

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	369	24	3.8	1.3	6.6	0.878
Deposition to the country						
Total deposition to the country, t	304	46.11	2.46	1.09	1.78	0.75
- Anthropogenic deposition from national sources, t	81.1	5.87	0.94	0.33	0.94	0.08
- Anthropogenic deposition from other countries, t	177	10.64	0.85	0.31	0.36	0.11
- Intercontinental transport (non-EMEP sources), t	3.61	3.52	0.58	0.37	0.01	0.01
- Secondary sources (wind re-suspension), t	42	26.08	0.07	0.09	0.47	0.56
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	213	13.98	2.31	0.74	1.76	0.13
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	4.2	0.38	0.04	0.02	0.03	0.003
- Black Sea	1.58	0.05	0.02	0.003	0.01	0.00
- Caspian Sea	0.22	0.01	0.00	0.00	0.00	0.00
- Mediterranean Sea	15.5	1.37	0.16	0.07	0.08	0.01
- North Sea	5.72	0.45	0.06	0.02	0.04	0.003
Mean annual air concentrations, ng/m ³	24.5	2.94	0.18	0.07	1.61	1.26

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	
	6.6	2.0	201	18	0.173	0.231	104 ^b	16 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	1489.1	1219.4	938.3	210.2	1331.6	158.9	180.5	38.54
- Anthropogenic deposition from national sources	846.1	580.3	314.0	23.76	6.65	0.05	38.36	5.72
- Anthropogenic deposition from other countries	572.5	520.4	146.6	31.67	11.51	0.57	31.18	5.18
- Intercontinental transport (global sources) ^c	-	-	28.75	17.07	449.8	62.6	14.10	2.07
- Secondary sources (re-volatilization) ^d	70.50	118.7	448.9	137.7	863.6	95.7	96.86	25.57
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	1642.8	1200.1	475.28	30.86	10.53	0.07	48.13	6.97
Deposition to the regional seas								
- Baltic Sea	21.56	16.48	3.32	0.18	2.1E-02	2.0E-04	1.4E-01	2.4E-02
- Black Sea	5.25	5.93	1.51	0.10	1.9E-02	1.5E-04	7.2E-02	9.7E-03
- Caspian Sea	0.35	0.81	0.25	0.02	8.2E-03	7.1E-05	2.2E-02	3.3E-03
- Mediterranean Sea	28.83	83.06	12.48	1.30	2.8E-01	2.0E-03	9.1E-01	1.7E-01
- North Sea	17.60	25.20	2.51	0.29	2.3E-02	1.6E-04	1.5E-01	2.7E-02
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.27	0.22	52.00	0.01	216.6	25.41	8.63	1.82

^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