

Statistics for DNK_ Copenhagen_IWEC

Location -- COPENHAGEN - DNK
 {N 55 37} {E 12 40} {GMT +1.0 Hours}
 Elevation -- 5m above sea level

- Monthly Statistics for Dry Bulb temperatures C

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maximum	8.6	8.5	11.3	16.9	20.9	24.7	24.8	26.8	19.0	16.7	11.9	10.4
Day:Hour	1:10	4:16	23:16	14:13	26:16	10:13	14:13	2:13	2:13	5:13	6:22	28:01
Minimum	-4.8	-9.6	-5.1	-1.9	3.8	6.8	9.6	8.7	3.9	0.0	-4.1	-9.3
Day:Hour	22:07	13:01	29:04	21:01	1:03	2:04	9:04	23:04	27:01	25:01	9:01	11:01
Daily Avg	1.5	0.2	2.9	6.2	11.5	14.7	16.6	16.9	12.3	9.7	5.1	1.6

- Maximum Dry Bulb temperature of 26.8 C on Aug 2

- Minimum Dry Bulb temperature of -9.6 C on Feb 13

- Average Hourly Statistics for Dry Bulb temperatures C

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0:01- 1:00	1.1	-1.1	1.9	4.2	8.7	11.7	13.8	14.1	10.7	8.8	4.8	1.0
1:01- 2:00	1.2	-1.1	1.8	4.1	8.6	11.4	13.6	13.9	10.6	8.8	4.8	0.9
2:01- 3:00	1.4	-1.1	1.7	4.0	8.5	11.1	13.4	13.7	10.5	8.7	4.7	0.9
3:01- 4:00	1.5	-1.1	1.5	3.9	8.3	10.9	13.2	13.6	10.4	8.7	4.6	0.9
4:01- 5:00	1.5	-0.8	1.6	4.3	9.1	12.0	14.1	14.4	10.7	8.6	4.5	1.0
5:01- 6:00	1.4	-0.6	1.7	4.6	9.9	13.0	15.0	15.3	11.0	8.6	4.5	1.0
6:01- 7:00	1.4	-0.3	1.8	4.9	10.7	14.1	15.9	16.2	11.3	8.7	4.5	1.1
7:01- 8:00	1.4	0.0	2.4	5.7	11.5	14.9	16.7	17.2	12.0	9.3	4.7	1.3
8:01- 9:00	1.4	0.4	3.0	6.4	12.3	15.7	17.5	18.1	12.7	10.0	5.0	1.5
9:01-10:00	1.4	0.7	3.6	7.2	13.2	16.4	18.3	19.1	13.4	10.6	5.4	1.7
10:01-11:00	1.6	1.2	4.0	7.8	13.5	16.8	18.6	19.4	13.8	11.0	5.6	2.0
11:01-12:00	1.8	1.7	4.4	8.3	13.8	17.1	18.9	19.7	14.2	11.3	5.9	2.4
12:01-13:00	2.0	2.2	4.8	8.9	14.1	17.5	19.2	20.0	14.6	11.7	6.3	2.7
13:01-14:00	1.9	2.0	4.7	8.8	14.1	17.5	19.3	19.8	14.5	11.4	6.1	2.5
14:01-15:00	1.8	1.8	4.6	8.7	14.1	17.4	19.4	19.5	14.5	11.1	6.0	2.3
15:01-16:00	1.7	1.6	4.5	8.6	14.1	17.4	19.4	19.4	14.4	10.8	5.8	2.1
16:01-17:00	1.6	1.1	4.0	8.1	13.6	17.0	18.9	18.8	13.8	10.3	5.5	2.0
17:01-18:00	1.6	0.6	3.5	7.5	13.2	16.5	18.4	18.3	13.1	9.8	5.2	1.9
18:01-19:00	1.5	0.1	3.0	7.0	12.6	16.1	17.9	17.9	12.5	9.3	4.9	1.7
19:01-20:00	1.4	-0.1	2.9	6.4	11.7	15.1	16.9	17.1	12.1	9.2	4.9	1.7
20:01-21:00	1.3	-0.4	2.7	5.8	10.8	14.2	15.9	16.3	11.6	9.1	4.8	1.6
21:01-22:00	1.3	-0.6	2.5	5.2	9.8	13.3	15.0	15.5	11.2	9.0	4.8	1.5
22:01-23:00	1.2	-0.7	2.3	4.9	9.5	12.8	14.6	15.0	11.0	8.9	4.8	1.4
23:01-24:00	1.1	-0.9	2.1	4.5	9.2	12.2	14.3	14.5	10.7	8.8	4.7	1.3
Max Hour	13	13	13	13	16	13	16	13	13	13	13	13
Min Hour	24	1	4	4	4	4	4	4	4	5	7	3

