

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	62	3.7*	0.308	0.117*	0.273	0.117*
Deposition to the country						
Total deposition to the country, t	147.39	40.4	1.86	0.92	0.46	0.54
- Anthropogenic deposition from national sources, t	10.56	0.657	0.05	0.02	0.02	0.01
- Anthropogenic deposition from other countries, t	68.38	6.39	0.47	0.18	0.13	0.18
- Intercontinental transport (non-EMEP sources), t	5.18	4.07	0.08	0.10	0.30	0.34
- Secondary sources (wind re-suspension), t	63.27	29.3	1.26	0.62	0.01	0.02
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	24.72	1.55	0.12	0.05	0.02	0.01
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.09	0.01	0.45	0.26	0.08	0.05
- Black Sea	0.89	0.04	4.03	1.17	0.56	0.19
- Caspian Sea	0.04	0.00	0.19	0.07	0.06	0.02
- Mediterranean Sea	13.02	0.70	69.49	22.70	11.35	4.63
- North Sea	0.11	0.00	0.51	0.07	0.09	0.03
Mean annual air concentrations, ng/m ³	16.27	2.61	0.19	0.07	1.63	1.58

* 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	
	6.2	2.4 ^b	26	32 ^b	0.218	0.065 ^b
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	1548.4	781.3	460.0	208.4	898.4	65.1
- Anthropogenic deposition from national sources	1006.4	414.8	50.1	64.5	0.0	0.0
- Anthropogenic deposition from other countries	403.1	286.1	75.3	25.9	5.8	1.2
- Intercontinental transport (global sources) ^c	0.0	0.0	48.6	20.1	326.3	24.8
- Secondary sources (re-volatilization) ^d	138.9	80.5	286.2	97.8	566.2	39.0
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	801.6	368.5	39.9	51.8	0.0	0.0
Deposition to the regional seas						
- Baltic Sea	2.75	1.27	0.09	0.14	2.6E-05	1.3E-05
- Black Sea	9.60	2.64	0.28	0.39	2.1E-04	8.4E-05
- Caspian Sea	0.19	0.08	0.04	0.06	5.4E-05	1.6E-05
- Mediterranean Sea	243.05	91.78	13.50	13.66	1.0E-02	2.5E-03
- North Sea	0.38	0.42	0.04	0.15	2.6E-05	1.1E-05
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.41	0.20	17.40	11.57	174.4	14.90

^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