

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	536	6.5	1.3	0.475	1.5	0.484
Deposition to the country						
Total deposition to the country, t	391.90	64.30	3.55	1.63	1.08	0.82
- Anthropogenic deposition from national sources, t	101.55	1.28	0.26	0.10	0.13	0.04
- Anthropogenic deposition from other countries, t	177.16	13.60	1.28	0.54	0.32	0.16
- Intercontinental transport (non-EMEP sources), t	6.59	4.73	0.11	0.13	0.60	0.59
- Secondary sources (wind re-suspension), t	106.60	44.70	1.90	0.86	0.03	0.03
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	306.78	3.63	0.74	0.27	0.21	0.07
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	2.13	0.04	4.54	2.32	1.27	0.51
- Black Sea	4.59	0.04	10.48	2.67	2.05	0.41
- Caspian Sea	0.33	0.004	0.73	0.25	0.32	0.09
- Mediterranean Sea	69.97	0.90	178.01	61.30	39.67	21.70
- North Sea	1.87	0.03	4.06	2.20	0.92	0.56
Mean annual air concentrations, ng/m ³	37.94	2.68	0.25	0.08	1.77	1.58

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		kg	
	4.8	2.5	35	21	0.156	0.128
Deposition to the country						
	kg		g TEQ ^a		kg	
Total deposition to the country	2606.1	1564.1	1070.6	324.1	1705.5	131.5
- Anthropogenic deposition from national sources	824.3	440.2	67.3	39.1	0.0	0.0
- Anthropogenic deposition from other countries	1486.9	947.6	228.1	80.4	10.0	1.6
- Intercontinental transport (global sources) ^c	0.0	0.0	83.9	34.9	504.8	41.0
- Secondary sources (re-volatilization) ^d	294.9	176.3	688.6	169.8	1190.6	88.9
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	1049.3	560.3	75.9	43.6	0.0	0.0
Deposition to the regional seas						
- Baltic Sea	7.68	2.58	0.26	0.11	4.3E-05	6.3E-05
- Black Sea	6.00	3.19	0.35	0.23	1.4E-04	1.2E-04
- Caspian Sea	0.21	0.21	0.05	0.04	4.2E-05	3.0E-05
- Mediterranean Sea	135.00	75.94	12.59	7.30	5.6E-03	4.6E-03
- North Sea	2.31	1.11	0.12	0.14	3.6E-05	4.4E-05
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.49	0.24	29.40	10.53	207.3	16.07

^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