

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	642*	561	58*	15	13*	10
Deposition to the country						
Total deposition to the country, t	1710.81	513.00	59.81	17.00	8.49	5.83
- Anthropogenic deposition from national sources, t	264.57	245.00	24.50	6.91	3.17	2.60
- Anthropogenic deposition from other countries, t	618.09	38.20	6.81	1.52	2.63	0.64
- Intercontinental transport (non-EMEP sources), t	10.92	10.40	0.26	0.31	2.59	2.47
- Secondary sources (wind re-suspension), t	817.23	219.00	28.24	8.29	0.10	0.11
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	302.97	237.00	27.24	6.41	2.02	1.49
Deposition to the regional seas (Pb - t, Cd, Hg - kg):						
- Baltic Sea	24.29	22.80	2311.31	630.00	176.52	147.00
- Black Sea	6.12	3.89	508.64	101.00	30.93	16.30
- Caspian Sea	1.04	0.41	87.40	10.30	5.91	2.61
- Mediterranean Sea	7.56	6.69	615.26	165.00	34.97	31.80
- North Sea	5.58	11.20	444.80	281.00	27.89	58.60
Mean annual air concentrations, ng/m ³	21.23	8.01	0.77	0.23	1.76	1.56

* expert estimates

POP emissions and pollution levels in 1990 and 2013

	B[a]P		PCDD/Fs		HCB	
	1990	2013	1990	2013	1990	2013
Emissions	t		g TEQ ^a		kg	
	49 ^b	46	283 ^b	237	9.7 ^b	13
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	23581.3	17631.1	6187.0	1681.0	9924.8	774.1
- Anthropogenic deposition from national sources	12541.6	12778.3	742.4	616.6	3.0	4.2
- Anthropogenic deposition from other countries	9492.9	3577.1	2399.5	258.8	54.1	9.8
- Intercontinental transport (global sources) ^c	0.0	0.0	406.7	170.1	2876.1	220.6
- Secondary sources (re-volatilization) ^d	1546.9	1275.6	2647.0	635.5	6991.5	539.5
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	10463.1	9617.7	515.9	429.6	2.7	3.4
Deposition to the regional seas						
- Baltic Sea	685.02	633.31	23.51	18.39	3.3E-02	5.7E-02
- Black Sea	104.16	71.55	5.33	2.71	1.9E-02	1.7E-02
- Caspian Sea	13.31	9.44	0.73	0.42	4.2E-03	4.1E-03
- Mediterranean Sea	113.49	115.68	10.01	8.82	5.5E-02	8.2E-02
- North Sea	114.03	182.52	2.87	7.21	6.6E-03	2.1E-02
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.72	0.54	55.20	16.99	246.8	19.12

^a Toxicity of PCDD/Fs is expressed according to the NATO toxic equivalents scheme (I-TEQ)

^b Expert estimate

^c Model assessment of B[a]P pollution was focused on the emission sources of the EMEP countries neglecting the intercontinental transport

^d Estimates of secondary sources contribution for B[a]P represent re-volatilization fluxes resulted from the accumulation of pollutant during one year