

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	235	115	4.4	2.0	2.9	1.7
Deposition to the country						
Total deposition to the country, t	394.85	82.90	6.26	2.46	1.67	1.26
- Anthropogenic deposition from national sources, t	64.93	6.02	1.35	0.55	0.53	0.26
- Anthropogenic deposition from other countries, t	183.93	14.60	1.89	0.52	0.41	0.19
- Intercontinental transport (non-EMEP sources), t	6.22	6.15	0.11	0.17	0.70	0.77
- Secondary sources (wind re-suspension), t	139.77	56.10	2.90	1.23	0.04	0.04
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	123.11	11.50	2.28	0.97	0.49	0.25
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.84	0.10	13.86	7.35	2.49	1.66
- Black Sea	4.42	0.32	76.94	25.40	11.26	4.04
- Caspian Sea	0.21	0.02	3.34	1.23	0.87	0.38
- Mediterranean Sea	16.42	1.47	283.70	121.00	43.11	22.90
- North Sea	0.55	0.04	9.03	3.08	1.56	1.00
Mean annual air concentrations, ng/m ³	21.13	2.71	0.33	0.10	1.75	1.56

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	
	10	6.1	54	39	0.277	0.214
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	4484.7	2694.7	1614.0	506.6	3400.4	251.5
- Anthropogenic deposition from national sources	2181.2	1324.8	133.4	93.2	0.1	0.1
- Anthropogenic deposition from other countries	1873.9	1088.1	319.0	92.8	18.3	4.0
- Intercontinental transport (global sources) ^c	0.0	0.0	113.0	47.6	907.6	72.9
- Secondary sources (re-volatilization) ^d	429.6	281.8	1049.1	273.0	2474.5	174.6
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	2009.0	1241.1	103.8	73.3	0.1	0.1
Deposition to the regional seas						
- Baltic Sea	14.30	6.37	0.36	0.20	5.3E-05	7.3E-05
- Black Sea	29.55	17.13	1.09	0.79	3.3E-04	3.4E-04
- Caspian Sea	0.63	0.54	0.09	0.08	7.7E-05	5.2E-05
- Mediterranean Sea	101.45	65.58	7.26	4.94	3.9E-03	3.1E-03
- North Sea	2.49	2.03	0.10	0.20	3.5E-05	4.7E-05
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.55	0.29	29.60	11.09	208.8	16.22

^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