

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	765*	187*	17*	18*	18*	23*
Deposition to the country						
Total deposition to the country, t	1270	589.17	24.00	19.71	11.67	11.60
- Anthropogenic deposition from national sources, t	244	64.64	6.01	7.03	3.70	3.82
- Anthropogenic deposition from other countries, t	305	35.59	4.04	0.93	1.30	0.29
- Intercontinental transport (non-EMEP sources), t	102	185.76	11.17	8.09	0.19	0.17
- Secondary sources (wind re-suspension), t	476	303.18	2.78	3.66	6.49	7.31
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	145	34.73	2.89	3.15	1.09	0.98
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	46	12.02	0.83	1.04	0.44	0.44
- Black Sea	70.3	16.93	1.35	1.41	0.71	0.69
- Caspian Sea	0.102	0.02	0.002	0.002	0.002	0.002
- Mediterranean Sea	0.135	0.04	0.002	0.004	0.002	0.002
- North Sea	5.0	0.98	0.11	0.09	0.04	0.03
Mean annual air concentrations, ng/m ³	6.01	1.69	0.11	0.08	1.47	1.30

* expert estimates

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 ^b	t		g TEQ ^a		kg		kg	
	47	35	1012	1082	2.3	2.3	71	9.9
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	12484.3	18802.0	10025.4	10817.9	7151.1	897.6	179.5	43.70
- Anthropogenic deposition from national sources	9766.7	11212.3	3102.8	3356.3	0.17	0.00	5.19	1.17
- Anthropogenic deposition from other countries	1280.5	4128.7	871.8	401.9	9.97	2.61	14.23	3.08
- Intercontinental transport (global sources) ^c	-	-	373.5	287.1	2363.0	332.3	36.11	6.18
- Secondary sources (re-volatilization) ^d	1437.1	3461.0	5677.4	6772.5	4777.9	562.8	123.9	33.27
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	1358.6	3306.4	465.4	574.2	0.08	0.00	4.29	1.00
Deposition to the regional seas								
- Baltic Sea	5.55	22.74	1.69	3.58	2.5E-05	0.0E+00	4.1E-04	4.8E-04
- Black Sea	684.6	862.7	126.9	148.4	9.9E-05	0.0E+00	1.4E-03	2.5E-03
- Caspian Sea	15.02	57.94	5.34	4.96	4.1E-03	0.0E+00	1.3E-01	3.3E-02
- Mediterranean Sea	767.1	1303.1	253.2	253.4	1.1E-04	0.0E+00	1.3E-03	1.8E-03
- North Sea	1.64	13.86	0.80	1.60	1.4E-05	0.0E+00	1.6E-04	2.4E-04
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.16	0.16	23.61	0.02	196.2	24.41	1.72	0.42

^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