

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	4736*	705*	12*	11*	21*	20*
Deposition to the country						
Total deposition to the country, t	4940	1257.09	70.45	37.58	25.76	17.76
- Anthropogenic deposition from national sources, t	1790	241.60	4.84	4.33	4.78	2.97
- Anthropogenic deposition from other countries, t	1270	67.37	14.85	4.33	3.71	0.77
- Intercontinental transport (non-EMEP sources), t	280	148.93	45.75	24.25	0.27	0.28
- Secondary sources (wind re-suspension), t	1600	799.20	5.01	4.67	17.00	13.74
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	2000	299.52	4.99	4.39	3.81	1.80
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.48	0.42	0.001	0.01	0.005	0.003
- Black Sea	2.89	2.26	0.01	0.03	0.01	0.01
- Caspian Sea	30.1	7.50	0.10	0.14	0.11	0.07
- Mediterranean Sea	0.7	0.71	0.001	0.01	0.01	0.005
- North Sea	0.15	0.21	0.00	0.002	0.01	0.002
Mean annual air concentrations, ng/m ³	13.2	4.01	0.14	0.11	1.54	1.36

* expert estimates

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 ^b	t		g TEQ ^a		kg		kg	
	14	19	288	312	1.1	1.1	75	19
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	6978.9	11483.2	5966.4	4666.8	73884.9	8717.7	1092.1	265.6
- Anthropogenic deposition from national sources	4031.1	5705.0	783.0	828.0	0.34	0.35	39.56	9.77
- Anthropogenic deposition from other countries	2207.8	4012.5	920.2	515.5	84.31	16.18	91.02	17.30
- Intercontinental transport (global sources) ^c	-	-	518.8	350.1	16223.6	2200.3	211.49	32.38
- Secondary sources (re-volatilization) ^d	739.9	1765.5	3744.4	2973.2	57576.7	6501.0	750.1	206.2
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	2015	3816	324	394	0.15	0.07	9.12	3.06
Deposition to the regional seas								
- Baltic Sea	1.03	20.77	0.13	1.76	7.2E-05	4.5E-05	3.4E-03	6.9E-03
- Black Sea	1.44	37.04	0.33	2.88	1.6E-04	3.5E-04	1.0E-02	1.6E-02
- Caspian Sea	28.18	88.15	5.06	7.39	1.6E-03	1.7E-03	1.8E-01	5.8E-02
- Mediterranean Sea	0.30	44.60	0.23	3.63	1.8E-04	3.4E-04	5.5E-03	1.1E-02
- North Sea	0.49	9.73	0.07	0.64	2.9E-05	3.8E-05	1.2E-03	2.2E-03
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.04	0.07	8.96	0.01	251.7	30.09	1.26	0.32

^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