

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	5433*	49*	154*	45*	81*	20*
Deposition to the country						
Total deposition to the country, t	12750	3263.81	293.05	138.55	154.06	109.72
- Anthropogenic deposition from national sources, t	3870	36.89	111.71	34.56	27.84	4.03
- Anthropogenic deposition from other countries, t	4770	451.51	55.14	13.02	16.94	3.76
- Intercontinental transport (non-EMEP sources), t	692	612.28	106.91	70.95	1.46	1.44
- Secondary sources (wind re-suspension), t	3433	2163.14	19.29	20.03	107.82	100.49
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	1082	6.06	25.64	4.56	4.45	0.33
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	52.65	0.55	0.87	0.29	0.10	0.01
- Black Sea	7.65	0.12	0.14	0.06	0.07	0.003
- Caspian Sea	1.88	0.04	0.04	0.02	0.05	0.002
- Mediterranean Sea	23.63	0.31	0.57	0.23	0.09	0.005
- North Sea	38.12	0.26	0.61	0.14	0.09	0.01
Mean annual air concentrations, ng/m ³	7.96	0.62	0.16	0.03	3.13	1.39

* 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	
	23	23	1257	1142	8.0	8.1	879	218
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	39296	43609	20652	14280	524842	58490	4402	1168.1
- Anthropogenic deposition from national sources	10216	11240	4673.6	4213.3	3.69	2.78	491	121.5
- Anthropogenic deposition from other countries	26152	26684	3858.9	1789.6	470.77	81.71	441	86.23
- Intercontinental transport (global sources) ^c	-	-	1996.0	1172.7	102032	11782	992	147.3
- Secondary sources (re-volatilization) ^d	2928.4	5685.0	10124	7104.2	422335	46623	2478.1	813.2
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	905.6	1701.1	641.56	700.05	1.25	0.76	87.67	23.79
Deposition to the regional seas								
- Baltic Sea	35.28	74.87	21.87	39.10	1.2E-02	1.1E-02	3.0E+00	1.0E+00
- Black Sea	17.58	37.40	25.06	29.19	2.0E-02	2.0E-02	3.1E+00	9.2E-01
- Caspian Sea	16.55	23.29	15.06	10.59	1.3E-02	1.1E-02	2.1E+00	3.8E-01
- Mediterranean Sea	2.45	40.95	8.59	16.32	9.5E-03	1.0E-02	6.2E-01	2.5E-01
- North Sea	3.37	17.31	1.28	4.97	1.3E-03	1.2E-03	9.9E-02	5.9E-02
Mean annual air concentrations	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.08	0.04	16.42	0.01	497.3	59.04	1.89	0.57

^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