

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	1870*	185*	3.4*	3.3*	6.0*	5.9*
Deposition to the country						
Total deposition to the country, t	895	261.77	7.64	6.15	3.33	2.74
- Anthropogenic deposition from national sources, t	322	33.67	0.64	0.67	0.66	0.39
- Anthropogenic deposition from other countries, t	288	38.19	0.84	0.54	0.53	0.21
- Intercontinental transport (non-EMEP sources), t	29.9	64.81	4.91	3.21	0.05	0.05
- Secondary sources (wind re-suspension), t	204	125.10	1.25	1.73	2.08	2.09
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	916	85.07	1.57	1.46	0.88	0.44
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.30	0.28	0.00	0.005	0.000	0.001
- Black Sea	0.05	0.07	0.00	0.001	0.001	0.001
- Caspian Sea	0.01	0.02	0.00	0.00	0.001	0.00
- Mediterranean Sea	0.02	0.03	0.00	0.00	0.000	0.00
- North Sea	15.8	3.22	0.03	0.06	0.01	0.01
Mean annual air concentrations, ng/m ³	30.1	6.51	0.19	0.12	1.58	1.39

* 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	
	0.920	0.920	132	132	1.0	1.0	50	12
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	650.4	1431.7	1277.9	1157.2	7494.1	915.4	207.3	49.83
- Anthropogenic deposition from national sources	129.3	155.4	259.6	248.3	0.18	0.18	19.06	4.63
- Anthropogenic deposition from other countries	463.2	1099.8	169.6	158.9	10.17	2.30	15.14	3.32
- Intercontinental transport (global sources) ^c	-	-	91.92	68.78	2247.7	312.4	36.00	6.03
- Secondary sources (re-volatilization) ^d	57.97	176.5	756.8	681.3	5236.1	600.6	137.0	35.85
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	117.6	248.3	233.8	248.1	0.19	0.15	16.40	4.28
Deposition to the regional seas								
- Baltic Sea	0.01	0.42	0.02	0.27	1.1E-05	1.6E-05	6.4E-04	1.4E-03
- Black Sea	0.03	1.12	0.08	0.71	2.4E-05	1.2E-04	2.5E-03	5.3E-03
- Caspian Sea	0.87	5.09	1.19	2.80	5.1E-04	7.3E-04	7.7E-02	3.5E-02
- Mediterranean Sea	0.01	1.47	0.06	1.01	2.9E-05	1.2E-04	1.6E-03	4.1E-03
- North Sea	0.004	0.24	0.01	0.14	6.4E-06	1.1E-05	2.9E-04	6.1E-04
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.02	0.04	10.35	0.01	211.4	25.34	2.02	0.47

^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