

別添 9. 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。

9.1. 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 2009 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⁾	1,068,836.90	32,630.50	32,062.86	17,930.00	5,670.00	38,240.00	1,195,370.26
1. Energy	1,068,055.66	3,918.50	6,923.55				1,078,897.71
A. Fuel Combustion (Sectoral Approach)	1,068,019.04	881.36	6,923.44				1,075,823.83
1. Energy Industries	324,014.23	29.73	919.81				324,963.77
2. Manufacturing Industries and Construction	371,309.88	347.40	1,527.17				373,184.45
3. Transport	211,053.69	297.11	4,204.15				215,554.95
4. Other Sectors	161,641.24	207.12	272.31				162,120.66
5. Other	NO	NO	NO				NO
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	62,269.01	357.58	8,266.95	17,930.00	5,670.00	38,240.00	132,733.54
A. Mineral Products	57,398.95	NA,NO	NA,NO				57,398.95
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	IE,NE	IE,NA,NE	IE,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		17,911.73	13,695.95				31,607.68
A. Enteric Fermentation		7,674.46					7,674.46
B. Manure Management		3,104.72	5,661.40				8,766.12
C. Rice Cultivation		7,002.78					7,002.78
D. Agricultural Soils ⁽³⁾		NA	7,930.63				7,930.63
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⁾	-74,364.32	8.31	69.12				-74,286.89
A. Forest Land	-80,777.83	8.31	0.84				-80,768.68
B. Cropland	2,057.84	NE,NO	68.27				2,126.11
C. Grassland	-516.21	NE,NO	NE,NO				-516.21
D. Wetlands	292.33	NE,NO	NE,NO				292.33
E. Settlements	3,072.68	NE,NO	NE,NO				3,072.68
F. Other Land	956.66	NE,NO	NE,NO				956.66
G. Other	550.22	NA,NE	NA,NE				550.22
6. Waste	12,876.54	10,434.38	2,820.22				26,131.15
A. Solid Waste Disposal on Land	NA,NE,NO	8,285.86					8,285.86
B. Waste-water Handling		2,120.57	1,289.65				3,410.22
C. Waste Incineration	12,173.71	13.47	1,517.74				13,704.93
D. Other	702.83	14.48	12.83				730.14
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							1,269,657.15
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,195,370.26

⁽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.

9.2. 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 2009 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⁾	1,078,378.74	32,384.24	31,524.61	18,070.00	6,370.00	43,498.00	1,210,225.59
1. Energy	1,075,882.90	3,681.63	7,219.76				1,086,784.28
A. Fuel Combustion (Sectoral Approach)	1,075,829.23	886.87	7,219.59				1,083,935.70
1. Energy Industries	326,759.07	31.17	960.37				327,750.61
2. Manufacturing Industries and Construction	366,288.43	347.45	1,613.29				368,249.17
3. Transport	222,466.79	299.48	4,367.17				227,133.45
4. Other Sectors	160,314.95	208.77	278.75				160,802.47
5. Other	NO	NO	NO				NO
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	63,824.47	347.49	7,539.75	18,070.00	6,370.00	43,498.00	139,649.71
A. Mineral Products	59,001.27	NA,NO	NA,NO				59,001.27
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	IE,NE	IE,NA,NE	IE,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		18,033.03	13,466.04				31,499.07
A. Enteric Fermentation		7,785.46					7,785.46
B. Manure Management		3,099.71	5,607.91				8,707.62
C. Rice Cultivation		7,020.95					7,020.95
D. Agricultural Soils ⁽³⁾		NA	7,759.76				7,759.76
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⁾	-74,253.72	6.22	64.58				-74,182.92
A. Forest Land	-80,734.82	6.22	0.63				-80,727.98
B. Cropland	1,618.87	NE,NO	63.95				1,682.81
C. Grassland	-490.42	NE,NO	NE,NO				-490.42
D. Wetlands	270.99	NE,NO	NE,NO				270.99
E. Settlements	3,544.05	NE,NO	NE,NO				3,544.05
F. Other Land	1,010.33	NE,NO	NE,NO				1,010.33
G. Other	527.29	NA,NE	NA,NE				527.29
6. Waste	12,925.09	10,315.87	2,877.64				26,118.61
A. Solid Waste Disposal on Land	NA,NE,NO	8,212.93					8,212.93
B. Waste-water Handling		2,078.27	1,311.47				3,389.74
C. Waste Incineration	12,238.65	13.07	1,555.89				13,807.61
D. Other	686.45	11.60	10.28				708.32
7. Other (as specified in Summary 1.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							1,284,408.52
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,210,225.59

⁽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 1.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

9.3. 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 2009 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⁾	1,086,957.65	32,110.24	31,602.32	19,750.00	6,370.00	47,800.00	1,224,590.21
1. Energy	1,083,354.31	3,429.22	7,386.13				1,094,169.66
A. Fuel Combustion (Sectoral Approach)	1,083,297.36	901.88	7,385.96				1,091,585.20
1. Energy Industries	333,516.10	31.86	938.32				334,486.28
2. Manufacturing Industries and Construction	358,433.53	343.71	1,698.60				360,475.85
3. Transport	226,859.69	302.54	4,459.19				231,621.42
4. Other Sectors	164,488.04	223.76	289.85				165,001.65
5. Other	NO	NO	NO				NO
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	63,478.22	322.22	7,452.41	19,750.00	6,370.00	47,800.00	145,172.85
A. Mineral Products	58,772.68	NA,NO	NA,NO				58,772.68
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	IE,NE	IE,NA,NE	IE,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		18,118.25	13,291.47				31,409.72
A. Enteric Fermentation		7,827.37					7,827.37
B. Manure Management		3,072.48	5,559.72				8,632.20
C. Rice Cultivation		7,102.75					7,102.75
D. Agricultural Soils ⁽³⁾		NA	7,641.04				7,641.04
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⁾	-73,889.16	4.34	60.80				-73,824.02
A. Forest Land	-80,693.82	4.34	0.44				-80,689.05
B. Cropland	1,634.60	NE,NO	60.36				1,694.96
C. Grassland	-435.20	NE,NO	NE,NO				-435.20
D. Wetlands	366.62	NE,NO	NE,NO				366.62
E. Settlements	3,853.47	NE,NO	NE,NO				3,853.47
F. Other Land	908.06	NE,NO	NE,NO				908.06
G. Other	477.11	NA,NE	NA,NE				477.11
6. Waste	14,014.27	10,236.22	2,998.49				27,248.99
A. Solid Waste Disposal on Land	NA,NE,NO	8,171.57					8,171.57
B. Waste-water Handling		2,039.32	1,296.47				3,335.78
C. Waste Incineration	13,315.38	13.42	1,691.47				15,020.27
D. Other	698.90	11.91	10.55				721.37
7. Other (as specified in Summary 1.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							1,298,414.23
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,224,590.21

