

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	358	12	2.3	0.473	1.5	0.453
Deposition to the country						
Total deposition to the country, t	796.85	107.00	11.99	3.28	5.14	3.73
- Anthropogenic deposition from national sources, t	141.26	4.30	0.89	0.19	0.17	0.05
- Anthropogenic deposition from other countries, t	363.56	22.00	4.45	0.95	1.13	0.24
- Intercontinental transport (non-EMEP sources), t	10.84	10.40	0.31	0.33	3.71	3.32
- Secondary sources (wind re-suspension), t	281.18	70.20	6.33	1.81	0.13	0.13
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	128.62	4.16	0.81	0.16	0.12	0.04
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	50.87	1.71	358.24	67.80	67.02	21.10
- Black Sea	1.03	0.03	4.58	1.24	0.84	0.24
- Caspian Sea	0.25	0.005	1.41	0.18	0.32	0.07
- Mediterranean Sea	1.00	0.03	4.16	1.06	0.94	0.30
- North Sea	9.26	0.42	26.23	16.40	6.91	3.82
Mean annual air concentrations, ng/m ³	3.39	0.33	0.04	0.01	1.53	1.39

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	
	5.2	3.6	60	38	0.023	0.014
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	9159.0	3546.6	2700.8	701.4	14755.0	1244.3
- Anthropogenic deposition from national sources	1593.2	1046.3	164.1	97.8	0.0	0.0
- Anthropogenic deposition from other countries	7001.6	2285.5	753.2	106.6	67.5	3.9
- Intercontinental transport (global sources) ^c	0.0	0.0	774.7	304.1	5087.7	419.6
- Secondary sources (re-volatilization) ^d	564.3	214.8	1011.4	192.9	9599.7	820.7
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	886.8	654.8	79.6	51.2	0.0	0.0
Deposition to the regional seas						
- Baltic Sea	297.05	211.60	26.52	17.21	1.1E-03	6.9E-04
- Black Sea	2.64	2.21	0.35	0.21	3.6E-05	1.5E-05
- Caspian Sea	0.67	0.45	0.10	0.05	1.1E-05	5.3E-06
- Mediterranean Sea	2.88	1.99	0.76	0.40	6.5E-05	3.8E-05
- North Sea	35.80	40.86	1.65	2.94	1.3E-04	1.0E-04
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.09	0.05	5.79	2.02	202.9	16.44

^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