

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	237	32	6.6	2.5	12	1.7
Deposition to the country						
Total deposition to the country, t	276	40.52	4.17	1.33	1.90	0.56
- Anthropogenic deposition from national sources, t	69.7	4.59	0.93	0.33	0.78	0.13
- Anthropogenic deposition from other countries, t	135	7.11	1.31	0.23	0.90	0.12
- Intercontinental transport (non-EMEP sources), t	1.54	1.60	1.89	0.73	0.01	0.01
- Secondary sources (wind re-suspension), t	69.4	27.21	0.04	0.04	0.22	0.30
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	278	18.27	4.29	1.47	1.55	0.25
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	14.5	1.11	0.21	0.08	0.06	0.01
- Black Sea	0.98	0.04	0.01	0.002	0.01	0.00
- Caspian Sea	0.26	0.004	0.004	0.00	0.003	0.00
- Mediterranean Sea	4.7	0.35	0.06	0.02	0.02	0.00
- North Sea	53.4	4.48	0.75	0.34	0.25	0.06
Mean annual air concentrations, ng/m <sup>3</sup>	64.3	7.71	0.92	0.26	2.05	1.48

## 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	
	29 <sup>b</sup>	12 <sup>b</sup>	542	52	68	28	134 <sup>b</sup>	47 <sup>b</sup>
Deposition to the country	kg		g TEQ		kg		kg	
Total deposition to the country	8915.2	3737.4	2125.6	242.7	977.3	114.3	191.0	47.11
- Anthropogenic deposition from national sources	7514.5	2964.1	914.0	60.48	4.26	5.03	47.04	16.76
- Anthropogenic deposition from other countries	1168.6	419.3	365.9	30.97	21.86	0.41	51.22	8.00
- Intercontinental transport (global sources) <sup>c</sup>	-	-	19.01	8.30	311.0	38.7	10.10	1.39
- Secondary sources (re-volatilization) <sup>d</sup>	232.0	354.0	826.6	142.9	640.2	70.1	82.67	20.97
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	11532.6	6016.5	1378.27	99.57	6.74	10.38	60.36	20.95
Deposition to the regional seas								
- Baltic Sea	387.2	177.9	26.39	1.68	5.5E-02	1.3E-01	7.0E-01	2.8E-01
- Black Sea	27.00	14.83	3.71	0.19	1.2E-02	2.0E-02	7.9E-02	2.0E-02
- Caspian Sea	4.81	2.27	0.91	0.04	4.5E-03	8.9E-03	2.9E-02	6.9E-03
- Mediterranean Sea	53.64	97.41	12.99	1.36	8.3E-02	1.2E-01	4.1E-01	1.5E-01
- North Sea	1154.8	605.3	97.40	9.71	1.5E-01	3.4E-01	3.5E+00	1.5E+00
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>	
	2.07	0.89	181.31	0.02	255.74	30.37	16.04	4.43

<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