

CORRESPONDENCE BETWEEN IPCC SOURCE CATEGORIES AND SNAP 94

This document provides the corresponding allocation of IPCC source categories into SNAP 94 items.

All codes used in this document refer to :

- CORINAIR / SNAP 94 version 1.1 dated 14/06/96
- IPCC / Guidelines for National Greenhouse Gas Inventories / Reporting Instructions (Volume 1) dated 1995 and recommendations from the IPCC Phase II expert group on combustion.

Users are invited to check whether CORINAIR or IPCC categories are modified.

1 ENERGY

1 A FUEL COMBUSTION ACTIVITIES

IPCC classification	CORINAIR / SNAP classification	
1 A 1 Energy and Transformation Industries		
1 A 1 a Electricity and Heat production	01 01	Public power (01.01.01 to 01.01.05)
	01 02	District heating plants (01.02.01 to 01.02.05)
	01 03 (a)	Petroleum refining plants (01.03.01 to 01.03.06)
	01 04 (a)	Solid fuel transformation plants (01.04.01 to 01.04.07)
	01 05 (a)	Coal mining, oil / gas extraction, pipeline compressors (01.05.01 to 01.05.05)
	02 01 (a)	Commercial and institutional plants (02.01.01 to 02.01.06)
	02 02 (a)	Residential plants (02.02.01 to 02.02.05)
	02 03 (a)	Plants in agriculture, forestry and aquaculture (02.03.01 to 02.03.05)
	03 01 (a)	Manuf. indus. combust. in boilers, gas turbines and stationary engines (03.01.01 to 03.01.06)
1 A 1 b Petroleum refining	01 03	Petroleum refining plants (01.03.01 to 01.03.06)
1 A 1 c Solid fuel Transformation and Other Energy Industries	01 04	Solid fuel transformation plants (01.04.01 to 01.04.07)
	01 05	Coal mining, oil / gas extraction, pipeline compressors (01.05.01 to 01.05.05)

(a) Partly in 1 A 1 a with regard to autoproduction which is allocated within CORINAIR considering relevant data for autoproduction of energy at national level in the CORINAIR/NAD module. No longer to be considered if recommendations from the IPCC Phase II expert group on combustion are confirmed.

1 A 2 Industry		
1 A 2 a Iron and Steel	03 01 (b)	Manuf. indus. combust. in boilers, gas turbines and stationary engines (03.01.01 to 03.01.06)
	03 02 03	Blast furnace cowpers
	03 03 01	Sinter plants
	03 03 02	Reheating furnaces steel and iron
	03 03 03	Gray iron foundries
1 A 2 b Non-ferrous Metals	03 01 (b)	Manuf. indus. combust. in boilers, gas turbines and stationary engines (03.01.01 to 03.01.06)
	03 03 04 to 03 03 09	Primary and secondary Pb/Zn/Cu production
	03 03 10	Secondary Al production
	03 03 22 to 03 03 24	Alumina, Magnesium and Nickel production
1 A 2 c Chemicals	03 01 (b)	Manuf. indus. combust. in boilers, gas turbines and stationary engines (03.01.01 to 03.01.06)
1 A 2 d Pulp, Paper and Print	03 01 (b)	Manuf. indus. combust. in boilers, gas turbines and stationary engines (03.01.01 to 03.01.06)
	03 03 21	Paper-mill industry (drying processes)

IPCC classification	CORINAIR / SNAP classification	
1 A 2 e Food Processing, Beverages and Tobacco	03 01 (b)	Manuf. indus. combust. in boilers, gas turbines and stationary engines (03.01.01 to 03.01.06)
1 A 2 f Other	03 01 (b)	Manuf. indus. combust. in boilers, gas turbines and stationary engines (03.01.01 to 03.01.06)
	03 02 04	Plaster furnaces
	03 02 05	Other furnaces
	03 03 11 to 03 03 20	Cement, Lime, Asphalt concrete, Glass, Mineral wool, Bricks and Tiles, Fine Ceramic materials
	03 03 25	Enamel production
	03 03 26	Other process with contact
	08 08	Other mobile and machinery/Industry

