

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	379*	2.1*	2.6*	2.7*	4.6*	4.9*
Deposition to the country						
Total deposition to the country, t	969	200.56	7.49	5.91	3.48	2.75
- Anthropogenic deposition from national sources, t	133	0.68	0.85	0.82	0.33	0.17
- Anthropogenic deposition from other countries, t	556	54.21	1.15	0.91	0.54	0.27
- Intercontinental transport (non-EMEP sources), t	80.8	40.52	3.80	2.81	0.05	0.04
- Secondary sources (wind re-suspension), t	199	105.15	1.70	1.37	2.55	2.28
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	116	0.64	0.73	0.73	0.32	0.14
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.001	0.00	0.00	0.00	0.00	0.00
- Black Sea	0.02	0.001	0.00	0.002	0.00	0.00
- Caspian Sea	0.26	0.01	0.002	0.012	0.001	0.001
- Mediterranean Sea	0.004	0.001	0.00	0.001	0.00	0.00
- North Sea	0.001	0.00	0.00	0.00	0.00	0.00
Mean annual air concentrations, ng/m ³	13.3	2.71	0.10	0.09	1.23	1.06

* 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	
	4.1	5.3	62	75	0.665	0.665	22	5.6
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	1076.0	1748.8	707.0	696.1	4483.9	606.4	114.4	28.49
- Anthropogenic deposition from national sources	696.2	1007.9	130.5	144.3	0.15	0.16	9.33	2.27
- Anthropogenic deposition from other countries	278.7	525.9	135.6	121.4	3.09	0.81	10.63	2.30
- Intercontinental transport (global sources) ^c	-	-	83.82	57.27	1628.9	247.7	29.11	4.81
- Secondary sources (re-volatilization) ^d	101.2	214.9	357.0	373.1	2851.7	357.7	65.34	19.11
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	377.9	931.9	72.11	95.89	0.07	0.07	5.11	1.39
Deposition to the regional seas								
- Baltic Sea	0.004	1.63	0.002	0.12	2.6E-06	4.5E-06	6.7E-05	3.9E-04
- Black Sea	0.04	4.08	0.02	0.26	3.0E-06	1.7E-05	4.3E-04	1.1E-03
- Caspian Sea	0.19	8.85	0.07	0.51	1.8E-05	8.6E-05	3.1E-03	3.5E-03
- Mediterranean Sea	0.01	6.64	0.01	0.45	4.4E-06	1.7E-05	2.0E-04	1.1E-03
- North Sea	0.005	0.92	0.001	0.06	1.8E-06	3.2E-06	4.0E-05	1.8E-04
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.05	0.09	8.65	0.01	160.94	20.36	1.15	0.30

^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