

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	794	68	2.1	2.9	1.1	0.924
Deposition to the country						
Total deposition to the country, t	903	172.99	15.54	6.76	4.12	2.48
- Anthropogenic deposition from national sources, t	297	24.76	0.71	1.09	0.20	0.08
- Anthropogenic deposition from other countries, t	427	45.17	9.38	2.56	1.97	0.35
- Intercontinental transport (non-EMEP sources), t	6.53	10.02	5.28	2.84	0.05	0.05
- Secondary sources (wind re-suspension), t	172	93.03	0.16	0.28	1.89	2.00
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t						
Deposition to the regional seas (Pb - t, Cd, Hg – kg):	438	37.60	1.26	1.56	0.32	0.10
- Baltic Sea	12.1	1.64	0.02	0.06	0.01	0.004
- Black Sea	10.2	0.77	0.03	0.03	0.005	0.001
- Caspian Sea	1.94	0.12	0.01	0.005	0.00	0.00
- Mediterranean Sea	4.52	0.31	0.01	0.01	0.002	0.001
- North Sea	1.5	0.25	0.003	0.01	0.001	0.001
Mean annual air concentrations, ng/m ³	14.4	1.84	0.17	0.07	1.62	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	
	10 ^b	12	22	34	0.484	0.913	64 ^b	16 ^b
Deposition to the country	kg		g TEQ		kg		kg	
Total deposition to the country	7683.6	8268.1	1342.3	803.2	8668.0	1062.0	258.5	68.88
- Anthropogenic deposition from national sources	2610.6	3321.9	55.63	84.00	0.13	0.26	37.35	8.41
- Anthropogenic deposition from other countries	4380.2	3873.9	576.2	252.6	32.79	9.26	40.36	6.69
- Intercontinental transport (global sources) ^c	-	-	61.65	34.02	1644.3	209.4	26.92	3.79
- Secondary sources (re-volatilization) ^d	692.8	1072.3	648.9	432.6	6990.8	843.0	153.9	50.00
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	2579.3	4407.1	47.07	78.51	0.17	0.29	19.41	5.40
Deposition to the regional seas								
- Baltic Sea	67.64	214.52	0.63	2.96	9.6E-04	1.9E-03	1.3E-01	1.1E-01
- Black Sea	17.50	53.41	0.46	0.69	1.6E-03	2.7E-03	1.4E-01	3.4E-02
- Caspian Sea	3.54	8.49	0.12	0.07	3.8E-04	6.2E-04	3.6E-02	6.6E-03
- Mediterranean Sea	8.80	46.32	0.59	0.59	1.8E-03	2.7E-03	9.4E-02	2.1E-02
- North Sea	8.95	58.00	0.09	0.65	2.3E-04	4.1E-04	2.0E-02	1.5E-02
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.32	0.34	19.24	0.01	320.80	40.48	2.32	0.69

^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