

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	3.8	0.038*	0.056	0.005*	0.108	0.053*
Deposition to the country						
Total deposition to the country, kg	205.43	22.60	1.24	0.37	0.365	0.26
- Anthropogenic deposition from national sources, kg	3.56	0.04	0.055	0.00	0.032	0.02
- Anthropogenic deposition from other countries, kg	138.26	4.49	0.483	0.13	0.140	0.04
- Intercontinental transport (non-EMEP sources), kg	2.50	1.66	0.036	0.04	0.186	0.19
- Secondary sources (wind re-suspension), kg	61.12	16.40	0.666	0.19	0.007	0.01
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), kg	2655.40	25.90	39.27	3.32	16.78	8.06
Deposition to the regional seas (Pb – kg, Cd, Hg – g):						
- Baltic Sea	16.79	0.23	223.73	25.90	83.25	48.60
- Black Sea	18.61	0.11	251.71	14.50	88.43	31.90
- Caspian Sea	1.90	0.02	26.34	2.26	22.04	8.55
- Mediterranean Sea	630.54	6.99	9438.55	896.00	2996.65	1620.00
- North Sea	27.42	0.29	371.03	33.90	111.01	71.90
Mean annual air concentrations, ng/m ³	45.08	3.31	0.20	0.04	1.59	1.38

* expert estimates

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	
	3.3E-05	3.4E-05 ^b	2.4	2.4 ^b	---	---
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	2.39E-01	1.62E-01	3.14E-01	7.38E-02	3.17E-01	2.46E-02
- Anthropogenic deposition from national sources	1.34E-05	1.39E-05	1.99E-02	1.11E-02	0.00E+00	0.00E+00
- Anthropogenic deposition from other countries	2.19E-01	1.47E-01	1.04E-01	1.89E-02	4.37E-03	2.18E-04
- Intercontinental transport (global sources) ^c	4.03E-08	8.53E-09	2.68E-02	1.19E-02	1.26E-01	1.10E-02
- Secondary sources (re-volatilization) ^d	2.07E-02	1.42E-02	1.64E-01	3.20E-02	1.86E-01	1.34E-02
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	8.13E-03	8.39E-03	8.34E+00	7.15E+00	0.00E+00	0.00E+00
Deposition to the regional seas						
- Baltic Sea	4.31E-05	3.23E-05	1.86E-02	1.32E-02	0.00E+00	0.00E+00
- Black Sea	1.23E-05	7.97E-06	1.36E-02	1.89E-02	0.00E+00	0.00E+00
- Caspian Sea	5.70E-07	8.15E-07	2.84E-03	4.58E-03	0.00E+00	0.00E+00
- Mediterranean Sea	1.69E-03	2.02E-03	9.52E-01	1.56E+00	0.00E+00	0.00E+00
- North Sea	3.65E-05	1.97E-05	1.76E-02	2.25E-02	0.00E+00	0.00E+00
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.11	0.07	33.1	7.79	189.05	13.98

^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