

CORINAIR 1996 - SUMMARY BY ACTIVITY FOR FOUR COUNTRIES

This section presents a summary of emissions for the year 1996 for four countries - Austria, Denmark, France and the Netherlands - at SNAP97 level 2.

The tables provide:

- emissions of the SNAP97 level 2 activity as percentage (%) of the national total, as an average of the four countries;
- emissions of the SNAP97 level 2 activity for each of the four countries.

SNAP level 2 in percentage (%) of National Totals 1996

Austria, Denmark, France, Netherlands

sector	name	SO ₂	NO _x	NM VOC	CH ₄	CO	CO ₂	N ₂ O	NH ₃
	1 Combustion in energy and transformation industries	43.2	12.4	0.2	0.1	0.4	24.0	1.0	0.0
	101 Public power	26.0	9.6	0.1	0.0	0.2	18.6	0.7	0.0
	102 District heating plants	3.4	0.8	0.0	0.0	0.1	2.0	0.1	0.0
	103 Petroleum refining plants	12.2	1.2	0.0	0.0	0.0	3.8	0.2	0.0
	104 Solid fuel transformation plants	1.2	0.3	0.0	0.0	0.0	0.7	0.0	0.0
	105 Coal mining, oil/gas extraction, pipeline compressors	0.4	0.5	0.0	0.0	0.0	0.4	0.0	0.0
	2 Non-industrial combustion plants	9.0	6.8	8.2	3.6	23.3	24.8	1.3	0.1
	201 Commercial and institutional plants	3.0	2.2	0.2	0.1	1.5	7.2	0.4	0.0
	202 Residential plants	5.3	4.1	7.8	3.4	21.6	15.6	1.0	0.1
	203 Plants in agriculture, forestry and aquaculture	0.7	0.6	0.2	0.1	0.3	2.0	0.0	0.0
	3 Combustion in manufacturing industry	24.4	9.0	0.6	0.3	5.9	19.1	1.2	0.0
	301 Comb. manu. ind.- comb. in boiler/gas turb./station. engine	17.2	5.7	0.4	0.2	1.1	14.7	0.6	0.0
	302 Comb. manu. ind.- process furnaces without contact	0.1	0.2	0.0	0.0	0.0	1.0	0.0	0.0
	303 Comb. manu. ind.- processes with contact	7.0	3.2	0.2	0.1	4.8	3.4	0.5	0.0
	4 Production processes	8.7	2.0	5.6	0.2	9.4	7.6	27.9	2.8
	401 Processes in petroleum industries	5.0	0.4	1.0	0.0	0.0	1.0	0.0	0.0
	402 Processes in iron and steel industries and collieries	1.0	0.5	0.2	0.0	8.0	2.0	0.0	0.0
	403 Processes in non-ferrous metal industries	0.6	0.0	0.0	0.0	0.8	0.2	0.0	0.0
	404 Processes in inorganic chemical industries	1.6	0.7	0.8	0.1	0.3	1.2	10.5	2.7
	405 Processes in organic chemical industries (bulk production)	0.1	0.0	1.1	0.1	0.1	0.1	17.4	0.1
	406 Processes in wood, paper pulp, food, drink and other industries	0.5	0.3	2.4	0.0	0.2	3.1	0.0	0.1
	408 Production of halocarbons and sulphur hexafluoride	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

5 Extraction and distribution of fossil fuels / geothermal energy	1.2	0.0	4.1	8.7	0.4	0.1	0.0	0.0
501 Extraction and 1st treatment of solid fossil fuels	0.0	0.0	0.0	3.0	0.4	0.0	0.0	0.0
502 Extraction, 1st treat. and loading of liquid fossil fuels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
503 Extraction, 1st treat. and loading of gaseous fossil fuels	1.2	0.0	0.3	2.0	0.0	0.1	0.0	0.0
504 Liquid fuel distribution (except gasoline distrib. in 0505)	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
505 Gasoline distribution	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
506 Gas distribution networks	0.0	0.0	0.4	3.6	0.0	0.0	0.0	0.0
507 Geothermal energy extraction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Solvent and other product use	0.0	0.0	25.0	0.0	0.0	0.3	0.8	0.1
601 Paint application	0.0	0.0	9.3	0.0	0.0	0.1	0.0	0.0
602 Degreasing, dry cleaning and electronics	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
603 Chemicals products manufacturing or processing	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0
604 Other use of solvents and related activities	0.0	0.0	11.0	0.0	0.0	0.2	0.0	0.1
605 Use of HFC, N2O, NH3, PFC and SF6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
7 Road transport	9.0	47.9	33.5	0.5	52.3	26.3	4.1	0.9
701 Passenger cars	4.3	26.4	15.5	0.4	41.4	15.4	2.9	0.9
702 Light duty vehicles < 3.5 t	1.9	4.8	2.1	0.0	5.4	4.4	0.4	0.0
703 Heavy duty vehicles > 3.5 t and buses	2.7	16.6	1.9	0.1	1.1	6.1	0.7	0.0
704 Mopeds and motorcycles < 50 cm3	0.0	0.0	2.9	0.0	1.5	0.1	0.0	0.0
705 Motorcycles > 50 cm3	0.1	0.1	1.7	0.0	2.8	0.2	0.0	0.0
706 Gasoline evaporation from vehicles	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0
707 Automobile tyre and brake wear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8 Other mobile sources and machinery	3.1	19.8	5.0	0.0	4.9	4.0	0.4	0.0
801 Other mobile & mach.- military	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
802 Other mobile & mach.- railways	0.1	0.6	0.1	0.0	0.0	0.2	0.0	0.0
803 Other mobile & mach.- inland waterways	0.2	1.4	0.2	0.0	0.1	0.3	0.1	0.0
804 Other mobile & mach.- maritime activities	1.7	3.2	0.6	0.0	0.1	0.7	0.1	0.0
805 Other mobile & mach.- air traffic	0.1	0.4	0.8	0.0	0.5	1.0	0.0	0.0
806 Other mobile & mach.- agriculture	0.7	9.3	2.3	0.0	2.8	1.3	0.1	0.0
807 Other mobile & mach.- forestry	0.0	0.4	0.1	0.0	0.1	0.1	0.0	0.0
808 Other mobile & mach.- industry	0.2	3.9	0.4	0.0	0.6	0.4	0.0	0.0
809 Other mobile & mach.- household and gardening	0.0	0.0	0.3	0.0	0.4	0.0	0.0	0.0
810 Other mobile & mach.- other off-road	0.1	0.5	0.1	0.0	0.1	0.1	0.0	0.0
9 Waste treatment and disposal	1.3	1.0	1.0	24.7	2.3	1.4	1.0	0.3
902 Waste incineration	1.3	0.9	0.2	0.2	0.2	1.0	0.3	0.0
904 Solid waste disposal on land	0.0	0.0	0.2	23.2	0.0	0.0	0.0	0.0
907 Open burning of agricultural wastes (except on field 1003)	0.0	0.1	0.2	0.1	2.1	0.0	0.0	0.0
909 Cremation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
910 Other waste treatment	0.0	0.0	0.4	1.2	0.0	0.3	0.6	0.3
10 Agriculture	0.0	0.8	0.7	47.3	0.2	0.0	51.9	95.1
1001 Cultures with fertilizers (except animal manure)	0.0	0.8	0.7	1.9	0.2	0.0	47.9	15.6

