

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	249	2.0*	2.4	0.121*	3.4	0.197*
Deposition to the country						
Total deposition to the country, t	140	36.12	2.51	1.24	0.98	0.33
- Anthropogenic deposition from national sources, t	37.9	0.32	0.39	0.02	0.43	0.02
- Anthropogenic deposition from other countries, t	68.7	5.92	1.04	0.20	0.29	0.07
- Intercontinental transport (non-EMEP sources), t	1.63	1.87	1.05	0.97	0.01	0.01
- Secondary sources (wind re-suspension), t	32.1	28.01	0.03	0.05	0.24	0.24
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	163	1.26	1.57	0.08	0.87	0.03
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.88	0.01	0.01	0.00	0.003	0.00
- Black Sea	20.7	0.13	0.21	0.01	0.13	0.004
- Caspian Sea	1.01	0.003	0.01	0.00	0.01	0.00
- Mediterranean Sea	6.47	0.06	0.06	0.004	0.02	0.001
- North Sea	0.25	0.001	0.002	0.00	0.002	0.00
Mean annual air concentrations, ng/m ³	30.8	3.99	0.46	0.13	1.80	1.40

* 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	t		g TEQ ^a		kg		kg	
	3.9	1.3 ^b	14	5.2 ^b	1.0	0.049 ^b	15 ^b	2.3 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	1767.1	1502.2	584.5	231.1	1270.8	153.1	39.57	10.03
- Anthropogenic deposition from national sources	599.2	208.6	24.22	8.79	0.23	0.01	5.90	0.86
- Anthropogenic deposition from other countries	933.4	1037.2	261.5	73.01	8.78	5.19	7.06	1.36
- Intercontinental transport (global sources) ^c	-	-	10.81	6.55	281.4	35.3	4.16	0.60
- Secondary sources (re-volatilization) ^d	234.5	256.4	288.0	142.8	980.4	112.6	22.45	7.21
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	1001.3	552.3	35.18	13.51	0.34	0.02	6.58	1.07
Deposition to the regional seas								
- Baltic Sea	9.16	6.06	0.15	0.09	3.3E-04	1.5E-05	1.1E-02	2.1E-03
- Black Sea	54.86	29.37	1.45	0.54	1.0E-02	3.8E-04	2.0E-01	3.1E-02
- Caspian Sea	1.73	1.14	0.07	0.01	7.9E-04	3.2E-05	1.1E-02	1.2E-03
- Mediterranean Sea	15.16	30.68	1.08	0.47	7.7E-03	3.6E-04	1.1E-01	2.0E-02
- North Sea	1.21	1.95	0.03	0.03	1.9E-04	7.1E-06	2.8E-03	5.9E-04
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.59	0.49	60.22	0.02	261.3	33.00	2.56	0.66

^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