⁽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 1.A.

³ HFCs, PFCs, SF₆ については潜在排出量が報告されている

9.4. 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 2009 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⁾	1,078,622.21	31,856.10	31,339.30	21,310.00	8,860.00	45,410.00	1,217,397.62
1. Energy	1,077,043.50	3,261.47	7,421.52				1,087,726.49
A. Fuel Combustion (Sectoral Approach)	1,076,990.29	922.24	7,421.36				1,085,333.88
1. Energy Industries	315,452.73	31.65	949.84				316,434.22
2. Manufacturing Industries and Construction	357,524.88	345.84	1,716.77				359,587.49
3. Transport	231,727.93	295.38	4,432.03				236,455.34
4. Other Sectors	172,284.75	249.36	322.72				172,856.82
5. Other	NO	NO	NO				NO
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	62,722.20	320.55	7,302.85	21,310.00	8,860.00	45,410.00	145,925.60
A. Mineral Products	58,234.79	NA,NO	NA,NO				58,234.79
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	IE,NE	IE,NA,NE	IE,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		18,204.03	13,137.28				31,341.31
A. Enteric Fermentation		7,779.71					7,779.71
B. Manure Management		3,013.19	5,462.75				8,475.95
C. Rice Cultivation		7,292.48					7,292.48
D. Agricultural Soils ⁽³⁾		NA	7,584.10				7,584.10
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⁾	-74,945.32	23.91	59.04				-74,862.37
A. Forest Land	-80,644.21	23.91	2.43				-80,617.88
B. Cropland	1,208.75	NE,NO	56.61				1,265.36
C. Grassland	-456.09	NE,NO	NE,NO				-456.09
D. Wetlands	265.33	NE,NO	NE,NO				265.33
E. Settlements	3,159.32	NE,NO	NE,NO				3,159.32
F. Other Land	1,040.02	NE,NO	NE,NO				1,040.02
G. Other	481.56	NA,NE	NA,NE				481.56
6. Waste	13,801.83	10,046.15	3,006.95				26,854.92
A. Solid Waste Disposal on Land	NA,NE,NO	8,032.66					8,032.66
B. Waste-water Handling		1,987.68	1,300.14				3,287.82
C. Waste Incineration	13,121.08	13.35	1,695.77				14,830.21
D. Other	680.75	12.45	11.03				704.22
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							1,292,259.98
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,217,397.62

(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

9.5. 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 2009 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⁾	1,137,765.93	31,167.61	32,515.71	28,840.00	12,274.00	45,410.00	1,287,973.25
1. Energy	1,133,119.23	2,900.81	7,746.99				1,143,767.03
A. Fuel Combustion (Sectoral Approach)	1,133,068.08	921.28	7,746.83				1,141,736.19
1. Energy Industries	356,214.60	33.80	1,025.56				357,273.96
2. Manufacturing Industries and Construction	365,932.03	355.24	1,881.91				368,169.18
3. Transport	243,681.03	297.10	4,513.33				248,491.46
4. Other Sectors	167,240.42	235.14	326.03				167,801.59
5. Other	NO	NO	NO				NO
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	64,008.03	320.85	8,298.10	28,840.00	12,274.00	45,410.00	159,150.98
A. Mineral Products	59,228.96	NA,NO	NA,NO				59,228.96
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	IE,NE	IE,NA,NE	IE,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		18,068.88	12,849.45				30,918.33
A. Enteric Fermentation		7,691.24					7,691.24
B. Manure Management		2,952.92	5,346.66				8,299.58
C. Rice Cultivation		7,308.38					7,308.38
D. Agricultural Soils ⁽³⁾		NA	7,414.54				7,414.54
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⁽¹⁾	-75,705.65	17.75	48.93				-75,638.97
A. Forest Land	-80,583.14	17.75	1.80				-80,563.58
B. Cropland	1,044.34	NE,NO	47.13				1,091.47
C. Grassland	-416.04	NE,NO	NE,NO				-416.04
D. Wetlands	258.67	NE,NO	NE,NO				258.67
E. Settlements	2,667.64	NE,NO	NE,NO				2,667.64
F. Other Land	1,030.13	NE,NO	NE,NO				1,030.13
G. Other	292.73	NA,NE	NA,NE				292.73
6. Waste	16,344.34	9,859.31	3,134.23				29,337.87
A. Solid Waste Disposal on Land	NA,NE,NO	7,912.13					7,912.13
B. Waste-water Handling		1,921.54	1,264.75				3,186.29
C. Waste Incineration	15,642.42	14.48	1,859.59				17,516.50
D. Other	701.91	11.15	9.88				722.95
7. Other (as specified in Summary 1.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							1,363,612.22
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,287,973.25

⁽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 1.A.

