

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	127	12	0.993	0.203	3.1	0.314
Deposition to the country						
Total deposition to the country, t	149	27.27	2.18	0.85	0.96	0.48
- Anthropogenic deposition from national sources, t	12.6	1.30	0.10	0.02	0.26	0.02
- Anthropogenic deposition from other countries, t	85.3	5.72	0.87	0.26	0.37	0.07
- Intercontinental transport (non-EMEP sources), t	1.62	1.24	1.16	0.54	0.01	0.01
- Secondary sources (wind re-suspension), t	49.4	19.00	0.04	0.04	0.33	0.38
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	68.2	5.89	0.53	0.10	0.85	0.06
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	20.8	1.94	0.17	0.03	0.37	0.03
- Black Sea	0.45	0.04	0.003	0.001	0.005	0.00
- Caspian Sea	0.08	0.004	0.001	0.00	0.001	0.00
- Mediterranean Sea	0.66	0.09	0.005	0.001	0.01	0.001
- North Sea	12.6	1.65	0.11	0.03	0.17	0.02
Mean annual air concentrations, ng/m ³	13.2	2.08	0.18	0.06	1.66	1.37

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	
	1.5	2.5	67	23	27	2.4	23 ^b	2.5 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	1183.2	1035.2	454.7	124.7	841.5	102.2	63.91	11.39
- Anthropogenic deposition from national sources	204.1	494.3	71.41	25.71	0.29	0.22	5.06	0.55
- Anthropogenic deposition from other countries	904.3	419.8	139.4	20.82	15.21	0.28	15.68	2.13
- Intercontinental transport (global sources) ^c	-	-	23.67	12.19	326.6	44.3	10.70	1.26
- Secondary sources (re-volatilization) ^d	74.81	121.1	220.2	65.99	499.4	57.3	32.48	7.45
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	519.8	1403.0	164.9	54.33	1.28	0.89	9.97	1.04
Deposition to the regional seas								
- Baltic Sea	137.6	345.1	39.48	13.78	1.8E-01	1.3E-01	2.5E+00	2.7E-01
- Black Sea	1.61	8.89	0.58	0.22	5.0E-03	2.8E-03	2.5E-02	2.5E-03
- Caspian Sea	0.32	1.15	0.16	0.03	1.4E-03	1.1E-03	8.6E-03	6.0E-04
- Mediterranean Sea	2.32	27.01	1.40	0.84	1.3E-02	7.9E-03	6.4E-02	8.1E-03
- North Sea	55.85	182.1	10.45	4.75	3.7E-02	3.4E-02	4.7E-01	5.7E-02
Mean annual air concentrations								
	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.26	0.21	28.36	0.01	243.60	28.05	3.98	0.71

^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