

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	331	16	2.1	0.793	3.5	0.550
Deposition to the country						
Total deposition to the country, t	273	42.73	4.15	1.43	1.61	0.55
- Anthropogenic deposition from national sources, t	45.9	1.97	0.31	0.09	0.50	0.04
- Anthropogenic deposition from other countries, t	140	9.02	1.58	0.47	0.86	0.19
- Intercontinental transport (non-EMEP sources), t	1.65	1.55	2.21	0.83	0.01	0.01
- Secondary sources (wind re-suspension), t	86.4	30.19	0.05	0.04	0.25	0.32
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	173	7.26	1.02	0.37	1.15	0.07
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	13.6	0.65	0.08	0.03	0.07	0.005
- Black Sea	0.69	0.02	0.004	0.001	0.004	0.00
- Caspian Sea	0.18	0.002	0.001	0.00	0.001	0.00
- Mediterranean Sea	2.49	0.15	0.01	0.01	0.01	0.001
- North Sea	57.4	4.58	0.40	0.22	0.37	0.04
Mean annual air concentrations, ng/m ³	50.1	6.80	0.74	0.22	1.91	1.47

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	
	5.2	1.2	743	23	45	1.7	78 ^b	14 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	4223.1	1689.9	2825.6	214.9	758.0	91.1	161.3	33.72
- Anthropogenic deposition from national sources	799.7	166.4	1419.8	43.20	0.08	0.22	22.97	4.15
- Anthropogenic deposition from other countries	3224.8	1354.8	474.4	44.93	18.38	1.20	61.95	11.66
- Intercontinental transport (global sources) ^c	-	-	24.26	10.06	295.9	37.6	10.88	1.35
- Secondary sources (re-volatilization) ^d	198.6	168.7	907.2	116.7	443.7	52.1	65.47	16.56
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	1239.4	452.1	1478.6	73.42	0.21	0.58	33.79	6.16
Deposition to the regional seas								
- Baltic Sea	58.41	18.97	43.50	1.80	3.0E-03	1.2E-02	6.7E-01	1.4E-01
- Black Sea	3.24	1.56	5.11	0.17	4.6E-04	1.5E-03	5.7E-02	8.1E-03
- Caspian Sea	0.64	0.23	1.35	0.03	1.6E-04	6.2E-04	2.3E-02	2.7E-03
- Mediterranean Sea	6.17	8.67	17.55	1.11	2.4E-03	7.3E-03	2.6E-01	5.3E-02
- North Sea	219.3	83.67	262.4	13.07	1.5E-02	5.6E-02	5.0E+00	1.0E+00
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	1.05	0.43	217.3	0.02	239.3	28.14	13.13	2.79

^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