



表 A9-2 1991 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1991  
Submission 2014 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,075,803.89</b>	<b>32,026.37</b>	<b>29,339.48</b>	<b>13,715.57</b>	<b>6,066.17</b>	<b>14,677.86</b>	<b>1,171,629.35</b>
<b>1. Energy</b>	<b>1,076,104.87</b>	<b>3,980.03</b>	<b>7,044.77</b>				<b>1,087,129.67</b>
A. Fuel Combustion (Sectoral Approach)	1,076,051.20	893.28	7,044.61				1,083,989.08
1. Energy Industries	326,986.60	31.17	955.51				327,973.28
2. Manufacturing Industries and Construction	366,282.86	355.85	1,430.13				368,068.84
3. Transport	222,469.95	297.19	4,379.09				227,146.23
4. Other Sectors	160,311.79	209.06	279.88				160,800.73
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	53.67	3,086.75	0.16				3,140.59
1. Solid Fuels	NE,NO	2,830.32	NE,NO				2,830.32
2. Oil and Natural Gas	53.67	256.43	0.16				310.26
<b>2. Industrial Processes</b>	<b>60,982.03</b>	<b>347.06</b>	<b>7,539.75</b>	<b>13,715.57</b>	<b>6,066.17</b>	<b>14,677.86</b>	<b>103,328.44</b>
A. Mineral Products	56,474.62	NA,NO	NA,NO				56,474.62
B. Chemical Industry	4,184.37	328.72	7,539.75	NA	NA	NA	12,052.84
C. Metal Production	323.04	18.34	NO	IE,NE,NO	115.11	132.54	589.03
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				13,715.57	319.67	4,066.26	18,101.50
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				18,070.00	5,631.39	10,479.06	34,180.46
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>356.85</b>				<b>356.85</b>
<b>4. Agriculture</b>		<b>17,681.22</b>	<b>11,435.42</b>				<b>29,116.65</b>
A. Enteric Fermentation		7,661.67					7,661.67
B. Manure Management		2,941.56	3,172.69				6,114.25
C. Rice Cultivation		6,977.75					6,977.75
D. Agricultural Soils <sup>(3)</sup>		NA	8,235.51				8,235.51
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		100.24	27.22				127.46
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-74,267.57</b>	<b>6.36</b>	<b>67.28</b>				<b>-74,193.94</b>
A. Forest Land	-85,920.88	6.36	1.46				-85,913.06
B. Cropland	3,209.26	NE,NO	65.81				3,275.08
C. Grassland	-341.21	NE,NO	NE,NO				-341.21
D. Wetlands	81.15	NE,NO	NE,NO				81.15
E. Settlements	6,046.60	NE,NO	NE,NO				6,046.60
F. Other Land	2,130.12	NO	NO				2,130.12
G. Other	527.37	NA,NE	NA,NE				527.37
<b>6. Waste</b>	<b>12,984.57</b>	<b>10,011.70</b>	<b>2,895.42</b>				<b>25,891.68</b>
A. Solid Waste Disposal on Land	NE,NO	7,565.70					7,565.70
B. Waste-water Handling		2,343.80	1,281.68				3,625.48
C. Waste Incineration	12,298.12	13.08	1,534.80				13,846.01
D. Other	686.45	89.12	78.93				854.49
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	32,531.98	45.53	294.78				32,872.29
Aviation	13,919.12	8.27	137.65				14,065.05
Marine	18,612.86	37.25	157.13				18,807.24
<b>Multilateral Operations</b>	NO	NO	NO				NO
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,872.92</b>						<b>18,872.92</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,245,823.29
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,171,629.35

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A9-3 1992 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1992  
Submission 2014 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,084,493.26</b>	<b>31,681.13</b>	<b>29,543.59</b>	<b>14,058.48</b>	<b>6,163.47</b>	<b>16,188.59</b>	<b>1,182,128.52</b>
<b>1. Energy</b>	<b>1,083,526.98</b>	<b>3,624.86</b>	<b>7,239.15</b>				<b>1,094,390.99</b>
A. Fuel Combustion (Sectoral Approach)	1,083,470.03	911.72	7,238.97				1,091,620.72
1. Energy Industries	333,717.45	31.87	929.84				334,679.16
2. Manufacturing Industries and Construction	358,404.85	351.59	1,544.89				360,301.33
3. Transport	226,863.49	300.34	4,468.29				231,632.12
4. Other Sectors	164,484.24	227.91	295.95				165,008.10
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	56.95	2,713.14	0.17				2,770.26
1. Solid Fuels	NE,NO	2,453.32	NE,NO				2,453.32
2. Oil and Natural Gas	56.95	259.82	0.17				316.94
<b>2. Industrial Processes</b>	<b>60,993.20</b>	<b>321.49</b>	<b>7,452.41</b>	<b>14,058.48</b>	<b>6,163.47</b>	<b>16,188.59</b>	<b>105,177.65</b>
A. Mineral Products	56,567.06	NA,NO	NA,NO				56,567.06
B. Chemical Industry	4,101.09	303.73	7,452.41	NA	NA	NA	11,857.23
C. Metal Production	325.05	17.76	NO	IE,NE,NO	77.15	112.18	532.15
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				13,936.72	326.94	4,494.29	18,757.94
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				121.77	5,759.38	11,582.12	17,463.27
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>413.01</b>				<b>413.01</b>
<b>4. Agriculture</b>		<b>17,772.44</b>	<b>11,351.65</b>				<b>29,124.10</b>
A. Enteric Fermentation		7,705.87					7,705.87
B. Manure Management		2,914.11	3,163.03				6,077.14
C. Rice Cultivation		7,059.04					7,059.04
D. Agricultural Soils <sup>(3)</sup>		NA	8,163.05				8,163.05
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		93.42	25.57				118.99
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-74,051.16</b>	<b>4.39</b>	<b>63.53</b>				<b>-73,983.23</b>
A. Forest Land	-86,284.84	4.39	1.26				-86,279.19
B. Cropland	3,296.04	NE,NO	62.27				3,358.31
C. Grassland	-295.25	NE,NO	NE,NO				-295.25
D. Wetlands	255.04	NE,NO	NE,NO				255.04
E. Settlements	6,728.23	NE,NO	NE,NO				6,728.23
F. Other Land	1,772.47	NO	NO				1,772.47
G. Other	477.14	NA,NE	NA,NE				477.14
<b>6. Waste</b>	<b>14,024.24</b>	<b>9,957.94</b>	<b>3,023.84</b>				<b>27,006.01</b>
A. Solid Waste Disposal on Land	NE,NO	7,529.58					7,529.58
B. Waste-water Handling		2,325.43	1,271.41				3,596.85
C. Waste Incineration	13,325.34	13.43	1,673.16				15,011.93
D. Other	698.90	89.49	79.26				867.65
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	32,937.28	45.92	298.63				33,281.83
Aviation	14,216.76	8.45	140.60				14,365.81
Marine	18,720.51	37.47	158.04				18,916.02
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,421.20</b>						<b>18,421.20</b>
	Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry						1,256,111.75
	Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry						1,182,128.52

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A9-4 1993 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1993  
Submission 2014 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,073,690.55</b>	<b>31,117.51</b>	<b>29,374.06</b>	<b>14,428.86</b>	<b>8,862.41</b>	<b>16,194.22</b>	<b>1,173,667.61</b>
<b>1. Energy</b>	<b>1,077,164.28</b>	<b>3,128.15</b>	<b>7,304.49</b>				<b>1,087,596.92</b>
A. Fuel Combustion (Sectoral Approach)	1,077,111.06	927.37	7,304.33				1,085,342.77
1. Energy Industries	315,598.93	31.66	938.36				316,568.95
2. Manufacturing Industries and Construction	357,499.46	353.00	1,602.83				359,455.28
3. Transport	231,732.63	293.24	4,439.89				236,465.76
4. Other Sectors	172,280.05	249.47	323.25				172,852.78
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	53.21	2,200.78	0.16				2,254.16
1. Solid Fuels	NE,NO	1,937.32	NE,NO				1,937.32
2. Oil and Natural Gas	53.21	263.46	0.16				316.84
<b>2. Industrial Processes</b>	<b>59,938.82</b>	<b>319.79</b>	<b>7,302.85</b>	<b>14,428.86</b>	<b>8,862.41</b>	<b>16,194.22</b>	<b>107,046.94</b>
A. Mineral Products	55,713.23	NA,NO	NA,NO				55,713.23
B. Chemical Industry	3,894.83	303.08	7,302.85	NA	NA	NA	11,500.76
C. Metal Production	330.76	16.70	NO	IE,NE,NO	71.06	117.81	536.34
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				13,528.36	472.24	4,494.29	18,494.89
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				900.49	8,319.11	11,582.12	20,801.72
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>411.66</b>				<b>411.66</b>
<b>4. Agriculture</b>		<b>17,860.81</b>	<b>11,242.79</b>				<b>29,103.60</b>
A. Enteric Fermentation		7,659.62					7,659.62
B. Manure Management		2,857.55	3,125.49				5,983.03
C. Rice Cultivation		7,247.60					7,247.60
D. Agricultural Soils <sup>(3)</sup>		NA	8,091.01				8,091.01
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		96.05	26.29				122.34
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-77,186.59</b>	<b>24.22</b>	<b>61.47</b>				<b>-77,100.90</b>
A. Forest Land	-86,636.86	24.22	3.31				-86,609.33
B. Cropland	2,421.84	NE,NO	58.16				2,480.00
C. Grassland	-386.82	NE,NO	NE,NO				-386.82
D. Wetlands	141.62	NE,NO	NE,NO				141.62
E. Settlements	4,663.13	NE,NO	NE,NO				4,663.13
F. Other Land	2,128.91	NO	NO				2,128.91
G. Other	481.58	NA,NE	NA,NE				481.58
<b>6. Waste</b>	<b>13,774.05</b>	<b>9,784.53</b>	<b>3,050.80</b>				<b>26,609.38</b>
A. Solid Waste Disposal on Land	NE,NO	7,396.57					7,396.57
B. Waste-water Handling		2,284.56	1,296.88				3,581.44
C. Waste Incineration	13,093.30	13.36	1,674.17				14,780.83
D. Other	680.75	90.05	79.76				850.55
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	34,935.20	50.42	314.96				35,300.58
Aviation	13,856.19	8.23	137.03				14,001.45
Marine	21,079.01	42.19	177.93				21,299.12
<b>Multilateral Operations</b>	NO	NO	NO				NO
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>17,570.58</b>						<b>17,570.58</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,250,768.52
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,173,667.61