(b) When relevant economic sector split data are available in CORINAIR/NAD module, data can be allocated to sub-categories a to f. Autoproduction is allocated in 1 A 1 (cf note a)

1 A 3 Transport		
1 A 3 a Civil Aviation i International ii Domestic	08 05 02	Internat. airport traffic (LTO cycles - <1000 m)
	08 05 04	International cruise traffic (>1000 m)
	08 05 01	Domestic airport traffic (LTO cycles - <1000 m)
	08 05 03	National cruise traffic (>1000 m)
	1 A 3 b Road Transportation	07 01
07 02		Light duty vehicles < 3.5 t (07.02.01 to 07.02.03)
07 03		Heavy duty vehicles > 3.5 t and buses (07.03.01 to 07.03.03)
07 04		Mopeds and Motorcycles < 50 cm ³
07 05		Motorcycles > 50 cm ³ (07.05.01 to 07.05.03)
07 06		Gasoline evaporation
07 07		Automobile tyre and brake wear
08 02		Railways (08.02.01 to 08.02.03)
1 A 3 d Navigation i International Marine ii Internal navigation	08 04 04	International sea traffic (internat. bunkers)
	08 04 02	National sea traffic within EMEP area
	08 03 01 to 08 03 04	Inland waterways
1 A 3 e Other Transportation	08 10	Other mobile sources and machinery
	01 05 06	Pipeline compressors
1 A 4 Small Combustion		
1 A 4 a Commercial / Institutional	02 01	Commercial and institutional plants (02.01.01 to 02.01.06)
1 A 4 b Residential	02 02	Residential plants (02.02.01 to 02.02.05)
	08 09	Household and gardening
1 A 4 c Agriculture / Forestry / Fishing	02 03	Plants in agriculture, forestry and aquaculture (02.03.01 to 02.03.05)
	08 04 03	National fishing
	08 06	Agriculture
	08 07	Forestry
1 A 5 Other		
1 A 5 a Stationary		
1 A 5 b Off-road and Other Machinery	08 01	Military
1 A 6 Traditional Biomass burned for Energy	With regard to recommendations from IPCC Phase II expert group, this item should be no longer considered.	

1 B FUGITIVE EMISSIONS FROM FUELS

IPCC classification	CORINAIR / SNAP classification	
1 B 1 Solid fuels		
1 B 1 a Coal Mining	05 01	Extraction and 1st treatment of solid fossil fuels (05.01.01 to 05.01.03)
1 B 1 b Solid fuel transformation	04.02.01	Coke oven (door leakage and extinction)
	04 02 04	Solid smokeless fuel
1 B 1 c Other		
1 B 2 Oil and natural gas		
1 B 2 a Oil	04 01	Processes in petroleum industries (04.01.01 to 04.01.05)
	05 02	Extraction, 1st treatment and loading of liquid fossil fuels (05.02.01 to 05.02.02)
	05 04	Liquid fuel distribution (except gasoline distribution) (05.04.01 to 05.04.02)
	05 05	Gasoline distribution (05.05.01 to 05.05.03)
1 B 2 b Natural gas	05 03	Extraction, 1st treat. and loading of gaseous fossil fuels (05.03.01 to 05.03.03)
	05 06	Gas distribution networks (05.06.01 to 05.06.02)
1 B 2 c Venting and flaring	09.02.03	Flaring in oil refinery
	09.02.06	Flaring in oil and gas extraction

2 INDUSTRIAL PROCESSES**2 A IRON AND STEEL**

	04 02 02	Blast furnace charging
	04 02 03	Pig iron tapping
	04 02 05 to 04 02 10	Furnace steel plant, Rolling mills, Sinter plants (except combustion), Other
	04 03 02 and 04 03 07	Ferro alloys and galvanizing

