

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	237	26	6.6	2.3	12	1.7
Deposition to the country						
Total deposition to the country, t	282.70	46.6	5.04	1.75	1.99	0.52
- Anthropogenic deposition from national sources, t	33.61	3.77	0.86	0.32	1.08	0.14
- Anthropogenic deposition from other countries, t	141.88	7.29	1.28	0.24	0.66	0.14
- Intercontinental transport (non-EMEP sources), t	1.49	1.01	0.04	0.03	0.25	0.24
- Secondary sources (wind re-suspension), t	105.71	34.6	2.87	1.16	0.01	0.01
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	133.99	14.6	3.92	1.34	1.74	0.25
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	7.06	0.69	191.75	58.50	63.99	8.15
- Black Sea	0.48	0.04	12.00	3.20	5.25	0.57
- Caspian Sea	0.12	0.01	3.18	0.47	2.01	0.18
- Mediterranean Sea	2.30	0.32	57.04	24.40	19.97	3.58
- North Sea	25.71	2.87	682.00	243.00	288.18	44.75
Mean annual air concentrations, ng/m ³	63.34	11.5	1.15	0.38	2.41	1.63

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	
	20 ^b	9.5 ^b	577	43	98	14
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	4830.0	2366.6	2318.8	233.4	948.0	71.3
- Anthropogenic deposition from national sources	2992.3	1806.9	989.9	70.8	22.4	2.5
- Anthropogenic deposition from other countries	1470.3	393.7	368.0	33.1	22.3	0.5
- Intercontinental transport (global sources) ^c	0.0	0.0	74.2	26.2	319.0	24.5
- Secondary sources (re-volatilization) ^d	367.5	165.9	887.7	103.3	584.2	43.7
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	6491.7	2702.9	1420.3	103.6	33.4	5.2
Deposition to the regional seas						
- Baltic Sea	228.85	82.34	26.15	1.34	2.9E-01	4.3E-02
- Black Sea	15.06	5.52	3.38	0.19	6.0E-02	7.9E-03
- Caspian Sea	2.85	0.62	0.80	0.04	2.3E-02	2.9E-03
- Mediterranean Sea	27.13	17.87	13.83	1.29	4.3E-01	7.5E-02
- North Sea	595.85	308.25	104.91	8.83	8.1E-01	1.5E-01
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	1.14	0.60	177.00	16.83	248.3	18.41

^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