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A9-5 1994 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1994  
Submission 2014 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,131,640.97</b>	<b>30,470.57</b>	<b>30,615.58</b>	<b>16,849.23</b>	<b>10,891.02</b>	<b>15,425.31</b>	<b>1,235,892.67</b>
<b>1. Energy</b>	<b>1,133,210.28</b>	<b>2,777.27</b>	<b>7,599.04</b>				<b>1,143,586.59</b>
A. Fuel Combustion (Sectoral Approach)	1,133,159.13	925.83	7,598.88				1,141,683.84
1. Energy Industries	356,359.51	33.81	1,010.42				357,403.74
2. Manufacturing Industries and Construction	365,878.17	361.95	1,743.27				367,983.39
3. Transport	243,687.04	295.04	4,519.39				248,501.48
4. Other Sectors	167,234.41	235.03	325.79				167,795.23
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	51.15	1,851.44	0.16				1,902.75
1. Solid Fuels	NE,NO	1,584.87	NE,NO				1,584.87
2. Oil and Natural Gas	51.15	266.57	0.16				317.88
<b>2. Industrial Processes</b>	<b>61,181.26</b>	<b>320.00</b>	<b>8,298.10</b>	<b>16,849.23</b>	<b>10,891.02</b>	<b>15,425.31</b>	<b>112,964.91</b>
A. Mineral Products	56,690.40	NA,NO	NA,NO				56,690.40
B. Chemical Industry	4,145.10	302.55	8,298.10	NA	NA	NA	12,745.75
C. Metal Production	345.76	17.45	NO	IE,NE,NO	70.90	114.44	548.55
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				14,993.97	581.22	4,280.27	19,855.46
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				1,855.26	10,238.90	11,030.59	23,124.75
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>438.02</b>				<b>438.02</b>
<b>4. Agriculture</b>		<b>17,728.58</b>	<b>11,020.65</b>				<b>28,749.24</b>
A. Enteric Fermentation		7,572.61					7,572.61
B. Manure Management		2,799.76	3,072.59				5,872.35
C. Rice Cultivation		7,263.40					7,263.40
D. Agricultural Soils <sup>(3)</sup>		NA	7,922.57				7,922.57
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		92.82	25.49				118.31
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-79,019.48</b>	<b>17.88</b>	<b>56.74</b>				<b>-78,944.85</b>
A. Forest Land	-86,982.76	17.88	2.64				-86,962.24
B. Cropland	2,372.56	NE,NO	54.10				2,426.66
C. Grassland	-361.88	NE,NO	NE,NO				-361.88
D. Wetlands	117.25	NE,NO	NE,NO				117.25
E. Settlements	3,515.06	NE,NO	NE,NO				3,515.06
F. Other Land	2,027.53	NO	NO				2,027.53
G. Other	292.76	NA,NE	NA,NE				292.76
<b>6. Waste</b>	<b>16,268.90</b>	<b>9,626.84</b>	<b>3,203.02</b>				<b>29,098.76</b>
A. Solid Waste Disposal on Land	NE,NO	7,284.13					7,284.13
B. Waste-water Handling		2,239.47	1,286.03				3,525.50
C. Waste Incineration	15,566.99	14.49	1,838.39				17,419.87
D. Other	701.91	88.74	78.60				869.26
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	36,093.69	51.04	326.49				36,471.22
Aviation	15,066.49	8.95	149.00				15,224.44
Marine	21,027.20	42.08	177.50				21,246.78
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>17,805.26</b>						<b>17,805.26</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,314,837.52
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,235,892.67

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A9-6 1995 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1995  
Submission 2014 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,144,217.63</b>	<b>29,702.07</b>	<b>31,065.49</b>	<b>20,260.17</b>	<b>14,271.14</b>	<b>16,961.45</b>	<b>1,256,477.95</b>
<b>1. Energy</b>	<b>1,145,820.01</b>	<b>2,572.79</b>	<b>8,249.19</b>				<b>1,156,642.00</b>
A. Fuel Combustion (Sectoral Approach)	1,145,769.09	963.60	8,249.04				1,154,981.73
1. Energy Industries	344,948.18	34.43	1,413.33				346,395.94
2. Manufacturing Industries and Construction	370,539.38	364.19	1,828.65				372,732.23
3. Transport	251,176.56	306.34	4,655.05				256,137.96
4. Other Sectors	179,104.97	258.64	352.00				179,715.60
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	50.92	1,609.19	0.16				1,660.27
1. Solid Fuels	NE,NO	1,344.00	NE,NO				1,344.00
2. Oil and Natural Gas	50.92	265.19	0.16				316.26
<b>2. Industrial Processes</b>	<b>61,332.91</b>	<b>321.43</b>	<b>8,212.71</b>	<b>20,260.17</b>	<b>14,271.14</b>	<b>16,961.45</b>	<b>121,359.81</b>
A. Mineral Products	56,756.12	NA,NO	NA,NO				56,756.12
B. Chemical Industry	4,219.57	303.51	8,212.71	NA	NA	NA	12,735.79
C. Metal Production	357.22	17.92	NO	IE,NE,NO	69.74	119.50	564.38
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				17,445.12	762.85	4,708.30	22,916.27
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				2,815.05	13,438.56	12,133.65	28,387.26
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>437.58</b>				<b>437.58</b>
<b>4. Agriculture</b>		<b>17,417.78</b>	<b>10,748.45</b>				<b>28,166.22</b>
A. Enteric Fermentation		7,489.25					7,489.25
B. Manure Management		2,751.77	3,020.78				5,772.55
C. Rice Cultivation		7,082.74					7,082.74
D. Agricultural Soils <sup>(3)</sup>		NA	7,701.83				7,701.83
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		94.01	25.84				119.85
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-79,469.70</b>	<b>8.73</b>	<b>50.65</b>				<b>-79,410.32</b>
A. Forest Land	-87,329.72	8.73	1.64				-87,319.36
B. Cropland	2,322.12	NE,NO	49.01				2,371.13
C. Grassland	-339.93	NE,NO	NE,NO				-339.93
D. Wetlands	360.35	NE,NO	NE,NO				360.35
E. Settlements	3,376.83	NE,NO	NE,NO				3,376.83
F. Other Land	1,837.13	NO	NO				1,837.13
G. Other	303.53	NA,NE	NA,NE				303.53
<b>6. Waste</b>	<b>16,534.40</b>	<b>9,381.35</b>	<b>3,366.92</b>				<b>29,282.66</b>
A. Solid Waste Disposal on Land	NE,NO	7,070.17					7,070.17
B. Waste-water Handling		2,207.18	1,306.53				3,513.71
C. Waste Incineration	15,866.57	14.87	1,981.44				17,862.88
D. Other	667.83	89.13	78.95				835.91
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	38,179.77	52.60	346.77				38,579.14
Aviation	16,922.99	10.06	167.36				17,100.41
Marine	21,256.78	42.54	179.42				21,478.73
<b>Multilateral Operations</b>	NO	NO	NO				NO
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,489.30</b>						<b>18,489.30</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,335,888.27
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,256,477.95

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A9-7 1996 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)

Inventory 1996

Submission 2014 v1.1

JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,152,307.47</b>	<b>28,839.69</b>	<b>32,109.69</b>	<b>19,906.20</b>	<b>14,772.09</b>	<b>17,535.35</b>	<b>1,265,470.48</b>
<b>1. Energy</b>	<b>1,157,958.90</b>	<b>2,311.77</b>	<b>8,422.52</b>				<b>1,168,693.19</b>
A. Fuel Combustion (Sectoral Approach)	1,157,909.53	960.00	8,422.37				1,167,291.91
1. Energy Industries	345,134.72	36.22	1,444.44				346,615.38
2. Manufacturing Industries and Construction	378,811.73	380.76	1,934.44				381,126.93
3. Transport	256,765.16	312.30	4,740.90				261,818.36
4. Other Sectors	177,197.92	230.73	302.59				177,731.24
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	49.37	1,351.76	0.15				1,401.28
1. Solid Fuels	NE,NO	1,088.43	NE,NO				1,088.43
2. Oil and Natural Gas	49.37	263.34	0.15				312.86
<b>2. Industrial Processes</b>	<b>61,672.09</b>	<b>311.18</b>	<b>9,220.07</b>	<b>19,906.20</b>	<b>14,772.09</b>	<b>17,535.35</b>	<b>123,416.97</b>
A. Mineral Products	57,088.67	NA,NO	NA,NO				57,088.67
B. Chemical Industry	4,203.43	292.96	9,220.07	NA	NA	NA	13,716.46
C. Metal Production	379.99	18.22	NO	IE,NE,NO	65.88	143.40	607.48
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				16,052.32	1,007.80	4,182.50	21,242.62
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				3,853.88	13,698.41	13,209.45	30,761.74
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>420.94</b>				<b>420.94</b>
<b>4. Agriculture</b>		<b>17,038.81</b>	<b>10,507.56</b>				<b>27,546.37</b>
A. Enteric Fermentation		7,436.41					7,436.41
B. Manure Management		2,718.75	2,986.55				5,705.30
C. Rice Cultivation		6,793.69					6,793.69
D. Agricultural Soils <sup>(3)</sup>		NA	7,496.17				7,496.17
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		89.96	24.84				114.80
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-84,274.37</b>	<b>28.68</b>	<b>47.38</b>				<b>-84,198.30</b>
A. Forest Land	-91,302.44	28.68	3.64				-91,270.12
B. Cropland	2,169.98	NE,NO	43.75				2,213.73
C. Grassland	-331.33	NE,NO	NE,NO				-331.33
D. Wetlands	639.57	NE,NO	NE,NO				639.57
E. Settlements	2,563.22	NE,NO	NE,NO				2,563.22
F. Other Land	1,693.89	NO	NO				1,693.89
G. Other	292.74	NA,NE	NA,NE				292.74
<b>6. Waste</b>	<b>16,950.85</b>	<b>9,149.26</b>	<b>3,491.21</b>				<b>29,591.32</b>
A. Solid Waste Disposal on Land	NE,NO	6,869.76					6,869.76
B. Waste-water Handling		2,174.74	1,304.56				3,479.30
C. Waste Incineration	16,310.38	15.24	2,107.36				18,432.98
D. Other	640.47	89.52	79.29				809.28
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	30,958.25	36.01	288.02				31,282.28
Aviation	18,441.91	10.96	182.38				18,635.25
Marine	12,516.34	25.05	105.64				12,647.03
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,549.47</b>						<b>18,549.47</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,349,668.79
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,265,470.48

