

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	249	3.5	2.4	0.371	3.4	0.061
Deposition to the country						
Total deposition to the country, t	145.87	25.70	2.76	0.93	0.74	0.34
- Anthropogenic deposition from national sources, t	37.96	0.39	0.39	0.04	0.27	0.00
- Anthropogenic deposition from other countries, t	66.04	4.44	0.97	0.22	0.21	0.06
- Intercontinental transport (non-EMEP sources), t	1.57	1.61	0.03	0.04	0.25	0.26
- Secondary sources (wind re-suspension), t	40.30	19.30	1.36	0.62	0.01	0.01
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	163.08	2.25	1.58	0.24	0.50	0.01
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.88	0.02	7.14	1.67	1.66	0.07
- Black Sea	20.68	0.38	211.21	42.70	73.47	1.34
- Caspian Sea	1.02	0.01	9.91	1.17	2.84	0.04
- Mediterranean Sea	6.52	0.08	61.69	8.58	13.53	0.24
- North Sea	0.25	0.003	2.20	0.28	0.77	0.03
Mean annual air concentrations, ng/m <sup>3</sup>	33.24	3.48	0.53	0.13	1.84	1.49

\* expert estimates

## 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	
	0.014	2.213	37	1.3	0.116	0.012
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	665.0	930.4	694.0	181.1	1075.7	92.3
- Anthropogenic deposition from national sources	2.4	401.0	68.9	2.3	0.0	0.0
- Anthropogenic deposition from other countries	592.3	417.2	251.2	74.0	7.7	5.6
- Intercontinental transport (global sources) <sup>c</sup>	0.0	0.0	36.3	14.1	295.3	23.2
- Secondary sources (re-volatilization) <sup>d</sup>	70.4	112.3	338.9	90.7	772.7	63.4
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	3.6	601.3	89.8	3.4	0.0	0.0
Deposition to the regional seas						
- Baltic Sea	0.03	3.19	0.33	0.01	3.7E-05	9.2E-06
- Black Sea	0.18	28.45	3.86	0.13	1.1E-03	9.5E-05
- Caspian Sea	0.01	1.02	0.16	0.01	8.8E-05	6.8E-06
- Mediterranean Sea	0.05	5.42	2.43	0.06	8.7E-04	9.5E-05
- North Sea	0.01	1.31	0.07	0.01	2.1E-05	3.8E-06
Mean annual air concentrations						
	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.25	0.30	61.40	16.09	217.1	18.50

<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