

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	338	19	6.3	1.3	1.1	0.763
Deposition to the country						
Total deposition to the country, t	441	74.43	9.03	3.18	3.11	3.05
- Anthropogenic deposition from national sources, t	148	8.48	2.80	0.66	0.15	0.10
- Anthropogenic deposition from other countries, t	190	20.31	3.35	1.22	0.65	0.15
- Intercontinental transport (non-EMEP sources), t	6.14	7.64	2.70	1.06	0.06	0.05
- Secondary sources (wind re-suspension), t	97.7	38.00	0.18	0.24	2.26	2.75
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	128	6.38	2.34	0.42	0.15	0.07
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	35.6	2.34	0.73	0.16	0.05	0.03
- Black Sea	0.62	0.03	0.01	0.002	0.001	0.00
- Caspian Sea	0.24	0.01	0.004	0.001	0.001	0.00
- Mediterranean Sea	0.52	0.02	0.01	0.001	0.002	0.00
- North Sea	1.04	0.09	0.02	0.01	0.002	0.001
Mean annual air concentrations, ng/m <sup>3</sup>	2.8	0.26	0.05	0.01	1.53	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	
	5.1 <sup>b</sup>	5.2 <sup>b</sup>	37	14	41	17	35 <sup>b</sup>	7.0 <sup>b</sup>
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	4463.1	4580.4	1172.5	426.5	12377.2	1485.6	191.1	45.75
- Anthropogenic deposition from national sources	1522.2	1516.7	91.15	32.13	8.08	4.12	17.45	3.60
- Anthropogenic deposition from other countries	2783.5	2823.3	427.9	182.5	39.88	1.42	26.20	5.03
- Intercontinental transport (global sources) <sup>c</sup>	-	-	115.3	58.68	3133.1	400.2	43.01	5.46
- Secondary sources (re-volatilization) <sup>d</sup>	157.4	240.4	538.2	153.2	9196.1	1079.9	104.4	31.65
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	1058.2	1244.1	64.79	20.25	14.55	4.83	9.73	1.80
Deposition to the regional seas								
- Baltic Sea	231.3	287.1	15.64	5.89	2.8E+00	9.3E-01	2.7E+00	5.3E-01
- Black Sea	1.18	6.18	0.15	0.06	5.2E-02	1.4E-02	2.3E-02	3.6E-03
- Caspian Sea	0.61	1.44	0.06	0.01	2.0E-02	7.3E-03	1.0E-02	1.3E-03
- Mediterranean Sea	1.03	8.88	0.29	0.10	8.4E-02	2.1E-02	3.6E-02	5.4E-03
- North Sea	7.49	18.29	0.24	0.16	6.2E-02	2.6E-02	3.6E-02	9.1E-03
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>	
	0.07	0.09	7.66	0.00	210.90	24.47	0.95	0.24

<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