

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	358	11	2.3	0.521	1.5	0.447
Deposition to the country						
Total deposition to the country, t	713	107.91	10.67	3.79	5.37	3.90
- Anthropogenic deposition from national sources, t	140	4.56	0.89	0.22	0.20	0.05
- Anthropogenic deposition from other countries, t	377	29.55	5.22	1.57	1.69	0.28
- Intercontinental transport (non-EMEP sources), t	11	9.60	4.25	1.69	0.08	0.07
- Secondary sources (wind re-suspension), t	185	64.20	0.31	0.30	3.41	3.50
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	128	3.75	0.81	0.16	0.19	0.03
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	1.02	0.02	0.005	0.001	0.002	0.00
- Black Sea	0.995	0.03	0.004	0.001	0.003	0.00
- Caspian Sea	9.12	0.30	0.03	0.01	0.01	0.002
- Mediterranean Sea	50.4	1.80	0.36	0.07	0.08	0.01
- North Sea	0.25	0.004	0.001	0.00	0.001	0.00
Mean annual air concentrations, ng/m <sup>3</sup>	3.13	0.33	0.03	0.01	1.52	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 <sup>a</sup>		kg		kg	
	5.2	4.4	60	38	0.022	0.013	54 <sup>b</sup>	9.9 <sup>b</sup>
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	7342.7	5619.6	2023.4	695.8	14722	1843.4	388.0	75.71
- Anthropogenic deposition from national sources	1689.9	1417.1	159.8	98.30	0.00	0.00	20.77	3.91
- Anthropogenic deposition from other countries	5293.2	3847.4	767.9	209.5	142.8	2.80	60.39	7.91
- Intercontinental transport (global sources) <sup>c</sup>	-	-	220.9	109.7	4507.2	600.7	79.33	9.44
- Secondary sources (re-volatilization) <sup>d</sup>	359.6	355.1	874.8	278.3	10072	1239.9	227.5	54.46
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	807.6	1137.9	89.74	56.00	0.01	0.004	17.10	3.03
Deposition to the regional seas								
- Baltic Sea	280.6	294.7	25.59	16.19	1.0E-03	6.9E-04	5.0E+00	9.4E-01
- Black Sea	2.36	7.07	0.34	0.24	3.3E-05	1.3E-05	5.9E-02	8.0E-03
- Caspian Sea	0.57	1.23	0.10	0.04	1.1E-05	6.0E-06	2.2E-02	2.6E-03
- Mediterranean Sea	2.61	15.37	0.73	0.62	6.1E-05	2.4E-05	1.1E-01	1.7E-02
- North Sea	28.60	68.63	1.83	2.29	1.2E-04	8.5E-05	5.5E-01	1.2E-01
Mean annual air concentrations	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.07	0.07	8.29	0.003	207.4	23.83	1.43	0.30

<sup>a</sup> Toxicity of PCDD/Fs is expressed according to the NATO toxic equivalents scheme (I-TEQ)

<sup>b</sup> Expert estimate

<sup>c</sup> Model assessment of B[a]P pollution was focused on the emission sources of the EMEP countries neglecting the intercontinental transport

<sup>d</sup> Estimates of secondary sources contribution for B[a]P represent re-volatilization fluxes resulted from the accumulation of pollutant during one year