

Cd, t/y	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Albania	0.647	0.602	0.557	0.513	0.468	0.423	0.378	0.333	0.289	0.244	0.199	0.199	0.198	0.198	0.198	0.197	0.197	0.197
Armenia	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.132	0.135	0.137	0.140	0.143	0.146	0.148
Austria	1.6	1.5	1.2	1.2	1.1	0.975	0.996	0.970	0.901	0.977	0.948	1.0	1.0	1.1	1.1	1.2	1.2	1.2
Azerbaijan	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.5	2.6	2.6
Belarus	2.1	2.2	2.0	1.7	1.3	1.1	1.2	1.3	1.5	1.4	1.4	1.8	1.9	1.8	1.8	2.1	2.5	2.6
Belgium	7.2	6.9	7.5	6.4	4.9	5.1	4.2	4.3	2.8	2.4	2.2	2.1	2.0	1.9	2.3	1.7	1.8	1.6
Bosnia and Herzegovina	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6
Bulgaria	28	25	22	19	16	13	14	14	15	14	11	10	12	15	15	12	12	3
Croatia	1.3	1.2	1.1	1.1	1.0	0.950	1.0	1.0	1.1	1.1	1.0	0.874	0.929	0.948	0.877	0.826	0.836	0.790
Cyprus	0.558	0.578	0.663	0.713	0.745	0.680	0.721	0.761	0.680	0.877	0.925	0.917	1.0	1.0	1.1	1.1	1.2	1.2
Czech Republic	4.3	3.9	3.6	3.5	3.5	3.6	2.9	3.0	2.7	2.7	2.9	2.6	2.7	2.2	2.4	3.1	3.2	6.0
Denmark	1.1	1.2	1.2	1.1	1.0	0.831	0.811	0.734	0.721	0.704	0.625	0.676	0.640	0.620	0.622	0.646	0.719	0.747
Estonia	4.4	4.2	3.0	2.2	2.9	2.0	1.0	1.1	1.0	0.945	0.605	0.560	0.560	0.620	0.586	0.576	0.548	0.680
Finland	6.3	3.5	2.9	2.8	2.2	1.6	1.5	0.9	1.3	1.3	1.3	1.6	1.3	1.2	1.5	1.3	1.3	1.1
France	20	20	19	18	18	17	17	16	15	13	13	12	12	8.3	5.8	5.5	4.0	3.6
Georgia	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.215	0.221	0.226	0.232	0.237	0.243	0.248
Germany	12	8.0	5.1	3.6	2.5	2.3	2.2	2.4	2.2	2.6	2.3	2.5	2.6	2.7	2.4	2.5	2.5	2.5
Greece	4.5	4.2	4.0	3.7	3.5	3.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Hungary	5.5	4.7	4.0	4.1	4.1	3.9	3.4	3.3	3.1	3.3	3.2	3.2	3.0	3.0	3.0	3.5	3.4	1.5
Iceland	0.166	0.158	0.149	0.141	0.132	0.124	0.115	0.107	0.098	0.090	0.081	0.082	0.082	0.082	0.083	0.083	0.083	0.084
Ireland	0.839	0.862	0.869	0.855	0.947	0.948	0.905	0.994	1.020	1.016	1.066	0.948	0.750	0.697	0.710	0.722	0.635	0.626
Italy	10	11	10	10.0	9.6	9.6	9.3	9.1	8.9	8.8	9.1	9.0	7.3	7.5	8.2	8.5	8.6	8.6
Latvia	1.5	1.3	0.895	0.758	0.957	0.743	0.921	0.775	0.8	0.724	0.516	0.471	0.463	0.475	0.458	0.499	0.551	0.588
Lithuania	3.8	2.8	2.5	2.3	2.1	2.1	2.2	2.2	2.6	2.0	1.4	1.2	1.0	0.916	0.524	0.371	0.367	0.405
Luxembourg	0.600	0.575	0.550	0.525	0.500	0.400	0.400	0.300	0.200	0.054	0.051	0.054	0.047	0.047	0.047	0.047	0.047	0.047
Malta	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.618	0.526	0.573	0.573	0.593	0.593	0.617
Monaco	0.056	0.058	0.063	0.069	0.006	0.006	0.007	0.008	0.007	0.007	0.008	0.008	0.007	0.006	0.005	0.005	0.004	0.005
