NE,NO	16.69				657.16
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	30,958.25	35.39	285.44				31,279.08
Aviation	18,441.91	10.96	182.38				18,635.25
Marine	12,516.34	24.43	103.06				12,643.83
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	18,547.51						18,547.51
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,357,716.75
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,264,311.50

⁽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.

10.8. 1997 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 1997
Submission 2007 v1.1
JAPAN

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⁾	1,143,257.63	29,234.16	35,211.28	19,808.45	15,489.63	14,778.35	1,257,779.52
1. Energy	1,143,414.84	2,167.53	8,387.34				1,153,969.72
A. Fuel Combustion (Sectoral Approach)	1,143,366.87	890.29	8,387.20				1,152,644.35
1. Energy Industries	334,252.92	26.47	1,083.59				335,362.98
2. Manufacturing Industries and Construction	376,489.07	315.27	2,197.43				379,001.76
3. Transport	258,735.79	312.57	4,781.94				263,830.30
4. Other Sectors	172,975.47	235.19	304.77				173,515.43
5. Other	913.62	0.79	19.47				933.88
B. Fugitive Emissions from Fuels	47.97	1,277.25	0.15				1,325.37
1. Solid Fuels	NE,NO	1,006.86	NE,NO				1,006.86
2. Oil and Natural Gas	47.97	270.39	0.15				318.51
2. Industrial Processes	62,306.04	260.90	9,742.87	19,808.45	15,489.63	14,778.35	122,386.25
A. Mineral Products	57,478.48	NA,NO	NA,NO				57,478.48
B. Chemical Industry	4,443.09	242.58	9,742.87	NA	NA	NA	14,428.53
C. Metal Production	384.48	18.33	NO	NA,NE	59.51	191.20	653.52
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				15,075.19	1,417.00	2,581.20	19,073.39
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				4,733.26	14,013.12	12,005.95	30,752.34
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		404.60				404.60
4. Agriculture		16,867.21	12,656.92				29,524.12
A. Enteric Fermentation		7,472.96					7,472.96
B. Manure Management		2,802.40	4,989.17				7,791.57
C. Rice Cultivation		6,480.18					6,480.18
D. Agricultural Soils ⁽³⁾		NA	7,584.57				7,584.57
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		111.66	83.18				194.84
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-93,510.77	82.68	49.39				-93,378.70
A. Forest Land	-84,237.45	34.31	3.48				-84,199.66
B. Cropland	606.87	3.06	41.31				651.23
C. Grassland	-2,118.56	0.47	0.05				-2,118.05
D. Wetlands	268.13	1.98	0.20				270.31
E. Settlements	-8,525.03	30.70	3.12				-8,491.21
F. Other Land	495.26	12.16	1.23				508.66
G. Other	NE	NE	NE				NE
6. Waste	31,047.52	9,855.84	3,970.17				44,873.53
A. Solid Waste Disposal on Land	NA,NE,NO	8,011.84					8,011.84
B. Waste-water Handling		1,778.44	1,278.76				3,057.20
C. Waste Incineration	30,392.29	65.56	2,674.00				33,131.84
D. Other	655.23	IE,NE,NO	17.41				672.64
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	35,432.29	43.17	323.34				35,798.80
Aviation	19,134.37	11.37	189.23				19,334.97
Marine	16,297.92	31.80	134.12				16,463.84
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	19,107.10						19,107.10
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,351,158.22
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,257,779.52

⁽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.

10.9. 1998 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 1998
Submission 2007 v1.1
JAPAN

