

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	187	4.7	1.2	0.476	1.4	0.391
Deposition to the country						
Total deposition to the country, t	416	74.77	5.92	2.57	5.38	4.13
- Anthropogenic deposition from national sources, t	67.7	1.56	0.47	0.19	0.20	0.04
- Anthropogenic deposition from other countries, t	220	10.78	2.42	0.58	1.01	0.12
- Intercontinental transport (non-EMEP sources), t	13.5	10.61	2.63	1.47	0.05	0.05
- Secondary sources (wind re-suspension), t	114	51.81	0.40	0.34	4.12	3.92
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	61.2	1.32	0.31	0.13	0.18	0.03
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	6.95	0.15	0.04	0.02	0.02	0.003
- Black Sea	0.36	0.01	0.002	0.001	0.001	0.00
- Caspian Sea	0.11	0.001	0.001	0.00	0.001	0.000
- Mediterranean Sea	0.44	0.01	0.003	0.001	0.003	0.00
- North Sea	14.7	0.40	0.13	0.05	0.04	0.01
Mean annual air concentrations, ng/m <sup>3</sup>	1.71	0.20	0.02	0.01	1.48	1.29

## 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	
	5.1 <sup>b</sup>	1.1 <sup>b</sup>	126	22	125	1.3	21 <sup>b</sup>	1.5 <sup>b</sup>
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	5018.2	3121.4	1852.4	578.4	9210.5	1144.7	263.0	40.77
- Anthropogenic deposition from national sources	1415.4	367.4	289.9	54.20	285.97	0.30	9.58	0.68
- Anthropogenic deposition from other countries	3185.9	2450.3	574.0	146.1	46.27	1.24	43.43	5.64
- Intercontinental transport (global sources) <sup>c</sup>	-	-	298.5	144.2	3734.9	499.0	86.38	9.81
- Secondary sources (re-volatilization) <sup>d</sup>	416.9	303.7	690.1	233.9	5143.4	644.2	123.6	24.65
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	598.0	212.1	180.7	26.95	377.0	0.33	5.10	0.35
Deposition to the regional seas								
- Baltic Sea	41.84	15.08	4.81	1.17	9.7E+00	1.0E-02	1.9E-01	1.4E-02
- Black Sea	1.42	1.34	0.46	0.10	1.5E+00	9.9E-04	1.4E-02	8.5E-04
- Caspian Sea	0.42	0.23	0.19	0.02	5.2E-01	4.5E-04	7.3E-03	2.9E-04
- Mediterranean Sea	1.90	3.72	1.37	0.34	3.3E+00	2.5E-03	3.8E-02	2.5E-03
- North Sea	269.8	78.04	14.32	5.00	3.0E+01	3.1E-02	1.0E+00	7.4E-02
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>	
	0.04	0.03	7.80	0.002	187.1	21.27	1.10	0.18

<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