

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	269	18	4.3	0.696	7.5	2.7
Deposition to the country						
Total deposition to the country, t	447.81	111.00	10.87	3.90	2.69	1.56
- Anthropogenic deposition from national sources, t	44.07	4.64	0.89	0.20	1.27	0.49
- Anthropogenic deposition from other countries, t	202.10	33.90	3.70	1.10	0.78	0.35
- Intercontinental transport (non-EMEP sources), t	3.22	3.28	0.07	0.10	0.62	0.70
- Secondary sources (wind re-suspension), t	198.42	69.50	6.20	2.50	0.02	0.03
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	193.30	10.70	2.97	0.40	1.77	0.59
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	5.61	0.40	92.74	15.30	55.81	19.00
- Black Sea	2.23	0.09	30.80	2.98	13.74	2.84
- Caspian Sea	0.46	0.01	6.25	0.34	3.03	0.58
- Mediterranean Sea	5.73	0.41	81.08	14.50	34.93	14.40
- North Sea	2.68	0.38	46.91	14.40	27.42	16.40
Mean annual air concentrations, ng/m ³	22.26	4.71	0.49	0.14	1.80	1.54

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	
	11 ^b	10	1252	26	14 ^b	4.4
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	6192.9	4493.5	3185.0	322.3	2375.2	186.9
- Anthropogenic deposition from national sources	1958.1	2135.8	1635.5	39.0	3.6	1.1
- Anthropogenic deposition from other countries	3797.5	2001.8	326.0	94.8	17.0	2.3
- Intercontinental transport (global sources) ^c	0.0	0.0	123.7	44.8	732.3	57.2
- Secondary sources (re-volatilization) ^d	437.3	355.9	1097.5	143.7	1622.4	126.3
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	3340.3	2864.1	3927.4	74.7	4.8	1.4
Deposition to the regional seas						
- Baltic Sea	88.04	65.77	44.01	0.73	2.6E-02	8.4E-03
- Black Sea	19.83	13.57	22.33	0.28	1.8E-02	3.9E-03
- Caspian Sea	2.35	1.38	3.07	0.04	4.8E-03	1.1E-03
- Mediterranean Sea	38.61	43.89	64.56	1.44	1.0E-01	3.4E-02
- North Sea	28.42	30.41	9.85	0.52	1.6E-02	6.7E-03
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.71	0.51	113.00	10.47	232.7	17.94

^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