

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	331	14	2.1	0.622	3.5	0.522
Deposition to the country						
Total deposition to the country, t	312.71	48.20	5.31	1.72	1.35	0.49
- Anthropogenic deposition from national sources, t	45.16	1.51	0.31	0.06	0.24	0.03
- Anthropogenic deposition from other countries, t	129.31	7.91	1.50	0.40	0.81	0.19
- Intercontinental transport (non-EMEP sources), t	1.59	0.94	0.04	0.03	0.29	0.26
- Secondary sources (wind re-suspension), t	136.65	37.80	3.45	1.23	0.01	0.01
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	170.13	6.09	1.02	0.29	0.55	0.06
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	13.38	0.46	77.53	17.60	32.03	3.85
- Black Sea	0.68	0.02	3.73	0.89	1.81	0.20
- Caspian Sea	0.17	0.003	0.96	0.12	0.65	0.06
- Mediterranean Sea	2.43	0.13	14.25	5.74	5.37	1.02
- North Sea	56.54	3.36	398.07	140.00	174.04	38.40
Mean annual air concentrations, ng/m ³	57.22	10.00	0.97	0.31	2.08	1.60

POP emissions and pollution levels in 1990 and 2013

	B[a]P		PCDD/Fs		HCB	
	1990	2013	1990	2013	1990	2013
Emissions	t		g TEQ ^a		kg	
	12	1.6	742	25	45	2.8
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	5080.1	1287.1	3174.2	203.8	750.4	58.4
- Anthropogenic deposition from national sources	2076.5	231.6	1479.5	36.8	6.5	0.4
- Anthropogenic deposition from other countries	2644.5	969.4	525.6	44.5	18.4	0.7
- Intercontinental transport (global sources) ^c	0.0	0.0	99.5	33.8	312.5	24.4
- Secondary sources (re-volatilization) ^d	359.1	86.2	1070.6	88.6	413.1	32.9
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	3199.8	436.2	1398.8	54.8	16.3	1.0
Deposition to the regional seas						
- Baltic Sea	162.68	18.59	41.53	1.17	2.4E-01	1.5E-02
- Black Sea	9.43	0.97	4.57	0.11	3.7E-02	1.9E-03
- Caspian Sea	1.93	0.12	1.14	0.02	1.3E-02	6.7E-04
- Mediterranean Sea	17.18	2.57	17.86	0.66	1.9E-01	1.3E-02
- North Sea	628.51	75.72	272.23	9.74	1.2E+00	8.6E-02
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	1.21	0.33	216.00	11.73	235.2	17.50

^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