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NON-POINT SOURCE EMISSIONS BY CFR CATEGORIES IN FINLAND IN 2015; Greenhouse gas emissions (CH₄, CO₂, N₂O) (kt)

Energy production				
CFR	Sector name	CH₄	CO₂	N₂O
1A1a	Public Electricity and Heat Production	0.946184	1981.672	0.346389
1A1b	Petroleum Refining	0.040741	NA	0.028721
1A1c	Manufacture of Solid Fuels and Other Energy Industries	0.003441	332.1727	0.003441
1A2a	Iron and Steel	0.017126	NA	0.019225
1A2b	Non-Ferrous Metals	0.002017	97.1467	0.001435
1A2c	Chemicals	0.013511	283.8203	NA
1A2d	Pulp, Paper and Print	0.291983	264.5256	0.342166
1A2e	Food Processing, Beverages and Tobacco	0.004686	161.0809	0.005848
1A2f	Non-metallic minerals	0.010336	NA	0.014445
1A2g	Other manufacturing industries and constructions	NA	1375.946	NA
1A4a	Commercial/Institutional	0.327236	944.288	0.029183
1A4b	Residential	6.163539	1264.267	0.132625
1A4c	Agriculture/Forestry/Fisheries	0.51551	1334.791	0.040893
1A5a	Stationary (please specify)	0.11756	1095.922	0.024942
Transport				
CFR	Sector name	CH₄	CO₂	N₂O
1A3a	Civil Aviation	0.003194	185.9763	0.00509
1A3b	Road Transportation	0.696748	10333.32	0.244711
1A3c	Railways	0.003924	68.24022	0.001098
1A3d	Navigation	0.150716	418.9687	0.010112
1A3e	Other Transportation	0.000566	5.25089	0.00009495
1A5b	<i>Mobile (please specify)</i>	NA	NA	NA
Industrial processes and product use				
CFR	Sector name	CH₄	CO₂	N₂O
2A1	Cement production	NA	462.1458	NA
2A2	Lime production	NA	358.3208	NA
2A3	Glass production	NA	2.079328	NA
2A4a	Ceramics	NA	1.328176	NA

2A4b	Other uses of soda ash	NA	16.46253	NA
2A4d	Other unspecified uses of carbonates	NA	122.1857	NA
2B10a	Phosphoric acid production	NA	40.15538	NA
2B10b	Hydrogen production	NA	785.8427	NA
2B10c	Limestone and dolomite use	NA	90.24507	NA
2B2	Nitric acid production	NA	NA	0.86788
2C1	Iron and steel production	0.000087562	2162.913	NA
2C7	Other metal industry	NA	22.79583	NA
2D1	Lubricant use	0.00584	107.1388	0.002922
2D2	Paraffin wax use	NA	22.72264	NA
2D3	Other non energy products	NA	6.524666	NA
Agriculture				
CFR	Sector name	CH₄	CO₂	N₂O
3A	Enteric fermentation	84.69704295	NA	NA
3B	Manure management	18.56720788	NA	0.966125189
3D1	Direct N ₂ O emissions from managed soils	NA	NA	10.19625643
3D11	Inorganic N fertilizers	NA	NA	2.254668034
3D12	Organic N fertilizers	NA	NA	1.171058549
3D13	Urine and dung deposited by grazing animals	NA	NA	0.36759028
3D14	Crop residues	NA	NA	1.458671458
3D16	Cultivation of organic soils	NA	NA	4.944268109
3D2	Indirect N ₂ O emissions from managed soils	NA	NA	1.303890071
3F	Field burning of agricultural residues	0.078452046	NA	0.002033942
3G	Liming	NA	179.7496	NA
3H	Urea application	NA	2.096333	NA
Waste				
CFR	Sector name	CH₄	CO₂	N₂O
5A1	Managed waste disposal sites	70.65639419	NA	NA
5B1	Waste composting	2.459131733	NA	0.147547904
5B2	Anaerobic digestion at biogas facilities	0.296270885	NA	NA

5D1	Wastewater treatment and discharge, domestic ww	5.897712994	NA	0.23143998
5D2	Wastewater treatment and discharge, industrial ww	1.031261364	NA	0.036628577
5D3	Wastewater treatment and discharge, other ww	NA	NA	0.004523505

NON-POINT SOURCE EMISSIONS BY CFR CATEGORIES IN FINLAND IN 2014; Greenhouse gas emissions (CH₄, CO₂, N₂O) (kt)

Energy production				
CFR	Sector name	CH₄	CO₂	N₂O
1A1a	Public Electricity and Heat Production	1.032626	2571.505	0.419237
1A1b	Petroleum Refining	0.044996	NA	0.030539
1A1c	Manufacture of Solid Fuels and Other Energy Industries	0.003205	304.1349	0.003205
1A2a	Iron and Steel	0.019352	NA	0.02149
1A2b	Non-Ferrous Metals	0.001165	92.13691	0.00133
1A2c	Chemicals	0.013282	289.7746	NA
1A2d	Pulp, Paper and Print	0.297197	256.119	0.305311
1A2e	Food Processing, Beverages and Tobacco	0.008183	237.8383	0.010938
1A2f	Non-metallic minerals	0.011398	NA	0.01529
1A2g	Other manufacturing industries and constructions	NA	1191.902	NA
1A4a	Commercial/Institutional	0.337646	1016.322	0.031103
1A4b	Residential	6.537511	1405.519	0.142221
1A4c	Agriculture/Forestry/Fisheries	0.547176	1373.36	0.044502
1A5a	Stationary (please specify)	0.112268	1038.921	0.023627
Transport				
CFR	Sector name	CH₄	CO₂	N₂O
1A3a	Civil Aviation	0.003196	187.5566	0.00513
1A3b	Road Transportation	0.736099	10259.4	0.240338
1A3c	Railways	0.004844	84.68946	0.001356
1A3d	Navigation	0.147234	410.9274	0.009923
1A3e	Other Transportation	0.001539	11.50115	0.000208
1A5b	<i>Mobile (please specify)</i>	0.003196	187.5566	0.00513
Industrial processes and product use				
CFR	Sector name	CH₄	CO₂	N₂O
2A1	Cement production	NA	1016.322	NA
2A2	Lime production	NA	1405.519	NA
2A3	Glass production	NA	1373.36	NA
2A4a	Ceramics	NA	1038.921	NA

2A4b	Other uses of soda ash	NA	468.7971	NA
2A4d	Other unspecified uses of carbonates	NA	386.4252	NA
2B10a	Phosphoric acid production	NA	2.573694	NA
2B10b	Hydrogen production	NA	2.055363	NA
2B10c	Limestone and dolomite use	NA	17.33588	NA
2B2	Nitric acid production	NA	NA	0.688026
2C1	Iron and steel production	8.88E-05	2031.686	NA
2C7	Other metal industry	NA	21.54328	NA
2D1	Lubricant use	0.00332	60.80729	0.001658
2D2	Paraffin wax use	NA	22.1947	NA
2D3	Other non energy products	NA	5.667854	NA
Agriculture				
CFR	Sector name	CH₄	CO₂	N₂O
3A	Enteric fermentation	83.62723	NA	NA
3B	Manure management	18.35134	NA	0.960384
3D1	Direct N ₂ O emissions from managed soils	NA	NA	10.25357
3D11	Inorganic N fertilizers	NA	NA	2.315861
3D12	Organic N fertilizers	NA	NA	1.160888
3D13	Urine and dung deposited by grazing animals	NA	NA	0.365799
3D14	Crop residues	NA	NA	1.479828
3D16	Cultivation of organic soils	NA	NA	4.931192
3D2	Indirect N ₂ O emissions from managed soils	NA	NA	1.318961
3F	Field burning of agricultural residues	0.080071	NA	0.002076
3G	Liming	NA	222.2113	NA
3H	Urea application	NA	1.694333	NA
Waste				
CFR	Sector name	CH₄	CO₂	N₂O
5A1	Managed waste disposal sites	73.01959	NA	NA
5B1	Waste composting	2.856043	NA	0.171363
5B2	Anaerobic digestion at biogas facilities	0.242499	NA	NA

5D1	Wastewater treatment and discharge, domestic ww	5.946518	NA	0.223304
5D2	Wastewater treatment and discharge, industrial ww	0.962255	NA	0.039881
5D3	Wastewater treatment and discharge, other ww	NA	NA	0.0048