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A9-8 1997 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1997  
Submission 2014 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,146,695.83</b>	<b>28,008.97</b>	<b>32,807.85</b>	<b>19,905.11</b>	<b>16,187.61</b>	<b>14,998.12</b>	<b>1,258,603.48</b>
<b>1. Energy</b>	<b>1,154,948.65</b>	<b>2,227.09</b>	<b>8,645.44</b>				<b>1,165,821.18</b>
A. Fuel Combustion (Sectoral Approach)	1,154,900.68	949.79	8,645.29				1,164,495.76
1. Energy Industries	342,054.20	38.05	1,490.11				343,582.36
2. Manufacturing Industries and Construction	381,142.92	362.72	2,063.18				383,568.82
3. Transport	258,754.31	313.50	4,786.34				263,854.16
4. Other Sectors	172,949.24	235.52	305.67				173,490.43
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	47.97	1,277.29	0.15				1,325.42
1. Solid Fuels	NE,NO	1,006.91	NE,NO				1,006.91
2. Oil and Natural Gas	47.97	270.39	0.15				318.51
<b>2. Industrial Processes</b>	<b>58,981.65</b>	<b>260.22</b>	<b>9,792.47</b>	<b>19,905.11</b>	<b>16,187.61</b>	<b>14,998.12</b>	<b>120,125.17</b>
A. Mineral Products	54,452.99	NA,NO	NA,NO				54,452.99
B. Chemical Industry	4,144.19	241.89	9,792.47	NA	NA	NA	14,178.54
C. Metal Production	384.48	18.33	NO	IE,NE,NO	59.43	191.20	653.44
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				15,077.99	1,416.80	2,581.20	19,075.99
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				4,827.12	14,711.38	12,225.72	31,764.21
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>404.60</b>				<b>404.60</b>
<b>4. Agriculture</b>		<b>16,597.24</b>	<b>10,343.94</b>				<b>26,941.18</b>
A. Enteric Fermentation		7,392.92					7,392.92
B. Manure Management		2,678.45	2,961.36				5,639.81
C. Rice Cultivation		6,440.28					6,440.28
D. Agricultural Soils <sup>(3)</sup>		NA	7,358.79				7,358.79
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		85.58	23.79				109.37
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-84,781.70</b>	<b>34.51</b>	<b>42.48</b>				<b>-84,704.71</b>
A. Forest Land	-91,144.85	34.51	4.20				-91,106.13
B. Cropland	2,066.42	NE,NO	38.28				2,104.70
C. Grassland	-312.87	NE,NO	NE,NO				-312.87
D. Wetlands	121.50	NE,NO	NE,NO				121.50
E. Settlements	2,145.81	NE,NO	NE,NO				2,145.81
F. Other Land	2,038.63	NO	NO				2,038.63
G. Other	303.65	NA,NE	NA,NE				303.65
<b>6. Waste</b>	<b>17,547.22</b>	<b>8,889.92</b>	<b>3,578.92</b>				<b>30,016.06</b>
A. Solid Waste Disposal on Land	NE,NO	6,641.40					6,641.40
B. Waste-water Handling		2,143.20	1,316.27				3,459.47
C. Waste Incineration	16,891.99	14.71	2,182.40				19,089.10
D. Other	655.23	90.61	80.25				826.09
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	35,432.29	43.98	326.77				35,803.04
Aviation	19,134.37	11.37	189.23				19,334.97
Marine	16,297.92	32.61	137.54				16,468.07
<b>Multilateral Operations</b>	NO	NO	NO				NO
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>19,109.13</b>						<b>19,109.13</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,343,308.19
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,258,603.48

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.



表 A9-9 1998 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)

Inventory 1998

Submission 2014 v1.1

JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,111,222.69</b>	<b>27,188.55</b>	<b>31,294.15</b>	<b>19,415.96</b>	<b>13,401.73</b>	<b>13,624.11</b>	<b>1,216,147.19</b>
<b>1. Energy</b>	<b>1,125,032.90</b>	<b>2,058.84</b>	<b>8,509.69</b>				<b>1,135,601.42</b>
A. Fuel Combustion (Sectoral Approach)	1,124,990.17	920.27	8,509.55				1,134,419.99
1. Energy Industries	332,405.28	39.83	1,515.22				333,960.34
2. Manufacturing Industries and Construction	357,838.95	325.35	1,988.70				360,153.00
3. Transport	257,884.68	302.60	4,681.90				262,869.18
4. Other Sectors	176,861.25	252.49	323.73				177,437.47
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	42.73	1,138.57	0.13				1,181.43
1. Solid Fuels	NE,NO	873.05	NE,NO				873.05
2. Oil and Natural Gas	42.73	265.52	0.13				308.38
<b>2. Industrial Processes</b>	<b>53,317.07</b>	<b>242.90</b>	<b>8,577.87</b>	<b>19,415.96</b>	<b>13,401.73</b>	<b>13,624.11</b>	<b>108,579.64</b>
A. Mineral Products	49,384.13	NA,NO	NA,NO				49,384.13
B. Chemical Industry	3,639.82	226.75	8,577.87	NA	NA	NA	12,444.45
C. Metal Production	293.11	16.15	NO	IE,NE,NO	49.40	406.30	764.96
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				14,053.43	1,389.50	2,103.20	17,546.13
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				5,362.53	11,962.83	11,114.61	28,439.97
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>377.05</b>				<b>377.05</b>
<b>4. Agriculture</b>		<b>16,302.37</b>	<b>10,220.81</b>				<b>26,523.18</b>
A. Enteric Fermentation		7,356.83					7,356.83
B. Manure Management		2,634.57	2,939.73				5,574.30
C. Rice Cultivation		6,229.14					6,229.14
D. Agricultural Soils <sup>(3)</sup>		NA	7,258.12				7,258.12
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		81.84	22.96				104.80
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-84,647.46</b>	<b>10.73</b>	<b>36.88</b>				<b>-84,599.85</b>
A. Forest Land	-90,983.32	10.73	1.76				-90,970.82
B. Cropland	2,071.14	NE,NO	35.12				2,106.26
C. Grassland	-290.46	NE,NO	NE,NO				-290.46
D. Wetlands	487.08	NE,NO	NE,NO				487.08
E. Settlements	2,108.68	NE,NO	NE,NO				2,108.68
F. Other Land	1,659.42	NO	NO				1,659.42
G. Other	300.00	NA,NE	NA,NE				300.00
<b>6. Waste</b>	<b>17,520.19</b>	<b>8,573.71</b>	<b>3,571.85</b>				<b>29,665.75</b>
A. Solid Waste Disposal on Land	NE,NO	6,370.39					6,370.39
B. Waste-water Handling		2,098.97	1,305.22				3,404.19
C. Waste Incineration	16,911.07	14.53	2,187.07				19,112.67
D. Other	609.12	89.83	79.56				778.50
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	37,361.08	46.63	344.33				37,752.04
Aviation	20,001.55	11.89	197.80				20,211.24
Marine	17,359.53	34.74	146.53				17,540.80
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>17,558.45</b>						<b>17,558.45</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,300,747.04
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,216,147.19

