

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	205	34	4.4	0.578	1.1	0.555
Deposition to the country						
Total deposition to the country, t	131	22.58	2.93	0.85	0.70	0.51
- Anthropogenic deposition from national sources, t	39.3	3.54	0.98	0.07	0.08	0.04
- Anthropogenic deposition from other countries, t	62.8	6.12	1.18	0.44	0.24	0.04
- Intercontinental transport (non-EMEP sources), t	1.3	1.41	0.73	0.31	0.01	0.01
- Secondary sources (wind re-suspension), t	27.6	11.51	0.04	0.04	0.37	0.42
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	132	23.90	2.76	0.41	0.43	0.18
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	23.6	4.17	0.46	0.07	0.06	0.04
- Black Sea	0.61	0.07	0.01	0.001	0.002	0.00
- Caspian Sea	0.2	0.02	0.004	0.00	0.001	0.00
- Mediterranean Sea	0.46	0.04	0.01	0.001	0.002	0.00
- North Sea	0.57	0.16	0.01	0.002	0.002	0.001
Mean annual air concentrations, ng/m ³	8.57	0.95	0.16	0.03	1.60	1.38

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	
	3.6	4.5	5.7	4.0	0.060	0.185	6.9 ^b	1.7 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	1557.0	1590.7	242.0	120.3	1547.3	188.6	42.33	10.91
- Anthropogenic deposition from national sources	541.4	576.7	6.63	5.46	0.01	0.03	1.63	0.45
- Anthropogenic deposition from other countries	917.2	870.8	88.40	42.35	7.27	0.56	7.85	1.54
- Intercontinental transport (global sources) ^c	-	-	16.55	8.96	387.1	51.3	6.64	0.87
- Secondary sources (re-volatilization) ^d	98.38	143.2	130.4	63.51	1152.9	136.8	26.22	8.05
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	1143.1	1733.2	17.14	16.09	0.03	0.08	3.69	0.83
Deposition to the regional seas								
- Baltic Sea	190.0	364.9	2.38	2.95	2.2E-03	8.5E-03	5.5E-01	1.7E-01
- Black Sea	1.52	7.63	0.03	0.04	9.3E-05	2.1E-04	5.1E-03	1.3E-03
- Caspian Sea	0.69	1.46	0.02	0.01	3.3E-05	9.3E-05	2.5E-03	3.9E-04
- Mediterranean Sea	1.18	9.38	0.05	0.05	1.5E-04	2.6E-04	6.4E-03	1.5E-03
- North Sea	4.50	18.47	0.03	0.07	6.0E-05	2.7E-04	5.4E-03	2.5E-03
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.24	0.28	11.98	0.01	260.8	30.48	1.84	0.50

^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