NON-POINT SOURCE EMISSIONS BY CFR CATEGORIES IN FINLAND IN 2013; Greenhouse gas emissions (CH₄, CO₂, N₂O) (kt)

Energy production				
CFR	Sector name	CH₄	CO₂	N₂O
1A1a	Public Electricity and Heat Production	0.95076923	2103.555799	0.44038096
1A1b	Petroleum Refining	0.04607795	NA	0.03041382
1A1c	Manufacture of Solid Fuels and Other Energy Industries	0.00298485	248.3037939	0.00298485
1A2a	Iron and Steel	0.01785742	NA	0.02003849
1A2b	Non-Ferrous Metals	0.00125504	97.98060271	0.00142619
1A2c	Chemicals	0.01380854	291.8107947	NA
1A2d	Pulp, Paper and Print	0.29624034	55.31726889	0.31800734
1A2e	Food Processing, Beverages and Tobacco	0.00775811	233.9375071	0.01027856
1A2f	Non-metallic minerals	NA	NA	NA
1A2g	Other manufacturing industries and constructions	NA	1824.712884	NA
1A4a	Commercial/Institutional	0.335619158	1054.617409	0.031617547
1A4b	Residential	10.83486132	1475.632633	0.142173695
1A4c	Agriculture/Forestry/Fisheries	0.647127685	1486.320863	0.050605702
1A5a	Stationary (please specify)	0.124467	1021.24677	0.026375
Transport				
CFR	Sector name	CH₄	CO₂	N₂O
1A3a	Civil Aviation	0.00739	192.18958	0.00855
1A3b	Road Transportation	0.773069113	11225.15977	0.235002582
1A3c	Railways	0.00531295	92.73551	0.001485073
1A3d	Navigation	0.135654522	475.75122	0.011488611
1A3e	Other Transportation	0.00073486	13.3846788	0.00024252
1A5b	<i>Mobile (please specify)</i>	0.00874	204.0826	0.008476
Industrial processes and product use				
CFR	Sector name	CH₄	CO₂	N₂O
2A1	Cement production	NA	485.6548544	NA
2A2	Lime production	NA	401.0808926	NA
2A3	Glass production	NA	2.010072247	NA
2A4a	Ceramics	NA	1.809134201	NA

2A4b	Other uses of soda ash	NA	20.9120839	NA
2A4d	Other unspecified uses of carbonates	NA	114.6978976	NA
2B10a	Phosphoric acid production	NA	41.5566296	NA
2B10b	Hydrogen production	NA	793.2775782	NA
2B10c	Limestone and dolomite use	NA	75.0681547	NA
2B2	Nitric acid production	NA	NA	0.70825
2C1	Iron and steel production	0.00008776	2073.242005	NA
2C7	Other metal industry	NA	21.52860088	NA
2D1	Lubricant use	0.00396	72.62849	0.001981
2D2	Paraffin wax use	NA	18.89626563	NA
2D3	Other non energy products	NA	4.799544736	NA
Agriculture				
CFR	Sector name	CH₄	CO₂	N₂O
3A	Enteric fermentation	82.53632472	NA	NA
3B	Manure management	18.21801481	NA	0.955472357
3D1	Direct N ₂ O emissions from managed soils	NA	NA	9.926739613
3D11	Inorganic N fertilizers	NA	NA	2.170708571
3D12	Organic N fertilizers	NA	NA	1.091760423
3D13	Urine and dung deposited by grazing animals	NA	NA	0.365348424
3D14	Crop residues	NA	NA	1.522487894
3D16	Cultivation of organic soils	NA	NA	4.776434301
3D2	Indirect N ₂ O emissions from managed soils	NA	NA	1.271096459
3F	Field burning of agricultural residues	0.083286888	NA	0.00215929
3G	Liming	NA	194.1525735	NA
3H	Urea application	NA	0.331467	NA
Waste				
CFR	Sector name	CH₄	CO₂	N₂O
5A1	Managed waste disposal sites	78.08785562	NA	NA
5B1	Waste composting	2.720856874	NA	0.184109106
5B2	Anaerobic digestion at biogas facilities	0.255969314	NA	NA

NON-POINT SOURCE EMISSIONS BY CFR CATEGORIES IN FINLAND IN 2012; Greenhouse gas Emissions (CH₄, CO₂, N₂O) (kt)

Energy production				
CFR	Sector name	CH₄	CO₂	N₂O
1A1a	Public Electricity and Heat Production	0.983966	2992.106	NA
1A1b	Petroleum Refining	0.047209	NA	0.033228
1A1c	Manufacture of Solid Fuels and Other Energy Industries	0.003151	255.7128	0.003151
1A2a	Iron and Steel	0.018797	NA	0.021559
1A2b	Non-Ferrous Metals	0.001254	96.19672	0.001428
1A2c	Chemicals	0.012027	190.4556	NA
1A2d	Pulp, Paper and Print	0.286128	493.9496	0.315802
1A2e	Food Processing, Beverages and Tobacco	0.007338	214.8238	0.009792
1A2f	Other (please specify)	NA	1025.119	0.067612
1A4a	Commercial/Institutional	0.302751	1013.905	0.033331
1A4b	Residential	11.33368	1428.727	0.149914
1A4c	Agriculture/Forestry/Fisheries	0.577448	1510.223	0.055009
1A5a	Stationary (please specify)	0.159675	1151.004	0.731298
1B1	Solid Fuels	NA	NA	NA
1B2a	Oil	0.502915	1.375	NA
1B2b	Natural Gas	1.287856	3.541605	NA
1B2c	Venting and Flaring	0.001538	100.485	0.003076
1B2d	Other	NA	28.01954	NA
Transport				
CFR	Sector name	CH₄	CO₂	N₂O
1A3a	Civil Aviation	0.00806	203.4953	0.00893
1A3b	Road Transportation	1.155759	11051.6	0.520657
1A3c	Railways	0.00525	98.74912	0.00264
1A3d	Navigation	0.11978	483.8568	0.01221
1A3e	Other Transportation	0.320119	633.261	0.014528
1A5b	Mobile (please specify)	0.00874	204.0826	0.008476
Industrial processes				
CFR	Sector name	CH₄	CO₂	N₂O
2A1	Cement Production	NA	499.6183	NA

2A2	Lime Production	NA	402.8869	NA
2A3	Limestone and Dolomite Use	NA	238.613	NA
2A4	Soda Ash Production and Use	NA	21.03293	NA
2A5	Asphalt Roofing	NA	NA	NA
2A6	Road Paving with Asphalt	NA	1.694786	NA
2A7a	Glass Production	NA	1.599061	NA
2A7b	Other non-specified	NA	NA	NA
2B1	Ammonia Production	NA	NA	NA
2B2	Nitric Acid Production	NA	NA	0.53668
2B3	Adipic Acid Production	NA	NA	NA
2B4	Carbide Production	NA	NA	NA
2B5a	Carbon Black	NA	NA	NA
2B5b	Ethylene	NA	NA	NA
2B5c	Dichloroethylene	NA	NA	NA
2B5d	Styrene	NA	NA	NA
2B5e	Methanol	NA	NA	NA
2B5f	Chemicals production	NA	7.466944	NA
2B5g	Hydrogen	NA	676.537	NA
2B5h	Refineries	NA	NA	NA
2B5i	Phosphoric Acid Production	NA	42.447	NA
2B5j	Other non-specified	NA	NA	NA
2C1	Iron and Steel Production	0.440256	2277.84	NA
2C2	Ferroalloys Production	NA	NA	NA
2C3	Aluminium Production	NA	NA	NA
2C5a	Non-ferrous metals	NA	0.322153	NA
2C5b	Other non-specified	NA	NA	NA
2D1	Pulp and Paper	NA	NA	NA
2D2	Food and Drink	NA	NA	NA
2G	Other (please specify)	NA	NA	NA

Product use

CFR	Sector name	CH ₄	CO ₂	N ₂ O
3A	Paint Application	NA	17.99752	NA
3B	Degreasing and Dry Cleaning	NA	0.745218	NA
3C	Chemical Products	NA	5.693847	NA
3D1	Use of N2O for Anaesthesia	NA	NA	0.08438
3D2	Fire Extinguishers	NA	NA	NA