⁵ HFCs, PFCs, SF₆については潜在排出量が報告されている

9.6. 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 2009 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⁾	1,147,028.46	30,228.55	32,885.04	20,260.58	14,363.46	16,961.78	1,261,727.86
1. Energy	1,145,732.91	2,565.25	8,380.66				1,156,678.82
A. Fuel Combustion (Sectoral Approach)	1,145,681.98	955.38	8,380.51				1,155,017.87
1. Energy Industries	344,805.01	34.42	1,454.77				346,294.20
2. Manufacturing Industries and Construction	370,592.23	357.68	1,939.93				372,889.84
3. Transport	251,161.43	308.32	4,649.77				256,119.52
4. Other Sectors	179,123.31	254.95	336.05				179,714.31
5. Other	NO	NO	NO				NO
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	64,223.15	322.37	8,212.71	20,260.58	14,363.46	16,961.78	124,344.05
A. Mineral Products	59,340.46	NA,NO	NA,NO				59,340.46
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	IE,NE	69.74	119.50	564.38
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				17,445.12	762.85	4,708.30	22,916.27
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				2,815.46	13,530.88	12,133.98	28,480.32
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		437.58				437.58
4. Agriculture		17,756.13	12,552.12				30,308.25
A. Enteric Fermentation		7,605.16					7,605.16
B. Manure Management		2,903.14	5,245.71				8,148.85
C. Rice Cultivation		7,126.61					7,126.61
D. Agricultural Soils ⁽³⁾		NA	7,217.71				7,217.71
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⁾	-79,546.36	8.66	41.98				-79,495.72
A. Forest Land	-84,364.58	8.66	0.88				-84,355.05
B. Cropland	973.81	NE,NO	41.10				1,014.91
C. Grassland	-400.61	NE,NO	NE,NO				-400.61
D. Wetlands	354.72	NE,NO	NE,NO				354.72
E. Settlements	2,582.88	NE,NO	NE,NO				2,582.88
F. Other Land	1,003.93	NE,NO	NE,NO				1,003.93
G. Other	303.50	NA,NE	NA,NE				303.50
6. Waste	16,618.75	9,576.14	3,260.00				29,454.89
A. Solid Waste Disposal on Land	NA,NE,NO	7,689.10					7,689.10
B. Waste-water Handling		1,860.70	1,247.18				3,107.88
C. Waste Incineration	15,950.93	14.86	2,002.65				17,968.44
D. Other	667.83	11.48	10.17				689.48
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							1,341,223.59
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,261,727.86

(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.

9.7. 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 2009 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⁾	1,159,046.20	29,559.40	33,943.34	19,906.44	14,893.37	17,535.58	1,274,884.34
1. Energy	1,157,887.62	2,515.56	8,597.81				1,169,001.00
A. Fuel Combustion (Sectoral Approach)	1,157,838.26	955.07	8,597.66				1,167,390.98
1. Energy Industries	345,005.22	36.21	1,484.31				346,525.74
2. Manufacturing Industries and Construction	378,859.35	374.67	2,075.47				381,309.48
3. Transport	256,736.87	314.14	4,736.65				261,787.66
4. Other Sectors	177,236.82	230.05	301.23				177,768.10
5. Other	NO	NO	NO				NO
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	63,988.68	312.02	9,220.07	19,906.44	14,893.37	17,535.58	125,856.17
A. Mineral Products	59,113.10	NA,NO	NA,NO				59,113.10
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	IE,NE	65.88	143.40	607.48
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				16,052.32	1,007.80	4,182.50	21,242.62
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				3,854.13	13,819.70	13,209.68	30,883.51
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		420.94				420.94
4. Agriculture		17,370.86	12,261.57				29,632.43
A. Enteric Fermentation		7,549.92					7,549.92
B. Manure Management		2,869.11	5,183.49				8,052.60
C. Rice Cultivation		6,835.77					6,835.77
D. Agricultural Soils ⁽³⁾		NA	6,992.68				6,992.68
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⁾	-79,881.62	28.37	36.96				-79,816.30
A. Forest Land	-84,300.66	28.37	2.88				-84,269.42
B. Cropland	843.97	NE,NO	34.08				878.04
C. Grassland	-398.63	NE,NO	NE,NO				-398.63
D. Wetlands	527.22	NE,NO	NE,NO				527.22
E. Settlements	2,189.68	NE,NO	NE,NO				2,189.68
F. Other Land	964.10	NE,NO	NE,NO				964.10
G. Other	292.70	NA,NE	NA,NE				292.70
6. Waste	17,051.51	9,332.60	3,406.00				29,790.11
A. Solid Waste Disposal on Land	NA,NE,NO	7,480.02					7,480.02
B. Waste-water Handling		1,825.56	1,268.68				3,094.24
C. Waste Incineration	16,411.04	15.23	2,126.88				18,553.15
D. Other	640.47	11.79	10.44				662.70
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							1,354,700.64
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,274,884.34

(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.

