

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	4415	258	10	6.7	12	8.4
Deposition to the country						
Total deposition to the country, t	2350	441.29	14.77	8.66	5.64	4.23
- Anthropogenic deposition from national sources, t	1370	84.57	2.81	2.20	1.60	0.99
- Anthropogenic deposition from other countries, t	397	30.09	3.19	1.06	1.09	0.24
- Intercontinental transport (non-EMEP sources), t	44.2	27.89	8.16	4.76	0.09	0.08
- Secondary sources (wind re-suspension), t	539	298.74	0.61	0.63	2.86	2.91
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	1230	75.51	2.61	1.93	1.02	0.58
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	11.2	1.11	0.02	0.03	0.01	0.01
- Black Sea	28.6	1.17	0.06	0.03	0.02	0.01
- Caspian Sea	2.49	0.13	0.01	0.003	0.004	0.002
- Mediterranean Sea	1050	54.52	2.76	1.45	0.95	0.42
- North Sea	16	1.08	0.03	0.03	0.01	0.01
Mean annual air concentrations, ng/m ³	50.9	7.76	0.21	0.11	1.64	1.40

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	
	24 ^b	19 ^b	458	222	43	13	547 ^b	115 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	6585.9	8995.8	4963.4	2211.9	9237.4	1090.3	792.6	187.9
- Anthropogenic deposition from national sources	4190.5	5029.2	978.3	510.5	12.69	4.41	224.3	45.91
- Anthropogenic deposition from other countries	1485.2	2617.0	533.6	177.3	45.08	4.78	62.19	10.01
- Intercontinental transport (global sources) ^c	-	-	155.4	109.5	2993.5	408.5	68.19	11.05
- Secondary sources (re-volatilization) ^d	910.2	1349.5	3296.1	1414.7	6186.1	672.6	437.9	121.0
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	1238.4	3576.2	558.3	263.8	5.41	1.65	130.4	27.68
Deposition to the regional seas								
- Baltic Sea	10.98	42.53	3.36	1.98	9.8E-03	3.1E-03	3.2E-01	7.9E-02
- Black Sea	13.85	73.69	3.81	3.32	2.9E-02	1.0E-02	5.8E-01	1.7E-01
- Caspian Sea	0.34	8.70	0.64	0.49	1.0E-02	3.7E-03	1.6E-01	4.1E-02
- Mediterranean Sea	1496.0	2689.3	267.4	139.1	2.2E+00	5.3E-01	5.2E+01	1.1E+01
- North Sea	6.07	36.15	2.33	1.50	1.1E-02	2.5E-03	3.0E-01	6.1E-02
Mean annual air concentrations								
	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.18	0.23	35.99	0.02	210.6	25.39	7.19	1.66

^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