3D3	N2O from Aerosol Cans	NA	NA	NA
3D4	Other Use of N2O	NA	NA	NA
3D5a	Domestic solvent use	NA	10.1684	NA
3D5b	Fat edible and non-edible oil extraction	NA	NA	NA
3D5c	Glass Wool Induction	NA	0.017059	NA
3D5d	Mineral Wool Induction	NA	0.135882	NA
3D5e	Printing Industry	NA	2.625592	NA
3D5f	Use of pesticides	NA	1.529458	NA
3D5g	Wood Preservation	NA	0.893713	NA
3D5h	Other non-specified	NA	NA	NA
Agriculture				
CFR	Sector name	CH₄	CO₂	N₂O
4A1a	Enteric fermentation – Dairy Cattle	36.90579	NA	NA
4A1b1	Enteric fermentation – Cows	4.029539	NA	NA
4A1b2	Enteric fermentation - Bulls	5.855668	NA	NA
4A1b3	Enteric fermentation – Heifers	7.890845	NA	NA
4A1b4	Enteric fermentation- Calves	10.98603	NA	NA
4A2	Enteric fermentation -Buffalo	NO	NO	NO
4A3	Enteric fermentation – Sheep	1.091263	NA	NA
4A4	Enteric fermentation – Goats	0.02443	NA	NA
4A5	Enteric fermentation –Camels and Liams	NO	NA	NA
4A6	Enteric fermentation – Horses	1.1511	NA	NA
4A7	Enteric fermentation – Mules and Asses	NO	NO	NO
4A8a	Enteric fermentation – Fattening pigs	0.582424	NA	NA
4A8b	Enteric fermentation – Weaned pigs	0.185018	NA	NA
4A8c	Enteric fermentation – Boars	9.29E-03	NA	NA
4A8d	Enteric fermentation- Sows	0.474074	NA	NA
4A8e	Enteric fermentation - Piglets	4.91E-02	NA	NA
4A9	Enteric fermentation – Poultry	NA	NA	NA
4A10a	Enteric fermentation – Fur farming	0.28982	NA	NA

4A10b	Enteric fermentation - Reindeers	3.819208	NA	NA
4A10c	Enteric fermentation - Ponies	0.1827	NA	NA
4B1a	Manure management – Dairy Cattle	4.317512	NA	NA
4B1b1	Manure management – Cows	0.315038	NA	NA
4B1b2	Manure management - Bulls	0.475653	NA	NA
4B1b3	Manure management – Heifers	0.411309	NA	NA
4B1b4	Manure management - Calves	0.770382	NA	NA
4B2	Manure management -Buffalo	NO	NO	NO
4B3	Manure management – Sheep	0.024162	NA	NA
4B4	Manure management – Goats	0.000569	NA	NA
4B5	Manure management – Camels and Liams	NO	NO	NO
4B6	Manure management – Horses	0.088767	NA	NA
4B7	Manure management – Mules and Asses	NO	NO	NO
4B8a	Manure management – Fattening pigs	2.270955	NA	NA
4B8b	Manure management – Weaned pigs	1.43888	NA	NA
4B8c	Manure management – Boars	0.006106	NA	NA
4B8d	Manure management - Sows	0.304014	NA	NA
4B8e	Manure management - Piglets	0.856387	NA	NA
4B9	Manure management – Poultry	0.239512	NA	NA
4B10a	Manure management – Fur farming	0.385563	NA	NA
4B10b	Manure management - Reindeers	0.022341	NA	NA
4B10c	Manure management - Ponies	0.014089	NA	NA
4B11	Manure management - Anaerobic Lagoons	NO	NO	NO

4B12	Manure management - Liquid Systems	NA	NA	5.84E-02
4B13	Manure management - Solid Storage and Dry Lot	NA	NA	1.039326
4B14	Manure management - Other AWMS	NA	NA	0.242839
4D	Agricultural soils	NA	NA	11.28055879
4F	Field burning of agricultural residues	1.87E-02	NA	3.70E-04
Waste				
CFR	Sector name	CH₄	CO₂	N₂O
6A1	Managed Waste Disposal on Land	51.20244	NA	NA
6A2	Unmanaged Waste Disposal Sites	NA	NA	NA
6A3a	Construction and Demolition Waste	12.19665	NA	NA
6A3b	Industrial Sludge (d.m.)	4.871821	NA	NA
6A3c	Industrial Solid Waste	13.86289	NA	NA
6A3d	Municipal Sludge (d.m.)	0.584577	NA	NA
6A3e	Other non-specified	NA	NA	NA
6B1	Industrial Wastewater	0.822734	NA	NA
6B2	Domestic and Commercial Wastewater	4.613577	NA	0.252727
6B3a	N input from Fish Farming	NA	NA	9.73E-03
6B3b	N input from Industrial Wastewater	NA	NA	5.75E-02
6B3c	Other non-specified	NA	NA	NA
6C1	Biogenic	NA	NA	NA
6C2	Other (non-biogenic - please specify)	NA	NA	NA
6D1	Compost production	2.775658	NA	0.190534
6D2	Other non-specified	NA	NA	NA

NON-POINT SOURCE EMISSIONS BY CFR CATEGORIES IN FINLAND IN 2011; Greenhouse gas Emissions (CH₄, CO₂, N₂O) (kt)

Energy production				
CFR	Sector name	CH₄	CO₂	N₂O
1A1a	Public Electricity and Heat Production	1.017854	2452.418	0.612734
1A1b	Petroleum Refining	0.04991	NA	0.036912
1A1c	Manufacture of Solid Fuels and Other Energy Industries	0.003024	265.9834	0.003024
1A2a	Iron and Steel	0.02367	NA	0.026902
1A2b	Non-Ferrous Metals	0.001347	103.541	0.00151
1A2c	Chemicals	0.014966	363.4628	NA
1A2d	Pulp, Paper and Print	0.287677	411.3605	NA
1A2e	Food Processing, Beverages and Tobacco	0.008198	246.94	0.010768
1A2f	Other (please specify)	NA	997.0107	NA
1A4a	Commercial/Institutional	0.273331	926.3127	0.03038
1A4b	Residential	10.38267	1319.221	0.137994
1A4c	Agriculture/Forestry/Fisheries	0.526001	1442.252	0.051844
1A5a	Stationary (please specify)	0.149096	1113.82	0.776288
1B1	Solid Fuels	NA	NA	NA
1B2a	Oil	0.520869	1.43	NA
1B2b	Natural Gas	1.220084	3.35523	NA
1B2c	Venting and Flaring	0.001164	87.9992	0.002327
1B2d	Other	NA	28.45933	NA
Transport				
CFR	Sector name	CH₄	CO₂	N₂O
1A3a	Civil Aviation	0.00966	244.0083	0.01071
1A3b	Road Transportation	1.292388	11487.57	0.527037
1A3c	Railways	0.00521	98.27072	0.00263
1A3d	Navigation	0.13937	536.8665	0.01349
1A3e	Other Transportation	0.312366	648.3925	0.015012
1A5b	Mobile (please specify)	0.00791	179.9085	0.007419
Industrial processes				
CFR	Sector name	CH₄	CO₂	N₂O
2A1	Cement Production	NA	444.7056	NA

2A2	Lime Production	NA	437.8981	NA
2A3	Limestone and Dolomite Use	NA	288.1474	NA
2A4	Soda Ash Production and Use	NA	21.3415	NA
2A5	Asphalt Roofing	NA	NA	NA
2A6	Road Paving with Asphalt	NA	1.469874	NA
2A7a	Glass Production	NA	1.774726	NA
2A7b	Other non-specified	NA	NA	NA
2B1	Ammonia Production	NA	NA	NA
2B2	Nitric Acid Production	NA	NA	0.4354
2B3	Adipic Acid Production	NA	NA	NA
2B4	Carbide Production	NA	NA	NA
2B5a	Carbon Black	NA	NA	NA
2B5b	Ethylene	NA	NA	NA
2B5c	Dichloroethylene	NA	NA	NA
2B5d	Styrene	NA	NA	NA
2B5e	Methanol	NA	NA	NA
2B5f	Chemicals production	NA	7.603144	NA
2B5g	Hydrogen	NA	662.0096	NA
2B5h	Refineries	NA	NA	NA
2B5i	Phosphoric Acid Production	NA	36.7446	NA
2B5j	Other non-specified	NA	NA	NA
2C1	Iron and Steel Production	0.426201	2343.202	NA
2C2	Ferroalloys Production	NA	NA	NA
2C3	Aluminium Production	NA	NA	NA
2C5a	Non-ferrous metals	NA	0.203168	NA
2C5b	Other non-specified	NA	NA	NA
2D1	Pulp and Paper	NA	NA	NA
2D2	Food and Drink	NA	NA	NA
2G	Other (please specify)	NA	NA	NA