9.8. 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 2009 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⁾	1,154,724.37	28,494.82	34,582.62	19,905.27	16,286.37	15,047.20	1,269,040.66
1. Energy	1,154,899.81	2,222.46	8,860.28				1,165,982.55
A. Fuel Combustion (Sectoral Approach)	1,154,851.84	945.21	8,860.14				1,164,657.19
1. Energy Industries	341,946.69	38.04	1,538.00				343,522.73
2. Manufacturing Industries and Construction	381,193.89	356.70	2,235.44				383,786.02
3. Transport	258,735.79	315.28	4,781.94				263,833.01
4. Other Sectors	172,975.47	235.19	304.77				173,515.43
5. Other	NO	NO	NO				NO
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	62,260.68	260.90	9,742.87	19,905.27	16,286.37	15,047.20	123,503.29
A. Mineral Products	57,433.11	NA,NO	NA,NO				57,433.11
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	IE,NE	59.43	191.20	653.44
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				15,077.99	1,416.80	2,633.78	19,128.57
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				4,827.28	14,810.13	12,222.22	31,859.64
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		404.60				404.60
4. Agriculture		16,922.40	12,062.96				28,985.35
A. Enteric Fermentation		7,503.94					7,503.94
B. Manure Management		2,826.62	5,127.76				7,954.38
C. Rice Cultivation		6,480.18					6,480.18
D. Agricultural Soils ⁽³⁾		NA	6,852.02				6,852.02
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⁾	-80,132.65	34.31	30.74				-80,067.59
A. Forest Land	-84,236.14	34.31	3.48				-84,198.35
B. Cropland	705.14	NE,NO	27.26				732.41
C. Grassland	-377.34	NE,NO	NE,NO				-377.34
D. Wetlands	255.71	NE,NO	NE,NO				255.71
E. Settlements	2,052.66	NE,NO	NE,NO				2,052.66
F. Other Land	1,163.71	NE,NO	NE,NO				1,163.71
G. Other	303.61	NA,NE	NA,NE				303.61
6. Waste	17,696.53	9,054.76	3,481.17				30,232.45
A. Solid Waste Disposal on Land	NA,NE,NO	7,248.79					7,248.79
B. Waste-water Handling		1,778.95	1,278.90				3,057.85
C. Waste Incineration	17,041.30	14.70	2,191.35				19,247.35
D. Other	655.23	12.32	10.91				678.46
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							1,349,108.25
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,269,040.66

(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.

9.9. 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 2009 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⁾	1,118,847.59	27,658.43	33,137.73	19,416.11	13,530.79	13,643.98	1,226,234.63
1. Energy	1,125,006.43	2,053.36	8,754.47				1,135,814.25
A. Fuel Combustion (Sectoral Approach)	1,124,963.70	915.38	8,754.33				1,134,633.41
1. Energy Industries	332,325.38	39.84	1,567.84				333,933.05
2. Manufacturing Industries and Construction	357,877.18	318.87	2,187.37				360,383.42
3. Transport	257,852.23	304.30	4,675.92				262,832.45
4. Other Sectors	176,908.91	252.38	323.21				177,484.50
5. Other	NO	NO	NO				NO
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	56,197.53	243.52	8,577.87	19,416.11	13,530.79	13,643.98	111,609.81
A. Mineral Products	51,998.72	NA,NO	NA,NO				51,998.72
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	IE,NE	49.40	406.30	764.96
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				14,053.43	1,389.50	2,127.10	17,570.03
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				5,362.68	12,091.89	11,110.58	28,565.15
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		377.05				377.05
4. Agriculture		16,623.29	11,932.95				28,556.23
A. Enteric Fermentation		7,465.61					7,465.61
B. Manure Management		2,780.70	5,085.14				7,865.84
C. Rice Cultivation		6,267.74					6,267.74
D. Agricultural Soils ⁽³⁾		NA	6,764.75				6,764.75
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⁽¹⁾	-80,048.78	10.68	25.48				-80,012.62
A. Forest Land	-84,175.63	10.68	1.08				-84,163.86
B. Cropland	677.05	NE,NO	24.40				701.45
C. Grassland	-367.71	NE,NO	NE,NO				-367.71
D. Wetlands	413.05	NE,NO	NE,NO				413.05
E. Settlements	2,034.73	NE,NO	NE,NO				2,034.73
F. Other Land	1,069.75	NE,NO	NE,NO				1,069.75
G. Other	299.97	NA,NE	NA,NE				299.97
6. Waste	17,692.41	8,727.59	3,469.92				29,889.91
A. Solid Waste Disposal on Land	NA,NE,NO	6,967.17					6,967.17
B. Waste-water Handling		1,733.45	1,261.98				2,995.43
C. Waste Incineration	17,083.29	14.53	2,196.92				19,294.74
D. Other	609.12	12.44	11.02				632.58
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							1,306,247.26
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,226,234.63

(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.

9.10. 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 2009 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⁾	1,153,566.96	27,027.43	26,753.19	19,934.65	10,584.07	9,346.88	1,247,213.18
1. Energy	1,160,137.03	2,071.71	9,020.26				1,171,229.00
A. Fuel Combustion (Sectoral Approach)	1,160,098.97	943.29	9,020.15				1,170,062.40
1. Energy Industries	349,727.88	42.70	1,695.50				351,466.08
2. Manufacturing Industries and Construction	365,112.29	321.91	2,304.02				367,738.22
3. Transport	260,040.59	302.88	4,662.22				265,005.70
4. Other Sectors	185,218.21	275.80	358.41				185,852.41
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	38.06	1,128.42	0.12				1,166.60
1. Solid Fuels	NE,NO	865.69	NE,NO				865.69
2. Oil and Natural Gas	38.06	262.73	0.12				300.91
2. Industrial Processes	56,195.37	236.22	2,000.86	19,934.65	10,584.07	9,346.88	98,298.05
A. Mineral Products	51,698.90	NA,NO	NA,NO				51,698.90
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	IE,NE	29.12	645.30	944.99
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				14,260.55	1,270.88	1,570.23	17,101.66
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				5,674.09	9,284.07	7,131.35	22,089.51
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		362.53				362.53
4. Agriculture		16,304.19	11,841.98				28,146.17
A. Enteric Fermentation		7,406.63					7,406.63
B. Manure Management		2,727.35	5,032.95				7,760.30
C. Rice Cultivation		6,062.11					6,062.11
D. Agricultural Soils ⁽³⁾		NA	6,727.08				6,727.08
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⁾	-80,304.04	5.20	23.28				-80,275.56
A. Forest Land	-84,115.40	5.20	0.53				-84,109.67
B. Cropland	632.36	NE,NO	22.75				655.11
C. Grassland	-396.84	NE,NO	NE,NO				-396.84
D. Wetlands	382.55	NE,NO	NE,NO				382.55
E. Settlements	1,843.87	NE,NO	NE,NO				1,843.87
F. Other Land	1,055.89	NE,NO	NE,NO				1,055.89
G. Other	293.52	NA,NE	NA,NE				293.52
6. Waste	17,538.60	8,410.11	3,504.27				29,452.99
A. Solid Waste Disposal on Land	NA,NE,NO	6,698.38					6,698.38
B. Waste-water Handling		1,685.23	1,225.63				2,910.86
C. Waste Incineration	16,886.03	14.03	2,267.59				19,167.65
D. Other	652.58	12.48	11.05				676.10
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							1,327,488.74
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,247,213.18

(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.