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⁾	1,107,441.89	28,373.43	33,762.81	19,293.12	12,581.06	13,406.89	1,214,859.21	
1. Energy	1,113,103.78	2,003.03	8,264.92				1,123,371.73	
A. Fuel Combustion (Sectoral Approach)	1,113,061.05	865.05	8,264.79				1,122,190.89	
1. Energy Industries	324,060.52	27.84	1,097.31				325,185.66	
2. Manufacturing Industries and Construction	353,373.45	282.39	2,149.74				355,805.58	
3. Transport	257,852.23	301.84	4,675.54				262,829.61	
4. Other Sectors	176,908.91	252.38	323.21				177,484.50	
5. Other	865.95	0.61	18.99				885.55	
B. Fugitive Emissions from Fuels	42.73	1,137.98	0.13				1,180.84	
1. Solid Fuels	NE,NO	872.46	NE,NO				872.46	
2. Oil and Natural Gas	42.73	265.52	0.13				308.38	
2. Industrial Processes	56,237.38	243.52	8,577.87	19,293.12	12,581.06	13,406.89	110,339.85	
A. Mineral Products	52,038.56	NA,NO	NA,NO				52,038.56	
B. Chemical Industry	3,905.71	227.37	8,577.87	NA	NA	NA	12,710.95	
C. Metal Production	293.11	16.15	NO	NA,NE	49.45	406.30	765.01	
D. Other Production	IE						IE	
E. Production of Halocarbons and SF ₆				14,049.73	1,390.00	2,103.20	17,542.93	
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				5,243.39	11,141.61	10,897.39	27,282.39	
G. Other	NO	NO	NO	NO	NO	NO	NO	
3. Solvent and Other Product Use	NA,NE		377.05				377.05	
4. Agriculture		16,559.74	12,525.53				29,085.27	
A. Enteric Fermentation		7,438.25					7,438.25	
B. Manure Management		2,744.51	4,940.43				7,684.94	
C. Rice Cultivation		6,267.74					6,267.74	
D. Agricultural Soils ⁽³⁾		NA	7,502.05				7,502.05	
E. Prescribed Burning of Savannas		NE	NE				NE	
F. Field Burning of Agricultural Residues		109.24	83.05				192.30	
G. Other		NO	NO				NO	
5. Land Use, Land-Use Change and Forestry⁽⁴⁾	-93,038.19	62.39	42.71				-92,933.09	
A. Forest Land	-84,176.72	10.68	1.08				-84,164.96	
B. Cropland	591.73	3.79	36.76				632.28	
C. Grassland	-1,882.00	0.58	0.06				-1,881.37	
D. Wetlands	424.76	6.38	0.65				431.79	
E. Settlements	-8,403.24	31.00	3.15				-8,369.10	
F. Other Land	407.29	9.97	1.01				418.26	
G. Other	NE	NE	NE				NE	
6. Waste	31,138.92	9,504.75	3,974.72				44,618.39	
A. Solid Waste Disposal on Land	NA,NE,NO	7,709.18					7,709.18	
B. Waste-water Handling		1,732.98	1,261.85				2,994.83	
C. Waste Incineration	30,529.80	62.59	2,695.40				33,287.79	
D. Other	609.12	IE,NE,NO	17.47				626.59	
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	
Memo Items:⁽⁴⁾								
International Bunkers	37,361.08	45.77	340.73				37,747.59	
Aviation	20,001.55	11.89	197.80				20,211.24	
Marine	17,359.53	33.89	142.93				17,536.35	
Multilateral Operations	NO	NO	NO				NO	
CO₂ Emissions from Biomass	17,556.58						17,556.58	
	Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,307,792.30
	Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,214,859.21

⁽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.

10.10. 1999 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 1999
Submission 2007 v1.1
JAPAN

