

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	11	12	0.209*	0.209*	0.348*	0.348*
Deposition to the country						
Total deposition to the country, t	52.30	33.9	1.02	0.92	0.50	0.48
- Anthropogenic deposition from national sources, t	2.19	2.94	0.04	0.05	0.02	0.02
- Anthropogenic deposition from other countries, t	10.66	1.07	0.20	0.09	0.04	0.03
- Intercontinental transport (non-EMEP sources), t	21.44	9.73	0.23	0.22	0.42	0.4
- Secondary sources (wind re-suspension), t	18.01	20.2	0.54	0.56	0.02	0.02
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	5.64	5.94	0.11	0.10	0.03	0.03
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.001	0.00	0.02	0.06	0.01	0.03
- Black Sea	0.12	0.15	2.24	2.43	0.51	0.56
- Caspian Sea	0.46	0.42	9.01	7.30	2.44	2.14
- Mediterranean Sea	0.12	0.09	2.03	1.38	0.41	0.33
- North Sea	0.0004	0.00	0.01	0.01	0.01	0.02
Mean annual air concentrations, ng/m ³	3.27	1.98	0.06	0.05	1.28	1.24

* expert estimates

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	B[a]P		PCDD/Fs		HCB	
	1990	2013	1990	2013	1990	2013
Emissions ^b	t		g TEQ ^a		kg	
	2.0	6E-05	2.1	2.8	0.005	0.005
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	515.9	56.6	453.0	208.3	865.6	68.6
- Anthropogenic deposition from national sources	395.4	0.0	4.3	5.7	0.0	0.0
- Anthropogenic deposition from other countries	61.9	48.5	18.7	46.9	1.0	0.4
- Intercontinental transport (global sources) ^c	0.0	0.0	43.3	19.5	317.0	27.0
- Secondary sources (re-volatilization) ^d	58.6	8.1	386.8	136.2	547.6	41.2
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	190.6	0.0	3.4	4.6	0.0	0.0
Deposition to the regional seas						
- Baltic Sea	0.09	0.00	0.00	0.00	2.1E-07	3.2E-07
- Black Sea	1.28	0.00	0.02	0.03	6.8E-06	9.9E-06
- Caspian Sea	4.64	0.00	0.05	0.09	7.6E-06	7.9E-06
- Mediterranean Sea	0.58	0.00	0.04	0.03	6.4E-06	8.0E-06
- North Sea	0.07	0.00	0.00	0.00	1.0E-07	2.0E-07
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.16	0.02	5.81	7.38	160.3	12.74

^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