

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	559	179	6.0	2.4	3.4	1.6
Deposition to the country						
Total deposition to the country, t	296	73.93	2.71	1.26	1.23	0.79
- Anthropogenic deposition from national sources, t	141	42.12	1.03	0.58	0.50	0.15
- Anthropogenic deposition from other countries, t	66.6	4.36	0.57	0.23	0.12	0.02
- Intercontinental transport (non-EMEP sources), t	16.8	6.87	0.86	0.30	0.02	0.02
- Secondary sources (wind re-suspension), t	71	20.58	0.25	0.15	0.59	0.60
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	98.9	31.62	0.56	0.32	0.35	0.06
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.382	0.10	0.003	0.001	0.01	0.00
- Black Sea	10.7	4.28	0.07	0.05	0.05	0.01
- Caspian Sea	6.17	1.16	0.03	0.01	0.01	0.002
- Mediterranean Sea	1.11	0.34	0.01	0.003	0.004	0.001
- North Sea	0.08	0.02	0.001	0.00	0.002	0.00
Mean annual air concentrations, ng/m ³	19.5	5.43	0.14	0.07	1.64	1.39

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	
	0.020 ^b	0.020 ^b	54	29	1.9	0.919	35 ^b	4.6 ^b
Deposition to the country	kg		g TEQ		kg		kg	
Total deposition to the country	4844.4	5021.1	688.3	221.3	2422.9	268.0	158.7	24.61
- Anthropogenic deposition from national sources	3184.5	3778.8	33.69	20.72	0.27	0.22	15.01	1.98
- Anthropogenic deposition from other countries	362.1	303.3	50.41	16.14	11.28	0.16	18.42	2.48
- Intercontinental transport (global sources) ^c	-	-	61.10	38.71	1009.2	134.5	32.97	3.64
- Secondary sources (re-volatilization) ^d	1297.8	939.0	543.1	145.7	1402.1	133.1	92.32	16.52
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	791.7	1264.2	12.21	5.50	0.12	0.11	4.93	0.65
Deposition to the regional seas								
- Baltic Sea	11.14	7.94	0.10	0.02	2.5E-04	2.3E-04	2.4E-02	1.7E-03
- Black Sea	0.58	2.02	0.02	0.01	1.9E-04	2.1E-04	5.2E-03	6.9E-04
- Caspian Sea	0.07	0.29	0.01	0.00	1.1E-04	1.1E-04	2.8E-03	2.9E-04
- Mediterranean Sea	12.99	59.84	0.33	0.19	4.5E-03	4.4E-03	1.2E-01	1.8E-02
- North Sea	41.78	33.25	0.31	0.07	6.1E-04	4.4E-04	6.3E-02	5.6E-03
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.31	0.35	8.55	0.00	197.0	20.54	3.57	0.58

^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