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A 9-10 1999 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1999  
Submission 2014 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,145,857.00</b>	<b>26,567.65</b>	<b>24,896.58</b>	<b>19,934.46</b>	<b>10,428.82</b>	<b>9,309.93</b>	<b>1,236,994.44</b>
<b>1. Energy</b>	<b>1,160,147.36</b>	<b>2,048.38</b>	<b>8,716.26</b>				<b>1,170,911.99</b>
A. Fuel Combustion (Sectoral Approach)	1,160,109.30	947.86	8,716.14				1,169,773.29
1. Energy Industries	349,785.30	42.69	1,615.89				351,443.88
2. Manufacturing Industries and Construction	365,074.78	327.91	2,073.70				367,476.39
3. Transport	260,060.98	301.56	4,667.98				265,030.52
4. Other Sectors	185,188.24	275.70	358.57				185,822.51
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	38.06	1,100.52	0.12				1,138.70
1. Solid Fuels	NE,NO	837.79	NE,NO				837.79
2. Oil and Natural Gas	38.06	262.73	0.12				300.91
<b>2. Industrial Processes</b>	<b>53,320.07</b>	<b>235.76</b>	<b>2,000.86</b>	<b>19,934.46</b>	<b>10,428.82</b>	<b>9,309.93</b>	<b>95,229.89</b>
A. Mineral Products	49,100.52	NA,NO	NA,NO				49,100.52
B. Chemical Industry	3,965.06	219.67	2,000.86	NA	NA	NA	6,185.59
C. Metal Production	254.49	16.08	NO	IE,NE,NO	29.12	645.30	944.99
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				14,260.55	1,270.88	1,529.60	17,061.03
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				5,673.90	9,128.81	7,135.03	21,937.75
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>362.53</b>				<b>362.53</b>
<b>4. Agriculture</b>		<b>15,985.34</b>	<b>10,167.59</b>				<b>26,152.93</b>
A. Enteric Fermentation		7,300.73					7,300.73
B. Manure Management		2,581.14	2,943.39				5,524.53
C. Rice Cultivation		6,024.77					6,024.77
D. Agricultural Soils <sup>(3)</sup>		NA	7,201.99				7,201.99
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		78.70	22.21				100.91
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-84,940.27</b>	<b>5.25</b>	<b>33.45</b>				<b>-84,901.56</b>
A. Forest Land	-90,824.40	5.25	1.21				-90,817.93
B. Cropland	2,026.10	NE,NO	32.24				2,058.34
C. Grassland	-278.22	NE,NO	NE,NO				-278.22
D. Wetlands	458.84	NE,NO	NE,NO				458.84
E. Settlements	1,678.94	NE,NO	NE,NO				1,678.94
F. Other Land	1,704.91	NO	NO				1,704.91
G. Other	293.57	NA,NE	NA,NE				293.57
<b>6. Waste</b>	<b>17,329.84</b>	<b>8,292.92</b>	<b>3,615.89</b>				<b>29,238.65</b>
A. Solid Waste Disposal on Land	NE,NO	6,114.02					6,114.02
B. Waste-water Handling		2,074.44	1,274.85				3,349.30
C. Waste Incineration	16,677.27	14.04	2,260.95				18,952.25
D. Other	652.58	90.42	80.09				823.09
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	36,022.49	44.55	332.43				36,399.47
Aviation	19,576.46	11.63	193.60				19,781.70
Marine	16,446.03	32.92	138.83				16,617.77
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,261.99</b>						<b>18,261.99</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,321,896.00
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,236,994.44

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

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

表 A 9-11 2000 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2000  
Submission 2014 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total	
	CO <sub>2</sub> equivalent (Gg)							
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,165,774.11</b>	<b>26,006.51</b>	<b>27,521.22</b>	<b>18,800.43</b>	<b>9,583.35</b>	<b>7,188.49</b>	<b>1,254,874.12</b>	
<b>1. Energy</b>	<b>1,180,079.82</b>	<b>1,980.23</b>	<b>8,742.34</b>				<b>1,190,802.39</b>	
A. Fuel Combustion (Sectoral Approach)	1,180,043.79	957.04	8,742.22				1,189,743.06	
1. Energy Industries	357,574.13	42.61	1,699.98				359,316.71	
2. Manufacturing Industries and Construction	376,777.84	354.48	2,116.40				379,248.72	
3. Transport	259,138.24	296.62	4,569.99				264,004.85	
4. Other Sectors	186,553.58	263.33	355.86				187,172.77	
5. Other	NO	NO	NO				NO	
B. Fugitive Emissions from Fuels	36.03	1,023.20	0.11				1,059.34	
1. Solid Fuels	NE,NO	749.17	NE,NO				749.17	
2. Oil and Natural Gas	36.03	274.02	0.11				310.16	
<b>2. Industrial Processes</b>	<b>53,887.04</b>	<b>195.34</b>	<b>4,690.09</b>	<b>18,800.43</b>	<b>9,583.35</b>	<b>7,188.49</b>	<b>94,344.74</b>	
A. Mineral Products	49,745.61	NA,NO	NA,NO				49,745.61	
B. Chemical Industry	3,893.01	178.50	4,690.09	NA	NA	NA	8,761.59	
C. Metal Production	248.42	16.84	NO	IE,NE,NO	17.78	1,027.70	1,310.74	
D. Other Production	IE						IE	
E. Production of Halocarbons and SF <sub>6</sub>				12,659.84	1,359.00	860.40	14,879.24	
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				6,140.59	8,206.56	5,300.39	19,647.55	
G. Other	NO	NO	NO	NO	NO	NO	NO	
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>340.99</b>				<b>340.99</b>	
<b>4. Agriculture</b>		<b>15,800.64</b>	<b>10,151.36</b>				<b>25,952.00</b>	
A. Enteric Fermentation		7,265.44					7,265.44	
B. Manure Management		2,538.35	2,983.00				5,521.34	
C. Rice Cultivation		5,919.76					5,919.76	
D. Agricultural Soils <sup>(3)</sup>		NA	7,146.58				7,146.58	
E. Prescribed Burning of Savannas		NO	NO				NO	
F. Field Burning of Agricultural Residues		77.10	21.78				98.88	
G. Other		NO	NO				NO	
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-85,686.61</b>	<b>7.78</b>	<b>30.40</b>				<b>-85,648.44</b>	
A. Forest Land	-90,663.91	7.78	1.48				-90,654.64	
B. Cropland	1,867.20	NE,NO	28.91				1,896.12	
C. Grassland	-281.88	NE,NO	NE,NO				-281.88	
D. Wetlands	428.72	NE,NO	NE,NO				428.72	
E. Settlements	1,279.83	NE,NO	NE,NO				1,279.83	
F. Other Land	1,350.52	NO	NO				1,350.52	
G. Other	332.90	NA,NE	NA,NE				332.90	
<b>6. Waste</b>	<b>17,493.86</b>	<b>8,022.52</b>	<b>3,566.05</b>				<b>29,082.43</b>	
A. Solid Waste Disposal on Land	NE,NO	5,874.95					5,874.95	
B. Waste-water Handling		2,042.76	1,243.51				3,286.28	
C. Waste Incineration	16,837.95	13.33	2,241.52				19,092.80	
D. Other	655.91	91.47	81.02				828.41	
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	
<b>Memo Items:<sup>(4)</sup></b>								
<b>International Bunkers</b>	36,731.88	46.01	336.87				37,114.77	
Aviation	19,542.61	11.61	191.78				19,746.00	
Marine	17,189.28	34.40	145.09				17,368.76	
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>	
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,848.04</b>						<b>18,848.04</b>	
	Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,340,522.55
	Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,254,874.12

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A 9-12 2001 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2001  
Submission 2014 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total	
	CO <sub>2</sub> equivalent (Gg)							
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,150,450.93</b>	<b>25,108.96</b>	<b>24,200.06</b>	<b>16,168.06</b>	<b>7,953.56</b>	<b>5,962.42</b>	<b>1,229,843.99</b>	
<b>1. Energy</b>	<b>1,167,417.49</b>	<b>1,763.46</b>	<b>8,727.72</b>				<b>1,177,908.66</b>	
A. Fuel Combustion (Sectoral Approach)	1,167,385.05	925.28	8,727.62				1,177,037.95	
1. Energy Industries	349,730.24	41.60	1,912.31				351,684.15	
2. Manufacturing Industries and Construction	366,481.38	333.42	2,070.37				368,885.16	
3. Transport	261,213.84	290.95	4,390.04				265,894.84	
4. Other Sectors	189,959.59	259.31	354.90				190,573.80	
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	
<b>2. Industrial Processes</b>	<b>52,657.08</b>	<b>147.05</b>	<b>1,414.89</b>	<b>16,168.06</b>	<b>7,953.56</b>	<b>5,962.42</b>	<b>84,303.06</b>	
A. Mineral Products	48,847.78	NA,NO	NA,NO				48,847.78	
B. Chemical Industry	3,598.60	131.21	1,414.89	NA	NA	NA	5,144.70	
C. Metal Production	210.71	15.84	NO	IE,NE,NO	15.73	1,147.20	1,389.48	
D. Other Production	IE						IE	
E. Production of Halocarbons and SF <sub>6</sub>				9,713.43	1,082.60	788.70	11,584.73	
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				6,454.63	6,855.24	4,026.52	17,336.38	
G. Other	NO	NO	NO	NO	NO	NO	NO	
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>343.60</b>				<b>343.60</b>	
<b>4. Agriculture</b>		<b>15,615.60</b>	<b>10,163.38</b>				<b>25,778.98</b>	
A. Enteric Fermentation		7,222.66					7,222.66	
B. Manure Management		2,507.22	3,064.07				5,571.29	
C. Rice Cultivation		5,810.23					5,810.23	
D. Agricultural Soils <sup>(3)</sup>		NA	7,077.98				7,077.98	
E. Prescribed Burning of Savannas		NO	NO				NO	
F. Field Burning of Agricultural Residues		75.49	21.33				96.82	
G. Other		NO	NO				NO	
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-85,869.59</b>	<b>12.42</b>	<b>27.83</b>				<b>-85,829.34</b>	
A. Forest Land	-90,507.39	12.42	1.93				-90,493.04	
B. Cropland	1,803.40	NE,NO	25.90				1,829.30	
C. Grassland	-272.34	NE,NO	NE,NO				-272.34	
D. Wetlands	389.24	NE,NO	NE,NO				389.24	
E. Settlements	1,029.45	NE,NO	NE,NO				1,029.45	
F. Other Land	1,440.71	NO	NO				1,440.71	
G. Other	247.35	NA,NE	NA,NE				247.35	
<b>6. Waste</b>	<b>16,245.95</b>	<b>7,570.42</b>	<b>3,522.64</b>				<b>27,339.01</b>	
A. Solid Waste Disposal on Land	NE,NO	5,615.90					5,615.90	
B. Waste-water Handling		1,849.17	1,270.85				3,120.02	
C. Waste Incineration	15,615.42	12.61	2,169.64				17,797.66	
D. Other	630.53	92.75	82.15				805.43	
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	
<b>Memo Items:<sup>(4)</sup></b>								
<b>International Bunkers</b>	33,571.42	40.84	309.05				33,921.32	
Aviation	18,721.34	11.13	183.72				18,916.19	
Marine	14,850.08	29.72	125.33				15,005.12	
<b>Multilateral Operations</b>	NO	NO	NO				NO	
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>17,205.82</b>						<b>17,205.82</b>	
	Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,315,673.33
	Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,229,843.99

