

## HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	36	25	0.051	0.048	0.166	0.090
Deposition to the country						
Total deposition to the country, t	10.93	4.24	0.15	0.10	0.07	0.05
- Anthropogenic deposition from national sources, t	1.93	1.14	0.002	0.002	0.004	0.002
- Anthropogenic deposition from other countries, t	3.25	0.35	0.05	0.03	0.01	0.01
- Intercontinental transport (non-EMEP sources), t	2.95	1.19	0.02	0.02	0.05	0.04
- Secondary sources (wind re-suspension), t	2.80	1.56	0.07	0.05	0.002	0.002
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	5.94	4.91	0.01	0.01	0.004	0.003
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.001	0.01	0.001	0.01	0.002	0.004
- Black Sea	0.28	0.41	0.36	0.71	0.14	0.18
- Caspian Sea	0.12	0.08	0.18	0.16	0.08	0.04
- Mediterranean Sea	7.56	5.24	10.99	10.60	9.24	5.01
- North Sea	0.001	0.001	0.001	0.002	0.002	0.003
Mean annual air concentrations, ng/m <sup>3</sup>	8.42	4.16	0.08	0.06	1.53	1.44

## 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	
	0.386	0.127	2.2	0.377	0.049	0.007
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	75.0	23.9	253.9	78.0	130.7	10.3
- Anthropogenic deposition from national sources	46.6	11.8	2.8	0.5	0.0	0.0
- Anthropogenic deposition from other countries	18.8	9.3	19.9	11.8	0.3	0.1
- Intercontinental transport (global sources) <sup>c</sup>	0.0	0.0	15.2	6.6	59.1	5.0
- Secondary sources (re-volatilization) <sup>d</sup>	9.6	2.9	216.3	59.2	71.4	5.2
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	8.9	4.9	1.0	0.3	0.0	0.0
Deposition to the regional seas						
- Baltic Sea	0.00	0.00	0.00	0.00	1.3E-06	2.8E-07
- Black Sea	0.42	0.22	0.01	0.01	1.7E-05	5.0E-06
- Caspian Sea	0.02	0.02	0.01	0.00	1.7E-05	2.2E-06
- Mediterranean Sea	23.63	8.91	2.18	0.37	2.9E-03	4.0E-04
- North Sea	0.00	0.00	0.00	0.00	7.4E-07	2.4E-07
Mean annual air concentrations						
	ng/m <sup>3</sup>		fg TEQ/m <sup>3</sup>		pg/m <sup>3</sup>	
	0.06	0.02	14.40	6.83	174.6	14.28

<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