

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	623	7.9	5.2	0.470	6.3	0.603
Deposition to the country						
Total deposition to the country, t	484	99.74	6.78	2.81	3.26	1.13
- Anthropogenic deposition from national sources, t	145	1.81	1.34	0.12	1.20	0.09
- Anthropogenic deposition from other countries, t	207	28.82	2.77	0.99	1.40	0.30
- Intercontinental transport (non-EMEP sources), t	4.88	4.78	2.58	1.57	0.03	0.02
- Secondary sources (wind re-suspension), t	126	64.33	0.09	0.13	0.63	0.72
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	392	4.83	3.21	0.29	1.54	0.11
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	4.24	0.09	0.03	0.01	0.01	0.001
- Black Sea	8.28	0.08	0.06	0.004	0.02	0.001
- Caspian Sea	0.94	0.005	0.01	0.00	0.00	0.00
- Mediterranean Sea	25.5	0.40	0.20	0.02	0.06	0.01
- North Sea	2.29	0.03	0.02	0.001	0.01	0.001
Mean annual air concentrations, ng/m <sup>3</sup>	40.1	6.95	0.51	0.17	1.93	1.45

## 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	
	13	9.2	182	42	6.9	2.1	48 <sup>b</sup>	6.2 <sup>b</sup>
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	5803.4	5515.9	2131.7	838.2	3464.7	413.6	176.2	41.03
- Anthropogenic deposition from national sources	2960.8	2052.6	439.9	110.4	2.20	0.61	22.97	2.87
- Anthropogenic deposition from other countries	2196.7	2616.8	574.7	173.4	18.38	5.08	35.15	5.25
- Intercontinental transport (global sources) <sup>c</sup>	-	-	31.57	20.97	755.2	96.8	13.20	1.93
- Secondary sources (re-volatilization) <sup>d</sup>	646.0	846.47	1085.5	533.4	2688.9	311.1	104.9	30.97
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	3248.8	3364.6	394.0	97.27	1.97	0.55	18.45	2.44
Deposition to the regional seas								
- Baltic Sea	40.17	55.69	2.62	0.86	3.0E-03	1.1E-03	5.3E-02	7.9E-03
- Black Sea	36.60	50.71	3.62	0.81	9.1E-03	2.8E-03	8.5E-02	1.2E-02
- Caspian Sea	2.81	4.58	0.45	0.08	2.1E-03	7.8E-04	1.7E-02	2.0E-03
- Mediterranean Sea	97.34	305.24	13.37	5.51	7.8E-02	2.3E-02	4.2E-01	7.4E-02
- North Sea	10.28	26.91	0.68	0.45	1.6E-03	5.5E-04	1.7E-02	3.3E-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>	
	0.76	0.62	76.52	0.02	272.8	33.97	4.76	1.06

<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