

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	219	16	1.6	1.2	2.1	1.0
Deposition to the country						
Total deposition to the country, t	465.65	86.4	4.80	2.53	1.83	1.51
- Anthropogenic deposition from national sources, t	61.55	5.49	0.48	0.43	0.21	0.11
- Anthropogenic deposition from other countries, t	287.59	28.2	2.10	0.89	0.70	0.30
- Intercontinental transport (non-EMEP sources), t	4.71	4.84	0.09	0.14	0.88	1.05
- Secondary sources (wind re-suspension), t	111.79	47.8	2.13	1.07	0.04	0.04
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	126.91	8.12	0.90	0.64	0.29	0.12
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	2.50	0.21	17.18	14.30	4.59	2.55
- Black Sea	1.95	0.08	12.76	5.76	3.27	0.84
- Caspian Sea	0.24	0.01	1.60	0.67	0.66	0.23
- Mediterranean Sea	9.71	0.67	64.08	51.60	15.68	7.75
- North Sea	2.01	0.22	13.60	14.70	3.34	2.63
Mean annual air concentrations, ng/m <sup>3</sup>	17.00	1.98	0.15	0.06	1.58	1.41

## POP emissions and pollution levels in 1990 and 2013

	B[a]P		PCDD/Fs		HCB	
	1990	2013	1990	2013	1990	2013
Emissions	t		g TEQ <sup>a</sup>		kg	
	4.3 <sup>b</sup>	2.6 <sup>b</sup>	161	38	92	41
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	3827.2	2352.3	1549.4	375.5	2730.9	235.3
- Anthropogenic deposition from national sources	855.5	519.9	352.4	80.3	23.7	10.3
- Anthropogenic deposition from other countries	2674.7	1647.4	342.7	83.2	19.2	1.3
- Intercontinental transport (global sources) <sup>c</sup>	0.0	0.0	146.3	63.2	914.2	77.8
- Secondary sources (re-volatilization) <sup>d</sup>	297.0	185.0	704.8	148.8	1773.8	145.9
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	1087.7	637.8	355.1	80.2	26.8	11.6
Deposition to the regional seas						
- Baltic Sea	17.49	7.77	2.84	0.44	5.9E-02	3.5E-02
- Black Sea	6.68	3.10	1.94	0.36	8.6E-02	3.2E-02
- Caspian Sea	0.50	0.25	0.27	0.06	2.7E-02	1.0E-02
- Mediterranean Sea	29.51	21.50	13.83	3.57	8.9E-01	4.2E-01
- North Sea	7.26	3.57	1.16	0.45	4.4E-02	2.9E-02
Mean annual air concentrations	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.35	0.18	36.10	8.14	208.7	16.92

<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