1002 Cultures without fertilizers	0.0	0.0	0.0	0.2	0.0	0.0	1.3	0.0
1003 On-field burning of stubble, straw, ...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1004 Enteric fermentation	0.0	0.0	0.0	36.7	0.0	0.0	0.0	0.0
1005 Manure management regarding organic compounds	0.0	0.0	0.0	8.5	0.0	0.0	0.2	79.5
1006 Use of pesticides and limestone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1009 Manure management regarding nitrogen compounds	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0
11 Other sources and sinks	0.0	0.2	16.1	14.6	1.0	-7.6	10.4	0.6
1101 Non-managed broadleaf forests	0.0	0.0	0.5	0.2	0.0	0.0	0.2	0.0
1102 Non-managed coniferous forests	0.0	0.0	1.2	0.8	0.0	0.0	0.3	0.0
1103 Forest and other vegetation fires	0.0	0.1	0.1	0.1	0.5	0.0	0.0	0.0
1104 Natural grassland and other vegetation	0.0	0.0	0.4	0.4	0.1	0.0	2.2	0.0
1105 Wetlands (marshes-swamps)	0.0	0.0	0.0	4.7	0.0	0.0	0.1	0.0
1106 Waters	0.0	0.0	0.0	2.1	0.0	0.0	2.3	0.0
1107 Animals	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6
1108 Volcanoes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1109 Gas seeps	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0
1110 Lightning	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1111 Managed broadleaf forests	0.0	0.0	8.8	1.3	0.0	0.0	3.0	0.0
1112 Managed coniferous forests	0.0	0.0	5.1	2.7	0.0	0.0	2.2	0.0
1121 Changes in forest and other woody biomass stocks	0.0	0.0	0.0	0.0	0.0	-8.5	0.0	0.0
1122 Forest and grassland conversion	0.0	0.0	0.0	0.1	0.4	0.9	0.0	0.0
1123 Abandonment of managed lands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1124 CO2 emissions from/or removals into soils (except 1006)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1125 Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Comparable National Total (excluding all emissions from sector 11 and for NMVOC and CO2 also emissions from sector 10)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

AUSTRIA**CORINAIR EMISSIONS 1996**

sector	name	EMISSION ESTIMATES (Kilotonnes; for CO2: Megatonnes)							
		SO2	NOx	NM VOC	CH4	CO	CO2	N2O	NH3
0	National Total	51,903	162,862	425,159	630,551	1,021,197	50,273	10,791	76,975
1	Combustion in energy and transformation industries	8,358	9,809	196	104	1,154	12,179	125	181
101	Public power	4,454	5,872	92	47	540	9,155	67	100
102	District heating plants	3,904	3,922	104	57	612	3,003	57	80
103	Petroleum refining plants	0	0	0	0	0	0	0	0
104	Solid fuel transformation plants	0	0	0	0	0	0	0	0
105	Coal mining, oil/gas extraction, pipeline compressors	0	15	0	1	2	21	0	0
2	Non-industrial combustion plants	16,193	20,220	41,430	14,034	433,444	14,148	604	911
201	Commercial and institutional plants	4,123	8,472	3,867	1,287	137,269	3,682	208	362
202	Residential plants	12,066	11,747	37,557	12,744	296,090	10,466	396	549
203	Plants in agriculture, forestry and aquaculture	4	1	7	2	85	0	0	0
3	Combustion in manufacturing industry	9,417	15,020	525	298	5,503	7,755	171	303
301	Comb. manu. ind.- comb. in boiler/gas turb./station. engine	6,249	9,093	334	165	3,332	3,377	139	211
302	Comb. manu. ind.- process furnaces without contact	1,350	1,844	85	58	428	1,634	8	34
303	Comb. manu. ind.- processes with contact	1,817	4,083	106	74	1,742	2,744	24	57
4	Production processes	13,471	19,362	22,506	114	264,000	13,528	547	205
401	Processes in petroleum industries	3,488	3,479	1,500	0	435	2,590	0	0
402	Processes in iron and steel industries and collieries	4,485	4,367	317	9	232,290	7,393	0	0
403	Processes in non-ferrous metal industries	406	17	219	0	342	339	0	0
404	Processes in inorganic chemical industries	3,188	4,400	0	64	11,064	430	547	205
405	Processes in organic chemical industries (bulk production)	0	0	12,337	0	0	0	0	0
406	Processes in wood, paper pulp, food, drink and other industries	1,905	7,099	8,132	41	19,868	2,777	0	0
408	Production of halocarbons and sulphur hexafluoride	0	0	0	0	0	0	0	0
5	Extraction and distribution of fossil fuels / geothermal energy	1,200	0	4,041	5,570	0	95	0	0
501	Extraction and 1st treatment of solid fossil fuels	0	0	0	8	0	0	0	0
502	Extraction, 1st treat. and loading of liquid fossil fuels	0	0	0	0	0	0	0	0
503	Extraction, 1st treat. and loading of gaseous fossil fuels	1,200	0	0	0	0	71	0	0
504	Liquid fuel distribution (except gasoline distrib. in 0505)	0	0	0	0	0	0	0	0
505	Gasoline distribution	0	0	3,884	0	0	0	0	0
506	Gas distribution networks	0	0	157	5,562	0	24	0	0
507	Geothermal energy extraction	0	0	0	0	0	0	0	0

