

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	99	58	9.7	1.3	13	1.3
Deposition to the country						
Total deposition to the country, t	319	75.41	7.93	2.70	3.43	0.88
- Anthropogenic deposition from national sources, t	20.3	12.37	2.10	0.28	2.07	0.16
- Anthropogenic deposition from other countries, t	204	22.61	3.45	1.22	0.92	0.24
- Intercontinental transport (non-EMEP sources), t	2.45	2.63	2.33	1.13	0.02	0.01
- Secondary sources (wind re-suspension), t	92.1	37.80	0.05	0.07	0.43	0.47
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	66.9	37.65	6.57	0.86	3.67	0.31
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	1.21	0.61	0.08	0.01	0.05	0.00
- Black Sea	3.01	2.20	0.27	0.05	0.09	0.01
- Caspian Sea	0.425	0.26	0.05	0.01	0.02	0.00
- Mediterranean Sea	1.07	0.99	0.14	0.02	0.04	0.01
- North Sea	0.2	0.03	0.02	0.001	0.01	0.00
Mean annual air concentrations, ng/m ³	24	6.58	0.61	0.19	2.00	1.41

POP emissions and pollution levels in 1990 and 2012

	B[a]P		PCDD/Fs		HCB		PCB-153	
	1990	2012	1990	2012	1990	2012	1990	2012
Emissions	t		g TEQ ^a		kg		kg	
	8.1 ^b	5.4	169	49	2.8	1.0	77 ^b	10 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	3834.2	3236.3	1682.7	483.9	2493.1	297.8	161.4	31.88
- Anthropogenic deposition from national sources	1508.8	930.3	273.9	82.54	0.69	0.27	29.98	3.68
- Anthropogenic deposition from other countries	2025.2	1931.8	741.5	109.6	13.88	2.93	33.83	4.01
- Intercontinental transport (global sources) ^c	-	-	20.75	12.08	546.3	69.2	9.63	1.28
- Secondary sources (re-volatilization) ^d	300.15	374.23	646.50	279.70	1932.3	225.4	87.97	22.91
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	2182.4	2140.2	491.3	144.9	1.07	0.35	36.85	4.90
Deposition to the regional seas								
- Baltic Sea	35.93	41.31	3.45	1.27	1.9E-03	8.6E-04	1.4E-01	1.9E-02
- Black Sea	18.51	25.08	3.43	0.97	4.0E-03	1.5E-03	1.4E-01	1.7E-02
- Caspian Sea	1.75	2.29	0.48	0.09	9.6E-04	4.2E-04	2.9E-02	2.9E-03
- Mediterranean Sea	35.20	118.25	9.99	4.36	2.3E-02	8.7E-03	5.0E-01	9.0E-02
- North Sea	8.67	22.49	0.79	0.72	8.9E-04	3.5E-04	3.6E-02	8.0E-03
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.72	0.56	102.46	0.02	268.1	34.11	7.01	1.37

^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