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⁾	1,142,809.68	27,711.57	27,381.18	19,786.00	9,736.47	9,105.78	1,236,530.68
1. Energy	1,147,951.44	2,019.94	8,522.79				1,158,494.18
A. Fuel Combustion (Sectoral Approach)	1,147,913.38	890.21	8,522.68				1,157,326.27
1. Energy Industries	341,336.25	30.75	1,217.82				342,584.81
2. Manufacturing Industries and Construction	360,489.40	282.19	2,265.32				363,036.91
3. Transport	260,040.59	300.95	4,662.58				265,004.11
4. Other Sectors	185,218.21	275.80	358.41				185,852.41
5. Other	828.94	0.52	18.56				848.02
B. Fugitive Emissions from Fuels	38.06	1,129.74	0.12				1,167.92
1. Solid Fuels	NE,NO	865.69	NE,NO				865.69
2. Oil and Natural Gas	38.06	264.05	0.12				302.23
2. Industrial Processes	56,232.58	236.22	2,000.86	19,786.00	9,736.47	9,105.78	97,097.90
A. Mineral Products	51,736.11	NA,NO	NA,NO				51,736.11
B. Chemical Industry	4,241.98	220.14	2,000.86	NA	NA	NA	6,462.98
C. Metal Production	254.49	16.08	NO	NA,NE	29.15	645.30	945.02
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				14,256.65	1,273.73	1,529.60	17,059.98
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				5,529.34	8,433.59	6,930.88	20,893.81
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		362.53				362.53
4. Agriculture		16,234.79	12,434.07				28,668.87
A. Enteric Fermentation		7,379.06					7,379.06
B. Manure Management		2,685.52	4,888.02				7,573.54
C. Rice Cultivation		6,062.11					6,062.11
D. Agricultural Soils ⁽³⁾		NA	7,464.10				7,464.10
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		108.11	81.96				190.06
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-92,970.37	53.12	38.57				-92,878.69
A. Forest Land	-84,116.37	5.20	0.53				-84,110.64
B. Cropland	531.03	3.60	33.54				568.17
C. Grassland	-1,757.47	0.55	0.06				-1,756.86
D. Wetlands	391.63	6.04	0.61				398.29
E. Settlements	-8,467.20	26.58	2.70				-8,437.92
F. Other Land	448.01	11.14	1.13				460.28
G. Other	NE	NE	NE				NE
6. Waste	31,596.04	9,167.50	4,022.35				44,785.88
A. Solid Waste Disposal on Land	NA,NE,NO	7,416.86					7,416.86
B. Waste-water Handling		1,685.18	1,225.62				2,910.80
C. Waste Incineration	30,943.46	65.46	2,779.17				33,788.09
D. Other	652.58	IE,NE,NO	17.56				670.13
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	36,022.49	43.75	329.04				36,395.28
Aviation	19,576.46	11.63	193.60				19,781.70
Marine	16,446.03	32.11	135.44				16,613.59
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	18,260.06						18,260.06
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,329,409.37
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,236,530.68

⁽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.

10.11. 2000 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 2000
Submission 2007 v1.1
JAPAN

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)⁽⁴⁾	1,163,732.68	27,022.11	29,925.81	18,585.39	8,610.59	6,823.27	1,254,699.84
1. Energy	1,166,954.21	1,939.65	8,491.76				1,177,385.62
A. Fuel Combustion (Sectoral Approach)	1,166,918.18	893.73	8,491.65				1,176,303.57
1. Energy Industries	348,484.03	31.01	1,262.55				349,777.58
2. Manufacturing Industries and Construction	372,043.44	294.32	2,285.06				374,622.82
3. Transport	259,204.38	298.49	4,563.70				264,066.58
4. Other Sectors	186,325.79	269.36	361.59				186,956.75
5. Other	860.53	0.56	18.74				879.84
B. Fugitive Emissions from Fuels	36.03	1,045.91	0.11				1,082.05
1. Solid Fuels	NE,NO	769.13	NE,NO				769.13
2. Oil and Natural Gas	36.03	276.79	0.11				312.93
2. Industrial Processes	56,877.08	181.23	4,690.09	18,585.39	8,610.59	6,823.27	95,767.65
A. Mineral Products	52,450.67	NA,NO	NA,NO				52,450.67
B. Chemical Industry	4,177.99	164.40	4,690.09	NA	NA	NA	9,032.47
C. Metal Production	248.42	16.84	NO	NA,NE	17.78	1,027.70	1,310.74
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				12,654.54	1,382.60	860.40	14,897.54
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				5,930.85	7,210.20	4,935.17	18,076.22
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		340.99				340.99
4. Agriculture		16,053.79	12,352.69				28,406.48
A. Enteric Fermentation		7,344.65					7,344.65
B. Manure Management		2,644.16	4,844.14				7,488.29
C. Rice Cultivation		5,956.45					5,956.45
D. Agricultural Soils ⁽³⁾			NA	7,427.37			7,427.37
E. Prescribed Burning of Savannas			NE	NE			NE
F. Field Burning of Agricultural Residues		108.54	81.18				189.71
G. Other			NO	NO			NO
5. Land Use, Land-Use Change and Forestry⁽⁴⁾	-93,002.94	46.90	34.16				-92,921.88
A. Forest Land	-84,051.20	7.75	0.79				-84,042.66
B. Cropland	432.06	1.91	29.60				463.56
C. Grassland	-1,643.75	0.29	0.03				-1,643.43
D. Wetlands	419.72	5.74	0.58				426.05
E. Settlements	-8,473.54	22.95	2.33				-8,448.26
F. Other Land	313.77	8.25	0.84				322.86
G. Other	NE	NE	NE				NE
6. Waste	32,904.33	8,800.53	4,016.11				45,720.98
A. Solid Waste Disposal on Land	NA,NE,NO	7,087.66					7,087.66
B. Waste-water Handling		1,636.74	1,213.58				2,850.32
C. Waste Incineration	32,248.42	76.13	2,783.87				35,108.42
D. Other	655.91	IE,NE,NO	18.66				674.57
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	36,731.88	45.17	333.30				37,110.35
Aviation	19,542.61	11.61	191.78				19,746.00
Marine	17,189.28	33.55	141.52				17,364.35
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	18,846.04						18,846.04
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,347,621.72
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,254,699.84

