

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	309	3.6*	0.080	0.067*	0.073	0.087*
Deposition to the country						
Total deposition to the country, t	137	16.02	0.95	0.38	0.32	0.24
- Anthropogenic deposition from national sources, t	62.9	0.68	0.01	0.01	0.03	0.01
- Anthropogenic deposition from other countries, t	44.4	4.76	0.37	0.13	0.10	0.04
- Intercontinental transport (non-EMEP sources), t	2.77	1.46	0.52	0.20	0.01	0.00
- Secondary sources (wind re-suspension), t	26.8	9.12	0.04	0.03	0.19	0.18
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	154	1.79	0.05	0.04	0.06	0.02
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.77	0.01	0.00	0.00	0.00	0.00
- Black Sea	3.77	0.04	0.001	0.001	0.001	0.00
- Caspian Sea	0.2	0.00	0.00	0.00	0.00	0.00
- Mediterranean Sea	43.6	0.51	0.01	0.01	0.01	0.003
- North Sea	0.68	0.003	0.00	0.00	0.00	0.00
Mean annual air concentrations, ng/m ³	28.9	2.04	0.10	0.05	1.52	1.30

* 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	
	3.7	3.4 ^b	2.6	2.8 ^b	59	9.6 ^b	1.9 ^b	0.250 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	1061.9	1317.4	143.0	94.53	696.4	81.8	24.32	5.44
- Anthropogenic deposition from national sources	182.3	562.5	4.16	4.45	12.86	1.97	0.57	0.07
- Anthropogenic deposition from other countries	777.5	567.2	48.72	26.80	2.09	1.07	4.29	0.71
- Intercontinental transport (global sources) ^c	-	-	8.23	5.88	185.2	24.1	3.42	0.50
- Secondary sources (re-volatilization) ^d	102.1	187.7	81.90	57.40	496.2	54.6	16.04	4.15
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	688.0	786.4	5.97	6.13	16.50	2.63	0.92	0.12
Deposition to the regional seas								
- Baltic Sea	1.77	3.79	0.01	0.02	8.8E-03	1.4E-03	9.7E-04	1.1E-04
- Black Sea	4.01	9.19	0.03	0.05	5.4E-02	1.1E-02	2.7E-03	4.9E-04
- Caspian Sea	0.09	0.87	0.00	0.01	1.6E-02	2.6E-03	6.5E-04	8.7E-05
- Mediterranean Sea	58.50	122.4	0.82	0.86	1.6E+00	2.5E-01	7.1E-02	9.8E-03
- North Sea	0.28	1.46	0.01	0.01	7.9E-03	9.9E-04	4.6E-04	5.1E-05
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.48	0.40	16.06	0.01	220.1	27.57	2.48	0.62

^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