

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	96	3.7	0.470	0.635	0.270	0.083
Deposition to the country						
Total deposition to the country, t	196	31.45	4.21	1.48	1.36	0.69
- Anthropogenic deposition from national sources, t	24.2	0.78	0.08	0.15	0.04	0.01
- Anthropogenic deposition from other countries, t	114	11.83	2.60	0.78	0.74	0.10
- Intercontinental transport (non-EMEP sources), t	2.06	1.95	1.48	0.49	0.02	0.01
- Secondary sources (wind re-suspension), t	54.9	16.90	0.06	0.06	0.56	0.58
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	54.3	1.91	0.18	0.32	0.07	0.01
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	9.05	0.74	0.04	0.12	0.01	0.004
- Black Sea	0.51	0.02	0.002	0.002	0.001	0.00
- Caspian Sea	0.11	0.002	0.00	0.00	0.00	0.00
- Mediterranean Sea	0.33	0.01	0.001	0.002	0.001	0.00
- North Sea	0.39	0.05	0.002	0.01	0.00	0.00
Mean annual air concentrations, ng/m ³	7.14	0.78	0.13	0.04	1.63	1.37

POP emissions and pollution levels in 1990 and 2012

	B[a]P		PCDD/Fs		HCB		PCB-153	
	1990	2012	1990	2012	1990	2012	1990	2012
Emissions	t		g TEQ ^a		kg		kg	
	5.6	4.2	27	32	0.191	0.336	16 ^b	3.9 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	3421.9	3129.4	408.9	217.6	2407.9	288.9	71.79	17.71
- Anthropogenic deposition from national sources	1560.9	1386.1	51.38	49.15	0.04	0.07	6.64	1.58
- Anthropogenic deposition from other countries	1635.2	1448.2	161.11	62.50	11.96	0.91	14.09	2.61
- Intercontinental transport (global sources) ^c	-	-	25.61	13.72	612.6	79.8	10.42	1.34
- Secondary sources (re-volatilization) ^d	225.7	295.1	170.8	92.20	1783.3	208.2	40.65	12.18
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	2270.3	2722.2	62.73	62.62	0.07	0.12	6.12	1.52
Deposition to the regional seas								
- Baltic Sea	322.9	470.9	7.94	11.35	4.7E-03	1.0E-02	8.4E-01	2.7E-01
- Black Sea	5.65	16.95	0.22	0.26	3.4E-04	5.1E-04	1.8E-02	3.9E-03
- Caspian Sea	1.62	2.65	0.06	0.03	1.0E-04	1.7E-04	6.0E-03	1.0E-03
- Mediterranean Sea	4.46	20.22	0.33	0.37	5.4E-04	6.3E-04	2.3E-02	4.8E-03
- North Sea	12.46	46.54	0.22	0.65	1.8E-04	4.5E-04	1.7E-02	7.3E-03
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.37	0.39	15.28	0.01	246.8	28.94	1.89	0.50

^a Toxicity of PCDD/Fs is expressed according to the NATO toxic equivalents scheme (I-TEQ)

^b Expert estimate

^c Model assessment of B[a]P pollution was focused on the emission sources of the EMEP countries neglecting the intercontinental transport

^d Estimates of secondary sources contribution for B[a]P represent re-volatilization fluxes resulted from the accumulation of pollutant during one year