

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	585*	36	22*	2.9	7.5*	1.9
Deposition to the country						
Total deposition to the country, t	971.84	236.00	23.35	7.65	4.63	3.12
- Anthropogenic deposition from national sources, t	203.18	12.90	8.46	1.13	1.48	0.42
- Anthropogenic deposition from other countries, t	385.57	33.90	4.64	1.33	1.06	0.38
- Intercontinental transport (non-EMEP sources), t	14.21	14.80	0.29	0.40	2.00	2.20
- Secondary sources (wind re-suspension), t	368.89	174.00	9.97	4.79	0.10	0.12
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	281.00	15.90	10.15	1.26	0.96	0.24
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	2.30	0.17	89.71	13.20	5.92	2.56
- Black Sea	28.92	2.03	760.58	144.00	102.73	22.90
- Caspian Sea	1.38	0.06	45.82	4.36	4.37	0.88
- Mediterranean Sea	21.72	1.24	672.03	89.40	60.89	14.10
- North Sea	0.91	0.04	32.50	3.19	2.54	1.07
Mean annual air concentrations, ng/m ³	20.57	3.04	0.52	0.11	1.72	1.50

* 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	
	40 ^b	24	1537	205	50	3
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	15629.8	10056.1	8661.8	1664.8	8777.7	695.8
- Anthropogenic deposition from national sources	10917.8	6860.9	4234.1	569.3	16.7	1.0
- Anthropogenic deposition from other countries	3308.9	2176.9	519.2	239.0	33.6	17.8
- Intercontinental transport (global sources) ^c	0.0	0.0	304.5	119.1	2374.3	188.7
- Secondary sources (re-volatilization) ^d	1403.2	1018.4	3604.6	737.4	6353.1	488.4
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	5814.4	3840.0	2378.0	315.2	10.0	0.6
Deposition to the regional seas						
- Baltic Sea	64.18	29.16	11.78	1.41	1.1E-02	1.4E-03
- Black Sea	407.99	217.88	129.66	15.57	3.3E-01	1.8E-02
- Caspian Sea	7.53	5.16	4.86	0.60	2.6E-02	1.2E-03
- Mediterranean Sea	201.82	101.37	137.19	15.50	4.4E-01	2.7E-02
- North Sea	9.96	11.45	2.66	1.13	6.7E-03	7.6E-04
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.67	0.39	115.00	18.92	212.6	17.08

^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