6 Solvent and other product use	0	0	133,737	0	0	417	750	2
601 Paint application	0	0	15,162	0	0	47	0	0
602 Degreasing, dry cleaning and electronics	0	0	0	0	0	0	0	0
603 Chemicals products manufacturing or processing	0	0	17,513	0	0	55	0	0
604 Other use of solvents and related activities	0	0	101,062	0	0	315	0	0
605 Use of HFC, N2O, NH3, PFC and SF6	0	0	0	0	0	0	750	2
7 Road transport	2,765	84,066	52,270	2,152	303,849	15,059	1,792	2,412
701 Passenger cars	1,078	31,909	24,236	1,640	262,257	9,123	1,547	2,318
702 Light duty vehicles < 3.5 t	382	6,132	1,592	54	14,089	1,451	74	29
703 Heavy duty vehicles > 3.5 t and buses	1,299	45,784	6,397	159	12,494	4,385	170	46
704 Mopeds and motorcycles < 50 cm3	2	13	2,408	228	4,711	30	0	17
705 Motorcycles > 50 cm3	4	228	1,356	71	10,298	69	1	3
706 Gasoline evaporation from vehicles	0	0	16,280	0	0	0	0	0
707 Automobile tyre and brake wear	0	0	0	0	0	0	0	0
8 Other mobile sources and machinery	444	7,059	2,893	142	7,325	727	34	36
801 Other mobile & mach.- military	11	427	107	4	560	41	2	1
802 Other mobile & mach.- railways	82	1,503	310	29	1,043	149	6	2
803 Other mobile & mach.- inland waterways	13	453	736	52	1,297	49	2	2
804 Other mobile & mach.- maritime activities	0	0	0	0	0	0	0	0
805 Other mobile & mach.- air traffic	224	677	507	1	1,995	100	10	25
806 Other mobile & mach.- agriculture	91	3,182	571	14	1,113	304	12	4
807 Other mobile & mach.- forestry	23	814	164	5	444	78	3	1
808 Other mobile & mach.- industry	0	0	0	0	0	0	0	0
809 Other mobile & mach.- household and gardening	0	2	497	37	873	5	0	1
810 Other mobile & mach.- other off-road	0	0	0	0	0	0	0	0
9 Waste treatment and disposal	52	157	668	218,182	4,422	119	13	54
902 Waste incineration	45	138	205	64	77	116	8	2
904 Solid waste disposal on land	0	0	0	183,648	0	0	0	0
907 Open burning of agricultural wastes (except on field 1003)	7	15	463	157	4,340	0	4	52
909 Cremation	0	4	0	0	5	2	0	0
910 Other waste treatment	0	0	0	34,313	0	0	0	0

10 Agriculture	2	6,083	2,343	205,975	1,500	0	3,267	72,337
1001 Cultures with fertilizers (except animal manure)	0	5,782	1,971	26,060	0	0	3,052	4,500
1002 Cultures without fertilizers	0	296	211	8,866	0	0	211	253
1003 On-field burning of stubble, straw, ...	2	5	161	53	1,500	0	4	18
1004 Enteric fermentation	0	0	0	144,186	0	0	0	0
1005 Manure management regarding organic compounds	0	0	0	26,809	0	0	0	67,566
1006 Use of pesticides and limestone	0	0	0	0	0	0	0	0
1009 Manure management regarding nitrogen compounds	0	0	0	0	0	0	0	0
11 Other sources and sinks	0	1,086	164,551	183,980	0	-13,753	3,489	535
1101 Non-managed broadleaf forests	0	50	4,180	3,590	0	0	162	0
1102 Non-managed coniferous forests	0	217	36,835	38,676	0	0	696	0
1103 Forest and other vegetation fires	0	0	0	0	0	0	0	0
1104 Natural grassland and other vegetation	0	0	0	0	0	0	0	0
1105 Wetlands (marshes-swamps)	0	0	0	178	0	0	0	0
1106 Waters	0	0	0	3,996	0	0	0	0
1107 Animals	0	0	0	10,700	0	0	0	535
1108 Volcanoes	0	0	0	0	0	0	0	0
1109 Gas seeps	0	0	0	0	0	0	0	0
1110 Lightning	0	0	0	0	0	0	0	0
1111 Managed broadleaf forests	0	181	15,021	12,902	0	0	581	0
1112 Managed coniferous forests	0	638	108,516	113,939	0	0	2,051	0
1121 Changes in forest and other woody biomass stocks	0	0	0	0	0	-13,753	0	0
1122 Forest and grassland conversion	0	0	0	0	0	0	0	0
1123 Abandonment of managed lands	0	0	0	0	0	0	0	0
1124 CO2 emissions from/or removals into soils (except 1006)	0	0	0	0	0	0	0	0
1125 Other	0	0	0	0	0	0	0	0
Comparable National Total (excluding all emissions from sector 11 and for NMVOC and CO2 also emissions from sector 10)	51,903	161,776	258,265	446,570	1,021,197	64,026	7,302	76,440
other mobile & mach. - dom. airport traffic (LTO cycles<1000m)	12	138	60	1	585	44	1	1
other mobile & mach. - domestic cruise traffic (> 1000 m)	18	87	15	0	57	56	0	2
other mobile & mach. - intern. airport traf. (LTO cycles<1000m)	212	539	448	0	1,410	660	10	24
other mobile & mach. - international cruise traffic (> 1000 m)	255	7,168	538	0	1,096	793	0	29
other mobile & mach. - international sea traffic (in.bunkers)	0	0	0	0	0	0	0	0