Product use

CFR	Sector name	CH ₄	CO ₂	N ₂ O
3A	Paint Application	NA	19.18089	NA
3B	Degreasing and Dry Cleaning	NA	0.519129	NA
3C	Chemical Products	NA	7.717342	NA
3D1	Use of N2O for Anaesthesia	NA	NA	0.085914
3D2	Fire Extinguishers	NA	NA	NA

3D3	N2O from Aerosol Cans	NA	NA	NA
3D4	Other Use of N2O	NA	NA	NA
3D5a	Domestic solvent use	NA	10.1684	NA
3D5b	Fat edible and non-edible oil extraction	NA	NA	NA
3D5c	Glass Wool Induction	NA	0.073489	NA
3D5d	Mineral Wool Induction	NA	0.138646	NA
3D5e	Printing Industry	NA	2.730638	NA
3D5f	Use of pesticides	NA	1.529458	NA
3D5g	Wood Preservation	NA	0.875657	NA
3D5h	Other non-specified	NA	NA	NA
Agriculture				
CFR	Sector name	CH₄	CO₂	N₂O
4A1a	Enteric fermentation – Dairy Cattle	37.0736	NA	NA
4A1b1	Enteric fermentation – Cows	4.068344	NA	NA
4A1b2	Enteric fermentation - Bulls	6.065924	NA	NA
4A1b3	Enteric fermentation – Heifers	8.052134	NA	NA
4A1b4	Enteric fermentation- Calves	10.92633	NA	NA
4A2	Enteric fermentation -Buffalo	NO	NO	NO
4A3	Enteric fermentation – Sheep	1.083591	NA	NA
4A4	Enteric fermentation – Goats	0.02451	NA	NA
4A5	Enteric fermentation –Camels and Liams	NO	NA	NA
4A6	Enteric fermentation – Horses	1.1754	NA	NA
4A7	Enteric fermentation – Mules and Asses	NO	NO	NO
4A8a	Enteric fermentation – Fattening pigs	0.575182	NA	NA
4A8b	Enteric fermentation – Weaned pigs	0.201117	NA	NA
4A8c	Enteric fermentation – Boars	1.14E-02	NA	NA
4A8d	Enteric fermentation- Sows	0.502366	NA	NA
4A8e	Enteric fermentation - Piglets	5.17E-02	NA	NA
4A9	Enteric fermentation – Poultry	NA	NA	NA
4A10a	Enteric fermentation – Fur farming	0.28982	NA	NA

4A10b	Enteric fermentation - Reindeers	3.907743	NA	NA
4A10c	Enteric fermentation - Ponies	0.1836	NA	NA
4B1a	Manure management – Dairy Cattle	4.337144	NA	NA
4B1b1	Manure management – Cows	0.318072	NA	NA
4B1b2	Manure management - Bulls	0.492732	NA	NA
4B1b3	Manure management – Heifers	0.419716	NA	NA
4B1b4	Manure management - Calves	0.766195	NA	NA
4B2	Manure management -Buffalo	NO	NO	NO
4B3	Manure management – Sheep	0.023993	NA	NA
4B4	Manure management – Goats	0.000571	NA	NA
4B5	Manure management – Camels and Liams	NO	NO	NO
4B6	Manure management – Horses	0.090641	NA	NA
4B7	Manure management – Mules and Asses	NO	NO	NO
4B8a	Manure management – Fattening pigs	2.239423	NA	NA
4B8b	Manure management – Weaned pigs	1.55556	NA	NA
4B8c	Manure management – Boars	0.007453	NA	NA
4B8d	Manure management - Sows	0.325824	NA	NA
4B8e	Manure management - Piglets	0.894722	NA	NA
4B9	Manure management – Poultry	0.227828	NA	NA
4B10a	Manure management – Fur farming	0.385563	NA	NA
4B10b	Manure management - Reindeers	0.022858	NA	NA
4B10c	Manure management - Ponies	0.014158	NA	NA
4B11	Manure management - Anaerobic Lagoons	NO	NO	NO

4B12	Manure management - Liquid Systems	NA	NA	5.91E-02
4B13	Manure management - Solid Storage and Dry Lot	NA	NA	1.054332
4B14	Manure management - Other AWMS	NA	NA	0.23409
4D	Agricultural soils	NA	NA	11.50192203
4F	Field burning of agricultural residues	1.88E-02	NA	3.72E-04
Waste				
CFR	Sector name	CH₄	CO₂	N₂O
6A1	Managed Waste Disposal on Land	51.90788	NA	NA
6A2	Unmanaged Waste Disposal Sites	NA	NA	NA
6A3a	Construction and Demolition Waste	12.13952	NA	NA
6A3b	Industrial Sludge (d.m.)	5.293467	NA	NA
6A3c	Industrial Solid Waste	14.25504	NA	NA
6A3d	Municipal Sludge (d.m.)	0.630457	NA	NA
6A3e	Other non-specified	NA	NA	NA
6B1	Industrial Wastewater	0.760505	NA	NA
6B2	Domestic and Commercial Wastewater	4.797079	NA	0.244841
6B3a	N input from Fish Farming	NA	NA	9.44E-03
6B3b	N input from Industrial Wastewater	NA	NA	5.67E-02
6B3c	Other non-specified	NA	NA	NA
6C1	Biogenic	NA	NA	NA
6C2	Other (non-biogenic - please specify)	NA	NA	NA
6D1	Compost production	3.073872	NA	0.209836
6D2	Other non-specified	NA	NA	NA

NON-POINT SOURCE EMISSIONS BY CFR CATEGORIES IN FINLAND IN 2010; Greenhouse gas Emissions (CH₄, CO₂, N₂O) (kt)

Energy production				
CFR	Sector name	CH₄	CO₂	N₂O
1A1a	Public Electricity and Heat Production	1.115496	3003.542	NA
1A1b	Petroleum Refining	0.048506	NA	0.034776
1A1c	Manufacture of Solid Fuels and Other Energy Industries	0.002651	236.5868	0.002651
1A2a	Iron and Steel	0.024032	NA	0.027237
1A2b	Non-Ferrous Metals	0.001427	110.9412	0.00161
1A2c	Chemicals	0.014326	299.9526	NA
1A2d	Pulp, Paper and Print	0.296309	439.8445	0.313914
1A2e	Food Processing, Beverages and Tobacco	0.007843	237.9684	0.010637
1A2f	Other (please specify)	NA	897.0152	NA
1A4a	Commercial/Institutional	0.319551	1066.697	0.035304
1A4b	Residential	12.15798	1751.333	0.167304
1A4c	Agriculture/Forestry/Fisheries	0.593834	1515.072	0.056962
1A5a	Stationary (please specify)	0.18025	1231.658	0.830528
1B1	Solid Fuels	NA	NA	NA
1B2a	Oil	0.488174	1.3475	NA
1B2b	Natural Gas	1.447288	3.980043	NA
1B2c	Venting and Flaring	0.001027	98.35827	0.002055
1B2d	Other	NA	33.82133	NA
Transport				
CFR	Sector name	CH₄	CO₂	N₂O
1A3a	Civil Aviation	0.00932	235.7618	0.01035
1A3b	Road Transportation	1.303606	11669.97	0.52906
1A3c	Railways	0.00505	95.07648	0.00254
1A3d	Navigation	0.16967	563.7147	0.01402
1A3e	Other Transportation	0.304158	633.9661	0.01455
1A5b	Mobile (please specify)	0.00975	227.1844	0.009469
Industrial processes				
CFR	Sector name	CH₄	CO₂	N₂O
2A1	Cement Production	NA	410.8256	NA

2A2	Lime Production	NA	411.7229	NA
2A3	Limestone and Dolomite Use	NA	265.3515	NA
2A4	Soda Ash Production and Use	NA	17.02869	NA
2A5	Asphalt Roofing	NA	NA	NA
2A6	Road Paving with Asphalt	NA	1.896451	NA
2A7a	Glass Production	NA	1.574794	NA
2A7b	Other non-specified	NA	NA	NA
2B1	Ammonia Production	NA	NA	NA
2B2	Nitric Acid Production	NA	NA	0.53736
2B3	Adipic Acid Production	NA	NA	NA
2B4	Carbide Production	NA	NA	NA
2B5a	Carbon Black	NA	NA	NA
2B5b	Ethylene	NA	NA	NA
2B5c	Dichloroethylene	NA	NA	NA
2B5d	Styrene	NA	NA	NA
2B5e	Methanol	NA	NA	NA
2B5f	Chemicals production	NA	7.7789	NA
2B5g	Hydrogen	NA	709.8814	NA
2B5h	Refineries	NA	NA	NA
2B5i	Phosphoric Acid Production	NA	40.08927	NA
2B5j	Other non-specified	NA	NA	NA
2C1	Iron and Steel Production	0.413845	2407.96	NA
2C2	Ferroalloys Production	NA	NA	NA
2C3	Aluminium Production	NA	NA	NA
2C5a	Non-ferrous metals	NA	0.267954	NA
2C5b	Other non-specified	NA	NA	NA
2D1	Pulp and Paper	NA	NA	NA
2D2	Food and Drink	NA	NA	NA
2G	Other (please specify)	NA	NA	NA

