

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	3042	61	23	2.1	38	5.8
Deposition to the country						
Total deposition to the country, t	923	112.68	11.00	2.99	8.71	3.17
- Anthropogenic deposition from national sources, t	561	15.35	5.11	0.54	6.41	0.87
- Anthropogenic deposition from other countries, t	139	10.83	1.12	0.39	0.50	0.10
- Intercontinental transport (non-EMEP sources), t	12.6	8.10	4.41	1.80	0.03	0.03
- Secondary sources (wind re-suspension), t	210	78.39	0.35	0.26	1.77	2.16
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	901	15.95	6.99	0.55	4.91	0.44
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	68	1.21	0.50	0.04	0.33	0.03
- Black Sea	4.65	0.06	0.03	0.002	0.03	0.002
- Caspian Sea	1.23	0.01	0.01	0.00	0.01	0.001
- Mediterranean Sea	19.3	0.55	0.15	0.02	0.11	0.01
- North Sea	675	13.73	4.99	0.48	3.95	0.43
Mean annual air concentrations, ng/m <sup>3</sup>	34.8	2.99	0.32	0.06	1.78	1.38

## 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	
	61	3.5	1304	212	3156	25	912 <sup>b</sup>	75 <sup>b</sup>
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	17399.7	2128.0	5035.6	1140.1	5912.1	636.8	787.5	97.10
- Anthropogenic deposition from national sources	14171.0	867.5	2455.9	451.6	649.6	5.68	398.8	34.57
- Anthropogenic deposition from other countries	1391.5	987.6	304.4	57.29	16.41	0.89	35.90	7.07
- Intercontinental transport (global sources) <sup>c</sup>	-	-	224.43	102.21	2513.4	325.0	90.37	9.57
- Secondary sources (re-volatilization) <sup>d</sup>	1837.3	272.9	2050.9	529.0	2732.6	305.2	262.4	45.90
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	6237.0	595.9	1272.7	203.7	789.2	5.74	203.3	16.64
Deposition to the regional seas								
- Baltic Sea	368.7	28.90	37.45	5.69	1.4E+01	1.1E-01	5.4E+00	4.4E-01
- Black Sea	24.56	2.96	5.48	0.79	2.5E+00	1.9E-02	5.9E-01	3.9E-02
- Caspian Sea	5.35	0.49	1.66	0.16	9.8E-01	8.3E-03	2.7E-01	1.3E-02
- Mediterranean Sea	47.80	17.72	18.62	5.22	1.1E+01	1.0E-01	2.4E+00	2.5E-01
- North Sea	3590.5	220.9	352.3	56.30	1.1E+02	8.4E-01	5.1E+01	4.4E+00
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>	
	0.42	0.06	37.25	0.01	235.97	24.56	7.43	0.91

<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