9.11. 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 2009 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⁾	1,173,969.66	26,372.42	29,297.08	18,800.50	9,664.87	7,255.19	1,265,359.72
1. Energy	1,180,062.26	1,998.90	9,015.21				1,191,076.38
A. Fuel Combustion (Sectoral Approach)	1,180,026.24	955.75	9,015.10				1,189,997.09
1. Energy Industries	357,482.45	43.66	1,765.27				359,291.37
2. Manufacturing Industries and Construction	377,013.61	344.76	2,327.12				379,685.50
3. Transport	259,204.38	297.97	4,561.12				264,063.47
4. Other Sectors	186,325.79	269.36	361.59				186,956.75
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	36.03	1,043.15	0.11				1,079.29
1. Solid Fuels	NE,NO	769.13	NE,NO				769.13
2. Oil and Natural Gas	36.03	274.02	0.11				310.16
2. Industrial Processes	56,838.55	181.23	4,690.09	18,800.50	9,664.87	7,255.19	97,430.43
A. Mineral Products	52,412.14	NA,NO	NA,NO				52,412.14
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	IE,NE	17.78	1,027.70	1,310.74
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				12,659.84	1,359.00	932.10	14,950.94
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				6,140.66	8,288.08	5,295.39	19,724.13
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		340.99				340.99
4. Agriculture		16,126.59	11,759.07				27,885.66
A. Enteric Fermentation		7,374.09					7,374.09
B. Manure Management		2,687.52	4,983.77				7,671.29
C. Rice Cultivation		5,956.45					5,956.45
D. Agricultural Soils ⁽³⁾		NA	6,694.13				6,694.13
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⁽¹⁾	-80,666.00	7.75	21.24				-80,637.01
A. Forest Land	-84,050.40	7.75	0.79				-84,041.86
B. Cropland	514.24	NE,NO	20.46				534.70
C. Grassland	-459.84	NE,NO	NE,NO				-459.84
D. Wetlands	407.19	NE,NO	NE,NO				407.19
E. Settlements	1,662.91	NE,NO	NE,NO				1,662.91
F. Other Land	927.03	NE,NO	NE,NO				927.03
G. Other	332.87	NA,NE	NA,NE				332.87
6. Waste	17,734.85	8,057.94	3,470.47				29,263.26
A. Solid Waste Disposal on Land	NA,NE,NO	6,394.39					6,394.39
B. Waste-water Handling		1,636.91	1,213.64				2,850.55
C. Waste Incineration	17,078.93	13.33	2,245.04				19,337.30
D. Other	655.91	13.31	11.79				681.02
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							1,345,996.72
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,265,359.72

⁽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.

9.12. 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 2009 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⁾	1,157,979.40	25,607.97	25,832.72	16,168.43	8,072.31	6,041.49	1,239,702.33
1. Energy	1,167,567.34	1,767.57	9,016.92				1,178,351.83
A. Fuel Combustion (Sectoral Approach)	1,167,534.90	929.39	9,016.82				1,177,481.11
1. Energy Industries	349,717.22	43.71	1,810.66				351,571.58
2. Manufacturing Industries and Construction	367,541.37	323.86	2,465.48				370,330.70
3. Transport	261,752.88	292.43	4,377.65				266,422.96
4. Other Sectors	188,523.44	269.39	363.04				189,155.86
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	32.44	838.18	0.10				870.72
1. Solid Fuels	NE,NO	570.30	NE,NO				570.30
2. Oil and Natural Gas	32.44	267.88	0.10				300.42
2. Industrial Processes	54,714.54	147.48	1,414.89	16,168.43	8,072.31	6,041.49	86,559.14
A. Mineral Products	50,646.83	NA,NO	NA,NO				50,646.83
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	IE,NE	15.73	1,147.20	1,389.48
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				9,713.43	1,082.60	869.96	11,665.99
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				6,455.00	6,973.98	4,024.33	17,453.32
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		343.60				343.60
4. Agriculture		15,955.52	11,655.68				27,611.20
A. Enteric Fermentation		7,339.19					7,339.19
B. Manure Management		2,661.66	4,936.91				7,598.57
C. Rice Cultivation		5,846.25					5,846.25
D. Agricultural Soils ⁽³⁾		NA	6,638.84				6,638.84
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⁾	-80,821.13	12.34	19.60				-80,789.19
A. Forest Land	-83,989.82	12.34	1.25				-83,976.23
B. Cropland	446.64	NE,NO	18.34				464.98
C. Grassland	-473.64	NE,NO	NE,NO				-473.64
D. Wetlands	414.80	NE,NO	NE,NO				414.80
E. Settlements	1,562.32	NE,NO	NE,NO				1,562.32
F. Other Land	971.26	NE,NO	NE,NO				971.26
G. Other	247.31	NA,NE	NA,NE				247.31
6. Waste	16,518.65	7,725.06	3,382.03				27,625.74
A. Solid Waste Disposal on Land	NA,NE,NO	6,113.84					6,113.84
B. Waste-water Handling		1,584.18	1,196.01				2,780.20
C. Waste Incineration	15,888.12	12.60	2,173.23				18,073.95
D. Other	630.53	14.44	12.79				657.75
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							1,320,491.52
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,239,702.33

(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.

