

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	36	28	0.051	0.082	0.166	0.141
Deposition to the country						
Total deposition to the country, t	10.9	6.19	0.15	0.13	0.07	0.08
- Anthropogenic deposition from national sources, t	1.94	1.57	0.002	0.004	0.01	0.00
- Anthropogenic deposition from other countries, t	3.28	0.49	0.05	0.03	0.02	0.01
- Intercontinental transport (non-EMEP sources), t	2.95	1.46	0.07	0.07	0.001	0.001
- Secondary sources (wind re-suspension), t	2.77	2.67	0.02	0.03	0.05	0.06
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	6.03	5.46	0.01	0.02	0.01	0.00
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.001	0.003	0.00	0.00	0.00	0.00
- Black Sea	0.29	0.28	0.00	0.001	0.00	0.00
- Caspian Sea	0.13	0.07	0.00	0.00	0.00	0.00
- Mediterranean Sea	7.47	6.59	0.01	0.02	0.02	0.01
- North Sea	0.001	0.002	0.00	0.00	0.00	0.00
Mean annual air concentrations, ng/m <sup>3</sup>	7.52	4.28	0.09	0.06	1.55	1.35

## 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	
	1.2	0.286	1.8	0.573	0.058	0.012	0.481 <sup>b</sup>	0.068 <sup>b</sup>
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	118.3	110.1	109.5	82.71	156.5	18.7	4.97	1.20
- Anthropogenic deposition from national sources	96.6	36.0	2.19	0.67	0.00	0.00	0.07	0.01
- Anthropogenic deposition from other countries	18.19	52.73	21.55	12.93	0.36	0.11	0.59	0.11
- Intercontinental transport (global sources) <sup>c</sup>	-	-	5.36	3.36	56.2	7.6	1.03	0.16
- Secondary sources (re-volatilization) <sup>d</sup>	3.50	21.36	80.41	65.75	100.0	10.9	3.27	0.92
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	26.1	26.3	0.93	0.46	0.004	0.001	0.14	0.02
Deposition to the regional seas								
- Baltic Sea	0.01	0.06	0.001	0.001	1.6E-06	3.1E-07	2.4E-05	1.0E-05
- Black Sea	1.27	1.28	0.02	0.01	2.0E-05	7.9E-06	5.9E-04	1.7E-04
- Caspian Sea	0.07	0.27	0.01	0.00	2.1E-05	4.1E-06	4.1E-04	6.6E-05
- Mediterranean Sea	62.26	27.05	1.73	0.52	3.4E-03	7.4E-04	5.3E-02	7.3E-03
- North Sea	0.003	0.05	0.001	0.001	9.2E-07	2.9E-07	1.2E-05	5.9E-06
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>	
	0.12	0.08	15.79	0.01	213.1	26.17	1.91	0.48

<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