

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	642*	554	58*	39	13*	10
Deposition to the country						
Total deposition to the country, t	1720	460.75	63.30	25.00	14.35	5.89
- Anthropogenic deposition from national sources, t	551	241.09	38.49	17.20	8.60	2.49
- Anthropogenic deposition from other countries, t	646	46.95	7.03	1.55	3.21	0.71
- Intercontinental transport (non-EMEP sources), t	11.2	11.36	17.51	5.91	0.08	0.06
- Secondary sources (wind re-suspension), t	514	161.35	0.27	0.34	2.47	2.63
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	660	232.08	43.08	16.27	6.50	1.41
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	52.7	31.67	3.69	2.30	0.51	0.18
- Black Sea	13	3.93	0.79	0.25	0.10	0.02
- Caspian Sea	2.29	0.31	0.14	0.02	0.02	0.002
- Mediterranean Sea	16.8	8.43	0.97	0.51	0.13	0.03
- North Sea	11.8	7.79	0.70	0.50	0.10	0.04
Mean annual air concentrations, ng/m <sup>3</sup>	23	6.94	0.86	0.34	1.87	1.46

\* expert estimates

## 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	
	49 <sup>b</sup>	44	371 <sup>b</sup>	278	10 <sup>b</sup>	13	180 <sup>b</sup>	22 <sup>b</sup>
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	21934.8	18746.1	6197.2	2219.4	11273.7	1366.0	754.6	151.9
- Anthropogenic deposition from national sources	11613.5	12277.0	1316	662.7	11.82	4.10	101.0	12.09
- Anthropogenic deposition from other countries	8943.1	4488.8	2396	313.0	65.98	8.69	167.3	19.38
- Intercontinental transport (global sources) <sup>c</sup>	-	-	112.4	63.99	2744.3	346.5	55.30	7.14
- Secondary sources (re-volatilization) <sup>d</sup>	1378.3	1980.3	2372.8	1179.7	8451.6	1006.7	431.0	113.3
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	9963.5	13371.8	1046.4	498.8	26.82	3.48	54.09	6.51
Deposition to the regional seas								
- Baltic Sea	631.5	950.3	42.25	27.06	1.7E-01	5.6E-02	1.8E+00	2.7E-01
- Black Sea	101.2	158.9	10.29	4.02	1.5E-01	2.2E-02	3.2E-01	3.4E-02
- Caspian Sea	12.20	16.30	1.59	0.40	2.8E-02	6.1E-03	7.2E-02	6.1E-03
- Mediterranean Sea	110.1	449.8	20.44	11.94	3.5E-01	7.3E-02	6.7E-01	8.8E-02
- North Sea	113.8	406.3	6.02	8.71	4.2E-02	1.1E-02	2.0E-01	4.4E-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>	
	0.71	0.63	70.19	0.02	283.7	35.04	5.28	1.09

<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