

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	5433*	49*	154*	45*	81*	20*
Deposition to the country						
Total deposition to the country, t	12696.60	3470.00	293.72	147.00	141.59	115.00
- Anthropogenic deposition from national sources, t	4305.68	36.70	122.47	35.10	16.74	4.28
- Anthropogenic deposition from other countries, t	4215.87	428.00	40.25	14.50	9.21	3.86
- Intercontinental transport (non-EMEP sources), t	681.65	622.00	19.17	20.80	113.01	104.00
- Secondary sources (wind re-suspension), t	3493.43	2390.00	111.84	76.90	2.63	2.41
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	648.53	6.00	14.92	4.84	1.29	0.36
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	23.64	0.21	572.11	134.00	36.41	2.61
- Black Sea	53.16	0.37	874.92	253.00	46.92	4.34
- Caspian Sea	38.11	0.17	613.97	118.00	36.32	4.16
- Mediterranean Sea	7.75	0.09	137.00	57.20	9.72	2.50
- North Sea	1.90	0.04	39.99	21.80	5.24	1.23
Mean annual air concentrations, ng/m ³	3.20	0.61	0.07	0.03	1.57	1.46

* expert estimates

POP emissions and pollution levels in 1990 and 2013

	B[a]P		PCDD/Fs		HCB	
	1990	2013	1990	2013	1990	2013
Emissions ^b	t		g TEQ ^a		kg	
	23	23	1257	831	8.0	8.1
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	38894.3	33421.5	32925.6	12624.0	461636.0	36431.0
- Anthropogenic deposition from national sources	9595.1	9733.9	3491.6	1992.4	2.8	2.5
- Anthropogenic deposition from other countries	26344.4	21299.8	4599.9	2608.5	354.7	69.1
- Intercontinental transport (global sources) ^c	0.0	0.0	7478.2	3338.4	104135.2	8169.3
- Secondary sources (re-volatilization) ^d	2954.8	2387.8	17377.4	4684.7	357143.0	28190.2
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	908.9	956.9	629.5	408.3	0.8	0.8
Deposition to the regional seas						
- Baltic Sea	46.43	45.64	23.08	12.78	1.2E-02	1.2E-02
- Black Sea	48.06	49.26	27.38	16.71	2.0E-02	2.2E-02
- Caspian Sea	28.21	23.95	15.17	8.78	1.2E-02	1.2E-02
- Mediterranean Sea	4.90	5.28	8.77	4.41	9.4E-03	1.3E-02
- North Sea	4.06	9.35	1.13	2.58	1.3E-03	1.5E-03
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.03	0.03	13.50	8.12	427.4	34.67

^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