

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	585*	56	22*	2.0	7.5*	4.3
Deposition to the country						
Total deposition to the country, t	934	257.09	21.58	8.39	5.36	3.29
- Anthropogenic deposition from national sources, t	203	19.69	8.45	0.81	1.69	0.86
- Anthropogenic deposition from other countries, t	430	46.67	5.26	1.60	1.65	0.36
- Intercontinental transport (non-EMEP sources), t	14.8	13.67	7.56	5.62	0.08	0.07
- Secondary sources (wind re-suspension), t	286	177.06	0.30	0.36	1.94	2.00
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	280	26.12	10.14	0.91	1.25	0.55
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	28.8	2.46	0.76	0.06	0.13	0.05
- Black Sea	21.7	2.24	0.67	0.07	0.08	0.04
- Caspian Sea	0.9	0.07	0.03	0.003	0.005	0.002
- Mediterranean Sea	2.28	0.22	0.09	0.01	0.01	0.004
- North Sea	1.38	0.07	0.05	0.002	0.01	0.002
Mean annual air concentrations, ng/m <sup>3</sup>	18.7	3.59	0.46	0.11	1.69	1.41

\* 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	
	41 <sup>b</sup>	38	1537	169	1.6	1.9	60 <sup>b</sup>	8.1 <sup>b</sup>
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	16022.1	17807.3	7969.7	1807.5	10443.1	1217.1	288.7	72.50
- Anthropogenic deposition from national sources	11176.1	10760.2	4098.0	344.3	17.50	0.62	32.38	4.25
- Anthropogenic deposition from other countries	2986.5	4591.2	586.1	270.6	40.00	18.50	38.28	6.67
- Intercontinental transport (global sources) <sup>c</sup>	-	-	96.42	56.37	2279.7	287.5	32.95	4.89
- Secondary sources (re-volatilization) <sup>d</sup>	1859.5	2455.9	3189.2	1136.3	8105.9	910.4	185.1	56.69
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	5001.3	9875.6	2531.4	226.8	10.46	0.38	16.66	2.37
Deposition to the regional seas								
- Baltic Sea	45.03	114.1	13.60	1.69	1.1E-02	4.7E-04	3.9E-02	5.6E-03
- Black Sea	366.9	609.9	129.1	10.54	2.8E-01	9.5E-03	5.4E-01	7.2E-02
- Caspian Sea	6.93	24.45	5.49	0.34	2.6E-02	9.8E-04	3.4E-02	3.8E-03
- Mediterranean Sea	165.1	958.3	141.3	15.26	4.2E-01	1.5E-02	6.1E-01	9.7E-02
- North Sea	5.97	45.35	3.19	0.71	6.6E-03	2.6E-04	1.2E-02	2.3E-03
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>	
	0.59	0.70	116.6	0.02	258.8	31.82	2.65	0.67

<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