

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	2753	171	25	6.9	14	4.2
Deposition to the country						
Total deposition to the country, t	1793.00	259.00	19.10	6.57	5.86	4.39
- Anthropogenic deposition from national sources, t	987.64	54.30	9.11	2.06	1.59	0.41
- Anthropogenic deposition from other countries, t	304.65	12.40	1.59	0.68	0.32	0.12
- Intercontinental transport (non-EMEP sources), t	78.29	36.30	1.11	1.07	3.75	3.67
- Secondary sources (wind re-suspension), t	422.42	156.00	7.28	2.76	0.20	0.19
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	552.63	29.50	4.79	1.12	0.63	0.17
Deposition to the regional seas (Pb - t, Cd, Hg - kg):						
- Baltic Sea	9.26	0.65	78.73	22.80	10.48	3.67
- Black Sea	4.12	0.33	34.87	11.80	4.99	1.56
- Caspian Sea	0.73	0.04	6.99	1.33	1.76	0.38
- Mediterranean Sea	308.63	16.70	2664.88	750.00	392.47	100.00
- North Sea	40.11	2.28	361.50	88.70	40.93	14.80
Mean annual air concentrations, ng/m ³	20.18	1.86	0.16	0.04	1.62	1.46

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	
	57 ^b	39 ^b	181	115	326	3.8
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	22655.1	13760.2	7693.4	2188.4	11676.5	930.4
- Anthropogenic deposition from national sources	17365.3	10208.2	510.6	326.6	101.7	0.9
- Anthropogenic deposition from other countries	1724.5	1554.7	575.7	129.2	43.1	2.1
- Intercontinental transport (global sources) ^c	0.0	0.0	1092.1	502.3	5247.0	475.5
- Secondary sources (re-volatilization) ^d	3565.3	1997.3	5541.4	1230.4	6284.6	451.9
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	2131.5	1627.3	155.5	83.1	29.0	0.4
Deposition to the regional seas						
- Baltic Sea	30.91	27.51	1.59	0.62	1.1E-01	1.4E-03
- Black Sea	2.51	2.88	0.52	0.44	1.1E-01	1.7E-03
- Caspian Sea	0.21	0.32	0.13	0.12	5.8E-02	7.3E-04
- Mediterranean Sea	598.13	847.05	32.98	16.16	6.6E+00	1.3E-01
- North Sea	88.75	61.44	4.86	2.15	2.5E-01	2.7E-03
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.30	0.17	9.07	3.17	177.2	13.14

^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