Product use

CFR	Sector name	CH ₄	CO ₂	N ₂ O
3A	Paint Application	NA	22.70319	NA
3B	Degreasing and Dry Cleaning	NA	0.875583	NA
3C	Chemical Products	NA	6.328124	NA
3D1	Use of N2O for Anaesthesia	NA	NA	0.089998
3D2	Fire Extinguishers	NA	NA	NA

3D3	N2O from Aerosol Cans	NA	NA	NA
3D4	Other Use of N2O	NA	NA	NA
3D5a	Domestic solvent use	NA	10.1684	NA
3D5b	Fat edible and non-edible oil extraction	NA	NA	NA
3D5c	Glass Wool Induction	NA	0.076129	NA
3D5d	Mineral Wool Induction	NA	0.126337	NA
3D5e	Printing Industry	NA	2.982344	NA
3D5f	Use of pesticides	NA	1.304547	NA
3D5g	Wood Preservation	NA	0.764152	NA
3D5h	Other non-specified	NA	NA	NA
Agriculture				
CFR	Sector name	CH₄	CO₂	N₂O
4A1a	Enteric fermentation – Dairy Cattle	37.61024	NA	NA
4A1b1	Enteric fermentation – Cows	3.916836	NA	NA
4A1b2	Enteric fermentation - Bulls	6.300102	NA	NA
4A1b3	Enteric fermentation – Heifers	8.132291	NA	NA
4A1b4	Enteric fermentation- Calves	11.07125	NA	NA
4A2	Enteric fermentation -Buffalo	NO	NO	NO
4A3	Enteric fermentation – Sheep	1.0549	NA	NA
4A4	Enteric fermentation – Goats	0.02445	NA	NA
4A5	Enteric fermentation –Camels and Liams	NO	NA	NA
4A6	Enteric fermentation – Horses	1.1628	NA	NA
4A7	Enteric fermentation – Mules and Asses	NO	NO	NO
4A8a	Enteric fermentation – Fattening pigs	0.598995	NA	NA
4A8b	Enteric fermentation – Weaned pigs	0.195624	NA	NA
4A8c	Enteric fermentation – Boars	1.09E-02	NA	NA
4A8d	Enteric fermentation- Sows	0.526355	NA	NA
4A8e	Enteric fermentation - Piglets	5.40E-02	NA	NA
4A9	Enteric fermentation – Poultry	NA	NA	NA
4A10a	Enteric fermentation – Fur farming	0.347425	NA	NA

4A10b	Enteric fermentation - Reindeers	3.853635	NA	NA
4A10c	Enteric fermentation - Ponies	0.1746	NA	NA
4B1a	Manure management – Dairy Cattle	4.399923	NA	NA
4B1b1	Manure management – Cows	0.306227	NA	NA
4B1b2	Manure management - Bulls	0.511754	NA	NA
4B1b3	Manure management – Heifers	0.423894	NA	NA
4B1b4	Manure management - Calves	0.776358	NA	NA
4B2	Manure management -Buffalo	NO	NO	NO
4B3	Manure management – Sheep	0.023357	NA	NA
4B4	Manure management – Goats	0.000569	NA	NA
4B5	Manure management – Camels and Liams	NO	NO	NO
4B6	Manure management – Horses	0.089669	NA	NA
4B7	Manure management – Mules and Asses	NO	NO	NO
4B8a	Manure management – Fattening pigs	2.321596	NA	NA
4B8b	Manure management – Weaned pigs	1.504809	NA	NA
4B8c	Manure management – Boars	0.007124	NA	NA
4B8d	Manure management - Sows	0.343751	NA	NA
4B8e	Manure management - Piglets	0.934704	NA	NA
4B9	Manure management – Poultry	0.213386	NA	NA
4B10a	Manure management – Fur farming	0.462197	NA	NA
4B10b	Manure management - Reindeers	0.022542	NA	NA
4B10c	Manure management - Ponies	0.013464	NA	NA
4B11	Manure management - Anaerobic Lagoons	NO	NO	NO

4B12	Manure management - Liquid Systems	NA	NA	6.00E-02
4B13	Manure management - Solid Storage and Dry Lot	NA	NA	1.094403
4B14	Manure management - Other AWMS	NA	NA	0.220632
4D	Agricultural soils	NA	NA	11.74518046
4F	Field burning of agricultural residues	1.53E-02	NA	3.02E-04
Waste				
CFR	Sector name	CH₄	CO₂	N₂O
6A1	Managed Waste Disposal on Land	54.19541	NA	NA
6A2	Unmanaged Waste Disposal Sites	NA	NA	NA
6A3a	Construction and Demolition Waste	12.5351	NA	NA
6A3b	Industrial Sludge (d.m.)	5.709251	NA	NA
6A3c	Industrial Solid Waste	14.59964	NA	NA
6A3d	Municipal Sludge (d.m.)	0.718966	NA	NA
6A3e	Other non-specified	NA	NA	NA
6B1	Industrial Wastewater	0.961481	NA	NA
6B2	Domestic and Commercial Wastewater	4.735282	NA	0.241891
6B3a	N input from Fish Farming	NA	NA	9.14E-03
6B3b	N input from Industrial Wastewater	NA	NA	6.39E-02
6B3c	Other non-specified	NA	NA	NA
6C1	Biogenic	NA	NA	NA
6C2	Other (non-biogenic - please specify)	NA	NA	NA
6D1	Compost production	2.991679	NA	0.201674
6D2	Other non-specified	NA	NA	NA

NON-POINT SOURCE EMISSIONS BY CFR CATEGORIES IN FINLAND IN 2009; Greenhouse gas Emissions (CH₄, CO₂, N₂O) (kt)

Energy production				
CFR	Sector name	CH₄	CO₂	N₂O
1A1a	Public Electricity and Heat Production	0.960174	3763.1	NA
1A1b	Petroleum Refining	0.051366	NA	0.037589
1A1c	Manufacture of Solid Fuels and Other Energy Industries	0.002264	187.607	0.002264
1A2a	Iron and Steel	0.019419	NA	0.022125
1A2b	Non-Ferrous Metals	0.001161	89.72722	0.001291
1A2c	Chemicals	0.01335	263.4307	NA
1A2d	Pulp, Paper and Print	0.093693	632.0858	0.281615
1A2e	Food Processing, Beverages and Tobacco	0.007303	245.4078	0.010351
1A2f	Other (please specify)	NA	780.0554	NA
1A4a	Commercial/Institutional	0.287429	965.4191	0.031854
1A4b	Residential	10.94599	1609.578	0.15101
1A4c	Agriculture/Forestry/Fisheries	0.518799	1478.909	0.053405
1A5a	Stationary (please specify)	0.14385	1181.292	0.77132
1B1	Solid Fuels	NA	NA	NA
1B2a	Oil	0.521567	1.43	NA
1B2b	Natural Gas	1.713107	4.711043	NA
1B2c	Venting and Flaring	0.000795	76.91449	0.0016
1B2d	Other	NA	30.57974	NA
Transport				
CFR	Sector name	CH₄	CO₂	N₂O
1A3a	Civil Aviation	0.01002	256.3747	0.01125
1A3b	Road Transportation	1.364527	11237.96	0.518603
1A3c	Railways	0.00486	91.7792	0.00245
1A3d	Navigation	0.15632	508.2204	0.01255
1A3e	Other Transportation	0.302962	594.8507	0.01365
1A5b	Mobile (please specify)	0.00828	194.6332	0.008017
Industrial processes				
CFR	Sector name	CH₄	CO₂	N₂O
2A1	Cement Production	NA	214.8357	NA