9.13. 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 2009 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⁾	1,185,613.47	24,678.16	25,468.99	13,692.41	7,496.05	5,718.90	1,262,667.98
1. Energy	1,208,180.17	1,347.56	8,855.73				1,218,383.46
A. Fuel Combustion (Sectoral Approach)	1,208,149.23	941.13	8,855.64				1,217,945.99
1. Energy Industries	381,371.44	44.72	1,889.28				383,305.44
2. Manufacturing Industries and Construction	374,801.46	333.32	2,479.98				377,614.75
3. Transport	256,577.32	282.27	4,110.70				260,970.29
4. Other Sectors	195,399.01	280.82	375.68				196,055.51
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	30.94	406.44	0.10				437.47
1. Solid Fuels	NE,NO	118.34	NE,NO				118.34
2. Oil and Natural Gas	30.94	288.10	0.10				319.13
2. Industrial Processes	52,577.51	141.64	1,238.77	13,692.41	7,496.05	5,718.90	80,865.29
A. Mineral Products	48,699.43	NA,NO	NA,NO				48,699.43
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	IE,NE	14.83	1,123.30	1,375.72
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				6,456.62	1,009.92	1,003.80	8,470.34
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				7,235.79	6,471.29	3,591.80	17,298.89
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		334.05				334.05
4. Agriculture		15,780.27	11,584.10				27,364.37
A. Enteric Fermentation		7,306.98					7,306.98
B. Manure Management		2,640.07	4,908.08				7,548.15
C. Rice Cultivation		5,729.23					5,729.23
D. Agricultural Soils ⁽³⁾		NA	6,598.55				6,598.55
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⁽¹⁾	-91,087.07	20.53	18.15				-91,048.39
A. Forest Land	-93,495.88	20.53	2.08				-93,473.26
B. Cropland	390.39	NE,NO	16.07				406.45
C. Grassland	-465.58	NE,NO	NE,NO				-465.58
D. Wetlands	239.49	NE,NO	NE,NO				239.49
E. Settlements	1,138.97	NE,NO	NE,NO				1,138.97
F. Other Land	835.65	NE,NO	NE,NO				835.65
G. Other	269.89	NA,NE	NA,NE				269.89
6. Waste	15,942.87	7,388.15	3,438.18				26,769.20
A. Solid Waste Disposal on Land	NA,NE,NO	5,830.23					5,830.23
B. Waste-water Handling		1,532.89	1,180.95				2,713.84
C. Waste Incineration	15,365.82	11.24	2,245.00				17,622.06
D. Other	577.05	13.80	12.23				603.07
7. Other (as specified in Summary 1.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							1,353,716.37
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,262,667.98

(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 1.A.

9.14. 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 2009 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⁾	1,192,548.63	24,196.20	25,224.38	13,760.54	7,259.78	5,409.28	1,268,398.80
1. Energy	1,214,275.31	1,307.17	8,614.84				1,224,197.31
A. Fuel Combustion (Sectoral Approach)	1,214,240.85	917.81	8,614.73				1,223,773.39
1. Energy Industries	395,393.31	45.17	1,939.33				397,377.81
2. Manufacturing Industries and Construction	375,765.15	356.53	2,484.47				378,606.15
3. Transport	254,503.21	270.75	3,833.24				258,607.20
4. Other Sectors	188,579.18	245.36	357.69				189,182.23
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	34.46	389.36	0.11				423.92
1. Solid Fuels	NE,NO	93.86	NE,NO				93.86
2. Oil and Natural Gas	34.46	295.49	0.11				330.06
2. Industrial Processes	52,215.50	133.88	1,259.55	13,760.54	7,259.78	5,409.28	80,038.52
A. Mineral Products	48,565.50	NA,NO	NA,NO				48,565.50
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	IE,NE	15.21	1,125.53	1,398.81
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				5,459.50	965.60	965.56	7,390.66
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				8,301.04	6,278.97	3,318.19	17,898.20
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		320.83				320.83
4. Agriculture		15,643.91	11,510.07				27,153.97
A. Enteric Fermentation		7,211.54					7,211.54
B. Manure Management		2,604.69	4,878.79				7,483.48
C. Rice Cultivation		5,725.83					5,725.83
D. Agricultural Soils ⁽³⁾		NA	6,556.56				6,556.56
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⁾	-91,368.15	3.90	15.00				-91,349.25
A. Forest Land	-93,482.73	3.90	0.40				-93,478.44
B. Cropland	366.97	NE,NO	14.60				381.57
C. Grassland	-483.52	NE,NO	NE,NO				-483.52
D. Wetlands	188.24	NE,NO	NE,NO				188.24
E. Settlements	1,076.03	NE,NO	NE,NO				1,076.03
F. Other Land	720.50	NE,NO	NE,NO				720.50
G. Other	246.37	NA,NE	NA,NE				246.37
6. Waste	17,425.97	7,107.34	3,504.10				28,037.41
A. Solid Waste Disposal on Land	NA,NE,NO	5,590.69					5,590.69
B. Waste-water Handling		1,492.10	1,187.68				2,679.78
C. Waste Incineration	16,909.44	10.69	2,304.14				19,224.27
D. Other	516.53	13.87	12.28				542.68
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	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							1,359,748.06
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,268,398.80

(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.

