

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	6.9*	0.454	0.210*	0.012	0.253*	0.321*
Deposition to the country						
Total deposition to the country, t	105.35	58.00	2.20	1.70	1.12	1.18
- Anthropogenic deposition from national sources, t	1.90	0.11	0.06	0.00	0.02	0.02
- Anthropogenic deposition from other countries, t	38.45	3.65	0.67	0.29	0.13	0.10
- Intercontinental transport (non-EMEP sources), t	25.35	14.80	0.32	0.36	0.93	1.01
- Secondary sources (wind re-suspension), t	39.64	39.50	1.15	1.05	0.04	0.05
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	3.42	0.23	0.10	0.01	0.02	0.03
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.001	0.00	0.03	0.00	0.01	0.04
- Black Sea	0.37	0.02	8.74	0.65	2.07	3.93
- Caspian Sea	0.26	0.02	9.06	0.42	2.15	2.22
- Mediterranean Sea	0.05	0.003	1.25	0.08	0.21	0.33
- North Sea	0.0003	0.00	0.01	0.001	0.01	0.02
Mean annual air concentrations, ng/m ³	2.87	1.08	0.06	0.04	1.40	1.32

* expert estimates

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	
	0.081 ^b	0.149	0.110 ^b	0.199	0.003 ^b	0.003 ^b
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	264.8	274.9	952.3	382.6	2416.2	181.8
- Anthropogenic deposition from national sources	15.8	28.2	0.3	0.5	0.0	0.0
- Anthropogenic deposition from other countries	214.0	209.9	70.5	87.9	3.7	1.6
- Intercontinental transport (global sources) ^c	0.0	0.0	88.2	44.6	737.5	63.7
- Secondary sources (re-volatilization) ^d	35.0	36.9	796.2	249.5	1675.0	116.6
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	8.4	14.1	0.2	0.5	0.0	0.0
Deposition to the regional seas						
- Baltic Sea	0.01	0.01	0.00	0.00	2.2E-07	3.1E-07
- Black Sea	0.85	1.54	0.02	0.03	3.7E-05	3.5E-05
- Caspian Sea	0.24	0.58	0.01	0.02	6.4E-06	6.4E-06
- Mediterranean Sea	0.03	0.03	0.00	0.00	5.3E-06	6.7E-06
- North Sea	0.00	0.00	0.00	0.00	1.0E-07	1.9E-07
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.03	0.02	6.52	5.99	198.1	15.38

^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