

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	269	23	4.3	0.951	7.5	3.0
Deposition to the country						
Total deposition to the country, t	411	80.63	9.63	3.24	3.19	1.43
- Anthropogenic deposition from national sources, t	44.1	5.21	0.89	0.24	1.30	0.49
- Anthropogenic deposition from other countries, t	233	27.32	4.64	1.38	1.28	0.30
- Intercontinental transport (non-EMEP sources), t	3.39	2.83	4.02	1.54	0.02	0.02
- Secondary sources (wind re-suspension), t	131	45.26	0.07	0.08	0.59	0.62
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	193	14.36	2.97	0.58	2.09	0.67
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	5.57	0.73	0.09	0.03	0.07	0.03
- Black Sea	2.21	0.13	0.03	0.005	0.02	0.004
- Caspian Sea	0.45	0.01	0.01	0.00	0.005	0.001
- Mediterranean Sea	5.57	0.65	0.08	0.02	0.05	0.02
- North Sea	2.67	0.36	0.05	0.02	0.04	0.02
Mean annual air concentrations, ng/m <sup>3</sup>	20.2	4.41	0.44	0.16	1.78	1.42

## 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	
	14 <sup>b</sup>	5.6	1252	45	4.5	2.9	193 <sup>b</sup>	25 <sup>b</sup>
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	6385.4	3426.6	3115.3	607.4	2694.7	323.1	302.2	58.18
- Anthropogenic deposition from national sources	2273.6	801.6	1581.9	141.7	1.14	0.68	69.73	7.71
- Anthropogenic deposition from other countries	3669.6	2241.0	368.8	78.96	19.49	2.19	55.25	6.40
- Intercontinental transport (global sources) <sup>c</sup>	-	-	32.11	18.38	710.7	90.7	16.59	2.14
- Secondary sources (re-volatilization) <sup>d</sup>	442.19	384.01	1132.5	368.3	1963.4	229.5	160.6	41.94
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	3913.0	1667.7	4016.5	310.0	1.60	0.95	96.56	13.22
Deposition to the regional seas								
- Baltic Sea	96.29	46.65	43.15	4.10	8.3E-03	6.6E-03	6.1E-01	9.3E-02
- Black Sea	23.21	13.47	22.94	1.53	5.6E-03	2.9E-03	2.8E-01	3.1E-02
- Caspian Sea	2.65	1.39	3.50	0.17	1.5E-03	1.1E-03	6.5E-02	6.0E-03
- Mediterranean Sea	48.41	73.82	66.07	7.83	3.2E-02	2.0E-02	1.1E+00	1.7E-01
- North Sea	35.23	37.67	10.63	2.47	5.2E-03	3.6E-03	1.9E-01	3.9E-02
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>	
	0.74	0.40	120.92	0.02	267.90	32.91	8.63	1.67

<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