

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	2753	186	25	9.1	14	6.3
Deposition to the country						
Total deposition to the country, t	1710	274.11	18.55	6.29	6.10	3.91
- Anthropogenic deposition from national sources, t	966	53.34	9.35	2.55	1.89	0.60
- Anthropogenic deposition from other countries, t	297	26.27	1.59	0.42	0.61	0.10
- Intercontinental transport (non-EMEP sources), t	82.6	36.95	6.41	2.52	0.10	0.09
- Secondary sources (wind re-suspension), t	368	157.55	1.19	0.80	3.50	3.12
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	538	37.21	4.89	1.69	1.11	0.27
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	9.11	0.68	0.08	0.03	0.02	0.01
- Black Sea	4.17	0.20	0.04	0.01	0.02	0.002
- Caspian Sea	0.82	0.04	0.01	0.002	0.01	0.001
- Mediterranean Sea	297	16.64	2.70	0.80	0.52	0.13
- North Sea	39	2.04	0.37	0.10	0.06	0.02
Mean annual air concentrations, ng/m ³	19	2.37	0.16	0.06	1.57	1.33

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	
	27 ^b	14 ^b	181	120	326	4.3	1025 ^b	139 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	8408.5	7396.9	4542.3	1707.0	13569.8	1459.8	1630.6	276.0
- Anthropogenic deposition from national sources	6211.2	4264.2	454.9	304.3	159.6	1.02	568.3	71.64
- Anthropogenic deposition from other countries	943.4	1515.8	344.3	54.91	43.77	1.21	54.0	9.01
- Intercontinental transport (global sources) ^c	-	-	293.6	191.4	5087.1	696.1	150.1	20.12
- Secondary sources (re-volatilization) ^d	1253.9	1616.9	3449.5	1156.4	8279.4	761.4	858.2	175.3
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	1379.0	1200.3	152.22	74.08	50.19	0.52	159.7	23.60
Deposition to the regional seas								
- Baltic Sea	28.23	16.64	1.58	0.54	1.8E-01	2.0E-03	8.6E-01	1.1E-01
- Black Sea	2.61	7.71	0.53	0.32	1.8E-01	2.4E-03	3.2E-01	5.3E-02
- Caspian Sea	0.31	0.92	0.13	0.07	9.4E-02	1.1E-03	1.4E-01	1.9E-02
- Mediterranean Sea	282.6	307.2	29.73	13.45	1.0E+01	1.5E-01	1.5E+01	2.7E+00
- North Sea	98.48	56.37	4.60	1.74	4.0E-01	3.4E-03	2.5E+00	3.1E-01
Mean annual air concentrations								
	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.12	0.09	11.71	0.00	211.0	21.85	7.36	1.29

^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