

## HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	4591	138	20	2.5	25	4.1
Deposition to the country						
Total deposition to the country, t	3060	548.45	27.64	11.39	12.65	6.67
- Anthropogenic deposition from national sources, t	1590	51.08	7.31	0.90	5.42	0.54
- Anthropogenic deposition from other countries, t	770	51.70	6.51	1.99	2.63	0.57
- Intercontinental transport (non-EMEP sources), t	44	41.35	12.92	7.46	0.11	0.10
- Secondary sources (wind re-suspension), t	657	404.33	0.91	1.03	4.50	5.46
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	1330	42.31	7.36	0.77	3.85	0.30
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	51.1	2.02	0.29	0.03	0.13	0.01
- Black Sea	8.72	0.15	0.04	0.003	0.02	0.001
- Caspian Sea	1.52	0.02	0.01	0.00	0.01	0.00
- Mediterranean Sea	301	11.34	1.04	0.25	0.49	0.07
- North Sea	223	9.10	1.35	0.17	0.73	0.07
Mean annual air concentrations, ng/m <sup>3</sup>	34.6	3.83	0.25	0.07	1.66	1.35

## 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	
	11	5.0	1746	81	1200	17	1536 <sup>b</sup>	287 <sup>b</sup>
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	10548.2	6692.0	14208.60	2462.12	20809.6	2236.0	2752.1	582.6
- Anthropogenic deposition from national sources	3248.5	1636.1	4741.9	220.8	451.3	6.05	887.3	171.6
- Anthropogenic deposition from other countries	6196.0	3959.8	1035.6	191.0	122.9	5.61	230.1	33.46
- Intercontinental transport (global sources) <sup>c</sup>	-	-	322.1	177.7	5909.9	802.0	167.5	23.54
- Secondary sources (re-volatilization) <sup>d</sup>	1103.8	1096.0	8109.0	1872.6	14325.4	1422.3	1467.3	354.1
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	1552.0	834.4	2398.9	114.7	197.7	2.73	335.3	54.88
Deposition to the regional seas								
- Baltic Sea	54.59	22.62	42.54	1.71	1.6E+00	2.7E-02	3.1E+00	5.4E-01
- Black Sea	6.16	5.91	9.31	0.52	5.9E-01	9.4E-03	7.4E-01	1.3E-01
- Caspian Sea	0.75	0.85	2.18	0.10	2.5E-01	4.5E-03	2.7E-01	4.5E-02
- Mediterranean Sea	82.32	154.3	192.5	18.16	1.2E+01	2.1E-01	2.3E+01	5.0E+00
- North Sea	176.8	95.12	221.0	14.20	8.5E+00	1.0E-01	1.9E+01	3.4E+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>	
	0.16	0.10	52.94	0.01	259.9	27.22	10.98	2.35

<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