

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	1870*	185*	3.4*	3.3*	6.0*	5.9*
Deposition to the country						
Total deposition to the country, t	839.66	237.00	6.42	7.51	3.13	3.33
- Anthropogenic deposition from national sources, t	323.58	25.40	0.64	0.50	0.42	0.34
- Anthropogenic deposition from other countries, t	288.44	21.30	0.81	0.78	0.27	0.27
- Intercontinental transport (non-EMEP sources), t	80.04	87.30	1.23	3.53	2.34	2.63
- Secondary sources (wind re-suspension), t	147.61	103.00	3.74	2.70	0.10	0.10
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	921.70	90.40	1.58	1.60	0.51	0.55
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.02	0.03	0.02	0.38	0.03	0.17
- Black Sea	0.31	0.17	0.46	1.83	0.12	0.46
- Caspian Sea	15.29	1.87	29.52	25.60	5.51	6.17
- Mediterranean Sea	0.05	0.03	0.07	0.36	0.07	0.20
- North Sea	0.01	0.01	0.01	0.06	0.04	0.12
Mean annual air concentrations, ng/m ³	28.54	6.72	0.16	0.18	1.57	1.57

* 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	
	0.920	0.920	132	132	1.0	1.0
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	560.4	640.0	4497.7	1558.4	6041.3	486.6
- Anthropogenic deposition from national sources	135.3	129.8	252.3	277.0	0.2	0.2
- Anthropogenic deposition from other countries	388.8	466.9	158.7	146.7	8.2	1.9
- Intercontinental transport (global sources) ^c	0.0	0.0	320.1	153.5	2353.4	203.8
- Secondary sources (re-volatilization) ^d	36.2	43.3	3766.0	981.2	3679.5	280.8
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	125.6	128.6	187.2	168.0	0.1	0.1
Deposition to the regional seas						
- Baltic Sea	0.01	0.02	0.02	0.06	1.0E-05	2.9E-05
- Black Sea	0.03	0.05	0.08	0.14	2.3E-05	8.1E-05
- Caspian Sea	0.71	0.60	1.17	1.08	4.8E-04	7.2E-04
- Mediterranean Sea	0.01	0.00	0.07	0.05	2.7E-05	8.8E-05
- North Sea	0.00	0.01	0.01	0.04	6.0E-06	1.5E-05
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.02	0.03	11.00	8.44	168.8	13.78

^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