⁽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.

10.12. 2001 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 2001
Submission 2007 v1.1
JAPAN

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⁾	1,148,313.22	26,230.53	26,479.94	15,837.00	7,191.30	5,678.65	1,229,730.64
1. Energy	1,153,330.96	1,721.15	8,476.48				1,163,528.58
A. Fuel Combustion (Sectoral Approach)	1,153,298.52	878.68	8,476.37				1,162,653.58
1. Energy Industries	340,210.70	30.69	1,289.16				341,530.55
2. Manufacturing Industries and Construction	361,924.93	284.81	2,424.15				364,633.89
3. Transport	261,752.88	293.22	4,381.12				266,427.22
4. Other Sectors	188,523.44	269.39	363.04				189,155.86
5. Other	886.57	0.57	18.90				906.05
B. Fugitive Emissions from Fuels	32.44	842.47	0.10				875.00
1. Solid Fuels	NE,NO	570.30	NE,NO				570.30
2. Oil and Natural Gas	32.44	272.17	0.10				304.71
2. Industrial Processes	54,745.15	147.48	1,414.89	15,837.00	7,191.30	5,678.65	85,014.47
A. Mineral Products	50,677.44	NA,NO	NA,NO				50,677.44
B. Chemical Industry	3,857.00	131.64	1,414.89	NA	NA	NA	5,403.52
C. Metal Production	210.71	15.84	NO	NA,NE	15.70	1,147.20	1,389.46
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				9,709.27	1,078.70	788.70	11,576.67
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				6,127.74	6,096.90	3,742.75	15,967.38
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		343.60				343.60
4. Agriculture		15,882.76	12,261.70				28,144.46
A. Enteric Fermentation		7,305.16					7,305.16
B. Manure Management		2,622.92	4,807.13				7,430.05
C. Rice Cultivation		5,846.25					5,846.25
D. Agricultural Soils ⁽³⁾		NA	7,374.65				7,374.65
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		108.43	79.92				188.35
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-92,713.67	50.07	31.34				-92,632.27
A. Forest Land	-83,990.91	12.34	1.25				-83,977.31
B. Cropland	392.88	1.38	26.40				420.66
C. Grassland	-1,547.74	0.21	0.02				-1,547.50
D. Wetlands	426.17	5.87	0.60				432.63
E. Settlements	-8,357.34	21.28	2.16				-8,333.90
F. Other Land	363.26	8.98	0.91				373.15
G. Other	NE	NE	NE				NE
6. Waste	32,950.78	8,429.08	3,951.93				45,331.78
A. Solid Waste Disposal on Land	NA,NE,NO	6,782.81					6,782.81
B. Waste-water Handling		1,584.17	1,196.01				2,780.18
C. Waste Incineration	32,320.25	62.10	2,735.57				35,117.92
D. Other	630.53	IE,NE,NO	20.35				650.88
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	33,571.42	40.10	305.92				33,917.44
Aviation	18,721.34	11.13	183.72				18,916.19
Marine	14,850.08	28.97	122.20				15,001.25
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	17,203.99						17,203.99
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,322,362.91
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,229,730.64

(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.