2 B NON-FERROUS METALS

2 B 1 Aluminium production	04 03 01	Aluminium production (electrolysis)
2 B 2 Other	04 03 03 to 04 03 05	Silicium, Magnesium, Nickel production
	04 03 06	Allied metal manufacturing
	04 03 08	Electroplating
	04 03 09	Other processes in non-ferrous industries

2 C INORGANIC CHEMICALS

2 C 1 Nitric Acid production	04 04 02	Nitric acid
2 C 2 Fertiliser production	04 04 04 to 04 04 06	Ammonium sulphate / nitrate / phosphate
	04 04 07 and 04 04 08	NPK fertikisers, Urea
	04 04 14	Phosphate fertilisers
2 C 3 Other	04 04 01	Sulfuric acid
	04 04 03	Ammonia
	04 04 09 to 04 04 11	Carbon black, Titanium dioxide, Graphite
	04 04 12	Calcium carbide production
	04 04 15	Storage and handling of inorganic products
	04 04 16	Other process in inorganic chemical indust.

2 D ORGANIC CHEMICALS

2 D 1 Adipic acid	04 05 21	Adipic acid
2 D 2 Other	04 05	Processes in organic chemical industry except adipic acid (04.05.01 to 04.05.20 and 04.05.22 to 04.05.27)

2 E NON-METALLIC MINERAL PRODUCTS

IPCC classification	CORINAIR / SNAP classification	
2 E 1 Cement	04 06 12	Cement (decarbonizing)
2 E 2 Lime	04 06 14	Lime (decarbonizing)
2 E 3 Other	04 06 13	Glass (decarbonizing)
	04 06 16	Extraction of mineral ores

2 F OTHER

	04 06 01	Chipboard
	04 06 02 to 04 06 04	Paper pulp
	04 06 05 to 04 06 08	Bread, Wine, Beer
	04 06 10	Roof covering with asphalt materials
	04 06 11	Road paving with asphalt
	04 06 15	Batteries manufacturing
	04 06 17	Other (including amiante production)
	04 07	Cooling plants

3 SOLVENT AND OTHER PRODUCT USE**3 A PAINT APPLICATION**

	06 01	Paint application (06.01.01 to 06.01.09)
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3 B DEGREASING AND DRY CLEANING

	06 02	Degreasing, dry cleaning and electronics (06.02.01 to 06.02.04)
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3 C CHEMICAL PRODUCTS, MANUFACTURE AND PROCESSING

	06 03	Chemical products manufacturing or processing (06.03.01 to 06.03.14)
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3 D OTHER

	06 04	Other use of solvents and related activities (06.04.01 to 06.04.12)
	06 05	Use of N2O (06.05.01 to 06.05.02)

4 AGRICULTURE**4 A ENTERIC FERMENTATION**

4 A 1 Cattle		
4 A 1 a Dairy	10 04 01	Dairy cows
4 A 1 b Non-Dairy	10 04 02	Other cattle
4 A 2 Buffalo	10 04 14	Buffalos
4 A 3 Sheep	10 04 03	Ovines
4 A 4 Goats	10 04 07	Goats
4 A 5 Camels and Llamas	10 04 13	Camels
4 A 6 Horses	10 04 05	Horses
4 A 7 Mules and Asses	10 04 06	Mules and asses
4 A 8 Swine	10 04 04 and 10 04 12	Fattening pigs, Sows
4 A 9 Poultry	10 04 08 to 10 04 10	Laying hens, Broilers, Other poultry
4 A 10 Other	10 04 11 and 10 04 15	Fur animals, Other animals

4 B MANURE MANAGEMENT

IPCC classification	CORINAIR / SNAP classification	
4 B 1 Cattle		
4 B 1 a Dairy	10 05 01	Dairy cows
4 B 1 b Non-Dairy	10 05 02	Other cattle
4 B 2 Buffalo	10 05 14	Buffalos
4 B 3 Sheep	10 05 05	Sheep
4 B 4 Goats	10 05 11	Goats
4 B 5 Camels and Llamas	10 05 13	Camels
4 B 6 Horses	10 05 06	Horses
4 B 7 Mules and Asses	10 05 12	Mules and asses
4 B 8 Swine	10 05 03 and 10 05 04	Fattening pigs, Sows
4 B 9 Poultry	10 05 07 to 10 05 09	Laying hens, Broilers, Other poultry
4 B 10 Other	10 05 10 and 10 05 15	Fur animals, Other animals