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A 9-13 2002 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)

Inventory 2002

Submission 2014 v1.1

JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,186,323.87</b>	<b>24,198.66</b>	<b>23,567.92</b>	<b>13,693.03</b>	<b>7,433.60</b>	<b>5,579.50</b>	<b>1,260,796.59</b>
<b>1. Energy</b>	<b>1,207,919.26</b>	<b>1,321.00</b>	<b>8,409.81</b>				<b>1,217,650.07</b>
A. Fuel Combustion (Sectoral Approach)	1,207,888.33	914.56	8,409.71				1,217,212.60
1. Energy Industries	381,372.56	32.36	1,837.01				383,241.93
2. Manufacturing Industries and Construction	372,969.32	343.33	2,083.06				375,395.71
3. Transport	255,606.57	280.27	4,126.51				260,013.34
4. Other Sectors	197,939.88	258.60	363.13				198,561.61
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
<b>2. Industrial Processes</b>	<b>49,841.06</b>	<b>141.08</b>	<b>1,238.77</b>	<b>13,693.03</b>	<b>7,433.60</b>	<b>5,579.50</b>	<b>77,927.04</b>
A. Mineral Products	46,234.63	NA,NO	NA,NO				46,234.63
B. Chemical Industry	3,385.48	124.44	1,238.77	NA	NA	NA	4,748.70
C. Metal Production	220.95	16.64	NO	IE,NE,NO	14.83	1,123.30	1,375.72
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				6,456.62	1,009.92	860.40	8,326.94
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				7,236.41	6,408.85	3,595.80	17,241.05
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>334.05</b>				<b>334.05</b>
<b>4. Agriculture</b>		<b>15,423.94</b>	<b>10,196.49</b>				<b>25,620.43</b>
A. Enteric Fermentation		7,175.89					7,175.89
B. Manure Management		2,482.62	3,152.23				5,634.85
C. Rice Cultivation		5,693.94					5,693.94
D. Agricultural Soils <sup>(3)</sup>		NA	7,024.02				7,024.02
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		71.50	20.24				91.74
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-87,072.73</b>	<b>20.59</b>	<b>24.91</b>				<b>-87,027.22</b>
A. Forest Land	-90,346.99	20.59	2.76				-90,323.63
B. Cropland	1,765.99	NE,NO	22.15				1,788.14
C. Grassland	-252.08	NE,NO	NE,NO				-252.08
D. Wetlands	95.51	NE,NO	NE,NO				95.51
E. Settlements	120.06	NE,NO	NE,NO				120.06
F. Other Land	1,274.85	NO	NO				1,274.85
G. Other	269.92	NA,NE	NA,NE				269.92
<b>6. Waste</b>	<b>15,636.28</b>	<b>7,292.05</b>	<b>3,363.89</b>				<b>26,292.22</b>
A. Solid Waste Disposal on Land	NE,NO	5,354.24					5,354.24
B. Waste-water Handling		1,803.39	1,274.65				3,078.04
C. Waste Incineration	15,059.23	19.51	1,987.46				17,066.21
D. Other	577.05	114.91	101.77				793.73
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	36,728.93	43.74	339.03				37,111.70
Aviation	21,149.32	12.57	207.55				21,369.44
Marine	15,579.61	31.17	131.47				15,742.26
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>17,919.32</b>						<b>17,919.32</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,347,823.81
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,260,796.59

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A 9-14 2003 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2003  
Submission 2014 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,182,275.05</b>	<b>23,691.02</b>	<b>23,297.73</b>	<b>13,761.68</b>	<b>7,178.70</b>	<b>5,253.91</b>	<b>1,255,458.09</b>
<b>1. Energy</b>	<b>1,213,922.87</b>	<b>1,281.16</b>	<b>8,110.92</b>				<b>1,223,314.95</b>
A. Fuel Combustion (Sectoral Approach)	1,213,888.39	891.78	8,110.81				1,222,890.98
1. Energy Industries	395,368.37	31.99	1,863.14				397,263.50
2. Manufacturing Industries and Construction	373,173.39	368.26	2,050.47				375,592.12
3. Transport	253,106.57	268.03	3,853.84				257,228.44
4. Other Sectors	192,240.07	223.50	343.35				192,806.92
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	34.48	389.38	0.11				423.97
1. Solid Fuels	NE,NO	93.86	NE,NO				93.86
2. Oil and Natural Gas	34.48	295.52	0.11				330.11
<b>2. Industrial Processes</b>	<b>49,010.32</b>	<b>133.41</b>	<b>1,259.55</b>	<b>13,761.68</b>	<b>7,178.70</b>	<b>5,253.91</b>	<b>76,597.58</b>
A. Mineral Products	45,640.14	NA,NO	NA,NO				45,640.14
B. Chemical Industry	3,128.60	116.91	1,259.55	NA	NA	NA	4,505.06
C. Metal Production	241.57	16.50	NO	IE,NE,NO	15.21	1,125.53	1,398.81
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				5,459.50	965.60	812.60	7,237.70
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				8,302.18	6,197.90	3,315.79	17,815.86
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>320.83</b>				<b>320.83</b>
<b>4. Agriculture</b>		<b>15,266.48</b>	<b>10,204.82</b>				<b>25,471.30</b>
A. Enteric Fermentation		7,066.34					7,066.34
B. Manure Management		2,441.42	3,231.25				5,672.67
C. Rice Cultivation		5,690.55					5,690.55
D. Agricultural Soils <sup>(3)</sup>		NA	6,954.29				6,954.29
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		68.18	19.28				87.46
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-96,229.95</b>	<b>3.93</b>	<b>20.38</b>				<b>-96,205.65</b>
A. Forest Land	-99,122.20	3.93	1.10				-99,117.18
B. Cropland	1,760.09	NE,NO	19.28				1,779.37
C. Grassland	-234.17	NE,NO	NE,NO				-234.17
D. Wetlands	63.17	NE,NO	NE,NO				63.17
E. Settlements	2.86	NE,NO	NE,NO				2.86
F. Other Land	1,053.90	NO	NO				1,053.90
G. Other	246.40	NA,NE	NA,NE				246.40
<b>6. Waste</b>	<b>15,571.81</b>	<b>7,006.04</b>	<b>3,381.23</b>				<b>25,959.07</b>
A. Solid Waste Disposal on Land	NE,NO	5,090.58					5,090.58
B. Waste-water Handling		1,765.11	1,278.10				3,043.22
C. Waste Incineration	15,055.29	16.79	1,984.84				17,056.92
D. Other	516.53	133.55	118.29				768.36
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	37,506.71	46.37	344.55				37,897.63
Aviation	20,387.64	12.12	200.08				20,599.83
Marine	17,119.07	34.25	144.47				17,297.79
<b>Multilateral Operations</b>	NO	NO	NO				NO
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,298.45</b>						<b>18,298.45</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,351,663.74
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,255,458.09

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A 9-15 2004 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2004  
Submission 2014 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,182,085.38</b>	<b>23,275.39</b>	<b>23,384.04</b>	<b>10,552.49</b>	<b>7,478.43</b>	<b>5,095.89</b>	<b>1,251,871.61</b>
<b>1. Energy</b>	<b>1,214,021.73</b>	<b>1,265.39</b>	<b>7,817.48</b>				<b>1,223,104.61</b>
A. Fuel Combustion (Sectoral Approach)	1,213,986.74	892.43	7,817.37				1,222,696.54
1. Energy Industries	390,980.48	30.07	1,855.33				392,865.88
2. Manufacturing Industries and Construction	378,734.31	382.75	2,070.73				381,187.79
3. Transport	252,586.69	247.83	3,545.85				256,380.38
4. Other Sectors	191,685.26	231.77	345.46				192,262.49
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	34.99	372.96	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
<b>2. Industrial Processes</b>	<b>48,837.57</b>	<b>143.10</b>	<b>1,657.60</b>	<b>10,552.49</b>	<b>7,478.43</b>	<b>5,095.89</b>	<b>73,765.07</b>
A. Mineral Products	45,407.93	NA,NO	NA,NO				45,407.93
B. Chemical Industry	3,171.80	126.10	1,657.60	NA	NA	NA	4,955.50
C. Metal Production	257.84	17.01	NO	IE,NE,NO	14.80	1,111.02	1,400.67
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				1,469.74	866.84	764.80	3,101.38
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				9,082.75	6,596.78	3,220.06	18,899.60
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>297.54</b>				<b>297.54</b>
<b>4. Agriculture</b>		<b>15,145.21</b>	<b>10,215.54</b>				<b>25,360.75</b>
A. Enteric Fermentation		6,970.65					6,970.65
B. Manure Management		2,395.90	3,309.21				5,705.12
C. Rice Cultivation		5,712.00					5,712.00
D. Agricultural Soils <sup>(3)</sup>		NA	6,887.52				6,887.52
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		66.65	18.81				85.46
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-95,798.26</b>	<b>12.13</b>	<b>17.77</b>				<b>-95,768.36</b>
A. Forest Land	-98,608.75	12.13	1.91				-98,594.71
B. Cropland	1,720.21	NE,NO	15.87				1,736.07
C. Grassland	-216.92	NE,NO	NE,NO				-216.92
D. Wetlands	56.76	NE,NO	NE,NO				56.76
E. Settlements	9.36	NE,NO	NE,NO				9.36
F. Other Land	1,004.78	NO	NO				1,004.78
G. Other	236.30	NA,NE	NA,NE				236.30
<b>6. Waste</b>	<b>15,024.34</b>	<b>6,709.56</b>	<b>3,378.10</b>				<b>25,112.00</b>
A. Solid Waste Disposal on Land	NE,NO	4,824.66					4,824.66
B. Waste-water Handling		1,732.24	1,281.61				3,013.85
C. Waste Incineration	14,517.64	15.38	1,974.89				16,507.92
D. Other	506.70	137.29	121.60				765.58
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA</b>	<b>NA</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	39,113.12	48.45	359.20				39,520.78
Aviation	21,190.20	12.59	207.95				21,410.75
Marine	17,922.92	35.86	151.25				18,110.03
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,190.54</b>						<b>18,190.54</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,347,639.97
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,251,871.61