10.13. 2002 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 2002
Submission 2007 v.1.1
JAPAN

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⁾	1,175,813.51	25,263.16	26,135.65	13,147.94	6,521.39	5,306.86	1,252,188.51
1. Energy	1,193,049.49	1,298.25	8,295.33				1,202,643.07
A. Fuel Combustion (Sectoral Approach)	1,193,018.55	885.53	8,295.24				1,202,199.32
1. Energy Industries	371,369.42	32.31	1,346.47				372,748.20
2. Manufacturing Industries and Construction	368,803.31	288.05	2,436.71				371,528.06
3. Transport	256,577.32	283.77	4,117.60				260,978.68
4. Other Sectors	195,399.01	280.82	375.68				196,055.51
5. Other	869.50	0.59	18.77				888.86
B. Fugitive Emissions from Fuels	30.94	412.72	0.10				443.75
1. Solid Fuels	NE,NO	118.34	NE,NO				118.34
2. Oil and Natural Gas	30.94	294.38	0.10				325.42
2. Industrial Processes	52,613.11	141.64	1,238.77	13,147.94	6,521.39	5,306.86	78,969.72
A. Mineral Products	48,735.04	NA,NO	NA,NO				48,735.04
B. Chemical Industry	3,657.13	125.00	1,238.77	NA	NA	NA	5,020.90
C. Metal Production	220.95	16.64	NO	NA,NE	14.82	1,123.30	1,375.71
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				6,452.46	1,006.10	860.40	8,318.96
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				6,695.48	5,500.47	3,323.16	15,519.12
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		334.05				334.05
4. Agriculture		15,709.68	12,214.37				27,924.05
A. Enteric Fermentation		7,271.70					7,271.70
B. Manure Management		2,604.77	4,779.78				7,384.54
C. Rice Cultivation		5,729.23					5,729.23
D. Agricultural Soils ⁽³⁾		NA	7,357.11				7,357.11
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		103.98	77.47				181.45
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽⁴⁾	-102,804.36	43.23	27.94				-102,733.19
A. Forest Land	-93,496.26	20.53	2.08				-93,473.64
B. Cropland	337.86	1.28	23.68				362.82
C. Grassland	-1,500.17	0.20	0.02				-1,499.95
D. Wetlands	252.32	1.71	0.17				254.21
E. Settlements	-8,670.24	11.69	1.19				-8,657.37
F. Other Land	272.12	7.82	0.79				280.73
G. Other	NE	NE	NE				NE
6. Waste	32,955.27	8,070.35	4,025.19				45,050.81
A. Solid Waste Disposal on Land	NA,NE,NO	6,471.85					6,471.85
B. Waste-water Handling		1,535.47	1,182.91				2,718.38
C. Waste Incineration	32,378.22	63.03	2,822.93				35,264.18
D. Other	577.05	IE,NE,NO	19.35				596.40
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	36,728.93	42.96	335.74				37,107.63
Aviation	21,149.32	12.57	207.55				21,369.44
Marine	15,579.61	30.39	128.19				15,738.19
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	17,917.38						17,917.38
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,354,921.71
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,252,188.51

(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.

10.14. 2003 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 2003
Submission 2007 v.1.1
JAPAN

