

B[k]F, t	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Albania	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1
Armenia	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.92	0.94	0.96	0.98	1.0	1.0	1.1
Austria	2.1	2.2	1.6	1.2	1.1	1.2	1.3	1.1	1.1	1.1	0.99	1.1	1.2	1.3	1.3	1.3	1.3	1.2
Azerbaijan	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.2	2.2
Belarus	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.6	5.2	4.9	5.5	6.0	5.8
Belgium	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.0	1.8	1.7	1.6	1.5	1.4
Bosnia&Herzegovina	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0
Bulgaria	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.0	2.9	2.8	2.6	2.5	2.4
Croatia	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.2	1.1	1.0	1.2	0.90	0.92	1.2	1.2	1.1	1.1	0.9
Cyprus	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Czech Republic	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.8	3.3	2.6	3.3	3.3	2.3	2.3
Denmark	1.1	1.2	1.3	1.4	1.3	1.4	1.5	1.5	1.3	1.4	1.7	1.8	1.8	2.0	2.1	2.4	2.5	3.0
Estonia	2.2	2.1	1.5	1.3	1.6	2.6	3.1	3.0	2.4	2.3	2.3	2.3	2.3	2.4	2.5	2.2	2.1	2.4
Finland	1.9	1.5	1.5	1.6	2.1	2.1	2.0	1.9	1.9	2.0	1.9	2.0	2.0	2.0	2.0	1.6	1.6	1.6
France	9.1	11	10	9.7	8.5	8.5	8.7	7.8	7.9	7.5	7.0	6.6	6.0	6.1	5.9	5.6	5.4	5.0
Georgia	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.05	0.06	0.07	0.12	0.07	0.14
Germany	24	19	14	13	12	12	12	13	12	12	12	13	12	12	12	12	12	12
Greece	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.9	2.9	3.0	3.1	3.2	3.3
Hungary	8.5	7.7	4.4	4.4	4.2	4.1	4.1	3.8	3.3	3.4	3.4	3.4	3.5	3.8	3.7	4.0	3.1	1.9
Iceland	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.07	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10
Ireland	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
Italy	12	14	13	14	14	14	13	15	14	15	15	15	14	15	17	17	17	19
Kazakhstan	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.3	7.5	7.7	7.8	8.0	8.2	8.3
Kyrgyzstan	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.1	2.2
Latvia	2.2	2.6	2.6	2.9	3.0	3.5	3.6	3.6	3.6	3.6	3.4	3.4	3.4	3.6	3.6	3.7	3.6	3.5
Lithuania	4	4	5	6	7	8	9	9	10	9.6	8.8	8	7.3	7.6	2.4	2.4	2.5	2.4
Luxembourg	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.06
Malta	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
Monaco	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00001	0.00001	0.00001
Netherlands	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5
Norway	5.4	5.2	5.0	5.3	5.2	5.3	5.5	5.4	5.3	4.8	5.1	5.5	6.1	4.8	5.3	5.9	6.1	5.0
Poland	15	17	16	24	22	23	22	19	17	17	16	15	15	15	15	15	15	14
Portugal	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.3	1.2	1.2	1.2
Republic of Moldova	3.5	1.9	0.91	0.57	0.89	0.53	0.71	0.60	0.40	0.42	0.45	0.40	0.52	0.48	0.40	1.8	2.0	2.0
Romania	56.6	53.1	49.5	46.0	42.5	38.9	35.4	31.9	28.3	24.8	21.3	17.7	14.2	10.7	7.1	7.2	6.9	7.2
Russia (European part)	12	11	10	10	10	9.9	9.8	9.7	9.6	10	10	11	12	12	12	12	12	12
Russia (Asian part)	3.2	3.0	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.7	2.7	2.9	3.1	3.1	3.1	3.1	3.1	3.1
Serbia&Montenegro	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.8	3.7	3.6	3.6	3.5
Slovakia	4.4	8.9	8.0	7.0	6.1	2.3	4.9	2.1	2.1	2.1	2.1	2.1	1.9	2.1	2.4	2.9	2.8	2.8

Slovenia	1.8	1.8	1.8	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.3	1.4	1.4	1.4	1.4	1.4	1.4
Spain	16	16	16	16	16	16	16	16	16	16	16	16	15	14	13	12	11	10	9
Sweden	2.0	3.3	1.9	1.9	1.9	2.0	2.1	1.8	1.9	2.1	1.7	1.8	1.7	1.9	1.9	2.1	2.3	2.3	
Switzerland	0.54	0.52	0.49	0.32	0.27	0.25	0.28	0.28	0.30	0.31	0.31	0.32	0.33	0.35	0.35	0.35	0.21	0.16	
Tajikistan	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
The FYR of Macedonia	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	
Turkey	22	22	22	22	22	22	22	22	22	22	22	22	21	21	20	20	19	19	
Turkmenistan	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	
Ukraine	30	30	30	30	30	30	30	30	30	30	30	30	31	31	31	31	31	32	
United Kingdom	42	39	35	28	26	21	8.8	6.2	5.1	4.0	3.1	3.2	3.0	2.5	2.5	2.4	2.5	2.5	
Uzbekistan	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
Extended EMEP grid	328	324	302	297	289	279	266	255	247	242	235	230	224	218	211	212	210	207	

Official data on B[k]F emissions

B[k]F emissions estimated on the basis of the official total PAH emission data

Expert estimates:

B[k]F emission values were estimated using official emission data for the European part of Russia and keeping ratio between the European and Asian data on the population density derived from the GEIA inventory

Expert estimates:

Denier van der Gon, H.A.C., M. van het Bolscher A.J.H. Visschedijk P.Y.J. Zandveld [2005]
Study to the effectiveness of the UNECE Persistent Organic Pollutants Protocol and costs of possible additional measures Phase I: Estimation of emission reduction resulting from the implementation of the POP Protocol, TNO report B&O-A R 2005/194

Expert estimates:

Zhang Y. and S.Tao [2008] Global atmospheric emission inventory of Polycyclic Aromatic Hydrocarbons (PAHs) for 2004.
Atmos. Environ., vol.43, pp.812-819

Expert estimates:

MEPA [2007] Interim report on the preliminary assessment of arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air in Malta. Malta Environment and Planning Authority Pollution Prevention and Control Unit