4 C RICE CULTIVATION

4 C 1 Continuously flooded	10 01 03 and 10 02 03 (Rice field with/without fertilisers)	
4 C 2 Intermittently flooded	(c)	
4 C 3 Other	(c)	

(c) Low emissions are expected for European countries and deals mainly with continuously flooded process.

4 D AGRICULTURAL SOILS

	10 01 except 10 01 03	Cultures with fertilizers (except animal manure) (10 01 01, 10 01 02 and 10 01 04 to 10 01 06)
	10 02 except 10 02 03	Cultures without fertilizers (10 02 01, 10 02 02 and 10 02 04 to 10 02 06)

4 E PRESCRIBED BURNING OF SAVANNAS

	Not relevant for Europe	
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4 F FIELD BURNING OF AGRICULTURAL WASTES

	10 03	On-field burning of stubble, straw,...
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4 G OTHER

	10 06	Use of pesticides
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5 LAND USE CHANGE AND FORESTRY**5 A CHANGES IN FOREST AND OTHER WOODY BIOMASS STOCKS**

	10 11	Land Use and Wood stock Change - Wood biomass stock change / annual growth (10.11.01 to 10.11.09)
	10 12	Land Use and Wood stock Change - Wood biomass stock change / annual harvest change / annual harvest (10.12.01 to 10.12.03)

5 B FOREST AND GRASSLAND CONVERSION

	10 13	Land Use Change - Conversion / Burning aboveground biomass (10.13.01 to 10.13.10)
	10 14	Land Use Change - Conversion / Aboveground biomass decay (10.14.01 to 10.14.05)
	10 15	Land Use Change - Conversion / Soil carbon release (10.15.01 to 10.15.05)

5 C ABANDONMENT OF MANAGED LANDS

IPCC classification	CORINAIR / SNAP classification	
	10 16	Land Use and Wood stock Change - Managed land abandonment < 20 years / Aboveground biomass carbon uptake (10.16.01 to 10.16.05)
	10 17	Land Use and Wood stock Change - Managed land abandonment < 20 years / Soil carbon uptake (10.17.01 to 10.17.05)
	10 18	Land Use and Wood stock Change - Managed land abandonment > 20 years / Aboveground biomass carbon uptake (10.18.01 to 10.18.05)
	10 19	Land Use and Wood stock Change - Managed land abandonment > 20 years / Soil carbon uptake (10.19.01 to 10.19.05)

5 D OTHER

	10 07	Managed deciduous forests (10.07.01 to 10.07.03)
	10 08	Managed coniferous forests

6 WASTE**6 A SOLID WASTE DISPOSAL ON LAND**

6 A 1	Landfills	09 10 04	Land filling
6 A 2	Open dumps		
6 A 3	Other		

6 B WASTEWATER TREATMENT

6 B 1	Industrial Wastewater	09 10 01	Waste water treatment in industry
6 B 2	Domestic and Commercial Waste	09 10 02	Waste water treatment in residential and commercial sectors
		09 10 07	Latrines
6 B 3	Other		

6 C WASTE INCINERATION

	09 02 01 and 09 02 02	Incineration of municipal/industrial wastes
	09 02 04	Flaring in chemical industry
	09 02 05	Incineration of sludges from wastewater
	09 02 07	Incineration of hospital wastes
	09 02 08	Incineration of waste oil
	09 07	Open burning of agricultural wastes (not on field)
	09 09	Cremation (09.09.01 to 09.09.02)
	09 10 08	Refuse Derived Fuel production

6 D OTHER WASTE

	09 10 03	Sludge spreading
	09 10 05	Compost production from waste
	09 10 06	Biogas production

7 OTHER

	05 07	Geothermal energy extraction
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