

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	2057	185	17	5.6	32	10
Deposition to the country						
Total deposition to the country, t	2400	383.53	32.36	11.30	13.30	5.91
- Anthropogenic deposition from national sources, t	825	79.12	7.00	2.35	6.18	2.19
- Anthropogenic deposition from other countries, t	903	55.81	9.30	2.68	4.33	0.62
- Intercontinental transport (non-EMEP sources), t	15.5	13.98	15.66	5.86	0.07	0.06
- Secondary sources (wind re-suspension), t	658	234.62	0.39	0.40	2.72	3.04
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	862	68.94	6.93	2.09	4.30	1.29
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	87.8	8.62	0.69	0.27	0.38	0.14
- Black Sea	7.32	0.47	0.05	0.01	0.03	0.01
- Caspian Sea	1.41	0.04	0.01	0.001	0.01	0.001
- Mediterranean Sea	26.3	2.84	0.17	0.08	0.09	0.03
- North Sea	95.6	11.96	0.98	0.41	0.50	0.22
Mean annual air concentrations, ng/m ³	31.5	4.68	0.38	0.13	1.80	1.42

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	
	138	32	747	67	5.3	3.6	1606 ^b	201 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	49873.4	15118.7	8284.9	1701.6	12267.0	1425.0	2274.5	399.9
- Anthropogenic deposition from national sources	38582.6	8812.1	1982.3	169.7	1.71	1.16	913.7	116.0
- Anthropogenic deposition from other countries	7949.6	4903.3	1925.2	216.0	136.1	6.93	196.0	28.34
- Intercontinental transport (global sources) ^c	-	-	168.1	87.26	3471.8	442.8	95.97	11.93
- Secondary sources (re-volatilization) ^d	3341.1	1403.4	4209.3	1228.6	8657.4	974.1	1068.9	243.6
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	26379.6	7987.3	1319.1	98.76	1.50	0.85	452.3	51.76
Deposition to the regional seas								
- Baltic Sea	1992.2	471.0	54.70	3.71	2.7E-02	1.9E-02	1.2E+01	1.5E+00
- Black Sea	148.7	57.56	6.68	0.41	4.9E-03	2.9E-03	1.1E+00	1.1E-01
- Caspian Sea	20.21	6.93	1.40	0.07	1.5E-03	1.2E-03	3.4E-01	3.0E-02
- Mediterranean Sea	314.9	361.8	24.20	2.86	2.8E-02	1.8E-02	5.0E+00	7.1E-01
- North Sea	1437.1	651.0	43.25	5.35	2.6E-02	1.8E-02	1.1E+01	2.0E+00
Mean annual air concentrations								
	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	1.25	0.41	61.33	0.01	261.81	30.70	15.10	2.68

^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