

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	6.4*	0.196*	0.166*	0.086*	0.048*	0.105*
Deposition to the country						
Total deposition to the country, t	34.2	15.87	0.75	0.53	0.84	0.89
- Anthropogenic deposition from national sources, t	1.3	0.04	0.03	0.02	0.00	0.01
- Anthropogenic deposition from other countries, t	11	0.43	0.09	0.02	0.06	0.01
- Intercontinental transport (non-EMEP sources), t	3.6	3.81	0.51	0.38	0.01	0.01
- Secondary sources (wind re-suspension), t	18.3	11.60	0.12	0.13	0.76	0.87
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	0.28	0.01	0.01	0.00	0.01	0.002
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.014	0.00	0.00	0.00	0.00	0.00
- Black Sea	0.001	0.00	0.00	0.00	0.00	0.00
- Caspian Sea	0.00	0.00	0.00	0.00	0.00	0.00
- Mediterranean Sea	0.005	0.00	0.00	0.00	0.00	0.00
- North Sea	0.13	0.004	0.003	0.002	0.00	0.00
Mean annual air concentrations, ng/m <sup>3</sup>	0.46	0.18	0.01	0.01	1.48	1.30

\* 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	
	0.003	0.006 <sup>b</sup>	13	1.3 <sup>b</sup>	0.077	0.041 <sup>b</sup>	2.2 <sup>b</sup>	0.278 <sup>b</sup>
Deposition to the country	kg		g TEQ		kg		kg	
Total deposition to the country	351.1	244.5	329.1	140.2	1694.8	215.7	56.30	7.74
- Anthropogenic deposition from national sources	1.1	1.9	21.76	1.22	0.01	0.00	0.72	0.09
- Anthropogenic deposition from other countries	319.3	224.4	70.97	16.29	7.00	0.08	5.19	0.57
- Intercontinental transport (global sources) <sup>c</sup>	-	-	132.3	69.20	1038.9	141.2	32.20	4.04
- Secondary sources (re-volatilization) <sup>d</sup>	30.68	18.18	104.1	53.52	648.9	74.4	18.20	3.05
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	0.1	0.3	6.50	0.32	0.01	0.01	0.28	0.04
Deposition to the regional seas								
- Baltic Sea	4.1E-03	1.3E-02	1.3E-01	7.3E-03	1.6E-04	1.0E-04	5.1E-03	7.8E-04
- Black Sea	3.5E-04	2.1E-03	2.9E-02	1.5E-03	4.2E-05	2.2E-05	8.9E-04	1.2E-04
- Caspian Sea	6.0E-05	4.7E-04	9.3E-03	3.9E-04	1.8E-05	1.0E-05	4.4E-04	4.8E-05
- Mediterranean Sea	5.3E-04	7.2E-03	1.4E-01	7.3E-03	1.5E-04	8.9E-05	3.7E-03	5.4E-04
- North Sea	1.1E-02	4.1E-02	3.5E-01	2.0E-02	3.5E-04	1.8E-04	1.1E-02	1.5E-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>	
	0.01	0.005	4.35	0.001	161.45	20.57	0.96	0.13

<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