

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	59	6.9	3.2	0.995	2.6	0.875
Deposition to the country						
Total deposition to the country, t	399.95	95.90	7.05	2.84	2.25	1.25
- Anthropogenic deposition from national sources, t	13.70	1.91	0.81	0.29	0.42	0.15
- Anthropogenic deposition from other countries, t	203.39	24.80	2.53	0.90	1.15	0.32
- Intercontinental transport (non-EMEP sources), t	4.64	4.39	0.09	0.12	0.66	0.75
- Secondary sources (wind re-suspension), t	178.23	64.80	3.62	1.53	0.03	0.03
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	37.33	3.95	1.96	0.58	0.46	0.15
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.41	0.07	19.44	8.49	3.72	1.82
- Black Sea	0.81	0.07	39.55	8.90	6.62	1.43
- Caspian Sea	0.09	0.005	4.48	0.65	0.95	0.20
- Mediterranean Sea	2.55	0.30	122.11	39.30	19.19	7.23
- North Sea	0.22	0.05	9.80	6.07	1.71	1.42
Mean annual air concentrations, ng/m <sup>3</sup>	28.17	4.89	0.53	0.14	1.90	1.57

## 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	
	27	5.6	113	47	2.6	1.1
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	9955.1	3509.6	2109.0	595.5	2887.0	228.9
- Anthropogenic deposition from national sources	6440.0	1337.9	283.0	110.7	0.8	0.3
- Anthropogenic deposition from other countries	2575.8	1803.4	532.6	139.8	16.0	4.6
- Intercontinental transport (global sources) <sup>c</sup>	0.0	0.0	114.6	47.6	766.8	62.2
- Secondary sources (re-volatilization) <sup>d</sup>	939.2	368.3	1178.2	297.3	2103.5	161.7
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	6500.3	1349.9	232.4	98.6	0.7	0.3
Deposition to the regional seas						
- Baltic Sea	81.58	12.23	1.48	0.43	1.2E-03	8.9E-04
- Black Sea	65.92	11.60	2.09	0.68	3.4E-03	1.4E-03
- Caspian Sea	4.62	0.79	0.24	0.08	7.9E-04	2.7E-04
- Mediterranean Sea	162.74	41.20	7.85	3.87	2.9E-02	1.3E-02
- North Sea	19.58	5.17	0.36	0.39	6.1E-04	5.3E-04
Mean annual air concentrations						
	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	1.20	0.36	58.00	15.26	224.4	17.60

<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