

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	12*	15*	2.3*	2.9*	0.984*	1.2*
Deposition to the country						
Total deposition to the country, t	169	90.09	3.97	3.33	1.39	1.15
- Anthropogenic deposition from national sources, t	2.78	3.51	0.53	0.67	0.14	0.12
- Anthropogenic deposition from other countries, t	34.8	5.69	0.42	0.19	0.15	0.05
- Intercontinental transport (non-EMEP sources), t	49.9	23.69	2.47	1.99	0.03	0.03
- Secondary sources (wind re-suspension), t	81.1	57.20	0.55	0.48	1.07	0.95
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	5.39	6.80	1.01	1.26	0.18	0.12
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.001	0.005	0.00	0.001	0.00	0.00
- Black Sea	0.06	0.20	0.01	0.04	0.001	0.002
- Caspian Sea	1.61	1.88	0.35	0.41	0.09	0.06
- Mediterranean Sea	0.03	0.05	0.004	0.01	0.001	0.001
- North Sea	0.0	0.00	0.00	0.00	0.00	0.00
Mean annual air concentrations, ng/m <sup>3</sup>	5.3	3.37	0.14	0.14	1.49	1.31

\* expert estimates

## 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 <sup>b</sup>	T		g TEQ <sup>a</sup>		kg		kg	
	4.2	5.5	98	108	0.004	0.005	4.6	0.969
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	853.3	1542.7	880.8	847.6	2958.2	337.8	64.37	16.05
- Anthropogenic deposition from national sources	639.3	971.7	199.3	219.5	0.00	0.00	1.63	0.34
- Anthropogenic deposition from other countries	112.7	278.7	81.96	54.13	3.22	0.92	6.25	1.25
- Intercontinental transport (global sources) <sup>c</sup>	-	-	34.12	25.69	719.3	95.9	10.26	1.75
- Secondary sources (re-volatilization) <sup>d</sup>	101.3	292.2	565.4	548.3	2235.7	240.9	46.24	12.72
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	236.2	1017.8	110.3	129.4	0.00	0.00	1.45	0.32
Deposition to the regional seas								
- Baltic Sea	0.26	6.02	0.10	0.51	2.7E-07	2.3E-07	3.1E-04	2.4E-04
- Black Sea	1.67	26.00	0.67	1.48	4.9E-06	1.0E-05	3.7E-03	1.8E-03
- Caspian Sea	113.3	192.1	26.19	27.92	9.3E-05	9.9E-05	1.9E-01	3.9E-02
- Mediterranean Sea	0.67	24.16	0.75	1.54	4.0E-06	9.2E-06	2.9E-03	1.3E-03
- North Sea	0.09	4.81	0.03	0.27	1.3E-07	1.7E-07	1.0E-04	1.1E-04
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>	
	0.12	0.18	20.96	0.02	263.7	31.16	1.76	0.47

<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