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A 9-16 2005 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2005  
Submission 2014 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,192,774.25</b>	<b>22,926.52</b>	<b>22,973.48</b>	<b>10,518.22</b>	<b>6,990.73</b>	<b>4,807.94</b>	<b>1,260,991.14</b>
<b>1. Energy</b>	<b>1,217,734.50</b>	<b>1,298.18</b>	<b>7,749.44</b>				<b>1,226,782.12</b>
A. Fuel Combustion (Sectoral Approach)	1,217,696.90	911.09	7,749.33				1,226,357.32
1. Energy Industries	406,038.52	31.44	2,067.72				408,137.69
2. Manufacturing Industries and Construction	371,229.41	387.00	2,036.13				373,652.54
3. Transport	247,211.90	234.89	3,294.09				250,740.89
4. Other Sectors	193,217.06	257.76	351.38				193,826.20
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	37.60	387.09	0.12				424.80
1. Solid Fuels	NE,NO	64.91	NE,NO				64.91
2. Oil and Natural Gas	37.60	322.18	0.12				359.90
<b>2. Industrial Processes</b>	<b>49,902.66</b>	<b>133.41</b>	<b>1,299.94</b>	<b>10,518.22</b>	<b>6,990.73</b>	<b>4,807.94</b>	<b>73,652.90</b>
A. Mineral Products	46,773.88	NA,NO	NA,NO				46,773.88
B. Chemical Industry	2,886.85	116.52	1,299.94	NA	NA	NA	4,303.32
C. Metal Production	241.93	16.89	NO	IE,NE,NO	14.80	1,157.31	1,430.93
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				816.01	837.49	975.12	2,628.62
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				9,702.21	6,138.44	2,675.51	18,516.16
G. Other	NO	NO	NO	NA,NO	NA,NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>266.41</b>				<b>266.41</b>
<b>4. Agriculture</b>		<b>15,063.59</b>	<b>10,199.62</b>				<b>25,263.21</b>
A. Enteric Fermentation		6,911.89					6,911.89
B. Manure Management		2,347.12	3,401.51				5,748.64
C. Rice Cultivation		5,739.10					5,739.10
D. Agricultural Soils <sup>(3)</sup>		NA	6,779.61				6,779.61
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		65.48	18.49				83.97
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-89,354.20</b>	<b>9.18</b>	<b>14.79</b>				<b>-89,330.23</b>
A. Forest Land	-92,469.17	9.18	1.60				-92,458.39
B. Cropland	1,754.44	NE,NO	13.19				1,767.63
C. Grassland	-200.66	NE,NO	NE,NO				-200.66
D. Wetlands	14.71	NE,NO	NE,NO				14.71
E. Settlements	314.94	NE,NO	NE,NO				314.94
F. Other Land	1,000.26	NO	NO				1,000.26
G. Other	231.29	NA,NE	NA,NE				231.29
<b>6. Waste</b>	<b>14,491.29</b>	<b>6,422.16</b>	<b>3,443.27</b>				<b>24,356.72</b>
A. Solid Waste Disposal on Land	NE,NO	4,567.83					4,567.83
B. Waste-water Handling		1,684.67	1,263.26				2,947.93
C. Waste Incineration	13,984.48	14.27	2,042.38				16,041.12
D. Other	506.81	155.39	137.64				799.84
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA</b>	<b>NA</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	41,564.88	53.16	380.11				41,998.14
Aviation	21,336.33	12.68	209.39				21,558.39
Marine	20,228.55	40.48	170.72				20,439.75
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>21,745.66</b>						<b>21,745.66</b>
	Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry						1,350,321.36
	Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry						1,260,991.14

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.



表 A-9-17 2006 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)

Inventory 2006

Submission 2014 v1.1

JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,179,656.95</b>	<b>22,576.16</b>	<b>23,036.31</b>	<b>11,742.22</b>	<b>7,311.27</b>	<b>4,910.86</b>	<b>1,249,233.77</b>
<b>1. Energy</b>	<b>1,199,340.38</b>	<b>1,323.79</b>	<b>7,516.60</b>				<b>1,208,180.77</b>
A. Fuel Combustion (Sectoral Approach)	1,199,304.49	915.54	7,516.49				1,207,736.52
1. Energy Industries	394,358.50	31.44	2,046.29				396,436.23
2. Manufacturing Industries and Construction	373,314.51	412.22	2,009.30				375,736.03
3. Transport	243,855.38	218.87	3,114.68				247,188.93
4. Other Sectors	187,776.10	253.01	346.21				188,375.33
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	35.89	408.25	0.11				444.26
1. Solid Fuels	NE,NO	68.12	NE,NO				68.12
2. Oil and Natural Gas	35.89	340.14	0.11				376.14
<b>2. Industrial Processes</b>	<b>49,975.18</b>	<b>132.62</b>	<b>1,624.72</b>	<b>11,742.22</b>	<b>7,311.27</b>	<b>4,910.86</b>	<b>75,696.86</b>
A. Mineral Products	46,878.88	NA,NO	NA,NO				46,878.88
B. Chemical Industry	2,918.74	115.46	1,624.72	NA	NA	NA	4,658.93
C. Metal Production	177.55	17.16	NO	IE,NE,NO	14.82	1,091.08	1,300.62
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				938.25	879.14	1,366.36	3,183.75
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				10,803.97	6,417.30	2,453.41	19,674.68
G. Other	NO	NO	NO	NA,NO	NA,NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>242.34</b>				<b>242.34</b>
<b>4. Agriculture</b>		<b>14,990.38</b>	<b>10,306.41</b>				<b>25,296.79</b>
A. Enteric Fermentation		6,912.22					6,912.22
B. Manure Management		2,305.61	3,513.70				5,819.31
C. Rice Cultivation		5,707.49					5,707.49
D. Agricultural Soils <sup>(3)</sup>		NA	6,774.35				6,774.35
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		65.06	18.36				83.42
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-83,313.78</b>	<b>2.44</b>	<b>12.47</b>				<b>-83,298.86</b>
A. Forest Land	-86,597.28	2.44	0.97				-86,593.87
B. Cropland	1,766.92	NE,NO	11.50				1,778.42
C. Grassland	-201.79	NE,NO	NE,NO				-201.79
D. Wetlands	22.05	NE,NO	NE,NO				22.05
E. Settlements	671.74	NE,NO	NE,NO				671.74
F. Other Land	794.22	NO	NO				794.22
G. Other	230.36	NA,NE	NA,NE				230.36
<b>6. Waste</b>	<b>13,655.17</b>	<b>6,126.92</b>	<b>3,333.77</b>				<b>23,115.86</b>
A. Solid Waste Disposal on Land	NE,NO	4,300.58					4,300.58
B. Waste-water Handling		1,651.99	1,273.62				2,925.61
C. Waste Incineration	13,132.81	13.29	1,917.49				15,063.59
D. Other	522.36	161.06	142.66				826.08
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA</b>	<b>NA</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	38,991.92	49.94	356.50				39,398.36
Aviation	19,964.61	11.87	195.93				20,172.40
Marine	19,027.31	38.07	160.58				19,225.96
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>21,979.06</b>						<b>21,979.06</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,332,532.63
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,249,233.77

