

HM emissions and pollution levels in 1990 and 2012

	Pb		Cd		Hg	
	1990	2012	1990	2012	1990	2012
Emissions, t	0.666*	13	0.478*	0.019	0.493*	0.005
Deposition to the country						
Total deposition to the country, t	0.63	0.47	0.01	0.01	0.005	0.002
- Anthropogenic deposition from national sources, t	0	0.08	0.003	0.000	0.003	0.00
- Anthropogenic deposition from other countries, t	0.25	0.02	0.001	0.001	0.00	0.00
- Intercontinental transport (non-EMEP sources), t	0.05	0.04	0.01	0.01	0.00	0.00
- Secondary sources (wind re-suspension), t	0.33	0.33	0.001	0.001	0.002	0.002
Deposition from the country anthropogenic sources						
Deposition to other countries (EMEP region), t	0.11	2.36	0.08	0.00	0.03	0.00
Deposition to the regional seas (Pb - t, Cd, Hg – kg):						
- Baltic Sea	0	0.01	0.00	0.00	0.00	0.00
- Black Sea	0	0.05	0.003	0.00	0.001	0.00
- Caspian Sea	0	0.01	0.00	0.00	0.00	0.00
- Mediterranean Sea	0.28	5.58	0.21	0.01	0.08	0.00
- North Sea	0	0.02	0.00	0.00	0.00	0.00
Mean annual air concentrations, ng/m ³	14.1	7.35	0.28	0.07	1.71	1.34

* expert estimates

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	B[a]P		PCDD/Fs		HCB		PCB-153	
	1990	2012	1990	2012	1990	2012	1990	2012
Emissions	t		g TEQ ^a		kg		kg	
	0.014 ^b	0.020	8.6 ^b	1.0	5.2E-04 ^b	5.4E-04	0.130 ^b	0.024 ^b
Deposition to the country								
	kg		g TEQ		kg		kg	
Total deposition to the country	3.5E-01	1.6E+00	1.7E+00	4.8E-01	1.3E+00	1.7E-01	6.6E-02	1.4E-02
- Anthropogenic deposition from national sources	5.3E-02	1.0E-01	6.4E-01	7.2E-02	1.7E-06	1.8E-06	7.4E-04	1.3E-04
- Anthropogenic deposition from other countries	2.9E-01	1.4E+00	4.7E-01	1.7E-01	6.7E-03	8.6E-04	1.9E-02	3.5E-03
- Intercontinental transport (global sources) ^c	-	-	1.1E-01	7.3E-02	7.1E-01	1.0E-01	1.6E-02	2.7E-03
- Secondary sources (re-volatilization) ^d	1.1E-02	5.7E-02	4.8E-01	1.7E-01	5.9E-01	6.6E-02	3.0E-02	8.1E-03
Deposition from the country anthropogenic sources								
Deposition to other countries (EMEP region)	2.9E-01	1.7E+00	7.9E+00	1.1E+00	4.4E-05	4.7E-05	4.6E-02	8.7E-03
Deposition to the regional seas								
- Baltic Sea	8.1E-04	7.8E-03	3.1E-02	5.2E-03	4.0E-08	5.2E-08	4.4E-05	1.1E-05
- Black Sea	3.3E-03	5.4E-02	8.9E-02	1.8E-02	3.2E-07	3.8E-07	1.9E-04	5.1E-05
- Caspian Sea	1.0E-04	7.0E-03	1.7E-02	2.8E-03	1.0E-07	1.2E-07	6.1E-05	1.3E-05
- Mediterranean Sea	7.2E-01	2.0E+00	7.8E+00	9.1E-01	4.8E-05	4.8E-05	1.6E-02	3.0E-03
- North Sea	3.4E-04	5.2E-03	2.0E-02	3.0E-03	5.4E-08	7.2E-08	3.7E-05	1.1E-05
Mean annual air concentrations								
	ng/m ³		fg TEQ/m ³		pg/m ³		pg/m ³	
	1.3E-05	5.1E-05	3.3E-02	8.7E-06	2.0E-01	2.5E-02	3.5E-03	7.8E-04

^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