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⁾	1,183,421.26	24,760.25	25,905.76	12,519.09	6,194.39	4,745.95	1,257,546.69
1. Energy	1,198,319.96	1,238.44	8,043.59				1,207,601.99
A. Fuel Combustion (Sectoral Approach)	1,198,285.50	840.75	8,043.48				1,207,169.73
1. Energy Industries	385,208.36	32.97	1,383.48				386,624.81
2. Manufacturing Industries and Construction	369,126.71	288.24	2,435.08				371,850.03
3. Transport	254,503.21	273.58	3,848.48				258,625.27
4. Other Sectors	188,579.18	245.36	357.69				189,182.23
5. Other	868.04	0.61	18.75				887.40
B. Fugitive Emissions from Fuels	34.46	397.69	0.11				432.26
1. Solid Fuels	NE,NO	93.86	NE,NO				93.86
2. Oil and Natural Gas	34.46	303.83	0.11				338.39
2. Industrial Processes	52,253.05	133.88	1,259.55	12,519.09	6,194.39	4,745.95	77,105.91
A. Mineral Products	48,603.05	NA,NO	NA,NO				48,603.05
B. Chemical Industry	3,408.43	117.38	1,259.55	NA	NA	NA	4,785.36
C. Metal Production	241.57	16.50	NO	NA,NE	15.11	1,013.07	1,286.26
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				5,453.01	971.40	812.60	7,237.01
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				7,066.08	5,207.88	2,920.28	15,194.23
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		320.83				320.83
4. Agriculture		15,580.62	12,148.97				27,729.60
A. Enteric Fermentation		7,176.22					7,176.22
B. Manure Management		2,576.73	4,752.81				7,329.54
C. Rice Cultivation		5,725.83					5,725.83
D. Agricultural Soils ⁽³⁾		NA	7,321.44				7,321.44
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		101.85	74.72				176.57
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-102,731.16	24.46	23.85				-102,682.86
A. Forest Land	-93,483.54	3.90	0.40				-93,479.25
B. Cropland	318.84	1.56	21.52				341.92
C. Grassland	-1,412.49	0.24	0.02				-1,412.22
D. Wetlands	198.47	1.15	0.12				199.74
E. Settlements	-8,526.31	11.35	1.15				-8,513.81
F. Other Land	173.86	6.27	0.64				180.76
G. Other	NE	NE	NE				NE
6. Waste	35,579.41	7,782.85	4,108.97				47,471.23
A. Solid Waste Disposal on Land	NA,NE,NO	6,209.90					6,209.90
B. Waste-water Handling		1,492.08	1,187.68				2,679.76
C. Waste Incineration	35,062.89	80.87	2,901.98				38,045.74
D. Other	516.53	IE,NE,NO	19.31				535.84
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	37,506.71	45.52	340.95				37,893.18
Aviation	20,387.64	12.12	200.08				20,599.83
Marine	17,119.07	33.40	140.87				17,293.34
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	18,296.55						18,296.55
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,360,229.55
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,257,546.69

(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.

10.15. 2004 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 2004
Submission 2007 v.1.1
JAPAN

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⁾	1,185,135.26	24,372.04	25,928.13	8,349.96	6,318.17	4,474.32	1,254,577.89
1. Energy	1,198,728.97	1,215.05	7,777.19				1,207,721.21
A. Fuel Combustion (Sectoral Approach)	1,198,693.97	831.32	7,777.08				1,207,302.38
1. Energy Industries	381,734.58	32.08	1,395.29				383,161.95
2. Manufacturing Industries and Construction	374,636.35	290.22	2,460.67				377,387.24
3. Transport	254,453.45	255.85	3,544.74				258,254.04
4. Other Sectors	187,035.15	252.52	357.87				187,645.54
5. Other	834.45	0.65	18.50				853.61
B. Fugitive Emissions from Fuels	34.99	383.73	0.11				418.83
1. Solid Fuels	NE,NO	66.51	NE,NO				66.51
2. Oil and Natural Gas	34.99	317.21	0.11				352.32
2. Industrial Processes	52,598.31	133.59	1,657.60	8,349.96	6,318.17	4,474.32	73,531.96
A. Mineral Products	48,881.20	NA,NO	NA,NO				48,881.20
B. Chemical Industry	3,459.28	116.58	1,657.60	NA	NA	NA	5,233.47
C. Metal Production	257.84	17.01	NO	NA,NE	14.79	966.76	1,256.40
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				1,466.82	862.82	764.80	3,094.44
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				6,883.15	5,440.55	2,742.77	15,066.46
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		297.54				297.54
4. Agriculture		15,482.07	12,076.94				27,559.01
A. Enteric Fermentation		7,094.97					7,094.97
B. Manure Management		2,538.36	4,723.05				7,261.41
C. Rice Cultivation		5,747.41					5,747.41
D. Agricultural Soils ⁽³⁾		NA	7,280.26				7,280.26
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		101.33	73.63				174.95
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽⁴⁾	-102,466.66	32.95	22.19				-102,411.53
A. Forest Land	-93,459.69	12.12	1.23				-93,446.35
B. Cropland	248.15	1.45	18.99				268.59
C. Grassland	-1,322.37	0.22	0.02				-1,322.12
D. Wetlands	163.57	1.05	0.11				164.72
E. Settlements	-8,259.58	11.65	1.18				-8,246.75
F. Other Land	163.26	6.46	0.66				170.38
G. Other	NE	NE	NE				NE
6. Waste	36,274.64	7,508.38	4,096.67				47,879.69
A. Solid Waste Disposal on Land	NA,NE,NO	5,972.26					5,972.26
B. Waste-water Handling		1,455.91	1,195.89				2,651.80
C. Waste Incineration	35,767.94	80.22	2,881.88				38,730.04
D. Other	506.70	IE,NE,NO	18.90				525.60
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA	NA	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	39,113.12	47.56	355.43				39,516.11
Aviation	21,190.20	12.59	207.95				21,410.75
Marine	17,922.92	34.97	147.47				18,105.36
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	18,188.62						18,188.62
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,356,989.42
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,254,577.89

