

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	235	115	4.4	2.0	2.9	1.7
Deposition to the country						
Total deposition to the country, t	385	102.55	5.86	2.65	1.74	1.19
- Anthropogenic deposition from national sources, t	64.5	31.32	1.34	0.60	0.42	0.30
- Anthropogenic deposition from other countries, t	207	18.72	2.11	0.67	0.62	0.20
- Intercontinental transport (non-EMEP sources), t	6.52	4.29	2.29	1.27	0.03	0.02
- Secondary sources (wind re-suspension), t	107	48.22	0.12	0.11	0.67	0.67
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	124	58.50	2.27	0.98	0.45	0.27
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	4.4	1.77	0.08	0.03	0.01	0.01
- Black Sea	16.2	8.79	0.28	0.14	0.04	0.03
- Caspian Sea	0.548	0.12	0.01	0.002	0.002	0.001
- Mediterranean Sea	0.842	0.38	0.01	0.01	0.003	0.001
- North Sea	0.208	0.10	0.003	0.002	0.001	0.00
Mean annual air concentrations, ng/m ³	15.8	5.54	0.26	0.12	1.68	1.43

POP emissions and pollution levels in 1990 and 2012

	B[a]P		PCDD/Fs		HCB		PCB-153	
	1990	2012	1990	2012	1990	2012	1990	2012
Emissions	t		g TEQ ^a		kg		kg	
	6.1	3.8	27	17	0.105	65	26 ^b	3.4 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	3064.7	6255.9	1200.6	693.4	4265.5	525.8	129.8	32.09
- Anthropogenic deposition from national sources	994.6	1147.1	66.59	48.70	0.83	20.08	13.12	1.64
- Anthropogenic deposition from other countries	1701.2	4165.6	408.3	151.5	18.60	4.03	17.09	2.91
- Intercontinental transport (global sources) ^c	-	-	34.31	24.60	887.0	114.4	13.26	2.05
- Secondary sources (re-volatilization) ^d	368.9	943.3	691.4	468.5	3359.1	387.3	86.30	25.49
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	1509.3	1105.6	57.01	38.36	0.63	15.29	8.64	1.14
Deposition to the regional seas								
- Baltic Sea	5.10	7.66	0.21	0.17	4.9E-04	1.2E-02	1.6E-02	1.8E-03
- Black Sea	11.53	17.55	0.59	0.44	3.1E-03	9.8E-02	4.9E-02	7.6E-03
- Caspian Sea	0.27	1.42	0.06	0.04	7.3E-04	2.0E-02	8.1E-03	1.1E-03
- Mediterranean Sea	168.3	104.7	4.00	3.55	3.7E-02	8.8E-01	4.0E-01	6.3E-02
- North Sea	0.81	2.80	0.06	0.07	3.3E-04	7.7E-03	5.7E-03	7.5E-04
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.32	0.54	32.87	0.01	266.2	34.60	3.12	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