

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	205	39	4.4	0.966	1.1	0.678
Deposition to the country						
Total deposition to the country, t	143.47	31.50	3.12	1.12	0.63	0.45
- Anthropogenic deposition from national sources, t	39.35	4.15	0.98	0.13	0.08	0.05
- Anthropogenic deposition from other countries, t	59.39	5.41	0.96	0.26	0.13	0.04
- Intercontinental transport (non-EMEP sources), t	1.29	1.15	0.04	0.03	0.41	0.35
- Secondary sources (wind re-suspension), t	43.44	20.80	1.15	0.69	0.01	0.01
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	131.60	29.00	2.76	0.67	0.39	0.24
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	23.59	3.86	457.90	111.00	57.61	37.40
- Black Sea	0.61	0.12	12.54	2.74	1.06	0.71
- Caspian Sea	0.20	0.02	3.99	0.55	0.42	0.21
- Mediterranean Sea	0.47	0.07	9.32	1.49	0.78	0.44
- North Sea	0.58	0.35	11.27	8.15	0.80	1.96
Mean annual air concentrations, ng/m ³	8.94	1.42	0.17	0.04	1.61	1.48

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	
	2.7	2.1	8.6	3.5	0.183	0.283
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	1456.0	839.2	346.5	100.7	1495.6	123.8
- Anthropogenic deposition from national sources	422.7	265.6	10.9	5.4	0.0	0.0
- Anthropogenic deposition from other countries	931.5	512.7	87.2	33.3	4.8	0.7
- Intercontinental transport (global sources) ^c	0.0	0.0	60.3	22.5	422.6	32.5
- Secondary sources (re-volatilization) ^d	101.8	60.9	187.8	39.5	1068.2	90.5
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	893.2	745.5	24.9	9.7	0.1	0.1
Deposition to the regional seas						
- Baltic Sea	152.55	135.54	3.92	1.42	6.6E-03	1.3E-02
- Black Sea	1.15	1.27	0.06	0.03	2.8E-04	4.0E-04
- Caspian Sea	0.55	0.41	0.03	0.01	1.0E-04	1.4E-04
- Mediterranean Sea	0.88	0.94	0.09	0.04	4.5E-04	5.7E-04
- North Sea	3.47	6.68	0.05	0.08	1.8E-04	4.6E-04
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.20	0.14	8.80	4.53	249.9	21.28

^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