

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	77	1.9*	0.600	0.047*	0.300	0.288*
Deposition to the country						
Total deposition to the country, t	26.96	3.35	0.309	0.09	0.0943	0.05
- Anthropogenic deposition from national sources, t	5.19	0.12	0.042	0.00	0.0117	0.01
- Anthropogenic deposition from other countries, t	14.75	0.80	0.122	0.03	0.0560	0.01
- Intercontinental transport (non-EMEP sources), t	0.17	0.13	0.004	0.004	0.0258	0.03
- Secondary sources (wind re-suspension), t	6.85	2.29	0.141	0.05	0.0008	0.001
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	56.65	1.33	0.45	0.03	0.07	0.06
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	1.67	0.04	12.18	0.86	1.26	1.01
- Black Sea	0.18	0.003	1.18	0.07	0.16	0.10
- Caspian Sea	0.03	0.00	0.23	0.01	0.05	0.03
- Mediterranean Sea	1.04	0.03	7.48	0.72	0.74	0.88
- North Sea	3.42	0.09	25.17	2.15	2.43	2.50
Mean annual air concentrations, ng/m ³	48.33	5.13	0.46	0.11	1.92	1.58

* expert estimates

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	
	1.3	0.149	13	0.948	0.403	0.373
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	272.7	68.8	131.3	15.0	108.3	8.0
- Anthropogenic deposition from national sources	71.6	8.5	11.1	0.6	0.0	0.0
- Anthropogenic deposition from other countries	176.5	53.9	61.9	5.5	2.1	0.1
- Intercontinental transport (global sources) ^c	0.0	0.0	5.8	2.0	32.2	2.5
- Secondary sources (re-volatilization) ^d	24.7	6.4	52.1	6.9	73.9	5.4
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	589.1	65.1	48.2	3.6	0.2	0.2
Deposition to the regional seas						
- Baltic Sea	12.59	1.05	0.43	0.02	7.7E-04	7.0E-04
- Black Sea	1.02	0.09	0.07	0.00	2.3E-04	1.9E-04
- Caspian Sea	0.15	0.01	0.01	0.00	8.6E-05	6.9E-05
- Mediterranean Sea	1.96	0.39	0.34	0.03	2.0E-03	2.2E-03
- North Sea	14.69	1.76	0.58	0.06	1.2E-03	1.2E-03
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.73	0.21	106.00	10.21	246.3	17.95

^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