2A2	Lime Production	NA	381.7326	NA
2A3	Limestone and Dolomite Use	NA	146.7348	NA
2A4	Soda Ash Production and Use	NA	15.8398	NA
2A5	Asphalt Roofing	NA	NA	NA
2A6	Road Paving with Asphalt	NA	2.140986	NA
2A7a	Glass Production	NA	9.385841	NA
2A7b	Other non-specified	NA	NA	NA
2B1	Ammonia Production	NA	NA	NA
2B2	Nitric Acid Production	NA	NA	2.55802
2B3	Adipic Acid Production	NA	NA	NA
2B4	Carbide Production	NA	NA	NA
2B5a	Carbon Black	NA	NA	NA
2B5b	Ethylene	NA	NA	NA
2B5c	Dichloroethylene	NA	NA	NA
2B5d	Styrene	NA	NA	NA
2B5e	Methanol	NA	NA	NA
2B5f	Chemicals production	NA	7.516778	NA
2B5g	Hydrogen	NA	679.678	NA
2B5h	Refineries	NA	NA	NA
2B5i	Phosphoric Acid Production	NA	34.82675	NA
2B5j	Other non-specified	NA	NA	NA
2C1	Iron and Steel Production	0.370144	1945.03	NA
2C2	Ferroalloys Production	NA	NA	NA
2C3	Aluminium Production	NA	NA	NA
2C5a	Non-ferrous metals	NA	0.186513	NA
2C5b	Other non-specified	NA	NA	NA
2D1	Pulp and Paper	NA	NA	NA
2D2	Food and Drink	NA	NA	NA
2G	Other (please specify)	NA	NA	NA

Product use

CFR	Sector name	CH ₄	CO ₂	N ₂ O
3A	Paint Application	NA	25.15057	NA
3B	Degreasing and Dry Cleaning	NA	1.313	NA
3C	Chemical Products	NA	5.260081	NA
3D1	Use of N2O for Anaesthesia	NA	NA	0.079945
3D2	Fire Extinguishers	NA	NA	NA

3D3	N2O from Aerosol Cans	NA	NA	NA
3D4	Other Use of N2O	NA	NA	NA
3D5a	Domestic solvent use	NA	10.168	NA
3D5b	Fat edible and non-edible oil extraction	NA	NA	NA
3D5c	Glass Wool Induction	NA	0.080608	NA
3D5d	Mineral Wool Induction	NA	0.12201	NA
3D5e	Printing Industry	NA	2.916802	NA
3D5f	Use of pesticides	NA	1.144598	NA
3D5g	Wood Preservation	NA	1.048828	NA
3D5h	Other non-specified	NA	NA	NA
Agriculture				
CFR	Sector name	CH₄	CO₂	N₂O
4A1a	Enteric fermentation – Dairy Cattle	37.2339	NA	NA
4A1b1	Enteric fermentation – Cows	3.590445	NA	NA
4A1b2	Enteric fermentation - Bulls	5.935613	NA	NA
4A1b3	Enteric fermentation – Heifers	7.930987	NA	NA
4A1b4	Enteric fermentation- Calves	10.90174	NA	NA
4A2	Enteric fermentation -Buffalo	NO	NO	NO
4A3	Enteric fermentation – Sheep	0.987748	NA	NA
4A4	Enteric fermentation – Goats	0.02962	NA	NA
4A5	Enteric fermentation –Camels and Liams	NO	NA	NA
4A6	Enteric fermentation – Horses	1.134	NA	NA
4A7	Enteric fermentation – Mules and Asses	NO	NO	NO
4A8a	Enteric fermentation – Fattening pigs	0.597896	NA	NA
4A8b	Enteric fermentation – Weaned pigs	0.206647	NA	NA
4A8c	Enteric fermentation – Boars	1.10E-02	NA	NA
4A8d	Enteric fermentation- Sows	0.530478	NA	NA
4A8e	Enteric fermentation - Piglets	5.14E-02	NA	NA
4A9	Enteric fermentation – Poultry	NA	NA	NA
4A10a	Enteric fermentation – Fur farming	0.344323	NA	NA

4A10b	Enteric fermentation - Reindeers	3.839048	NA	NA
4A10c	Enteric fermentation - Ponies	0.1674	NA	NA
4B1a	Manure management – Dairy Cattle	4.355897	NA	NA
4B1b1	Manure management – Cows	0.280709	NA	NA
4B1b2	Manure management - Bulls	0.482147	NA	NA
4B1b3	Manure management – Heifers	0.413401	NA	NA
4B1b4	Manure management - Calves	0.764471	NA	NA
4B2	Manure management -Buffalo	NO	NO	NO
4B3	Manure management – Sheep	0.02187	NA	NA
4B4	Manure management – Goats	0.00069	NA	NA
4B5	Manure management – Camels and Liams	NO	NO	NO
4B6	Manure management – Horses	0.087448	NA	NA
4B7	Manure management – Mules and Asses	NO	NO	NO
4B8a	Manure management – Fattening pigs	2.341115	NA	NA
4B8b	Manure management – Weaned pigs	1.604189	NA	NA
4B8c	Manure management – Boars	0.007261	NA	NA
4B8d	Manure management - Sows	0.349063	NA	NA
4B8e	Manure management - Piglets	0.904808	NA	NA
4B9	Manure management – Poultry	0.208548	NA	NA
4B10a	Manure management – Fur farming	0.458071	NA	NA
4B10b	Manure management - Reindeers	0.022457	NA	NA
4B10c	Manure management - Ponies	0.012909	NA	NA
4B11	Manure management - Anaerobic Lagoons	NO	NO	NO

4B12	Manure management - Liquid Systems	NA	NA	5.93E-02
4B13	Manure management - Solid Storage and Dry Lot	NA	NA	1.078754
4B14	Manure management - Other AWMS	NA	NA	0.218819
4D	Agricultural soils	NA	NA	11.23206785
4F	Field burning of agricultural residues	2.17E-02	NA	4.29E-04
Waste				
CFR	Sector name	CH₄	CO₂	N₂O
6A1	Managed Waste Disposal on Land	53.8661	NA	NA
6A2	Unmanaged Waste Disposal Sites	NA	NA	NA
6A3a	Construction and Demolition Waste	12.21758	NA	NA
6A3b	Industrial Sludge (d.m.)	6.146113	NA	NA
6A3c	Industrial Solid Waste	15.04583	NA	NA
6A3d	Municipal Sludge (d.m.)	0.778422	NA	NA
6A3e	Other non-specified	NA	NA	NA
6B1	Industrial Wastewater	0.884389	NA	NA
6B2	Domestic and Commercial Wastewater	4.799144	NA	0.236093
6B3a	N input from Fish Farming	NA	NA	1.03E-02
6B3b	N input from Industrial Wastewater	NA	NA	5.45E-02
6B3c	Other non-specified	NA	NA	NA
6C1	Biogenic	NA	NA	NA
6C2	Other (non-biogenic - please specify)	NA	NA	NA
6D1	Compost production	2.980772	NA	0.20032
6D2	Other non-specified	NA	NA	NA

NON-POINT SOURCE EMISSIONS BY CFR CATEGORIES IN FINLAND IN 2008; Greenhouse gas Emissions (CH₄, CO₂, N₂O) (kt)

Energy production				
CFR	Sector name	CH₄	CO₂	N₂O
1A1a	Public Electricity and Heat Production	1.013896	20777.51	0.523385
1A1b	Petroleum Refining	0.049476	2765.38	0.036204
1A1c	Manufacture of Solid Fuels and Other Energy Industries	0.003212	334.4746	0.003212
1A2a	Iron and Steel	0.024603	3259.323	0.028089
1A2b	Non-Ferrous Metals	0.00134	104.8721	0.001531
1A2c	Chemicals	0.01848	938.0263	NA
1A2d	Pulp, Paper and Print	0.319657	3853.596	0.320812
1A2e	Food Processing, Beverages and Tobacco	0.00533	158.7206	0.008336
1A2f	Other (please specify)	NA	2266.998	7.44E-03
1A4a	Commercial/Institutional	0.261862	884.8774	0.028722
1A4b	Residential	10.38938	1610.483	0.144909
1A4c	Agriculture/Forestry/Fisheries	0.480142	1543.937	0.053516
1A5a	Stationary (please specify)	0.150535	1214.568	0.839961
1B1	Solid Fuels	NA	NA	NA
1B2a	Oil	0.526103	1.4575	NA
1B2b	Natural Gas	1.812826	4.985272	NA
1B2c	Venting and Flaring	0.001107	99.56289	0.002213
1B2d	Other	NA	33.27805	NA
Transport				
CFR	Sector name	CH₄	CO₂	N₂O
1A3a	Civil Aviation	0.01076	276.7105	0.01214
1A3b	Road Transportation	1.414251	11781.94	0.519728
1A3c	Railways	0.00614	114.735	0.00308
1A3d	Navigation	0.15451	488.0535	0.01198
1A3e	Other Transportation	0.321169	701.9547	0.015985
1A5b	Mobile (please specify)	0.00819	198.3541	0.008073
Industrial processes				
CFR	Sector name	CH₄	CO₂	N₂O
2A1	Cement Production	NA	638.2984	NA