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A 9-18 2007 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2007  
Submission 2014 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,213,705.98</b>	<b>22,167.91</b>	<b>21,860.96</b>	<b>13,279.24</b>	<b>6,400.59</b>	<b>4,407.45</b>	<b>1,281,822.13</b>
<b>1. Energy</b>	<b>1,233,404.30</b>	<b>1,333.82</b>	<b>7,473.79</b>				<b>1,242,211.92</b>
A. Fuel Combustion (Sectoral Approach)	1,233,366.78	917.63	7,473.68				1,241,758.08
1. Energy Industries	447,301.91	34.15	2,096.39				449,432.44
2. Manufacturing Industries and Construction	370,259.27	438.66	2,063.01				372,760.95
3. Transport	238,065.44	204.35	2,979.03				241,248.82
4. Other Sectors	177,740.16	240.48	335.24				178,315.87
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	37.53	416.20	0.12				453.84
1. Solid Fuels	NE,NO	51.48	NE,NO				51.48
2. Oil and Natural Gas	37.53	364.72	0.12				402.37
<b>2. Industrial Processes</b>	<b>49,212.77</b>	<b>133.66</b>	<b>860.18</b>	<b>13,279.24</b>	<b>6,400.59</b>	<b>4,407.45</b>	<b>74,293.90</b>
A. Mineral Products	46,010.32	NA,NO	NA,NO				46,010.32
B. Chemical Industry	2,990.43	116.36	860.18	NA	NA	NA	3,966.97
C. Metal Production	212.02	17.30	NO	IE,NE,NO	14.69	1,089.34	1,333.35
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				497.61	783.02	1,198.82	2,479.45
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				12,781.64	5,602.88	2,119.29	20,503.80
G. Other	NO	NO	NO	NA,NO	NA,NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>159.95</b>				<b>159.95</b>
<b>4. Agriculture</b>		<b>14,864.27</b>	<b>10,202.90</b>				<b>25,067.16</b>
A. Enteric Fermentation		6,888.47					6,888.47
B. Manure Management		2,260.09	3,631.17				5,891.27
C. Rice Cultivation		5,652.17					5,652.17
D. Agricultural Soils <sup>(3)</sup>		NA	6,553.83				6,553.83
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		63.53	17.89				81.42
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-82,448.67</b>	<b>2.04</b>	<b>11.07</b>				<b>-82,435.56</b>
A. Forest Land	-85,331.32	2.04	0.86				-85,328.41
B. Cropland	1,844.40	NE,NO	10.21				1,854.60
C. Grassland	-169.16	NE,NO	NE,NO				-169.16
D. Wetlands	56.69	NE,NO	NE,NO				56.69
E. Settlements	515.55	NE,NO	NE,NO				515.55
F. Other Land	310.17	NO	NO				310.17
G. Other	325.00	NA,NE	NA,NE				325.00
<b>6. Waste</b>	<b>13,537.58</b>	<b>5,834.11</b>	<b>3,153.06</b>				<b>22,524.76</b>
A. Solid Waste Disposal on Land	NE,NO	4,053.64					4,053.64
B. Waste-water Handling		1,611.81	1,252.20				2,864.01
C. Waste Incineration	12,976.38	12.15	1,762.25				14,750.78
D. Other	561.20	156.51	138.62				856.33
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA</b>	<b>NA</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	37,259.15	48.74	339.71				37,647.60
Aviation	18,358.58	10.91	180.16				18,549.66
Marine	18,900.57	37.83	159.54				19,097.94
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>22,960.05</b>						<b>22,960.05</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,364,257.69
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,281,822.13

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A 9-19 2008 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)

Inventory 2008

Submission 2014 v1.1

JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,136,298.79</b>	<b>21,695.91</b>	<b>21,733.87</b>	<b>15,298.88</b>	<b>4,615.07</b>	<b>3,761.22</b>	<b>1,203,403.73</b>
<b>1. Energy</b>	<b>1,153,082.62</b>	<b>1,295.20</b>	<b>7,154.92</b>				<b>1,161,532.74</b>
A. Fuel Combustion (Sectoral Approach)	1,153,044.77	886.91	7,154.80				1,161,086.48
1. Energy Industries	420,888.41	31.44	2,022.27				422,942.12
2. Manufacturing Industries and Construction	335,621.02	437.79	1,988.48				338,047.28
3. Transport	228,349.14	188.01	2,822.29				231,359.44
4. Other Sectors	168,186.20	229.66	321.77				168,737.63
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	37.85	408.29	0.12				446.26
1. Solid Fuels	NE,NO	45.83	NE,NO				45.83
2. Oil and Natural Gas	37.85	362.46	0.12				400.43
<b>2. Industrial Processes</b>	<b>45,613.15</b>	<b>120.94</b>	<b>1,262.15</b>	<b>15,298.88</b>	<b>4,615.07</b>	<b>3,761.22</b>	<b>70,671.41</b>
A. Mineral Products	42,883.28	NA,NO	NA,NO				42,883.28
B. Chemical Industry	2,574.10	105.92	1,262.15	NA	NA	NA	3,942.17
C. Metal Production	155.77	15.02	NO	IE,NE,NO	14.67	652.47	837.94
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				702.00	523.80	1,288.21	2,514.01
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				14,596.89	4,076.60	1,820.54	20,494.02
G. Other	NO	NO	NO	NA,NO	NA,NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>129.10</b>				<b>129.10</b>
<b>4. Agriculture</b>		<b>14,712.00</b>	<b>10,074.67</b>				<b>24,786.68</b>
A. Enteric Fermentation		6,829.27					6,829.27
B. Manure Management		2,222.60	3,733.61				5,956.21
C. Rice Cultivation		5,598.59					5,598.59
D. Agricultural Soils <sup>(3)</sup>		NA	6,323.82				6,323.82
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		61.54	17.25				78.78
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-77,532.90</b>	<b>21.73</b>	<b>11.58</b>				<b>-77,499.59</b>
A. Forest Land	-80,334.74	21.73	2.68				-80,310.33
B. Cropland	1,715.77	NE,NO	8.90				1,724.67
C. Grassland	-161.37	NE,NO	NE,NO				-161.37
D. Wetlands	34.53	NE,NO	NE,NO				34.53
E. Settlements	578.70	NE,NO	NE,NO				578.70
F. Other Land	328.47	NO	NO				328.47
G. Other	305.74	NA,NE	NA,NE				305.74
<b>6. Waste</b>	<b>15,135.92</b>	<b>5,546.03</b>	<b>3,101.44</b>				<b>23,783.38</b>
A. Solid Waste Disposal on Land	NE,NO	3,767.41					3,767.41
B. Waste-water Handling		1,591.65	1,252.51				2,844.16
C. Waste Incineration	14,605.51	11.82	1,693.79				16,311.12
D. Other	530.41	175.15	155.14				860.70
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA</b>	<b>NA</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	34,849.64	45.09	318.18				35,212.92
Aviation	17,517.99	10.41	171.92				17,700.32
Marine	17,331.65	34.68	146.27				17,512.60
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>21,600.17</b>						<b>21,600.17</b>
	Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry						1,280,903.32
	Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry						1,203,403.73

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A 9-20 2009 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2009  
Submission 2014 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,068,938.99</b>	<b>21,108.94</b>	<b>21,454.85</b>	<b>16,546.60</b>	<b>3,265.25</b>	<b>1,851.27</b>	<b>1,133,165.90</b>
<b>1. Energy</b>	<b>1,088,837.51</b>	<b>1,255.13</b>	<b>6,816.26</b>				<b>1,096,908.89</b>
A. Fuel Combustion (Sectoral Approach)	1,088,802.36	860.87	6,816.14				1,096,479.37
1. Energy Industries	385,493.08	29.71	1,934.25				387,457.05
2. Manufacturing Industries and Construction	319,093.43	436.44	1,917.26				321,447.13
3. Transport	223,043.03	175.91	2,652.81				225,871.75
4. Other Sectors	161,172.82	218.81	311.82				161,703.45
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	35.15	394.26	0.11				429.52
1. Solid Fuels	NE,NO	46.25	NE,NO				46.25
2. Oil and Natural Gas	35.15	348.01	0.11				383.27
<b>2. Industrial Processes</b>	<b>40,189.35</b>	<b>109.09</b>	<b>1,559.50</b>	<b>16,546.60</b>	<b>3,265.25</b>	<b>1,851.27</b>	<b>63,521.07</b>
A. Mineral Products	37,589.16	NA,NO	NA,NO				37,589.16
B. Chemical Industry	2,488.20	96.13	1,559.50	NA	NA	NA	4,143.83
C. Metal Production	111.99	12.96	NO	IE,NE,NO	11.02	239.00	374.97
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				222.14	399.48	260.51	882.13
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				16,324.46	2,854.75	1,351.76	20,530.98
G. Other	NO	NO	NO	NA,NO	NA,NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>120.50</b>				<b>120.50</b>
<b>4. Agriculture</b>		<b>14,479.74</b>	<b>9,924.86</b>				<b>24,404.59</b>
A. Enteric Fermentation		6,691.40					6,691.40
B. Manure Management		2,185.09	3,775.85				5,960.94
C. Rice Cultivation		5,544.83					5,544.83
D. Agricultural Soils <sup>(3)</sup>		NA	6,132.73				6,132.73
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		58.42	16.28				74.70
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-72,523.94</b>	<b>8.61</b>	<b>8.59</b>				<b>-72,506.74</b>
A. Forest Land	-75,674.84	8.61	1.37				-75,664.86
B. Cropland	1,861.09	NE,NO	7.22				1,868.31
C. Grassland	-139.47	NE,NO	NE,NO				-139.47
D. Wetlands	73.42	NE,NO	NE,NO				73.42
E. Settlements	766.57	NE,NO	NE,NO				766.57
F. Other Land	319.14	NO	NO				319.14
G. Other	270.15	NA,NE	NA,NE				270.15
<b>6. Waste</b>	<b>12,436.07</b>	<b>5,256.37</b>	<b>3,025.16</b>				<b>20,717.59</b>
A. Solid Waste Disposal on Land	NE,NO	3,524.71					3,524.71
B. Waste-water Handling		1,545.11	1,235.85				2,780.97
C. Waste Incineration	11,922.38	10.50	1,633.38				13,566.25
D. Other	513.69	176.05	155.93				845.67
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA</b>	<b>NA</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	30,686.03	39.77	280.09				31,005.89
Aviation	15,372.73	9.14	150.86				15,532.73
Marine	15,313.30	30.64	129.22				15,473.16
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>19,755.88</b>						<b>19,755.88</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,205,672.64
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,133,165.90

