

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	219	15	1.6	1.2	2.1	1.0
Deposition to the country						
Total deposition to the country, t	440	87.73	4.46	2.65	2.16	1.47
- Anthropogenic deposition from national sources, t	61.3	4.64	0.48	0.37	0.33	0.10
- Anthropogenic deposition from other countries, t	290	27.91	2.33	0.99	0.97	0.29
- Intercontinental transport (non-EMEP sources), t	5.04	6.16	1.56	1.13	0.03	0.02
- Secondary sources (wind re-suspension), t	83.8	49.02	0.10	0.16	0.84	1.06
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	128	7.95	0.90	0.65	0.49	0.12
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	2.5	0.27	17.04	19.29	8.07	3.17
- Black Sea	1.9	0.07	12.61	5.45	5.82	0.89
- Caspian Sea	0.24	0.01	1.60	0.53	1.24	0.19
- Mediterranean Sea	9.45	0.73	63.52	61.28	26.91	8.31
- North Sea	2	0.17	13.60	11.45	6.21	2.00
Mean annual air concentrations, ng/m ³	15.8	2.46	0.13	0.07	1.56	1.31

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	
	5.1 ^b	2.3 ^b	161	38	92	41	127 ^b	17 ^b
Deposition to the country	kg		g TEQ		kg		kg	
Total deposition to the country	3835.4	2607.7	1409.5	460.3	3067.9	393.7	269.4	62.68
- Anthropogenic deposition from national sources	1012.2	395.4	344.9	70.5	23.64	9.70	56.40	7.17
- Anthropogenic deposition from other countries	2518.1	1922.4	342.36	82.03	18.38	1.19	40.63	6.68
- Intercontinental transport (global sources) ^c	-	-	42.07	26.94	873.1	120.8	20.04	2.87
- Secondary sources (re-volatilization) ^d	305.1	290.0	680.2	280.8	2152.7	262.1	152.3	45.96
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	1188.7	740.8	369.5	77.56	28.22	11.91	50.97	6.55
Deposition to the regional seas								
- Baltic Sea	17.25	13.32	2.98	0.70	5.9E-02	3.3E-02	1.8E-01	2.9E-02
- Black Sea	7.00	6.43	2.09	0.37	8.7E-02	3.5E-02	1.4E-01	1.7E-02
- Caspian Sea	0.50	0.79	0.31	0.06	2.8E-02	1.4E-02	3.6E-02	4.5E-03
- Mediterranean Sea	35.01	63.08	14.43	4.20	9.0E-01	4.2E-01	1.3E+00	2.1E-01
- North Sea	7.64	10.93	1.23	0.52	4.4E-02	2.1E-02	9.3E-02	1.8E-02
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.34	0.22	41.48	0.01	241.58	30.83	6.42	1.44

^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