DENMARK

CORINAIR EMISSIONS 1996

sector	name	EMISSION ESTIMATES (Kilotonnes; for CO2: Megatonnes)							
		SO2	NOx	NM VOC	CH4	CO	CO2	N2O	NH3
0	National Total	180,010	288,438	136,374	779,369	597,981	78,286	17,021	99,268
1	Combustion in energy and transformation industries	144,868	129,051	1,829	1,615	10,769	48,116	1,431	0
101	Public power	140,943	118,835	1,179	1,134	6,988	43,056	1,300	0
102	District heating plants	2,790	3,982	549	380	3,255	2,725	89	0
103	Petroleum refining plants	1,130	2,483	35	35	312	1,396	26	0
104	Solid fuel transformation plants	0	124	5	5	15	71	1	0
105	Coal mining, oil/gas extraction, pipeline compressors	5	3,628	61	61	198	868	15	0
2	Non-industrial combustion plants	12,062	7,685	11,443	7,514	120,653	9,493	235	0
201	Commercial and institutional plants	1,388	1,488	433	350	5,928	1,702	39	0
202	Residential plants	5,859	4,971	9,156	6,398	107,120	6,905	174	0
203	Plants in agriculture, forestry and aquaculture	4,815	1,226	1,854	767	7,606	886	22	0
3	Combustion in manufacturing industry	11,516	14,066	1,104	587	6,477	6,177	159	0
301	Comb. manu. ind.- comb. in boiler/gas turb./station. engine	11,504	8,427	985	469	5,283	4,861	120	0
302	Comb. manu. ind.- process furnaces without contact	0	0	0	0	0	0	0	0
303	Comb. manu. ind.- processes with contact	12	5,639	119	119	1,194	1,316	40	0
4	Production processes	2,691	504	10,884	202	0	1,388	0	0
401	Processes in petroleum industries	2,614	0	10,824	112	0	0	0	0
402	Processes in iron and steel industries and collieries	0	0	0	0	0	0	0	0
403	Processes in non-ferrous metal industries	0	0	0	0	0	0	0	0
404	Processes in inorganic chemical industries	77	504	0	0	0	0	0	0
405	Processes in organic chemical industries (bulk production)	0	0	0	0	0	0	0	0
406	Processes in wood, paper pulp, food, drink and other industries	0	0	60	90	0	1,388	0	0
408	Production of halocarbons and sulphur hexafluoride	0	0	0	0	0	0	0	0
5	Extraction and distribution of fossil fuels / geothermal energy	0	0	6,875	16,353	43,867	0	0	0
501	Extraction and 1st treatment of solid fossil fuels	0	0	0	6,269	43,867	0	0	0
502	Extraction, 1st treat. and loading of liquid fossil fuels	0	0	0	0	0	0	0	0
503	Extraction, 1st treat. and loading of gaseous fossil fuels	0	0	350	1,633	0	0	0	0
504	Liquid fuel distribution (except gasoline distrib. in 0505)	0	0	0	0	0	0	0	0
505	Gasoline distribution	0	0	3,211	0	0	0	0	0
506	Gas distribution networks	0	0	3,314	8,451	0	0	0	0
507	Geothermal energy extraction	0	0	0	0	0	0	0	0