9.15. 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 2009 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⁾	1,190,898.87	23,817.73	25,300.68	10,551.07	7,547.62	5,314.40	1,263,430.38
1. Energy	1,214,568.62	1,281.45	8,336.40				1,224,186.47
A. Fuel Combustion (Sectoral Approach)	1,214,533.63	908.48	8,336.29				1,223,778.40
1. Energy Industries	391,103.71	43.71	1,942.94				393,090.36
2. Manufacturing Industries and Construction	381,941.32	361.07	2,512.84				384,815.23
3. Transport	254,453.45	251.19	3,522.64				258,227.28
4. Other Sectors	187,035.15	252.52	357.87				187,645.54
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	34.99	372.97	0.11				408.07
1. Solid Fuels	NE,NO	66.51	NE,NO				66.51
2. Oil and Natural Gas	34.99	306.45	0.11				341.56
2. Industrial Processes	52,555.70	143.47	1,657.60	10,551.07	7,547.62	5,314.40	77,769.87
A. Mineral Products	48,838.58	NA,NO	NA,NO				48,838.58
B. Chemical Industry	3,459.28	126.46	1,657.60	NA	NA	NA	5,243.34
C. Metal Production	257.84	17.01	NO	IE,NE	14.80	1,111.02	1,400.67
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				1,469.74	866.84	979.90	3,316.48
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				9,081.34	6,665.98	3,223.48	18,970.79
G. Other	NO	NO	NO	NO	NO	NO	NO
3. Solvent and Other Product Use	NA,NE		297.54				297.54
4. Agriculture		15,539.14	11,450.19				26,989.33
A. Enteric Fermentation		7,130.82					7,130.82
B. Manure Management		2,559.59	4,851.13				7,410.72
C. Rice Cultivation		5,747.41					5,747.41
D. Agricultural Soils ⁽³⁾		NA	6,525.44				6,525.44
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⁽¹⁾	-91,613.03	12.12	13.33				-91,587.58
A. Forest Land	-93,459.11	12.12	1.23				-93,445.76
B. Cropland	304.92	NE,NO	12.10				317.01
C. Grassland	-530.04	NE,NO	NE,NO				-530.04
D. Wetlands	154.41	NE,NO	NE,NO				154.41
E. Settlements	1,017.46	NE,NO	NE,NO				1,017.46
F. Other Land	663.07	NE,NO	NE,NO				663.07
G. Other	236.27	NA,NE	NA,NE				236.27
6. Waste	15,387.58	6,841.55	3,545.61				25,774.74
A. Solid Waste Disposal on Land	NA,NE,NO	5,361.78					5,361.78
B. Waste-water Handling		1,455.90	1,195.89				2,651.79
C. Waste Incineration	14,880.88	10.31	2,337.71				17,228.90
D. Other	506.70	13.56	12.01				532.28
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							1,355,017.96
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,263,430.38

(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.

9.16. 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 2009 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⁾	1,201,727.70	23,430.43	24,857.36	10,600.86	7,058.34	4,581.68	1,272,256.38
1. Energy	1,218,775.72	1,287.30	8,330.82				1,228,393.84
A. Fuel Combustion (Sectoral Approach)	1,218,738.12	891.55	8,330.70				1,227,960.38
1. Energy Industries	406,196.01	42.71	1,981.90				408,220.62
2. Manufacturing Industries and Construction	375,515.88	357.61	2,770.91				378,644.40
3. Transport	249,534.32	238.01	3,221.15				252,993.48
4. Other Sectors	187,491.91	253.23	356.74				188,101.88
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	37.60	395.74	0.12				433.46
1. Solid Fuels	NE,NO	73.56	NE,NO				73.56
2. Oil and Natural Gas	37.60	322.18	0.12				359.90
2. Industrial Processes	53,857.98	133.78	1,299.94	10,600.86	7,058.34	4,581.68	77,532.58
A. Mineral Products	50,431.35	NA,NO	NA,NO				50,431.35
B. Chemical Industry	3,184.71	116.89	1,299.94	NA	NA	NA	4,601.54
C. Metal Production	241.93	16.89	NO	IE,NE	14.80	1,114.29	1,387.91
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				816.01	837.49	789.03	2,442.53
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				9,784.85	6,206.05	2,678.36	18,669.26
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		15,476.55	11,355.32				26,831.87
A. Enteric Fermentation		7,087.06					7,087.06
B. Manure Management		2,512.80	4,848.69				7,361.49
C. Rice Cultivation		5,774.68					5,774.68
D. Agricultural Soils ⁽³⁾		NA	6,433.45				6,433.45
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		102.01	73.18				175.19
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-85,607.65	9.14	10.98				-85,587.53
A. Forest Land	-87,504.26	9.14	0.93				-87,494.19
B. Cropland	259.37	NE,NO	10.05				269.42
C. Grassland	-593.42	NE,NO	NE,NO				-593.42
D. Wetlands	142.11	NE,NO	NE,NO				142.11
E. Settlements	1,260.56	NE,NO	NE,NO				1,260.56
F. Other Land	596.73	NE,NO	NE,NO				596.73
G. Other	231.25	NA,NE	NA,NE				231.25
6. Waste	14,701.65	6,523.67	3,593.90				24,819.22
A. Solid Waste Disposal on Land	NA,NE,NO	5,093.60					5,093.60
B. Waste-water Handling		1,405.96	1,168.64				2,574.60
C. Waste Incineration	14,194.84	9.79	2,412.57				16,617.19
D. Other	506.81	14.32	12.69				533.82
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	21,743.30						21,743.30
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,357,843.92
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,272,256.38

(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.