2A2	Lime Production	NA	462.6114	NA
2A3	Limestone and Dolomite Use	NA	161.3498	NA
2A4	Soda Ash Production and Use	NA	19.78598	NA
2A5	Asphalt Roofing	NA	NA	NA
2A6	Road Paving with Asphalt	NA	2.463969	NA
2A7a	Glass Production	NA	18.81181	NA
2A7b	Other non-specified	NA	NA	NA
2B1	Ammonia Production	NA	NA	NA
2B2	Nitric Acid Production	NA	NA	5.092224
2B3	Adipic Acid Production	NA	NA	NA
2B4	Carbide Production	NA	NA	NA
2B5a	Carbon Black	NA	NA	NA
2B5b	Ethylene	NA	NA	NA
2B5c	Dichloroethylene	NA	NA	NA
2B5d	Styrene	NA	NA	NA
2B5e	Methanol	NA	NA	NA
2B5f	Chemicals production	NA	8.465499	NA
2B5g	Hydrogen	NA	643.2243	NA
2B5h	Refineries	NA	NA	NA
2B5i	Phosphoric Acid Production	NA	48.54085	NA
2B5j	Other non-specified	NA	NA	NA
2C1	Iron and Steel Production	0.430214	2523.302	NA
2C2	Ferroalloys Production	NA	NA	NA
2C3	Aluminium Production	NA	NA	NA
2C5a	Non-ferrous metals	NA	0.298683	NA
2C5b	Other non-specified	NA	NA	NA
2D1	Pulp and Paper	NA	NA	NA
2D2	Food and Drink	NA	NA	NA
2G	Other (please specify)	NA	NA	NA

Product use

CFR	Sector name	CH ₄	CO ₂	N ₂ O
3A	Paint Application	NA	27.50231	NA
3B	Degreasing and Dry Cleaning	NA	1.401114	NA
3C	Chemical Products	NA	6.224769	NA
3D1	Use of N2O for Anaesthesia	NA	NA	0.110035
3D2	Fire Extinguishers	NA	NA	NA

3D3	N2O from Aerosol Cans	NA	NA	NA
3D4	Other Use of N2O	NA	NA	NA
3D5a	Domestic solvent use	NA	10.1684	NA
3D5b	Fat edible and non-edible oil extraction	NA	NA	NA
3D5c	Glass Wool Induction	NA	0.23956	NA
3D5d	Mineral Wool Induction	NA	0.141199	NA
3D5e	Printing Industry	NA	3.895043	NA
3D5f	Use of pesticides	NA	1.208381	NA
3D5g	Wood Preservation	NA	1.314232	NA
3D5h	Other non-specified	NA	NA	NA

Agriculture

CFR	Sector name	CH ₄	CO ₂	N ₂ O
4A1a	Enteric fermentation – Dairy Cattle	36.80906	NA	NA
4A1b1	Enteric fermentation – Cows	3.333885	NA	NA
4A1b2	Enteric fermentation - Bulls	5.863967	NA	NA
4A1b3	Enteric fermentation – Heifers	7.975745	NA	NA
4A1b4	Enteric fermentation- Calves	10.82931	NA	NA
4A2	Enteric fermentation -Buffalo	NO	NO	NO
4A3	Enteric fermentation – Sheep	1.025899	NA	NA
4A4	Enteric fermentation – Goats	0.02959	NA	NA
4A5	Enteric fermentation –Camels and Liams	NO	NA	NA
4A6	Enteric fermentation – Horses	1.0899	NA	NA
4A7	Enteric fermentation – Mules and Asses	NO	NO	NO
4A8a	Enteric fermentation – Fattening pigs	0.611499	NA	NA
4A8b	Enteric fermentation – Weaned pigs	0.218371	NA	NA
4A8c	Enteric fermentation – Boars	1.34E-02	NA	NA
4A8d	Enteric fermentation- Sows	0.58887	NA	NA
4A8e	Enteric fermentation - Piglets	5.86E-02	NA	NA
4A9	Enteric fermentation – Poultry	NA	NA	NA
4A10a	Enteric fermentation – Fur farming	0.269974	NA	NA

4A10b	Enteric fermentation - Reindeers	3.888759	NA	NA
4A10c	Enteric fermentation - Ponies	0.1584	NA	NA
4B1a	Manure management – Dairy Cattle	4.306196	NA	NA
4B1b1	Manure management – Cows	0.26065	NA	NA
4B1b2	Manure management - Bulls	0.476327	NA	NA
4B1b3	Manure management – Heifers	0.415734	NA	NA
4B1b4	Manure management - Calves	0.759392	NA	NA
4B2	Manure management -Buffalo	NO	NO	NO
4B3	Manure management – Sheep	0.022715	NA	NA
4B4	Manure management – Goats	0.000689	NA	NA
4B5	Manure management – Camels and Liams	NO	NO	NO
4B6	Manure management – Horses	0.084047	NA	NA
4B7	Manure management – Mules and Asses	NO	NO	NO
4B8a	Manure management – Fattening pigs	2.400419	NA	NA
4B8b	Manure management – Weaned pigs	1.685953	NA	NA
4B8c	Manure management – Boars	0.008864	NA	NA
4B8d	Manure management - Sows	0.38506	NA	NA
4B8e	Manure management - Piglets	1.031428	NA	NA
4B9	Manure management – Poultry	0.234194	NA	NA
4B10a	Manure management – Fur farming	0.35916	NA	NA
4B10b	Manure management - Reindeers	0.022747	NA	NA
4B10c	Manure management - Ponies	0.012215	NA	NA
4B11	Manure management - Anaerobic Lagoons	NO	NO	NO

4B12	Manure management - Liquid Systems	NA	NA	5.92E-02
4B13	Manure management - Solid Storage and Dry Lot	NA	NA	1.012093
4B14	Manure management - Other AWMS	NA	NA	0.234095
4D	Agricultural soils	NA	NA	11.78036642
4F	Field burning of agricultural residues	2.16E-02	NA	4.28E-04
Waste				
CFR	Sector name	CH₄	CO₂	N₂O
6A1	Managed Waste Disposal on Land	55.76277	NA	NA
6A2	Unmanaged Waste Disposal Sites	NA	NA	NA
6A3a	Construction and Demolition Waste	12.53398	NA	NA
6A3b	Industrial Sludge (d.m.)	6.889468	NA	NA
6A3c	Industrial Solid Waste	15.36352	NA	NA
6A3d	Municipal Sludge (d.m.)	0.877021	NA	NA
6A3e	Other non-specified	NA	NA	NA
6B1	Industrial Wastewater	1.144192	NA	NA
6B2	Domestic and Commercial Wastewater	4.908774	NA	0.25898
6B3a	N input from Fish Farming	NA	NA	0.01089
6B3b	N input from Industrial Wastewater	NA	NA	6.23E-02
6B3c	Other non-specified	NA	NA	NA
6C1	Biogenic	NA	NA	NA
6C2	Other (non-biogenic - please specify)	NA	NA	NA
6D1	Compost production	3.205973	NA	0.212579
6D2	Other non-specified	NA	NA	NA

NON-POINT SOURCE EMISSIONS BY CFR CATEGORIES IN FINLAND IN 2007; Greenhouse gas Emissions (CH₄, CO₂, N₂O) (kt)