6 Solvent and other product use	0	0	20,590	0	0	0	0	0
601 Paint application	0	0	7,103	0	0	0	0	0
602 Degreasing, dry cleaning and electronics	0	0	0	0	0	0	0	0
603 Chemicals products manufacturing or processing	0	0	2,020	0	0	0	0	0
604 Other use of solvents and related activities	0	0	11,467	0	0	0	0	0
605 Use of HFC, N2O, NH3, PFC and SF6	0	0	0	0	0	0	0	0
7 Road transport	1,776	79,334	60,925	2,795	354,846	10,142	1,008	1,277
701 Passenger cars	457	44,201	31,395	2,212	307,959	5,699	786	1,257
702 Light duty vehicles < 3.5 t	560	7,758	3,398	182	23,393	1,979	126	9
703 Heavy duty vehicles > 3.5 t and buses	754	27,278	3,269	278	7,926	2,389	95	10
704 Mopeds and motorcycles < 50 cm3	2	12	3,524	40	5,940	32	0	0
705 Motorcycles > 50 cm3	3	85	1,011	84	9,627	43	1	1
706 Gasoline evaporation from vehicles	0	0	18,328	0	0	0	0	0
707 Automobile tyre and brake wear	0	0	0	0	0	0	0	0
8 Other mobile sources and machinery	6,823	55,843	11,924	675	60,120	3,573	168	6
801 Other mobile & mach.- military	68	1,039	148	4	492	53	2	0
802 Other mobile & mach.- railways	95	3,010	308	25	736	301	12	1
803 Other mobile & mach.- inland waterways	8	409	1,831	177	5,103	50	2	0
804 Other mobile & mach.- maritime activities	6,159	22,625	936	30	2,948	1,255	80	0
805 Other mobile & mach.- air traffic	17	1,178	322	16	1,843	235	8	0
806 Other mobile & mach.- agriculture	306	16,678	2,862	75	15,193	993	41	3
807 Other mobile & mach.- forestry	1	8	1,042	104	1,615	7	0	0
808 Other mobile & mach.- industry	165	10,710	2,049	78	6,277	613	22	1
809 Other mobile & mach.- household and gardening	4	186	2,424	166	25,912	64	1	0
810 Other mobile & mach.- other off-road	0	0	0	0	0	0	0	0
9 Waste treatment and disposal	274	1,954	543	74,208	1,250	378	7	0
902 Waste incineration	274	1,954	543	1,008	1,250	378	7	0
904 Solid waste disposal on land	0	0	0	71,599	0	0	0	0
907 Open burning of agricultural wastes (except on field 1003)	0	0	0	0	0	0	0	0
909 Cremation	0	0	0	0	0	0	0	0
910 Other waste treatment	0	0	0	1,600	0	0	0	0

10 Agriculture	0	0	1,311	321,182	0	0	7,892	97,984
1001 Cultures with fertilizers (except animal manure)	0	0	1,303	0	0	0	7,888	22,102
1002 Cultures without fertilizers	0	0	8	0	0	0	3	57
1003 On-field burning of stubble, straw, ...	0	0	0	0	0	0	0	0
1004 Enteric fermentation	0	0	0	153,841	0	0	0	0
1005 Manure management regarding organic compounds	0	0	0	167,341	0	0	0	75,825
1006 Use of pesticides and limestone	0	0	0	0	0	0	0	0
1009 Manure management regarding nitrogen compounds	0	0	0	0	0	0	0	0
11 Other sources and sinks	0	0	8,946	354,237	0	-981	6,121	0
1101 Non-managed broadleaf forests	0	0	0	0	0	0	0	0
1102 Non-managed coniferous forests	0	0	0	0	0	0	0	0
1103 Forest and other vegetation fires	0	0	0	0	0	0	0	0
1104 Natural grassland and other vegetation	0	0	0	0	0	0	0	0
1105 Wetlands (marshes-swamps)	0	0	0	201,899	0	0	267	0
1106 Waters	0	0	0	32,338	0	0	5,208	0
1107 Animals	0	0	0	0	0	0	0	0
1108 Volcanoes	0	0	0	0	0	0	0	0
1109 Gas seeps	0	0	0	120,000	0	0	0	0
1110 Lightning	0	0	0	0	0	0	0	0
1111 Managed broadleaf forests	0	0	1,557	0	0	0	225	0
1112 Managed coniferous forests	0	0	7,388	0	0	0	421	0
1121 Changes in forest and other woody biomass stocks	0	0	0	0	0	-981	0	0
1122 Forest and grassland conversion	0	0	0	0	0	0	0	0
1123 Abandonment of managed lands	0	0	0	0	0	0	0	0
1124 CO2 emissions from/or removals into soils (except 1006)	0	0	0	0	0	0	0	0
1125 Other	0	0	0	0	0	0	0	0
(excluding all emissions from sector 11 and for NMVOC and CO2 also emissions from sector 10)	180,010	288,438	126,117	425,132	597,981	79,267	10,900	99,268
other mobile & mach. - dom. airport traffic (LTO cycles<1000m)	5	341	200	4	1,233	75	2	0
other mobile & mach. - domestic cruise traffic (> 1000 m)	10	487	14	2	82	160	4	0
other mobile & mach. - intern. airport traf. (LTO cycles<1000m)	13	837	122	12	611	198	6	0
other mobile & mach. - international cruise traffic (> 1000 m)	125	8,179	735	78	527	1,954	54	0
other mobile & mach. - international sea traffic (in.bunkers)	70,752	131,907	3,528	111	11,219	4,818	304	0

