

HM emissions and pollution levels in 1990 and 2013

	Pb		Cd		Hg	
	1990	2013	1990	2013	1990	2013
Emissions, t	3042	63	23	2.2	38	6.1
Deposition to the country						
Total deposition to the country, t	1046.77	163.00	12.68	4.50	7.95	3.13
- Anthropogenic deposition from national sources, t	591.10	14.10	5.03	0.52	5.39	0.89
- Anthropogenic deposition from other countries, t	138.14	13.10	1.08	0.45	0.33	0.13
- Intercontinental transport (non-EMEP sources), t	12.39	8.35	0.35	0.27	2.18	2.06
- Secondary sources (wind re-suspension), t	305.15	128.00	6.23	3.26	0.05	0.05
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	948.91	15.80	6.88	0.54	3.36	0.46
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	72.04	1.00	493.46	33.30	241.53	26.50
- Black Sea	4.95	0.06	33.90	1.93	17.56	1.86
- Caspian Sea	1.28	0.01	9.23	0.27	6.43	0.57
- Mediterranean Sea	20.59	0.59	145.92	19.10	54.70	12.80
- North Sea	711.78	12.20	4895.98	424.00	3107.63	424.00
Mean annual air concentrations, ng/m ³	40.10	3.69	0.37	0.08	1.85	1.49

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	
	61	4.0	1303	221	3156	23
Deposition to the country						
	kg		g TEQ		kg	
Total deposition to the country	17532.6	2435.8	7424.4	1653.7	5982.9	407.3
- Anthropogenic deposition from national sources	13845.9	986.4	3141.9	567.7	742.9	5.2
- Anthropogenic deposition from other countries	1948.4	1165.1	331.9	90.7	13.1	0.9
- Intercontinental transport (global sources) ^c	0.0	0.0	946.9	378.2	2679.4	218.9
- Secondary sources (re-volatilization) ^d	1738.4	284.2	3007.4	617.2	2547.4	182.3
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region)	7599.0	467.2	1484.9	220.7	665.6	4.9
Deposition to the regional seas						
- Baltic Sea	441.22	22.64	46.81	5.60	1.3E+01	9.2E-02
- Black Sea	31.70	1.48	6.29	0.80	2.5E+00	1.4E-02
- Caspian Sea	7.04	0.18	1.81	0.17	9.4E-01	5.6E-03
- Mediterranean Sea	60.10	5.61	23.56	5.09	1.1E+01	9.8E-02
- North Sea	3776.77	201.37	456.22	66.45	8.8E+01	7.5E-01
Mean annual air concentrations						
	ng/m ³		fg TEQ/m ³		pg/m ³	
	0.45	0.06	41.10	9.61	235.8	15.54

^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