(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.

10.16. 2005 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 2005
Submission 2007 v1.1
JAPAN

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⁾	1,197,370.02	24,107.95	25,469.82	7,138.11	5,672.53	4,113.64	1,263,872.08
1. Energy	1,202,865.12	1,220.58	7,750.18				1,211,835.87
A. Fuel Combustion (Sectoral Approach)	1,202,827.52	811.11	7,750.06				1,211,388.69
1. Energy Industries	396,922.63	31.64	1,429.78				398,384.04
2. Manufacturing Industries and Construction	366,917.03	280.02	2,711.73				369,908.79
3. Transport	249,643.01	245.43	3,231.37				253,119.81
4. Other Sectors	188,463.47	253.31	358.40				189,075.18
5. Other	881.38	0.71	18.78				900.87
B. Fugitive Emissions from Fuels	37.59	409.47	0.12				447.18
1. Solid Fuels	NE,NO	73.56	NE,NO				73.56
2. Oil and Natural Gas	37.59	335.91	0.12				373.62
2. Industrial Processes	53,925.95	132.90	1,299.94	7,138.11	5,672.53	4,113.64	72,283.08
A. Mineral Products	50,479.01	NA,NO	NA,NO				50,479.01
B. Chemical Industry	3,194.25	116.02	1,299.94	NA	NA	NA	4,610.21
C. Metal Production	252.69	16.88	NO	NA,NE	14.80	913.46	1,197.84
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				809.92	706.72	975.12	2,491.76
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				6,328.19	4,951.00	2,225.07	13,504.26
G. Other	NO	NO	NO	NA,NO	NO	NO	NA,NO
3. Solvent and Other Product Use	NA,NE		266.41				266.41
4. Agriculture		15,430.77	11,975.30				27,406.07
A. Enteric Fermentation		7,040.14					7,040.14
B. Manure Management		2,514.11	4,699.40				7,213.51
C. Rice Cultivation		5,774.68					5,774.68
D. Agricultural Soils ⁽³⁾		NA	7,203.20				7,203.20
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		101.85	72.69				174.54
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-96,098.88	36.71	19.97				-96,042.19
A. Forest Land	-87,503.73	9.85	1.00				-87,492.88
B. Cropland	210.16	1.37	16.39				227.92
C. Grassland	-1,239.30	0.21	0.02				-1,239.06
D. Wetlands	153.04	1.04	0.11				154.19
E. Settlements	-7,869.94	18.87	1.92				-7,849.16
F. Other Land	150.90	5.36	0.54				156.80
G. Other	NE	NE	NE				NE
6. Waste	36,677.83	7,286.99	4,158.02				48,122.84
A. Solid Waste Disposal on Land	NA,NE,NO	5,761.37					5,761.37
B. Waste-water Handling		1,445.32	1,171.72				2,617.04
C. Waste Incineration	36,167.76	80.31	2,966.45				39,214.52
D. Other	510.07	IE,NE,NO	19.84				529.91
7. Other (as specified in Summary I.A)	NA,NO	NA,NO	NA,NO	NA	NA	NA,NO	NA,NO
Memo Items:⁽⁴⁾							
International Bunkers	41,564.88	52.15	375.86				41,992.88
Aviation	21,336.33	12.68	209.39				21,558.39
Marine	20,228.55	39.47	166.47				20,434.49
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	20,004.43						20,004.43
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,359,914.27
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,263,872.08

⁽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.

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