FRANCE

CORINAIR EMISSIONS 1996

		EMISSION ESTIMATES (Kilotonnes; for CO2: Megatonnes)							
sector	name	SO2	NOx	NM VOC	CH4	CO	CO2	N2O	NH3
0	National Total	926,116	1,705,156	2,485,348	2,754,926	8,238,691	360,173	303,800	807,717
1	Combustion in energy and transformation industries	357,323	126,789	3,508	1,979	15,473	57,600	2,050	0
101	Public power	175,287	82,927	1,416	193	4,746	30,416	1,149	0
102	District heating plants	37,601	11,588	434	267	3,560	6,759	221	0
103	Petroleum refining plants	124,460	17,107	615	607	3,403	14,996	560	0
104	Solid fuel transformation plants	14,760	6,665	146	108	1,803	4,337	73	0
105	Coal mining, oil/gas extraction, pipeline compressors	5,215	8,502	897	804	1,961	1,093	47	0
2	Non-industrial combustion plants	85,997	106,720	215,180	148,419	1,854,044	95,016	4,502	0
201	Commercial and institutional plants	31,929	38,257	1,619	2,617	17,995	31,187	1,170	0
202	Residential plants	49,944	65,293	210,626	143,837	1,818,346	61,749	3,239	0
203	Plants in agriculture, forestry and aquaculture	4,124	3,170	2,935	1,965	17,703	2,080	93	0
3	Combustion in manufacturing industry	263,204	156,189	11,142	8,245	555,617	76,950	4,206	0
301	Comb. manu. ind.- comb. in boiler/gas turb./station. engine	176,489	79,012	4,630	3,690	40,916	53,541	2,157	0
302	Comb. manu. ind.- process furnaces without contact	496	3,318	36	14	418	5,219	53	0
303	Comb. manu. ind.- processes with contact	86,219	73,859	6,476	4,541	514,283	18,190	1,996	0
4	Production processes	72,880	16,788	86,060	4,800	579,135	20,053	81,118	27,773
401	Processes in petroleum industries	49,758	5,322	10,210	309	685	2,972	73	0
402	Processes in iron and steel industries and collieries	410	2,934	3,163	2,031	527,596	2,742	0	0
403	Processes in non-ferrous metal industries	5,564	335	283	0	50,854	502	0	0
404	Processes in inorganic chemical industries	12,844	7,753	23,057	2,460	0	2,443	14,158	27,773
405	Processes in organic chemical industries (bulk production)	0	444	14,732	0	0	0	66,887	0
406	Processes in wood, paper pulp, food, drink and other industries	4,304	0	34,615	0	0	11,395	0	0
408	Production of halocarbons and sulphur hexafluoride	0	0	0	0	0	0	0	0
5	Extraction and distribution of fossil fuels / geothermal energy	13,924	0	100,485	260,527	0	694	0	0
501	Extraction and 1st treatment of solid fossil fuels	0	0	0	158,854	0	0	0	0
502	Extraction, 1st treat. and loading of liquid fossil fuels	0	0	211	0	0	0	0	0
503	Extraction, 1st treat. and loading of gaseous fossil fuels	13,924	0	741	552	0	694	0	0
504	Liquid fuel distribution (except gasoline distrib. in 0505)	0	0	45,210	0	0	0	0	0
505	Gasoline distribution	0	0	51,524	0	0	0	0	0
506	Gas distribution networks	0	0	2,799	101,121	0	0	0	0
507	Geothermal energy extraction	0	0	0	0	0	0	0	0

6 Solvent and other product use	0	0	611,035	0	0	1,904	1,979	420
601 Paint application	0	0	252,866	0	0	788	0	0
602 Degreasing, dry cleaning and electronics	0	0	51,165	0	0	159	0	0
603 Chemicals products manufacturing or processing	0	0	81,240	0	0	253	0	0
604 Other use of solvents and related activities	0	0	225,764	0	0	704	0	0
605 Use of HFC, N2O, NH3, PFC and SF6	0	0	0	0	0	0	1,979	420
7 Road transport	100,321	899,430	894,115	18,483	4,484,604	123,271	7,746	6,562
701 Passenger cars	49,933	521,601	418,475	11,724	3,498,388	71,447	5,654	6,343
702 Light duty vehicles < 3.5 t	21,598	100,951	61,352	1,890	519,989	23,160	1,179	100
703 Heavy duty vehicles > 3.5 t and buses	27,689	274,709	33,802	2,000	73,892	26,758	882	88
704 Mopeds and motorcycles < 50 cm3	438	286	85,745	953	142,908	758	10	10
705 Motorcycles > 50 cm3	663	1,883	47,012	1,916	249,427	1,148	21	21
706 Gasoline evaporation from vehicles	0	0	247,729	0	0	0	0	0
707 Automobile tyre and brake wear	0	0	0	0	0	0	0	0
8 Other mobile sources and machinery	16,101	372,433	142,940	55	422,593	16,961	388	0
801 Other mobile & mach.- military	0	0	0	0	0	0	0	0
802 Other mobile & mach.- railways	795	9,866	1,161	45	2,668	785	26	0
803 Other mobile & mach.- inland waterways	176	2,338	259	10	601	173	6	0
804 Other mobile & mach.- maritime activities	4,003	42,652	19,519	0	578	2,152	72	0
805 Other mobile & mach.- air traffic	736	7,359	26,435	0	47,495	5,349	0	0
806 Other mobile & mach.- agriculture	7,808	208,499	71,176	0	277,588	6,220	207	0
807 Other mobile & mach.- forestry	339	9,514	3,299	0	12,853	271	9	0
808 Other mobile & mach.- industry	2,132	91,681	13,028	0	60,317	1,791	60	0
809 Other mobile & mach.- household and gardening	112	524	8,063	0	20,493	221	8	0
810 Other mobile & mach.- other off-road	0	0	0	0	0	0	0	0
9 Waste treatment and disposal	15,978	23,289	27,939	580,452	231,998	4,168	3,519	3,596
902 Waste incineration	15,978	19,798	1,574	8,362	8,794	2,729	1,296	0
904 Solid waste disposal on land	0	0	5,359	535,941	0	0	0	0
907 Open burning of agricultural wastes (except on field 1003)	0	3,480	7,800	7,800	223,200	0	120	0
909 Cremation	0	11	1	5	4	0	1	0
910 Other waste treatment	0	0	13,205	28,344	0	1,440	2,102	3,596

