

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	77	1.9*	0.600	0.047*	0.300	0.288*
Deposition to the country						
Total deposition to the country, t	25	2.91	0.27	0.07	0.11	0.05
- Anthropogenic deposition from national sources, t	5.19	0.13	0.04	0.00	0.02	0.01
- Anthropogenic deposition from other countries, t	15	0.75	0.13	0.02	0.07	0.01
- Intercontinental transport (non-EMEP sources), t	0.18	0.13	0.10	0.04	0.001	0.00
- Secondary sources (wind re-suspension), t	4.64	1.90	0.004	0.004	0.02	0.02
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	56.7	1.35	0.45	0.04	0.11	0.06
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	1.66	0.05	0.01	0.001	0.002	0.001
- Black Sea	0.18	0.002	0.001	0.00	0.00	0.00
- Caspian Sea	0.03	0.00	0.00	0.00	0.00	0.00
- Mediterranean Sea	1.06	0.03	0.01	0.001	0.002	0.001
- North Sea	3.4	0.11	0.03	0.003	0.005	0.003
Mean annual air concentrations, ng/m ³	45.2	4.40	0.40	0.10	1.79	1.44

* expert estimates

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	B[a]P		PCDD/Fs		HCB		PCB-153	
	1990	2012	1990	2012	1990	2012	1990	2012
Emissions	t		g TEQ ^a		kg		kg	
	0.4	0.259 ^b	46	1.1 ^b	0.197	0.523 ^b	9.0 ^b	1.7 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	223.7	126.7	163.8	21.69	118.5	13.1	18.41	3.76
- Anthropogenic deposition from national sources	22.1	15.8	37.16	0.87	0.02	0.05	1.32	0.25
- Anthropogenic deposition from other countries	185.6	95.77	58.67	5.18	1.90	0.10	6.42	1.07
- Intercontinental transport (global sources) ^c	-	-	1.64	0.73	31.8	4.0	0.83	0.11
- Secondary sources (re-volatilization) ^d	15.97	15.13	66.33	14.90	84.7	9.0	9.85	2.33
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	160.7	135.2	171.12	4.01	0.10	0.26	6.40	1.19
Deposition to the regional seas								
- Baltic Sea	3.25	2.76	1.63	0.03	3.8E-04	1.2E-03	2.8E-02	5.7E-03
- Black Sea	0.34	0.33	0.30	0.01	1.2E-04	3.1E-04	4.5E-03	7.0E-04
- Caspian Sea	0.04	0.05	0.06	0.00	4.3E-05	1.4E-04	1.3E-03	2.3E-04
- Mediterranean Sea	0.72	2.70	1.20	0.05	1.0E-03	2.3E-03	3.0E-02	6.4E-03
- North Sea	3.75	5.86	2.06	0.07	6.0E-04	1.8E-03	4.2E-02	1.1E-02
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.65	0.39	152.2	0.02	269.9	30.41	15.13	3.21

^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