

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	6.9*	8.7*	0.210*	0.276*	0.253*	0.316*
Deposition to the country						
Total deposition to the country, t	124	48.33	2.52	1.54	1.21	0.96
- Anthropogenic deposition from national sources, t	1.9	2.23	0.06	0.08	0.04	0.02
- Anthropogenic deposition from other countries, t	39.9	6.43	0.69	0.42	0.22	0.09
- Intercontinental transport (non-EMEP sources), t	26.8	14.65	1.42	0.74	0.02	0.02
- Secondary sources (wind re-suspension), t	55	25.02	0.34	0.31	0.92	0.82
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	3.43	4.36	0.10	0.14	0.06	0.03
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.001	0.003	0.00	0.00	0.00	0.00
- Black Sea	0.35	0.66	0.01	0.02	0.004	0.003
- Caspian Sea	0.26	0.28	0.01	0.01	0.005	0.002
- Mediterranean Sea	0.05	0.07	0.001	0.002	0.00	0.00
- North Sea	0.00	0.001	0.00	0.00	0.00	0.00
Mean annual air concentrations, ng/m <sup>3</sup>	3.16	1.54	0.06	0.05	1.41	1.23

\* 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	t		g TEQ <sup>a</sup>		kg		kg	
	0.081 <sup>b</sup>	0.370	122 <sup>b</sup>	85 <sup>b</sup>	0.003 <sup>b</sup>	0.003 <sup>b</sup>	24 <sup>b</sup>	6.1 <sup>b</sup>
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	266.2	621.5	940.7	836.1	3182.4	377.6	78.14	21.32
- Anthropogenic deposition from national sources	13.9	64.3	294.0	206.6	0.00	0.00	11.10	2.70
- Anthropogenic deposition from other countries	216.5	429.2	104.3	85.18	4.26	1.47	5.84	1.24
- Intercontinental transport (global sources) <sup>c</sup>	-	-	33.03	25.14	704.6	98.2	10.29	1.76
- Secondary sources (re-volatilization) <sup>d</sup>	35.70	128.0	509.5	519.2	2473.5	278.0	50.91	15.61
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	8.4	85.5	177.50	124.73	0.00	0.00	6.96	1.79
Deposition to the regional seas								
- Baltic Sea	0.01	0.50	0.22	0.51	2.3E-07	1.7E-07	3.1E-03	1.9E-03
- Black Sea	0.93	8.11	15.60	12.37	3.7E-05	4.1E-05	4.7E-01	1.3E-01
- Caspian Sea	0.27	2.98	3.81	1.94	6.6E-06	5.5E-06	1.2E-01	2.3E-02
- Mediterranean Sea	0.03	2.40	1.85	2.20	5.5E-06	9.7E-06	3.6E-02	1.8E-02
- North Sea	0.00	0.31	0.06	0.22	1.0E-07	1.4E-07	8.8E-04	8.0E-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>	
	0.03	0.07	28.15	0.02	269.7	33.72	2.23	0.63

<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