

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	4736*	713*	12*	23*	21*	20*
Deposition to the country						
Total deposition to the country, t	4574.90	1510.00	61.95	49.40	23.96	21.70
- Anthropogenic deposition from national sources, t	1790.12	271.00	4.83	9.31	3.25	3.15
- Anthropogenic deposition from other countries, t	1258.00	70.50	14.39	4.61	2.17	0.95
- Intercontinental transport (non-EMEP sources), t	275.47	227.00	4.92	7.25	17.93	17.00
- Secondary sources (wind re-suspension), t	1251.31	943.00	37.80	28.30	0.60	0.59
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	2007.60	276.00	5.01	8.90	2.20	1.89
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.47	0.13	1.03	3.96	0.97	1.29
- Black Sea	2.97	0.98	5.51	28.40	1.96	4.36
- Caspian Sea	29.48	4.58	104.14	145.00	65.38	41.00
- Mediterranean Sea	0.71	0.31	1.14	9.37	0.97	2.13
- North Sea	0.15	0.02	0.42	0.63	0.59	0.78
Mean annual air concentrations, ng/m ³	12.43	4.08	0.12	0.12	1.51	1.43

* expert estimates

POP emissions and pollution levels in 1990 and 2013

	B[a]P		PCDD/Fs		HCB	
	1990	2013	1990	2013	1990	2013
Emissions ^b	t		g TEQ ^a		kg	
	14	19	288	314	1.1	1.1
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	5995.6	7361.7	13450.0	5047.0	57997.1	4418.2
- Anthropogenic deposition from national sources	3479.3	4650.5	758.6	864.4	0.3	0.3
- Anthropogenic deposition from other countries	1968.3	2052.5	850.0	559.3	66.3	13.0
- Intercontinental transport (global sources) ^c	0.0	0.0	1651.7	791.8	17124.7	1444.4
- Secondary sources (re-volatilization) ^d	547.9	658.6	10168.2	2831.5	40805.7	2960.5
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	1656.2	2336.8	122.1	128.1	0.1	0.1
Deposition to the regional seas						
- Baltic Sea	0.89	1.15	0.15	0.22	7.2E-05	7.3E-05
- Black Sea	1.15	2.56	0.39	0.53	1.6E-04	4.0E-04
- Caspian Sea	25.40	24.28	5.13	4.78	1.6E-03	1.9E-03
- Mediterranean Sea	0.23	0.28	0.25	0.23	1.8E-04	4.7E-04
- North Sea	0.41	0.81	0.05	0.16	2.9E-05	2.9E-05
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.04	0.04	7.43	5.31	192.7	15.07

^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