

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	379*	2.1*	2.6*	2.7*	4.6*	4.9*
Deposition to the country						
Total deposition to the country, t	926.26	200.00	6.58	6.05	3.38	2.76
- Anthropogenic deposition from national sources, t	133.81	0.57	0.85	0.78	0.18	0.19
- Anthropogenic deposition from other countries, t	566.35	46.70	1.14	1.22	0.36	0.32
- Intercontinental transport (non-EMEP sources), t	79.97	59.10	1.67	1.99	2.77	2.20
- Secondary sources (wind re-suspension), t	146.13	93.30	2.92	2.05	0.07	0.07
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	117.31	0.70	0.73	0.91	0.14	0.18
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.001	0.00	0.01	0.07	0.01	0.05
- Black Sea	0.02	0.001	0.14	0.58	0.03	0.10
- Caspian Sea	0.23	0.004	1.50	4.93	0.32	0.56
- Mediterranean Sea	0.004	0.00	0.03	0.08	0.02	0.07
- North Sea	0.001	0.00	0.004	0.02	0.01	0.05
Mean annual air concentrations, ng/m ³	12.67	3.44	0.09	0.10	1.13	1.21

* 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	
	4.1	5.4	62	76	0.665	0.665
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	921.4	1095.8	2404.9	841.5	3720.6	278.2
- Anthropogenic deposition from national sources	625.8	788.2	123.7	150.7	0.2	0.1
- Anthropogenic deposition from other countries	231.9	225.0	141.0	100.5	2.6	0.6
- Intercontinental transport (global sources) ^c	0.0	0.0	325.0	130.0	1850.4	143.0
- Secondary sources (re-volatilization) ^d	63.8	82.6	1813.1	460.3	1867.5	134.4
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	399.1	612.8	62.9	101.6	0.1	0.1
Deposition to the regional seas						
- Baltic Sea	0.00	0.05	0.00	0.02	2.5E-06	9.4E-06
- Black Sea	0.04	0.04	0.02	0.03	2.8E-06	1.7E-05
- Caspian Sea	0.21	0.28	0.08	0.13	1.7E-05	9.4E-05
- Mediterranean Sea	0.01	0.01	0.01	0.01	4.1E-06	1.9E-05
- North Sea	0.00	0.05	0.00	0.02	1.8E-06	4.7E-06
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.05	0.07	8.23	7.11	127.8	10.89

^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