10 Agriculture	0	0	17,678	1,543,831	0	0	171,865	768,978
1001 Cultures with fertilizers (except animal manure)	0	0	17,678	29,475	0	0	160,518	140,780
1002 Cultures without fertilizers	0	0	0	1,293	0	0	1,293	0
1003 On-field burning of stubble, straw, ...	0	0	0	0	0	0	0	0
1004 Enteric fermentation	0	0	0	1,341,607	0	0	0	0
1005 Manure management regarding organic compounds	0	0	0	171,456	0	0	0	628,198
1006 Use of pesticides and limestone	0	0	0	0	0	0	0	0
1009 Manure management regarding nitrogen compounds	0	0	0	0	0	0	10,054	0
11 Other sources and sinks	388	3,518	375,266	188,135	95,227	-36,444	26,427	388
1101 Non-managed broadleaf forests	0	0	12,998	2,606	0	0	521	0
1102 Non-managed coniferous forests	0	0	2,697	1,501	0	0	300	0
1103 Forest and other vegetation fires	388	1,721	4,526	3,226	49,533	0	57	388
1104 Natural grassland and other vegetation	0	0	14,017	7,135	0	0	7,135	0
1105 Wetlands (marshes-swamps)	0	0	0	56,394	0	0	75	0
1106 Waters	0	0	0	22,803	0	0	453	0
1107 Animals	0	0	0	0	0	0	0	0
1108 Volcanoes	0	0	0	0	0	0	0	0
1109 Gas seeps	0	0	0	0	0	0	0	0
1110 Lightning	0	499	0	0	0	0	0	0
1111 Managed broadleaf forests	0	0	282,421	56,630	0	0	11,326	0
1112 Managed coniferous forests	0	0	58,607	32,618	0	0	6,524	0
1121 Changes in forest and other woody biomass stocks	0	0	0	0	0	-42,390	0	0
1122 Forest and grassland conversion	0	1,298	0	5,222	45,694	5,984	36	0
1123 Abandonment of managed lands	0	0	0	0	0	0	0	0
1124 CO2 emissions from/or removals into soils (except 1006)	0	0	0	0	0	-38	0	0
1125 Other	0	0	0	0	0	0	0	0
Comparable National Total (excluding all emissions from sector 11 and for NMVOC and CO2 also emissions from sector 10)	925,728	1,701,638	2,092,404	2,566,791	8,143,464	396,617	277,373	807,329
other mobile & mach. - dom. airport traffic (LTO cycles<1000m)	494	4,372	19,089	0	35,768	1,557	0	0
other mobile & mach. - domestic cruise traffic (> 1000 m)	1,204	18,241	1,711	0	5,354	3,792	0	0
other mobile & mach. - intern. airport traf. (LTO cycles<1000m)	242	2,987	7,346	0	11,727	763	0	0
other mobile & mach. - international cruise traffic (> 1000 m)	2,950	76,502	3,548	0	10,884	9,292	0	0
other mobile & mach. - international sea traffic (in.bunkers)	130,615	141,504	64,756	0	1,919	7,435	240	0

THE NETHERLANDS

CORINAIR EMISSIONS 1996

sector	name	EMISSION ESTIMATES (Kilotonnes; for CO2: Megatonnes)							
		SO2	NOx	NM VOC	CH4	CO	CO2	N2O	NH3
0	National Total	134,983	502,610	361,938	1,302,267	911,828	181,348	74,253	151,826
1	Combustion in energy and transformation industries	48,408	64,068	1,740	2,183	18,390	43,073	386	3
101	Public power	16,100	48,200	813	1,120	14,000	41,700	332	0
102	District heating plants	1	1,330	36	54	589	873	1	0
103	Petroleum refining plants	32,100	13,400	409	311	1,520	8,990	52	0
104	Solid fuel transformation plants	204	279	17	0	111	106	0	3
105	Coal mining, oil/gas extraction, pipeline compressors	3	859	466	698	2,170	394	1	0
2	Non-industrial combustion plants	2,608	47,500	12,140	24,610	104,740	47,500	112	275
201	Commercial and institutional plants	1,660	10,300	1,000	1,410	3,350	11,500	25	0
202	Residential plants	667	26,900	9,270	20,400	99,800	25,700	70	275
203	Plants in agriculture, forestry and aquaculture	281	10,300	1,870	2,800	1,590	10,300	17	0
3	Combustion in manufacturing industry	31,120	54,910	7,613	5,649	65,280	37,380	132	259
301	Comb. manu. ind.- comb. in boiler/gas turb./station. engine	28,700	53,800	7,250	5,530	64,100	36,600	132	1
302	Comb. manu. ind.- process furnaces without contact	0	0	0	0	0	0	0	0
303	Comb. manu. ind.- processes with contact	2,420	1,110	363	119	1,180	780	0	258
4	Production processes	24,010	15,938	70,768	5,589	167,260	15,771	31,701	3,663
401	Processes in petroleum industries	8,740	1,620	12,600	337	2,110	963	50	8
402	Processes in iron and steel industries and collieries	7,390	6,380	2,960	317	99,800	3,220	0	18
403	Processes in non-ferrous metal industries	2,270	926	287	0	32,700	401	0	4
404	Processes in inorganic chemical industries	4,200	5,980	3,780	966	17,800	5,040	27,800	2,430
405	Processes in organic chemical industries (bulk production)	733	562	10,800	3,360	13,600	607	3,850	613
406	Processes in wood, paper pulp, food, drink and other industries	677	470	40,000	609	1,250	5,540	1	590
408	Production of halocarbons and sulphur hexafluoride	0	0	341	0	0	0	0	0
5	Extraction and distribution of fossil fuels / geothermal energy	2	0	28,008	191,007	1	3	0	0
501	Extraction and 1st treatment of solid fossil fuels	0	0	0	0	0	0	0	0
502	Extraction, 1st treat. and loading of liquid fossil fuels	0	0	176	7	0	0	0	0
503	Extraction, 1st treat. and loading of gaseous fossil fuels	0	0	10,600	107,000	0	0	0	0
504	Liquid fuel distribution (except gasoline distrib. in 0505)	2	0	572	0	1	0	0	0
505	Gasoline distribution	0	0	8,790	0	0	0	0	0
506	Gas distribution networks	0	0	7,870	84,000	0	3	0	0
507	Geothermal energy extraction	0	0	0	0	0	0	0	0