Energy production				
CFR	Sector name	CH₄	CO₂	N₂O
1A1a	Public Electricity and Heat Production	1.040649	27356.41	0.347934
1A1b	Petroleum Refining	0.049031	2778.432	0.043595
1A1c	Manufacture of Solid Fuels and Other Energy Industries	0.003231	352.0643	0.003231
1A2a	Iron and Steel	0.024449	3414.735	0.028271
1A2b	Non-Ferrous Metals	0.001321	102.9031	0.00169
1A2c	Chemicals	0.017391	936.8889	NA
1A2d	Pulp, Paper and Print	0.071581	4321.991	0.345761
1A2e	Food Processing, Beverages and Tobacco	0.007587	187.5033	0.009655
1A2f	Other (please specify)	NA	2280.408	0.010602
1A4a	Commercial/Institutional	0.278428	1053.611	0.033036
1A4b	Residential	9.89358	1923.983	0.148244
1A4c	Agriculture/Forestry/Fisheries	0.486503	1562.484	0.053885
1A5a	Stationary (please specify)	0.144524	1188.589	0.911278
1B1	Solid Fuels	NA	NA	NA
1B2a	Oil	0.506148	1.391907	NA
1B2b	Natural Gas	1.903554	5.234772	NA
1B2c	Venting and Flaring	0.001085	87.35157	0.002169
1B2d	Other	NA	37.09435	NA
Transport				
CFR	Sector name	CH₄	CO₂	N₂O
1A3a	Civil Aviation	0.01075	281.8172	0.0125
1A3b	Road Transportation	1.542313	12321.46	0.536554
1A3c	Railways	0.00574	108.1552	0.00291
1A3d	Navigation	0.24294	582.4139	0.01306
1A3e	Other Transportation	0.32112	720.6526	0.015927
1A5b	Mobile (please specify)	0.00795	195.2866	0.007956
Industrial processes				
CFR	Sector name	CH₄	CO₂	N₂O
2A1	Cement Production	NA	599.5654	NA

2A2	Lime Production	NA	516.4137	NA
2A3	Limestone and Dolomite Use	NA	194.4963	NA
2A4	Soda Ash Production and Use	NA	20.27371	NA
2A5	Asphalt Roofing	NA	NA	NA
2A6	Road Paving with Asphalt	NA	2.776685	NA
2A7a	Glass Production	NA	22.2467	NA
2A7b	Other non-specified	NA	NA	NA
2B1	Ammonia Production	NA	NA	NA
2B2	Nitric Acid Production	NA	NA	4.770299
2B3	Adipic Acid Production	NA	NA	NA
2B4	Carbide Production	NA	NA	NA
2B5a	Carbon Black	NA	NA	NA
2B5b	Ethylene	NA	NA	NA
2B5c	Dichloroethylene	NA	NA	NA
2B5d	Styrene	NA	NA	NA
2B5e	Methanol	NA	NA	NA
2B5f	Chemicals production	NA	6.887467	NA
2B5g	Hydrogen	NA	512.6092	NA
2B5h	Refineries	NA	NA	NA
2B5i	Phosphoric Acid Production	NA	46.61671	NA
2B5j	Other non-specified	NA	NA	NA
2C1	Iron and Steel Production	0.432503	2459.944	NA
2C2	Ferroalloys Production	NA	NA	NA
2C3	Aluminium Production	NA	NA	NA
2C5a	Non-ferrous metals	NA	0.210027	NA
2C5b	Other non-specified	NA	NA	NA
2D1	Pulp and Paper	NA	NA	NA
2D2	Food and Drink	NA	NA	NA
2G	Other (please specify)	NA	NA	NA

Product use

CFR	Sector name	CH ₄	CO ₂	N ₂ O
3A	Paint Application	NA	31.693	NA
3B	Degreasing and Dry Cleaning	NA	1.279	NA
3C	Chemical Products	NA	8.089	NA
3D1	Use of N2O for Anaesthesia	NA	NA	0.117479
3D2	Fire Extinguishers	NA	NA	NA

3D3	N2O from Aerosol Cans	NA	NA	NA
3D4	Other Use of N2O	NA	NA	NA
3D5a	Domestic solvent use	NA	10.168	NA
3D5b	Fat edible and non-edible oil extraction	NA	NA	NA
3D5c	Glass Wool Induction	NA	0.275	NA
3D5d	Mineral Wool Induction	NA	0.174	NA
3D5e	Printing Industry	NA	6.24	NA
3D5f	Use of pesticides	NA	1.148	NA
3D5g	Wood Preservation	NA	1.296008	NA
3D5h	Other non-specified	NA	NA	NA
Agriculture				
CFR	Sector name	CH₄	CO₂	N₂O
4A1a	Enteric fermentation – Dairy Cattle	37.59462	NA	NA
4A1b1	Enteric fermentation – Cows	2.963008	NA	NA
4A1b2	Enteric fermentation - Bulls	5.921583	NA	NA
4A1b3	Enteric fermentation – Heifers	7.989475	NA	NA
4A1b4	Enteric fermentation- Calves	10.97874	NA	NA
4A2	Enteric fermentation -Buffalo	NO	NO	NO
4A3	Enteric fermentation – Sheep	1.001002	NA	NA
4A4	Enteric fermentation – Goats	0.030905	NA	NA
4A5	Enteric fermentation –Camels and Liams	NO	NA	NA
4A6	Enteric fermentation – Horses	1.071	NA	NA
4A7	Enteric fermentation – Mules and Asses	NO	NO	NO
4A8a	Enteric fermentation – Fattening pigs	0.602395	NA	NA
4A8b	Enteric fermentation – Weaned pigs	0.213809	NA	NA
4A8c	Enteric fermentation – Boars	1.43E-02	NA	NA
4A8d	Enteric fermentation- Sows	0.610205	NA	NA
4A8e	Enteric fermentation - Piglets	5.61E-02	NA	NA
4A9	Enteric fermentation – Poultry	NA	NA	NA
4A10a	Enteric fermentation – Fur farming	0.348082	NA	NA

4A10b	Enteric fermentation - Reindeers	3.847506	NA	NA
4A10c	Enteric fermentation - Ponies	0.153	NA	NA
4B1a	Manure management – Dairy Cattle	4.398096	NA	NA
4B1b1	Manure management – Cows	0.231655	NA	NA
4B1b2	Manure management - Bulls	0.481007	NA	NA
4B1b3	Manure management – Heifers	0.41645	NA	NA
4B1b4	Manure management - Calves	0.76987	NA	NA
4B2	Manure management -Buffalo	NO	NO	NO
4B3	Manure management – Sheep	0.022164	NA	NA
4B4	Manure management – Goats	0.00072	NA	NA
4B5	Manure management – Camels and Liams	NO	NO	NO
4B6	Manure management – Horses	0.08259	NA	NA
4B7	Manure management – Mules and Asses	NO	NO	NO
4B8a	Manure management – Fattening pigs	2.364023	NA	NA
4B8b	Manure management – Weaned pigs	1.641718	NA	NA
4B8c	Manure management – Boars	0.009303	NA	NA
4B8d	Manure management - Sows	0.398685	NA	NA
4B8e	Manure management - Piglets	0.976763	NA	NA
4B9	Manure management – Poultry	0.217932	NA	NA
4B10a	Manure management – Fur farming	0.463071	NA	NA
4B10b	Manure management - Reindeers	0.022506	NA	NA
4B10c	Manure management - Ponies	0.011799	NA	NA
4B11	Manure management - Anaerobic Lagoons	NO	NO	NO

4B12	Manure management - Liquid Systems	NA	NA	5.93E-02
4B13	Manure management - Solid Storage and Dry Lot	NA	NA	1.055009
4B14	Manure management - Other AWMS	NA	NA	0.217577
4D	Agricultural soils	NA	NA	11.41843015
4F	Field burning of agricultural residues	0.030167	NA	0.000597
Waste				
CFR	Sector name	CH₄	CO₂	N₂O
6A1	Managed Waste Disposal on Land	58.14745	NA	NA
6A2	Unmanaged Waste Disposal Sites	NA	NA	NA
6A3a	Construction and Demolition Waste	13.05041	NA	NA
6A3b	Industrial Sludge (d.m.)	7.806814	NA	NA
6A3c	Industrial Solid Waste	15.76348	NA	NA
6A3d	Municipal Sludge (d.m.)	1.01097	NA	NA
6A3e	Other non-specified	NA	NA	NA
6B1	Industrial Wastewater	1.282102	NA	NA
6B2	Domestic and Commercial Wastewater	4.857958	NA	0.24706
6B3a	N input from Fish Farming	NA	NA	1.11E-02
6B3b	N input from Industrial Wastewater	NA	NA	6.38E-02
6B3c	Other non-specified	NA	NA	NA
6C1	Biogenic	NA	NA	NA
6C2	Other (non-biogenic - please specify)	NA	NA	NA
6D1	Compost production	3.268716	NA	0.216578
6D2	Other non-specified	NA	NA	NA