

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	11	31	0.209*	0.209*	0.348*	0.348*
Deposition to the country						
Total deposition to the country, t	64.8	30.84	1.24	0.77	0.55	0.45
- Anthropogenic deposition from national sources, t	2.19	5.94	0.04	0.04	0.05	0.02
- Anthropogenic deposition from other countries, t	11.2	1.93	0.20	0.14	0.07	0.04
- Intercontinental transport (non-EMEP sources), t	22.6	10.50	0.75	0.38	0.01	0.01
- Secondary sources (wind re-suspension), t	28.8	12.46	0.25	0.20	0.42	0.38
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	5.67	16.40	0.11	0.11	0.08	0.03
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0	0.01	0.02	0.06	0.03	0.05
- Black Sea	0.11	0.80	2.10	5.30	1.13	1.05
- Caspian Sea	0.47	1.20	9.06	8.29	5.64	2.08
- Mediterranean Sea	0.11	0.23	2.01	1.47	0.99	0.40
- North Sea	0	0.01	0.01	0.03	0.04	0.05
Mean annual air concentrations, ng/m ³	3.72	2.93	0.06	0.05	1.31	1.14

* expert estimates

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	B[a]P		PCDD/Fs		HCB		PCB-153	
	1990	2012	1990	2012	1990	2012	1990	2012
Emissions ^b	t		g TEQ ^a		kg		kg	
	2.0	6E-05	2.1	2.8	0.005	0.005	14	3.4
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	412.1	238.7	209.58	192.1	1153.2	138.1	33.76	8.62
- Anthropogenic deposition from national sources	268.9	0.0	5.33	5.31	0.00	0.00	5.46	1.31
- Anthropogenic deposition from other countries	98.01	171.14	43.00	34.96	1.14	0.33	2.41	0.46
- Intercontinental transport (global sources) ^c	-	-	12.83	9.42	300.6	41.7	4.81	0.85
- Secondary sources (re-volatilization) ^d	45.27	67.58	148.4	142.4	851.4	96.0	21.08	6.00
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	203.4	0.0	5.02	5.06	0.00	0.00	4.76	1.19
Deposition to the regional seas								
- Baltic Sea	0.10	0.00	0.00	0.01	2.2E-07	1.9E-07	7.4E-04	7.4E-04
- Black Sea	1.52	0.00	0.04	0.06	7.0E-06	1.4E-05	1.9E-02	9.1E-03
- Caspian Sea	5.47	0.00	0.09	0.08	8.0E-06	7.3E-06	5.6E-02	1.3E-02
- Mediterranean Sea	0.80	0.00	0.05	0.05	6.6E-06	1.1E-05	1.8E-02	6.0E-03
- North Sea	0.05	0.00	0.00	0.01	1.1E-07	1.4E-07	2.9E-04	3.6E-04
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.17	0.05	10.81	0.01	220.81	27.25	2.01	0.51

^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