

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	12*	2.5	2.3*	0.352	0.984*	0.456
Deposition to the country						
Total deposition to the country, t	139.89	86.2	3.36	2.67	1.30	1.14
- Anthropogenic deposition from national sources, t	2.78	0.551	0.53	0.09	0.10	0.04
- Anthropogenic deposition from other countries, t	33.76	3.53	0.41	0.17	0.08	0.05
- Intercontinental transport (non-EMEP sources), t	47.70	20.8	0.52	0.46	1.08	0.99
- Secondary sources (wind re-suspension), t	55.65	61.3	1.89	1.95	0.05	0.05
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	5.36	1.09	1.01	0.15	0.10	0.05
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.001	0.001	0.19	0.09	0.04	0.04
- Black Sea	0.06	0.02	10.83	2.43	0.81	0.53
- Caspian Sea	1.59	0.28	349.77	37.30	59.44	20.90
- Mediterranean Sea	0.03	0.01	3.68	0.96	0.32	0.25
- North Sea	0.0003	0.00	0.06	0.02	0.02	0.03
Mean annual air concentrations, ng/m ³	4.67	2.76	0.13	0.09	1.48	1.39

* 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	
	0.004 ^b	0.439	0.083 ^b	255	7.2E-05 ^b	1.4
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	123.2	168.9	1291.2	1294.1	2089.6	160.4
- Anthropogenic deposition from national sources	0.7	77.9	0.2	534.2	0.0	0.3
- Anthropogenic deposition from other countries	106.6	69.0	41.6	32.8	2.7	0.8
- Intercontinental transport (global sources) ^c	0.0	0.0	95.8	52.7	741.2	63.2
- Secondary sources (re-volatilization) ^d	15.9	22.0	1151.3	674.4	1345.7	96.2
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	0.3	29.3	0.1	237.0	0.0	0.2
Deposition to the regional seas						
- Baltic Sea	0.00	0.02	0.00	0.23	4.4E-09	1.3E-04
- Black Sea	0.00	0.28	0.00	1.91	8.1E-08	2.4E-03
- Caspian Sea	0.09	10.86	0.03	67.33	1.6E-06	3.0E-02
- Mediterranean Sea	0.00	0.03	0.00	1.22	6.6E-08	2.0E-03
- North Sea	0.00	0.01	0.00	0.14	2.0E-09	7.3E-05
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.02	0.02	5.15	31.16	180.8	14.06

^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