

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	559	33	6.0	4.2	3.4	1.5
Deposition to the country						
Total deposition to the country, t	308.35	48.50	3.07	1.97	1.17	0.98
- Anthropogenic deposition from national sources, t	139.63	8.41	1.41	1.12	0.34	0.16
- Anthropogenic deposition from other countries, t	69.00	4.07	0.55	0.16	0.08	0.02
- Intercontinental transport (non-EMEP sources), t	16.70	8.32	0.24	0.27	0.71	0.77
- Secondary sources (wind re-suspension), t	83.02	27.70	0.87	0.41	0.04	0.03
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	96.80	4.86	0.76	0.61	0.12	0.06
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	1.09	0.05	7.41	5.67	1.33	0.55
- Black Sea	0.38	0.03	3.51	2.95	0.59	0.29
- Caspian Sea	0.07	0.00	0.72	0.39	0.23	0.08
- Mediterranean Sea	10.49	0.73	100.08	87.00	9.68	5.22
- North Sea	6.11	0.28	43.78	31.90	6.14	2.52
Mean annual air concentrations, ng/m ³	20.80	2.70	0.15	0.09	1.70	1.55

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	
	26	24	525	132	3.9	3.3
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	8588.6	7914.5	3131.2	859.7	2205.2	174.1
- Anthropogenic deposition from national sources	6554.8	6414.6	1328.9	349.7	0.9	0.8
- Anthropogenic deposition from other countries	835.9	372.4	52.1	16.7	9.6	0.3
- Intercontinental transport (global sources) ^c	0.0	0.0	236.2	99.8	1017.3	88.1
- Secondary sources (re-volatilization) ^d	1197.9	1127.6	1511.8	393.6	1177.5	85.0
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	1739.7	1915.0	387.4	104.9	0.4	0.3
Deposition to the regional seas						
- Baltic Sea	17.37	17.74	3.17	0.50	7.8E-04	5.9E-04
- Black Sea	0.90	1.06	0.66	0.20	5.7E-04	5.1E-04
- Caspian Sea	0.10	0.24	0.19	0.07	3.2E-04	2.5E-04
- Mediterranean Sea	27.09	42.05	10.28	3.32	1.4E-02	1.2E-02
- North Sea	66.80	73.02	9.25	2.05	1.9E-03	1.3E-03
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.54	0.45	46.30	12.17	176.2	13.42

^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