

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	104	6.1	0.410	0.160	0.940	0.297
Deposition to the country						
Total deposition to the country, t	114	30.40	1.51	0.77	0.47	0.41
- Anthropogenic deposition from national sources, t	20.7	1.34	0.06	0.04	0.03	0.05
- Anthropogenic deposition from other countries, t	52.5	9.35	0.53	0.22	0.18	0.08
- Intercontinental transport (non-EMEP sources), t	3.22	2.52	0.87	0.44	0.01	0.01
- Secondary sources (wind re-suspension), t	37.6	17.19	0.06	0.06	0.25	0.28
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	46.2	2.78	0.08	0.07	0.04	0.05
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.19	0.01	0.00	0.00	0.00	0.00
- Black Sea	2.13	0.11	0.004	0.003	0.002	0.001
- Caspian Sea	0.09	0.01	0.00	0.00	0.00	0.00
- Mediterranean Sea	11	0.74	0.02	0.02	0.01	0.01
- North Sea	0.13	0.003	0.00	0.00	0.00	0.00
Mean annual air concentrations, ng/m <sup>3</sup>	14.9	3.13	0.16	0.07	1.58	1.36

## 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	
	2.1	1.6	15	10	45	7.2	5.7 <sup>b</sup>	0.736 <sup>b</sup>
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	621.1	1054.1	754.12	465.0	1265.2	150.1	34.40	8.33
- Anthropogenic deposition from national sources	170.6	186.7	329.02	178.8	0.03	1.70	2.14	0.26
- Anthropogenic deposition from other countries	382.1	692.5	81.66	36.70	4.44	2.62	4.63	0.76
- Intercontinental transport (global sources) <sup>c</sup>	-	-	13.07	9.72	298.3	39.4	4.45	0.70
- Secondary sources (re-volatilization) <sup>d</sup>	68.33	174.9	330.4	239.9	962.4	106.4	23.18	6.60
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	207.2	355.7	345.7	188.4	0.03	1.69	2.29	0.30
Deposition to the regional seas								
- Baltic Sea	0.65	1.61	0.71	0.52	1.6E-05	8.2E-04	2.0E-03	2.4E-04
- Black Sea	2.44	7.90	2.72	1.93	1.6E-04	1.0E-02	1.1E-02	1.7E-03
- Caspian Sea	0.04	0.71	0.29	0.19	3.7E-05	1.9E-03	2.1E-03	2.6E-04
- Mediterranean Sea	24.22	63.75	39.01	23.23	2.4E-03	1.3E-01	1.5E-01	2.2E-02
- North Sea	0.06	0.67	0.21	0.19	1.2E-05	5.6E-04	8.6E-04	1.1E-04
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>	
	0.21	0.29	74.02	0.04	240.6	30.18	2.47	0.62

<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