

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	99	54	9.7	1.3	13	1.3
Deposition to the country						
Total deposition to the country, t	299.22	75.30	8.20	2.33	2.80	0.87
- Anthropogenic deposition from national sources, t	20.21	10.70	2.09	0.29	1.84	0.17
- Anthropogenic deposition from other countries, t	143.37	20.50	2.64	0.74	0.49	0.23
- Intercontinental transport (non-EMEP sources), t	2.33	2.30	0.05	0.06	0.44	0.45
- Secondary sources (wind re-suspension), t	133.32	41.80	3.43	1.24	0.02	0.02
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	67.09	36.10	6.57	0.89	2.97	0.34
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	1.06	0.70	134.25	16.40	28.72	4.26
- Black Sea	1.23	0.51	85.19	11.40	38.04	2.75
- Caspian Sea	0.20	0.04	15.56	0.95	6.92	0.38
- Mediterranean Sea	2.98	1.63	267.12	38.30	70.07	9.45
- North Sea	0.43	0.46	47.16	10.90	10.14	3.08
Mean annual air concentrations, ng/m ³	22.08	5.59	0.63	0.15	2.01	1.51

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	
	8.1 ^b	5.6	169	47	2.8	0.925
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	4341.5	2571.1	1775.4	347.5	2127.2	169.0
- Anthropogenic deposition from national sources	1307.7	937.7	282.5	79.2	0.7	0.2
- Anthropogenic deposition from other countries	2723.4	1423.0	683.3	93.3	10.6	3.1
- Intercontinental transport (global sources) ^c	0.0	0.0	71.6	28.5	559.4	44.6
- Secondary sources (re-volatilization) ^d	310.4	210.3	737.1	146.6	1556.5	121.0
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	2461.2	1707.0	480.4	131.9	1.0	0.4
Deposition to the regional seas						
- Baltic Sea	39.28	18.92	3.34	0.69	1.9E-03	9.6E-04
- Black Sea	18.44	9.80	3.28	0.64	4.0E-03	1.1E-03
- Caspian Sea	1.75	0.89	0.41	0.09	9.5E-04	2.4E-04
- Mediterranean Sea	37.66	31.58	9.58	3.12	2.3E-02	8.3E-03
- North Sea	9.33	7.96	0.73	0.56	8.9E-04	5.9E-04
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.83	0.43	93.70	17.40	226.2	17.79

^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