

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	125	16	0.851	0.327	0.866	0.422
Deposition to the country						
Total deposition to the country, t	109	21.47	1.63	0.59	0.89	0.75
- Anthropogenic deposition from national sources, t	16.9	2.67	0.13	0.06	0.11	0.04
- Anthropogenic deposition from other countries, t	46.9	1.95	0.39	0.07	0.20	0.03
- Intercontinental transport (non-EMEP sources), t	4.81	2.90	0.97	0.37	0.01	0.01
- Secondary sources (wind re-suspension), t	40.5	13.95	0.13	0.09	0.57	0.67
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	39.5	4.33	0.25	0.09	0.13	0.03
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	1.77	0.18	0.01	0.004	0.005	0.001
- Black Sea	0.14	0.01	0.001	0.00	0.001	0.00
- Caspian Sea	0.03	0.001	0.00	0.00	0.00	0.00
- Mediterranean Sea	0.68	0.11	0.004	0.002	0.003	0.001
- North Sea	15.5	1.67	0.10	0.03	0.04	0.01
Mean annual air concentrations, ng/m ³	8.28	1.32	0.09	0.03	1.55	1.32

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	
	3.4	1.2	26	15	40	1.2	23 ^b	2.6 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	1428.0	690.4	452.2	186.4	1385.0	166.6	84.67	11.80
- Anthropogenic deposition from national sources	857.4	382.5	67.39	39.03	5.89	0.20	9.40	1.16
- Anthropogenic deposition from other countries	390.2	178.4	88.18	18.57	21.90	0.26	12.31	1.75
- Intercontinental transport (global sources) ^c	-	-	76.08	34.71	709.6	92.6	28.10	2.74
- Secondary sources (re-volatilization) ^d	180.43	129.50	220.56	94.12	647.6	73.6	34.86	6.16
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	449.9	205.0	31.62	16.96	10.34	0.27	5.78	0.65
Deposition to the regional seas								
- Baltic Sea	12.37	6.36	0.49	0.25	1.2E-01	3.9E-03	8.2E-02	1.0E-02
- Black Sea	0.90	0.74	0.08	0.05	3.0E-02	8.0E-04	1.2E-02	1.1E-03
- Caspian Sea	0.18	0.13	0.03	0.01	1.2E-02	3.6E-04	6.1E-03	4.1E-04
- Mediterranean Sea	2.14	4.70	0.35	0.31	1.4E-01	4.3E-03	5.8E-02	7.6E-03
- North Sea	66.55	27.50	2.11	1.16	4.4E-01	1.2E-02	2.9E-01	3.5E-02
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.09	0.04	7.13	0.003	211.1	24.56	2.24	0.31

^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