

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	62	3.7*	0.308	0.117*	0.273	0.117*
<b>Deposition to the country</b>						
Total deposition to the country, t	146	36.46	1.81	0.84	0.48	0.43
- Anthropogenic deposition from national sources, t	10.60	0.69	0.05	0.02	0.03	0.01
- Anthropogenic deposition from other countries, t	71.30	8.39	0.49	0.22	0.15	0.07
- Intercontinental transport (non-EMEP sources), t	5.45	3.56	1.19	0.52	0.01	0.01
- Secondary sources (wind re-suspension), t	58.80	23.81	0.08	0.08	0.28	0.34
<b>Deposition from the country anthropogenic sources</b>						
Deposition to other countries (EMEP region), t	24.80	1.39	0.12	0.04	0.04	0.01
Deposition to the regional seas (Pb - t, Cd, Hg - kg):						
- Baltic Sea	0.10	0.00	0.46	0.10	0.16	0.03
- Black Sea	0.89	0.04	3.99	1.32	1.21	0.19
- Caspian Sea	0.04	0.00	0.20	0.09	0.13	0.02
- Mediterranean Sea	12.70	0.76	67.87	23.99	23.48	4.97
- North Sea	0.11	0.00	0.51	0.05	0.21	0.02
Mean annual air concentrations, ng/m <sup>3</sup>	14.50	2.47	0.15	0.06	1.57	1.35

\* 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	
<b>Emissions</b>		<b>t</b>		<b>g TEQ<sup>a</sup></b>		<b>kg</b>		<b>kg</b>	
		6.2	2.4 <sup>b</sup>	26	32 <sup>b</sup>	0.218	0.065 <sup>b</sup>	3.2 <sup>b</sup>	0.411 <sup>b</sup>
<b>Deposition to the country</b>		<b>kg</b>		<b>g TEQ</b>		<b>kg</b>		<b>kg</b>	
Total deposition to the country	1525.4	1292.2	415.6	291.9	1042.2	124.9	39.91	9.08	
- Anthropogenic deposition from national sources	918.0	385.8	49.96	60.49	0.05	0.01	1.14	0.14	
- Anthropogenic deposition from other countries	456.6	711.6	124.2	55.76	4.72	2.02	7.49	1.34	
- Intercontinental transport (global sources) <sup>c</sup>	-	-	15.81	11.48	313.2	41.7	5.82	0.89	
- Secondary sources (re-volatilization) <sup>d</sup>	150.8	194.7	225.7	164.2	724.2	81.1	25.45	6.71	
<b>Deposition from the country anthropogenic sources</b>									
Deposition to other countries (EMEP region)	711.9	549.7	41.97	49.03	0.04	0.01	1.04	0.14	
<b>Deposition to the regional seas</b>									
- Baltic Sea	2.25	3.13	0.11	0.19	2.7E-05	7.8E-06	1.3E-03	1.7E-04	
- Black Sea	8.88	13.31	0.33	0.54	2.2E-04	7.7E-05	4.6E-03	8.7E-04	
- Caspian Sea	0.17	1.26	0.04	0.06	5.6E-05	1.7E-05	1.1E-03	1.6E-04	
- Mediterranean Sea	297.2	193.2	13.27	15.81	1.0E-02	2.7E-03	2.3E-01	2.9E-02	
- North Sea	0.28	1.22	0.05	0.07	2.7E-05	5.7E-06	7.1E-04	8.2E-05	
<b>Mean annual air concentrations</b>		<b>ng/m<sup>3</sup></b>		<b>fg TEQ/m<sup>3</sup></b>		<b>pg/m<sup>3</sup></b>		<b>pg/m<sup>3</sup></b>	
		0.43	0.27	26.39	0.02	205.73	25.90	2.48	0.59

<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