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A 9-21 2010 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2010  
Submission 2014 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,118,699.07</b>	<b>20,698.99</b>	<b>20,776.73</b>	<b>18,291.38</b>	<b>3,408.71</b>	<b>1,862.42</b>	<b>1,183,737.31</b>
<b>1. Energy</b>	<b>1,137,014.55</b>	<b>1,332.95</b>	<b>6,720.87</b>				<b>1,145,068.37</b>
A. Fuel Combustion (Sectoral Approach)	1,136,981.41	957.21	6,720.77				1,144,659.39
1. Energy Industries	405,371.75	41.88	1,915.58				407,329.21
2. Manufacturing Industries and Construction	342,657.35	516.47	1,987.88				345,161.71
3. Transport	225,507.56	165.95	2,491.99				228,165.50
4. Other Sectors	163,444.75	232.91	325.32				164,002.98
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	33.14	375.74	0.11				408.98
1. Solid Fuels	NE,NO	44.49	NE,NO				44.49
2. Oil and Natural Gas	33.14	331.25	0.11				364.50
<b>2. Industrial Processes</b>	<b>41,074.01</b>	<b>118.30</b>	<b>1,077.74</b>	<b>18,291.38</b>	<b>3,408.71</b>	<b>1,862.42</b>	<b>65,832.56</b>
A. Mineral Products	38,176.92	NA,NO	NA,NO				38,176.92
B. Chemical Industry	2,737.23	103.44	1,077.74	NA	NA	NA	3,918.41
C. Metal Production	159.86	14.87	NO	IE,NE,NO	10.38	307.90	493.01
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				128.34	200.24	198.37	526.96
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				18,163.04	3,198.08	1,356.15	22,717.28
G. Other	NO	NO	NO	NA,NO	NA,NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>98.95</b>				<b>98.95</b>
<b>4. Agriculture</b>		<b>14,271.62</b>	<b>9,938.13</b>				<b>24,209.74</b>
A. Enteric Fermentation		6,576.99					6,576.99
B. Manure Management		2,161.53	3,778.75				5,940.29
C. Rice Cultivation		5,477.13					5,477.13
D. Agricultural Soils <sup>(3)</sup>		NA	6,143.83				6,143.83
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		55.96	15.54				71.51
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-72,368.18</b>	<b>4.14</b>	<b>6.66</b>				<b>-72,357.39</b>
A. Forest Land	-75,942.17	4.14	0.99				-75,937.04
B. Cropland	1,757.79	NE,NO	5.66				1,763.45
C. Grassland	-111.87	NE,NO	NE,NO				-111.87
D. Wetlands	51.48	NE,NO	NE,NO				51.48
E. Settlements	1,292.26	NE,NO	NE,NO				1,292.26
F. Other Land	341.44	NO	NO				341.44
G. Other	242.88	NA,NE	NA,NE				242.88
<b>6. Waste</b>	<b>12,978.70</b>	<b>4,971.99</b>	<b>2,934.38</b>				<b>20,885.07</b>
A. Solid Waste Disposal on Land	NE,NO	3,292.26					3,292.26
B. Waste-water Handling		1,516.82	1,221.28				2,738.10
C. Waste Incineration	12,451.79	9.69	1,577.39				14,038.87
D. Other	526.91	153.21	135.70				815.83
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA</b>	<b>NA</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	31,179.83	39.46	285.52				31,504.81
Aviation	16,295.33	9.68	159.92				16,464.93
Marine	14,884.50	29.78	125.60				15,039.88
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>29,847.34</b>						<b>29,847.34</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,256,094.69
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,183,737.31

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A 9-22 2011 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2011  
Submission 2014 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,165,032.89</b>	<b>20,292.00</b>	<b>20,499.64</b>	<b>20,451.53</b>	<b>3,016.35</b>	<b>1,637.85</b>	<b>1,230,930.27</b>
<b>1. Energy</b>	<b>1,186,969.92</b>	<b>1,310.42</b>	<b>6,725.94</b>				<b>1,195,006.28</b>
A. Fuel Combustion (Sectoral Approach)	1,186,937.39	935.98	6,725.84				1,194,599.21
1. Energy Industries	466,935.31	68.65	2,063.57				469,067.53
2. Manufacturing Industries and Construction	334,882.52	511.83	1,966.62				337,360.97
3. Transport	221,559.12	157.70	2,367.14				224,083.95
4. Other Sectors	163,560.44	197.80	328.51				164,086.76
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	32.52	374.43	0.10				407.06
1. Solid Fuels	NE,NO	44.66	NE,NO				44.66
2. Oil and Natural Gas	32.52	329.77	0.10				362.40
<b>2. Industrial Processes</b>	<b>41,182.35</b>	<b>119.59</b>	<b>787.56</b>	<b>20,451.53</b>	<b>3,016.35</b>	<b>1,637.85</b>	<b>67,195.24</b>
A. Mineral Products	38,391.41	NA,NO	NA,NO				38,391.41
B. Chemical Industry	2,629.25	104.50	787.56	NA	NA	NA	3,521.31
C. Metal Production	161.70	15.09	NO	0.91	10.36	191.20	379.25
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				112.52	171.90	138.62	423.05
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				20,338.10	2,834.09	1,308.03	24,480.22
G. Other	NO	NO	NO	NA,NO	NA,NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>97.15</b>				<b>97.15</b>
<b>4. Agriculture</b>		<b>14,090.97</b>	<b>9,935.03</b>				<b>24,025.99</b>
A. Enteric Fermentation		6,440.80					6,440.80
B. Manure Management		2,134.28	3,734.20				5,868.48
C. Rice Cultivation		5,459.77					5,459.77
D. Agricultural Soils <sup>(3)</sup>		NA	6,185.25				6,185.25
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		56.12	15.58				71.69
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-75,599.01</b>	<b>5.35</b>	<b>6.01</b>				<b>-75,587.65</b>
A. Forest Land	-77,917.58	5.35	1.09				-77,911.14
B. Cropland	1,709.14	NE,NO	4.92				1,714.06
C. Grassland	-133.05	NE,NO	NE,NO				-133.05
D. Wetlands	43.99	NE,NO	NE,NO				43.99
E. Settlements	156.22	NE,NO	NE,NO				156.22
F. Other Land	295.49	NO	NO				295.49
G. Other	246.78	NA,NE	NA,NE				246.78
<b>6. Waste</b>	<b>12,479.64</b>	<b>4,765.68</b>	<b>2,947.95</b>				<b>20,193.27</b>
A. Solid Waste Disposal on Land	NE,NO	3,095.67					3,095.67
B. Waste-water Handling		1,491.43	1,212.87				2,704.30
C. Waste Incineration	11,955.51	9.62	1,585.43				13,550.56
D. Other	524.13	168.96	149.65				842.74
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA</b>	<b>NA</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	31,636.35	37.63	292.06				31,966.04
Aviation	18,249.69	10.85	179.10				18,439.64
Marine	13,386.66	26.78	112.96				13,526.40
<b>Multilateral Operations</b>	NO	NO	NO				NO
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>32,484.40</b>						<b>32,484.40</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,306,517.92
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,230,930.27

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

表 A-9-23 2012 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2012  
Submission 2014 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(4)</sup></b>	<b>1,200,539.05</b>	<b>20,008.36</b>	<b>20,235.91</b>	<b>22,925.68</b>	<b>2,758.27</b>	<b>1,585.09</b>	<b>1,268,052.37</b>
<b>1. Energy</b>	<b>1,221,599.84</b>	<b>1,285.08</b>	<b>6,692.98</b>				<b>1,229,577.90</b>
A. Fuel Combustion (Sectoral Approach)	1,221,568.13	920.34	6,692.88				1,229,181.36
1. Energy Industries	510,263.11	78.21	2,064.96				512,406.28
2. Manufacturing Industries and Construction	333,094.64	497.01	1,988.55				335,580.20
3. Transport	217,308.56	154.67	2,292.05				219,755.28
4. Other Sectors	160,901.83	190.46	347.31				161,439.60
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	31.71	364.74	0.10				396.54
1. Solid Fuels	NE,NO	47.33	NE,NO				47.33
2. Oil and Natural Gas	31.71	317.40	0.10				349.21
<b>2. Industrial Processes</b>	<b>41,495.86</b>	<b>119.52</b>	<b>631.33</b>	<b>22,925.68</b>	<b>2,758.27</b>	<b>1,585.09</b>	<b>69,515.75</b>
A. Mineral Products	38,905.98	NA,NO	NA,NO				38,905.98
B. Chemical Industry	2,415.68	104.33	631.33	NA	NA	NA	3,151.34
C. Metal Production	174.20	15.19	NO	1.17	9.02	191.20	390.78
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				92.42	122.16	129.06	343.64
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				22,832.09	2,627.09	1,264.83	26,724.02
G. Other	NO	NO	NO	NA,NO	NA,NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>90.68</b>				<b>90.68</b>
<b>4. Agriculture</b>		<b>14,037.20</b>	<b>9,867.56</b>				<b>23,904.76</b>
A. Enteric Fermentation		6,378.73					6,378.73
B. Manure Management		2,121.36	3,711.92				5,833.28
C. Rice Cultivation		5,480.40					5,480.40
D. Agricultural Soils <sup>(3)</sup>		NA	6,139.90				6,139.90
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		56.71	15.74				72.45
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-75,071.64</b>	<b>1.59</b>	<b>4.70</b>				<b>-75,065.36</b>
A. Forest Land	-77,672.75	1.59	0.71				-77,670.44
B. Cropland	1,641.22	NE,NO	3.98				1,645.20
C. Grassland	-116.01	NE,NO	NE,NO				-116.01
D. Wetlands	31.83	NE,NO	NE,NO				31.83
E. Settlements	508.33	NE,NO	NE,NO				508.33
F. Other Land	288.96	NO	NO				288.96
G. Other	246.78	NA,NE	NA,NE				246.78
<b>6. Waste</b>	<b>12,514.99</b>	<b>4,564.97</b>	<b>2,948.67</b>				<b>20,028.63</b>
A. Solid Waste Disposal on Land	NA,NE,NO	2,927.88					2,927.88
B. Waste-water Handling		1,463.83	1,174.88				2,638.72
C. Waste Incineration	11,999.93	8.42	1,627.79				13,636.14
D. Other	515.07	164.83	146.00				825.90
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA</b>	<b>NA</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	32,349.06	37.80	299.30				32,686.16
Aviation	19,140.10	11.38	187.83				19,339.31
Marine	13,208.96	26.43	111.46				13,346.85
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>32,503.57</b>						<b>32,503.57</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,343,117.72
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,268,052.37

(1) For CO<sub>2</sub> 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 CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

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