9.17. 2006 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 2006
Submission 2009 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⁾	1,188,441.82	23,039.47	24,748.42	11,623.37	7,385.00	5,147.13	1,260,385.21
1. Energy	1,201,570.04	1,325.17	8,089.20				1,210,984.41
A. Fuel Combustion (Sectoral Approach)	1,201,534.16	916.66	8,089.08				1,210,539.89
1. Energy Industries	395,570.67	44.65	1,980.45				397,595.77
2. Manufacturing Industries and Construction	381,831.23	368.68	2,789.82				384,989.73
3. Transport	246,335.07	222.75	2,974.16				249,531.98
4. Other Sectors	177,797.18	280.57	344.65				178,422.40
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	35.89	408.51	0.11				444.51
1. Solid Fuels	NE,NO	68.12	NE,NO				68.12
2. Oil and Natural Gas	35.89	340.40	0.11				376.40
2. Industrial Processes	53,862.07	133.03	1,624.72	11,623.37	7,385.00	5,147.13	79,775.32
A. Mineral Products	50,463.61	NA,NO	NA,NO				50,463.61
B. Chemical Industry	3,220.92	115.87	1,624.72	NA	NA	NA	4,961.51
C. Metal Production	177.55	17.16	NO	IE,NE	14.82	1,045.67	1,255.21
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				938.25	879.14	1,648.34	3,465.72
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				10,685.13	6,491.03	2,453.12	19,629.27
G. Other	NO	NO	NO	NA,NO	NO	NO	NA,NO
3. Solvent and Other Product Use	NA,NE		244.76				244.76
4. Agriculture		15,398.99	11,310.80				26,709.79
A. Enteric Fermentation		7,105.06					7,105.06
B. Manure Management		2,448.35	4,854.39				7,302.74
C. Rice Cultivation		5,742.87					5,742.87
D. Agricultural Soils ⁽³⁾		NA	6,381.59				6,381.59
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		102.71	74.82				177.54
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-81,734.94	2.44	9.11				-81,723.39
A. Forest Land	-83,392.26	2.44	0.25				-83,389.58
B. Cropland	256.73	NE,NO	8.87				265.60
C. Grassland	-620.84	NE,NO	NE,NO				-620.84
D. Wetlands	186.88	NE,NO	NE,NO				186.88
E. Settlements	924.42	NE,NO	NE,NO				924.42
F. Other Land	679.80	NE,NO	NE,NO				679.80
G. Other	230.34	NA,NE	NA,NE				230.34
6. Waste	14,744.65	6,179.84	3,469.83				24,394.31
A. Solid Waste Disposal on Land	NA,NE,NO	4,784.19					4,784.19
B. Waste-water Handling		1,369.21	1,159.00				2,528.21
C. Waste Incineration	14,222.29	9.81	2,296.09				16,528.18
D. Other	522.36	16.64	14.74				553.73
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	38,991.92	48.99	352.50				39,393.41
Aviation	19,964.61	11.87	195.93				20,172.40
Marine	19,027.31	37.12	156.58				19,221.01
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	21,978.52						21,978.52
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,342,108.59
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,260,385.21

(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.

9.18. 2007 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO₂ EQUIVALENT EMISSIONS
(Sheet 1 of 1)Inventory 2007
Submission 2009 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⁾	1,222,418.57	22,605.89	23,799.85	13,210.14	6,483.42	4,385.01	1,292,902.88
1. Energy	1,235,264.94	1,285.72	7,942.60				1,244,493.26
A. Fuel Combustion (Sectoral Approach)	1,235,227.42	869.24	7,942.48				1,244,039.14
1. Energy Industries	448,564.29	50.20	2,064.45				450,678.94
2. Manufacturing Industries and Construction	381,040.08	369.24	2,778.45				384,187.77
3. Transport	241,587.08	209.22	2,783.33				244,579.63
4. Other Sectors	164,035.96	240.58	316.25				164,592.80
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	37.53	416.48	0.12				454.12
1. Solid Fuels	NE,NO	51.48	NE,NO				51.48
2. Oil and Natural Gas	37.53	365.00	0.12				402.65
2. Industrial Processes	53,729.84	133.81	860.18	13,210.14	6,483.42	4,385.01	78,802.40
A. Mineral Products	50,218.95	NA,NO	NA,NO				50,218.95
B. Chemical Industry	3,298.87	116.51	860.18	NA	NA	NA	4,275.56
C. Metal Production	212.02	17.30	NO	IE,NE	14.69	996.13	1,240.14
D. Other Production	IE						IE
E. Production of Halocarbons and SF ₆				497.61	783.02	1,270.43	2,551.06
F. Consumption of Halocarbons and SF ₆ ⁽²⁾				12,712.54	5,685.71	2,118.45	20,516.69
G. Other	NO	NO	NO	NA,NO	NO	NO	NA,NO
3. Solvent and Other Product Use	NA,NE		244.76				244.76
4. Agriculture		15,271.86	11,274.42				26,546.28
A. Enteric Fermentation		7,120.61					7,120.61
B. Manure Management		2,394.07	4,860.72				7,254.79
C. Rice Cultivation		5,654.25					5,654.25
D. Agricultural Soils ⁽³⁾		NA	6,337.41				6,337.41
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		102.93	76.29				179.23
G. Other		NO	NO				NO
5. Land Use, Land-Use Change and Forestry⁽¹⁾	-81,362.60	1.91	8.05				-81,352.64
A. Forest Land	-82,867.02	1.91	0.19				-82,864.91
B. Cropland	265.44	NE,NO	7.86				273.30
C. Grassland	-614.90	NE,NO	NE,NO				-614.90
D. Wetlands	167.06	NE,NO	NE,NO				167.06
E. Settlements	848.78	NE,NO	NE,NO				848.78
F. Other Land	607.70	NE,NO	NE,NO				607.70
G. Other	230.34	NA,NE	NA,NE				230.34
6. Waste	14,786.39	5,912.58	3,469.83				24,168.81
A. Solid Waste Disposal on Land	NA,NE,NO	4,516.93					4,516.93
B. Waste-water Handling		1,369.21	1,159.00				2,528.21
C. Waste Incineration	14,226.64	9.81	2,296.09				16,532.54
D. Other	559.75	16.64	14.74				591.13
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	37,303.01	47.96	336.41				37,687.38
Aviation	18,358.58	10.91	180.16				18,549.66
Marine	18,944.42	37.05	156.25				19,137.72
Multilateral Operations	NO	NO	NO				NO
CO₂ Emissions from Biomass	22,957.60						22,957.60
Total CO ₂ Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,374,255.51
Total CO ₂ Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,292,902.88

(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 1.A.

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