

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	536	19	1.3	0.379	1.5	0.745
Deposition to the country						
Total deposition to the country, t	387	64.36	3.26	1.64	1.25	0.75
- Anthropogenic deposition from national sources, t	102	3.28	0.26	0.07	0.19	0.05
- Anthropogenic deposition from other countries, t	196	15.72	1.42	0.55	0.48	0.15
- Intercontinental transport (non-EMEP sources), t	7.02	4.34	1.47	0.92	0.02	0.02
- Secondary sources (wind re-suspension), t	82.6	41.02	0.11	0.11	0.57	0.53
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	308	10.46	0.74	0.21	0.32	0.10
Deposition to the regional seas (Pb - t, Cd, Hg - kg):						
- Baltic Sea	2.13	0.12	0.005	0.002	0.002	0.001
- Black Sea	4.49	0.12	0.01	0.002	0.003	0.001
- Caspian Sea	0.33	0.01	0.001	0.00	0.001	0.00
- Mediterranean Sea	68.4	2.52	0.18	0.05	0.06	0.03
- North Sea	1.86	0.04	0.004	0.001	0.002	0.00
Mean annual air concentrations, ng/m ³	37	3.98	0.22	0.10	1.72	1.43

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		kg		kg	
	4.8	3.4	155	123	0.158	0.139	9.7 ^b	1.4 ^b
Deposition to the country								
	kg		g TEQ ^a		kg		kg	
Total deposition to the country	2421.1	2427.9	1190.7	709.6	2043.5	241.5	93.65	23.54
- Anthropogenic deposition from national sources	796.8	480.6	293.3	213.9	0.0	0.03	3.45	0.46
- Anthropogenic deposition from other countries	1328.2	1567.1	244.7	84.61	10.97	2.08	17.81	2.97
- Intercontinental transport (global sources) ^c	-	-	24.78	17.88	495.2	65.6	9.44	1.46
- Secondary sources (re-volatilization) ^d	296.1	380.2	627.9	393.1	1537.2	173.8	62.94	18.65
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	1012.3	1032.6	339.4	242.8	0.0	0.04	4.17	0.59
Deposition to the regional seas								
- Baltic Sea	7.37	10.92	1.33	1.22	6.0E-08	4.5E-05	6.5E-03	1.1E-03
- Black Sea	6.75	12.07	1.66	1.37	2.1E-07	1.4E-04	1.1E-02	2.1E-03
- Caspian Sea	0.28	1.51	0.22	0.20	6.4E-08	4.6E-05	2.7E-03	4.9E-04
- Mediterranean Sea	146.4	221.9	54.03	42.18	5.0E-06	4.8E-03	4.8E-01	6.9E-02
- North Sea	2.17	5.51	0.58	0.55	5.0E-08	2.8E-05	4.0E-03	4.9E-04
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.47	0.38	57.79	0.03	250.4	30.54	3.79	0.96

^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