

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	96	1.9	0.470	0.596	0.270	0.101
Deposition to the country						
Total deposition to the country, t	220.77	44.80	4.16	1.70	0.94	0.62
- Anthropogenic deposition from national sources, t	25.26	0.42	0.12	0.15	0.03	0.01
- Anthropogenic deposition from other countries, t	105.94	11.00	1.65	0.44	0.28	0.09
- Intercontinental transport (non-EMEP sources), t	2.04	1.69	0.06	0.05	0.61	0.51
- Secondary sources (wind re-suspension), t	87.52	31.70	2.34	1.06	0.02	0.02
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	56.70	0.99	0.26	0.31	0.04	0.01
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	9.45	0.30	67.46	92.40	9.34	3.96
- Black Sea	0.53	0.01	2.46	2.58	0.30	0.11
- Caspian Sea	0.11	0.001	0.49	0.35	0.09	0.02
- Mediterranean Sea	0.35	0.01	1.75	1.73	0.23	0.09
- North Sea	0.41	0.04	2.49	11.00	0.26	0.34
Mean annual air concentrations, ng/m ³	7.64	1.43	0.11	0.06	1.61	1.46

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	
	6.1	3.8	32	51	0.199	0.371
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	3127.9	1761.7	538.0	248.1	2289.1	179.5
- Anthropogenic deposition from national sources	1293.7	804.5	67.8	97.7	0.0	0.1
- Anthropogenic deposition from other countries	1619.5	833.3	157.6	46.3	8.0	1.2
- Intercontinental transport (global sources) ^c	0.0	0.0	90.4	33.9	666.7	49.1
- Secondary sources (re-volatilization) ^d	214.7	123.9	223.3	70.2	1614.4	129.2
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	1738.6	1054.4	70.5	111.4	0.1	0.1
Deposition to the regional seas						
- Baltic Sea	250.02	180.24	10.44	23.26	5.2E-03	1.2E-02
- Black Sea	4.23	2.44	0.28	0.32	3.8E-04	6.5E-04
- Caspian Sea	1.24	0.75	0.09	0.09	1.1E-04	1.7E-04
- Mediterranean Sea	3.33	2.60	0.43	0.63	5.9E-04	1.1E-03
- North Sea	9.66	15.10	0.27	1.63	2.0E-04	6.3E-04
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.30	0.21	12.90	11.75	232.1	18.84

^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