

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	6.4*	0.196*	0.166*	0.086*	0.048*	0.105*
Deposition to the country						
Total deposition to the country, t	38.77	19.00	0.84	0.60	0.96	0.93
- Anthropogenic deposition from national sources, t	1.30	0.04	0.03	0.02	0.003	0.01
- Anthropogenic deposition from other countries, t	11.20	0.57	0.09	0.02	0.03	0.01
- Intercontinental transport (non-EMEP sources), t	3.58	3.93	0.12	0.13	0.91	0.90
- Secondary sources (wind re-suspension), t	22.70	14.40	0.60	0.43	0.02	0.02
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	0.28	0.01	0.01	0.00	0.001	0.00
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.01	0.00	0.34	0.11	0.03	0.05
- Black Sea	0.001	0.00	0.04	0.02	0.01	0.01
- Caspian Sea	0.0004	0.00	0.01	0.004	0.005	0.01
- Mediterranean Sea	0.005	0.00	0.12	0.07	0.02	0.05
- North Sea	0.13	0.002	3.20	0.97	0.20	0.27
Mean annual air concentrations, ng/m ³	0.52	0.22	0.01	0.01	1.52	1.39

* 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	
	0.004	0.007	13	0.950 ^b	0.077	0.024
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	390.5	164.9	742.4	251.9	1864.0	145.7
- Anthropogenic deposition from national sources	0.9	1.7	22.8	2.2	0.0	0.0
- Anthropogenic deposition from other countries	351.9	143.7	72.1	18.6	5.4	0.1
- Intercontinental transport (global sources) ^c	0.0	0.0	450.8	175.0	1206.9	99.5
- Secondary sources (re-volatilization) ^d	37.7	19.5	198.5	56.1	651.7	46.1
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	0.2	0.3	6.1	0.5	0.0	0.0
Deposition to the regional seas						
- Baltic Sea	5.67E-03	8.17E-03	1.40E-01	1.03E-02	1.7E-04	4.5E-05
- Black Sea	5.19E-04	9.63E-04	2.75E-02	4.07E-03	4.3E-05	1.0E-05
- Caspian Sea	9.26E-05	2.29E-04	8.93E-03	7.11E-04	1.8E-05	5.1E-06
- Mediterranean Sea	8.26E-04	2.07E-03	1.31E-01	1.30E-02	1.5E-04	4.6E-05
- North Sea	1.71E-02	2.32E-02	3.77E-01	2.57E-02	3.6E-04	7.7E-05
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.01	0.00	2.53	0.78	172.1	13.95

^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