Netherlands	2.1	1.8	1.6	1.4	1.3	1.1	1.1	1.1	1.2	1.0	1.0	1.6	2.2	2.4	1.8	1.7	1.9	1.9
Norway	1.1	1.0	1.0	1.1	1.2	0.983	1.1	1.0	1.1	1.0	0.688	0.683	0.681	0.658	0.601	0.544	0.599	0.556
Poland	92	85	84	92	86	83	91	86	55	62	50	53	49	48	46	46	42	40
Portugal	5.3	5.8	5.9	5.2	5.5	5.7	4.9	5.4	6.1	6.0	5.5	5.4	6.1	5.4	5.3	6.2	5.2	5.4
Republic of Moldova	2.4	3.5	1.7	1.4	0.819	0.594	0.659	0.364	0.328	0.148	0.173	0.114	0.226	0.122	0.114	0.145	0.158	0.158
Romania	22	20	19	18	17	15	14	13	12	12	8.7	7.4	8.1	8.7	9.4	10	6.5	2.5
Russia (European part)*	79	68	69	59	57	57	51	50	49	51	51	51	52	57	55	59	59	85
Serbia and Montenegro**	8.3	8.3	8.4	8.4	8.4	8.5	8.5	8.5	8.6	8.6	8.7	8.6	8.6	8.6	8.6	8.5	8.5	8.5
Slovakia	9.4	10	11	8.7	6.6	10	9.0	10	7.8	6.6	7.2	7.2	5.4	5.8	3.6	6.1	6.1	9.3
Slovenia	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.4
Spain (inside EMEP)	24	23	22	20	21	21	19	19	19	19	18	18	19	17	17	17	16	16
Sweden	2.3	1.7	1.4	1.1	0.752	0.729	0.698	0.693	0.612	0.527	0.510	0.591	0.515	0.508	0.528	0.530	0.545	0.578
Switzerland	3.7	3.5	3.3	3.0	2.8	2.5	2.4	2.2	2.2	1.7	1.6	1.5	1.3	1.1	1.1	1.1	1.1	1.1
The FYR of Macedonia	9.1	9.2	9.3	9.3	9.4	9.4	9.5	9.6	9.6	9.7	9.8	9.8	9.7	9.7	9.7	9.7	9.7	9.7
Turkey	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	18
Ukraine	54	50	46	42	38	34	30	26	22	18	14	10	2.0	28	3.1	6.8	5.1	9.0
United Kingdom	23	23	22	14	13	11	9.4	8.6	6.3	6.0	5.9	4.6	4.5	3.2	3.4	3.5	3.5	2.9
Total, t/y	477	441	422	391	368	354	343	330	287	287	262	257	245	273	240	250	239	270

* HELCOM: for 2007 Russia (Eur part) = 59
 ** for 2007 Serbia = 8.3; Montenegro = 0.236

Central Asian region

Kazakhstan
Kyrgyzstan
Russia (Asian part)
Tajikistan
Turkmenistan
Uzbekistan
Extended EMEP grid, t/y

2007
16
2.3
25
0.623
0.114
3.0
318

- Official data of Cd emissions
- Expert estimates:
 Berdowski J.J.M., Baas J., Bloos J.P.J., Visschedijk A.J.H., Zandveld P.Y.J. [1997] The European Emission Inventory of Heavy Metals and Persistent Organic Pollutants for 1990. TNO Institute of Environmental Sciences, Energy Research and Process Innovation, UBA-FB report 104 02 672/03, Apeldoorn, 239 p.
- 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:
 CEIP [<http://www.emep-emissions.at/ceip/>]
- Expert estimates:
 Interpolation of emissions for 2000 and emission projections for 2010 available in TNO [Denier van der Gon et al., 2005]
- Expert estimates:
 Cd emissions were assumed to be proportional to emissions of mercury with factor 1.14 for Russia (Asian part) and 0.56 for the remaining Central Asian countries