

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	321	76	5.2	1.2	2.4	0.736
Deposition to the country						
Total deposition to the country, t	495.75	146	10.96	4.17	1.96	1.46
- Anthropogenic deposition from national sources, t	103.54	26.3	1.87	0.42	0.33	0.10
- Anthropogenic deposition from other countries, t	187.74	14.9	2.49	0.74	0.54	0.25
- Intercontinental transport (non-EMEP sources), t	9.71	9.66	0.18	0.25	1.03	1.05
- Secondary sources (wind re-suspension), t	194.76	95.1	6.41	2.76	0.06	0.06
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	130.66	31.9	1.99	0.48	0.23	0.07
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.69	0.27	9.34	3.52	0.86	0.49
- Black Sea	16.47	2.38	233.82	37.50	31.24	8.65
- Caspian Sea	0.42	0.08	6.19	1.10	0.87	0.24
- Mediterranean Sea	26.96	5.30	453.28	77.50	42.27	11.28
- North Sea	0.31	0.06	3.87	0.76	0.47	0.21
Mean annual air concentrations, ng/m ³	21.68	4.49	0.48	0.13	1.71	1.53

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	
	8.0	8.5	74	62	23	14
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	4357.4	3757.2	2259.6	762.1	3778.1	295.1
- Anthropogenic deposition from national sources	1960.2	2084.7	193.1	175.9	7.7	4.3
- Anthropogenic deposition from other countries	1935.6	1257.9	554.1	147.7	15.3	5.2
- Intercontinental transport (global sources) ^c	0.0	0.0	142.6	61.7	1144.5	92.9
- Secondary sources (re-volatilization) ^d	461.6	414.6	1371.9	376.8	2610.6	192.7
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	1056.9	1265.7	108.1	84.3	3.9	2.6
Deposition to the regional seas						
- Baltic Sea	5.82	4.70	0.31	0.27	3.3E-03	3.3E-03
- Black Sea	91.95	97.11	6.40	3.23	3.6E-02	2.6E-02
- Caspian Sea	0.71	0.94	0.17	0.15	6.9E-03	3.7E-03
- Mediterranean Sea	94.47	87.37	15.60	9.45	2.9E-01	1.9E-01
- North Sea	0.80	1.65	0.09	0.25	2.0E-03	2.1E-03
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.34	0.28	36.60	13.62	197.8	15.88

^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