6 Solvent and other product use	0	0	85,710	289	0	0	470	1,046
601 Paint application	0	0	42,900	24	0	0	0	0
602 Degreasing, dry cleaning and electronics	0	0	1,640	0	0	0	0	0
603 Chemicals products manufacturing or processing	0	0	4,130	264	0	0	0	6
604 Other use of solvents and related activities	0	0	35,800	1	0	0	0	1,040
605 Use of HFC, N2O, NH3, PFC and SF6	0	0	1,240	0	0	0	470	0
7 Road transport	11,063	211,268	133,930	5,514	486,000	27,538	6,031	0
701 Passenger cars	4,020	104,000	55,300	3,670	387,000	17,200	3,860	0
702 Light duty vehicles < 3.5 t	1,710	12,900	5,260	256	25,200	2,700	289	0
703 Heavy duty vehicles > 3.5 t and buses	5,290	93,900	20,500	853	28,800	7,340	1,880	0
704 Mopeds and motorcycles < 50 cm3	10	61	6,900	363	12,100	72	0	0
705 Motorcycles > 50 cm3	33	407	7,070	372	32,900	226	2	0
706 Gasoline evaporation from vehicles	0	0	38,900	0	0	0	0	0
707 Automobile tyre and brake wear	0	0	0	0	0	0	0	0
8 Other mobile sources and machinery	16,863	90,544	12,206	570	36,815	5,631	1,161	0
801 Other mobile & mach.- military	0	0	0	0	0	0	0	0
802 Other mobile & mach.- railways	99	1,640	75	3	267	91	20	0
803 Other mobile & mach.- inland waterways	1,960	34,000	3,220	148	9,000	1,830	412	0
804 Other mobile & mach.- maritime activities	12,400	20,600	847	35	2,610	1,040	228	0
805 Other mobile & mach.- air traffic	224	2,700	1,240	113	5,750	694	46	0
806 Other mobile & mach.- agriculture	1,280	18,700	3,600	150	11,200	1,170	259	0
807 Other mobile & mach.- forestry	0	0	0	0	0	0	0	0
808 Other mobile & mach.- industry	0	0	0	0	0	0	0	0
809 Other mobile & mach.- household and gardening	19	4	754	17	258	0	19	0
810 Other mobile & mach.- other off-road	881	12,900	2,470	103	7,730	806	178	0
9 Waste treatment and disposal	908	2,048	6,433	478,186	8,287	4,452	563	200
902 Waste incineration	280	1,640	4,440	599	6,720	3,550	1	1
904 Solid waste disposal on land	22	333	1,030	477,000	1,360	331	74	0
907 Open burning of agricultural wastes (except on field 1003)	0	0	0	0	0	0	0	0
909 Cremation	0	0	0	0	0	0	0	0
910 Other waste treatment	606	75	963	587	207	571	488	199

10 Agriculture	0	15,200	3,060	515,000	17,000	0	27,500	140,460
1001 Cultures with fertilizers (except animal manure)	0	15,200	3,060	50,000	17,000	0	23,100	9,460
1002 Cultures without fertilizers	0	0	0	0	0	0	3,700	0
1003 On-field burning of stubble, straw, ...	0	0	0	0	0	0	0	0
1004 Enteric fermentation	0	0	0	366,000	0	0	0	0
1005 Manure management regarding organic compounds	0	0	0	99,000	0	0	700	131,000
1006 Use of pesticides and limestone	0	0	0	0	0	0	0	0
1009 Manure management regarding nitrogen compounds	0	0	0	0	0	0	0	0
11 Other sources and sinks	0	1,135	330	73,670	8,055	0	6,197	5,920
1101 Non-managed broadleaf forests	0	129	44	2,270	1,100	0	273	0
1102 Non-managed coniferous forests	0	191	0	3,370	1,630	0	404	0
1103 Forest and other vegetation fires	0	0	0	0	0	0	0	0
1104 Natural grassland and other vegetation	0	758	286	13,400	6,470	0	1,600	0
1105 Wetlands (marshes-swamps)	0	57	0	1,000	485	0	120	0
1106 Waters	0	0	0	57,000	0	0	3,800	0
1107 Animals	0	0	0	0	0	0	0	5,920
1108 Volcanoes	0	0	0	0	0	0	0	0
1109 Gas seeps	0	0	0	0	0	0	0	0
1110 Lightning	0	0	0	0	0	0	0	0
1111 Managed broadleaf forests	0	0	0	0	0	0	0	0
1112 Managed coniferous forests	0	0	0	0	0	0	0	0
1121 Changes in forest and other woody biomass stocks	0	0	0	0	0	0	0	0
1122 Forest and grassland conversion	0	0	0	0	0	0	0	0
1123 Abandonment of managed lands	0	0	0	0	0	0	0	0
1124 CO2 emissions from/or removals into soils (except 1006)	0	0	0	0	0	0	0	0
1125 Other	0	0	0	0	0	0	0	0
Comparable National Total (excluding all emissions from sector 11 and for NMVOC and CO2 also emissions from sector 10)	134,983	501,475	358,548	1,228,597	903,773	181,348	68,056	145,906
other mobile & mach. - dom. airport traffic (LTO cycles<1000m)	0	0	0	0	0	0	0	0
other mobile & mach. - domestic cruise traffic (> 1000 m)	0	0	0	0	0	0	0	0
other mobile & mach. - intern. airport traf. (LTO cycles<1000m)	0	0	0	0	0	0	0	0
other mobile & mach. - international cruise traffic (> 1000 m)	0	0	0	0	0	0	0	0
other mobile & mach. - international sea traffic (in.bunkers)	0	0	0	0	0	0	0	0

