

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	505*	134*	4.5*	2.3*	13*	8.0*
Deposition to the country						
Total deposition to the country, t	444	191.86	7.40	4.86	3.41	2.63
- Anthropogenic deposition from national sources, t	98.4	26.00	0.86	0.51	1.83	1.07
- Anthropogenic deposition from other countries, t	149	20.18	1.73	0.69	0.43	0.19
- Intercontinental transport (non-EMEP sources), t	17.4	17.56	4.54	3.25	0.04	0.04
- Secondary sources (wind re-suspension), t	179	128.12	0.27	0.41	1.11	1.33
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	124	28.83	1.01	0.49	0.90	0.41
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0.29	0.04	0.002	0.001	0.002	0.001
- Black Sea	12.6	2.64	0.11	0.04	0.09	0.04
- Caspian Sea	0.5	0.13	0.004	0.002	0.01	0.002
- Mediterranean Sea	120	34.70	1.15	0.58	1.41	0.82
- North Sea	0.34	0.03	0.002	0.001	0.004	0.001
Mean annual air concentrations, ng/m ³	16.4	4.12	0.24	0.10	1.71	1.44

* expert estimates

POP emissions and pollution levels in 1990 and 2012

Greece	B[a]P		PCDD/Fs		HCB		PCB-153	
	1990	2012	1990	2012	1990	2012	1990	2012
Emissions ^b	t		g TEQ ^a		kg		kg	
	6.2	8.3	279	16	2.5	2.5	21	2.2
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	1900.8	4131.7	2306.9	1028.3	3142.3	378.7	117.3	27.96
- Anthropogenic deposition from national sources	804.3	1365.0	521.21	24.10	0.38	0.34	8.25	0.84
- Anthropogenic deposition from other countries	904.5	2113.4	428.1	238.2	10.35	3.83	16.51	3.00
- Intercontinental transport (global sources) ^c	-	-	67.71	45.83	1002.0	135.6	19.23	3.11
- Secondary sources (re-volatilization) ^d	192.0	653.3	1289.9	720.1	2129.5	238.9	73.28	21.01
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	317.8	1070.9	226.8	13.75	0.25	0.25	4.45	0.50
Deposition to the regional seas								
- Baltic Sea	1.17	4.93	0.82	0.06	1.9E-04	2.1E-04	4.9E-03	5.7E-04
- Black Sea	15.84	63.12	5.60	0.44	5.2E-03	5.1E-03	5.3E-02	6.5E-03
- Caspian Sea	0.25	5.45	0.59	0.04	7.1E-04	7.2E-04	9.0E-03	1.0E-03
- Mediterranean Sea	386.9	869.6	250.4	14.34	1.6E-01	1.5E-01	1.8E+00	1.8E-01
- North Sea	0.15	2.76	0.35	0.03	1.9E-04	1.6E-04	2.6E-03	3.3E-04
Mean annual air concentrations								
	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	0.14	0.21	35.98	0.01	217.4	26.95	2.26	0.54

^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