

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	765*	139*	17*	18*	18*	24*
Deposition to the country						
Total deposition to the country, t	1159.17	622.00	22.60	20.40	10.61	11.20
- Anthropogenic deposition from national sources, t	244.49	43.10	6.02	6.02	2.96	3.66
- Anthropogenic deposition from other countries, t	293.99	23.80	3.84	0.73	0.76	0.23
- Intercontinental transport (non-EMEP sources), t	245.04	146.00	2.71	3.33	6.62	7.04
- Secondary sources (wind re-suspension), t	375.66	409.00	10.03	10.30	0.28	0.29
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	144.48	26.50	2.87	3.78	0.77	1.18
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.14	0.07	2.22	9.02	1.03	3.36
- Black Sea	46.37	9.02	838.98	1330.00	330.21	578.00
- Caspian Sea	4.96	0.56	110.27	85.00	26.57	26.50
- Mediterranean Sea	71.03	13.60	1361.56	1650.00	564.59	761.00
- North Sea	0.11	0.01	1.66	1.89	0.90	1.89
Mean annual air concentrations, ng/m ³	5.99	1.61	0.11	0.08	1.46	1.40

* expert estimates

POP emissions and pollution levels in 1990 and 2013

	B[a]P		PCDD/Fs		HCB	
	1990	2013	1990	2013	1990	2013
Emissions ^b	t		g TEQ ^a		kg	
	47	34	1012	1088	2.3	2.3
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	14387.2	10817.2	18238.2	9259.6	17525.9	1357.7
- Anthropogenic deposition from national sources	11115.6	8147.7	3174.2	3482.6	0.6	0.6
- Anthropogenic deposition from other countries	1557.7	1329.0	747.8	288.5	39.6	15.2
- Intercontinental transport (global sources) ^c	0.0	0.0	1215.9	558.4	6720.4	563.9
- Secondary sources (re-volatilization) ^d	1714.0	1340.5	13127.2	4930.1	10765.3	778.0
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	1501.6	1372.7	384.7	546.9	0.1	0.1
Deposition to the regional seas						
- Baltic Sea	7.68	3.36	1.47	1.59	1.1E-04	2.4E-04
- Black Sea	820.75	677.75	128.04	161.71	2.6E-02	2.7E-02
- Caspian Sea	13.79	13.49	4.45	5.83	1.2E-03	1.1E-03
- Mediterranean Sea	799.20	552.00	255.01	237.33	5.0E-02	4.8E-02
- North Sea	2.88	2.09	0.63	1.69	8.3E-05	1.7E-04
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.16	0.11	22.10	17.78	169.9	13.67

^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