

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	97*	24*	1.7*	1.6*	2.0*	1.8*
Deposition to the country						
Total deposition to the country, t	329	64.21	3.84	2.02	1.45	1.06
- Anthropogenic deposition from national sources, t	27.7	6.60	0.55	0.50	0.35	0.35
- Anthropogenic deposition from other countries, t	212	15.74	1.64	0.51	0.47	0.13
- Intercontinental transport (non-EMEP sources), t	6.51	4.03	1.54	0.91	0.02	0.02
- Secondary sources (wind re-suspension), t	82.2	37.84	0.11	0.10	0.62	0.56
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	45.9	10.87	0.75	0.67	0.32	0.28
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.29	0.08	0.005	0.004	0.002	0.002
- Black Sea	1.01	0.19	0.02	0.01	0.01	0.004
- Caspian Sea	0.06	0.02	0.001	0.001	0.001	0.001
- Mediterranean Sea	11.3	2.79	0.18	0.17	0.06	0.06
- North Sea	0.26	0.03	0.004	0.002	0.002	0.001
Mean annual air concentrations, ng/m ³	17.3	2.97	0.18	0.10	1.65	1.41

* 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	
	4.8	2.7	67	44	0.001	0.001	7.5	0.972
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	2007.4	2588.2	795.9	516.3	2789.0	319.9	95.73	22.89
- Anthropogenic deposition from national sources	890.0	591.0	145.5	100.7	0.00	0.00	3.53	0.45
- Anthropogenic deposition from other countries	896.4	1623.2	196.9	102.8	12.71	3.28	14.99	2.64
- Intercontinental transport (global sources) ^c	-	-	26.95	19.90	667.6	86.0	11.14	1.71
- Secondary sources (re-volatilization) ^d	221.1	374.0	426.60	292.85	2108.7	230.6	66.07	18.10
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	834.9	780.8	130.65	81.75	0.00	0.00	2.48	0.33
Deposition to the regional seas								
- Baltic Sea	5.41	6.58	0.47	0.39	2.3E-07	2.8E-07	4.4E-03	5.6E-04
- Black Sea	6.91	11.38	0.79	0.61	1.1E-06	1.5E-06	9.4E-03	1.7E-03
- Caspian Sea	0.21	1.32	0.10	0.08	3.4E-07	4.1E-07	2.3E-03	3.4E-04
- Mediterranean Sea	123.4	174.0	17.11	12.53	3.2E-05	3.1E-05	2.4E-01	3.3E-02
- North Sea	1.06	2.80	0.17	0.15	2.1E-07	2.0E-07	2.3E-03	2.5E-04
Mean annual air concentrations								
	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.31	0.29	32.07	0.02	236.5	28.55	3.08	0.78

^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