- Monthly Statistics for Relative Humidity %

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maximum	95	100	98	100	96	96	91	100	100	96	100	98
Day:Hour	30:20	13:06	30:07	5:21	14:04	16:18	23:01	8:14	6:05	13:02	29:19	18:22
Minimum	62	47	28	21	33	31	33	31	42	36	43	57
Day:Hour	18:15	9:13	30:15	18:14	6:16	3:16	5:19	2:13	16:16	1:13	8:12	10:19
Daily Avg	84	88	73	74	71	68	69	80	80	77	82	84

- Average Hourly Relative Humidity %

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0:01- 1:00	86	91	78	84	81	79	80	93	88	82	84	85
1:01- 2:00	86	91	78	84	81	81	81	94	88	82	85	85
2:01- 3:00	86	91	78	84	82	82	82	94	88	82	84	85
3:01- 4:00	86	92	80	84	83	84	84	94	89	82	84	86
4:01- 5:00	85	92	79	83	80	80	81	92	89	82	84	86
5:01- 6:00	85	92	79	82	78	76	79	90	88	82	84	86
6:01- 7:00	86	92	79	82	75	72	76	87	88	81	85	87
7:01- 8:00	85	91	75	77	71	68	71	80	84	78	84	86
8:01- 9:00	85	90	73	73	67	64	67	74	80	76	83	86
9:01-10:00	85	90	71	70	64	60	63	68	77	73	82	86
10:01-11:00	83	86	69	67	63	60	61	67	74	71	81	84
11:01-12:00	82	83	66	64	62	59	59	65	71	69	80	83
12:01-13:00	81	81	65	63	62	58	57	64	69	67	78	82
13:01-14:00	81	80	64	63	62	58	57	66	68	69	78	82
14:01-15:00	80	80	64	63	61	57	57	67	68	71	78	82
15:01-16:00	81	81	65	65	61	57	57	69	68	73	79	83
16:01-17:00	81	83	66	66	63	58	59	72	71	75	80	82
17:01-18:00	82	84	68	67	65	59	60	74	74	77	81	83
18:01-19:00	84	86	72	70	67	60	62	76	77	79	83	83
19:01-20:00	84	87	72	72	70	64	66	80	80	80	83	84
20:01-21:00	84	89	73	75	74	68	69	84	82	81	84	84
21:01-22:00	85	89	75	79	77	72	74	87	84	81	84	85
22:01-23:00	85	90	75	80	78	74	76	89	85	82	84	85
23:01-24:00	86	90	76	82	79	77	78	91	87	82	84	85
Max Hour	1	6	4	4	4	4	4	3	4	4	7	7
Min Hour	15	14	15	14	16	16	16	13	16	13	13	14

- Monthly Wind Direction % {N=0 or 360,E=90,S=180,W=270}

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North	4	8	7	9	6	10	4	8	13	2	3	6
NorthEast	5	2	0	9	4	10	1	5	3	3	3	3
East	14	3	1	19	5	7	2	10	5	1	5	7
SouthEast	14	3	15	10	16	5	7	9	6	0	5	5
South	7	9	19	17	20	6	22	21	6	7	13	12
SouthWest	23	17	15	14	12	6	18	11	10	21	21	23
West	27	31	27	15	29	29	28	26	33	50	34	35
NorthWest	6	27	16	8	8	28	19	10	25	16	16	9

- Monthly Statistics for Wind Speed m/s

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maximum	19.0	18.5	14.9	11.8	15.9	11.3	13.4	10.8	12.9	17.0	15.4	15.4
Day:Hour	13:13	4:21	25:16	15:16	16:13	20:16	19:13	15:01	21:04	19:13	25:16	30:16
Minimum	1.0	0.5	0.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0
Day:Hour	10:10	22:19	29:01	18:07	1:22	8:01	26:04	17:04	6:04	29:13	8:19	2:04
Daily Avg	8.1	5.8	7.5	5.2	5.0	5.0	5.1	4.4	5.7	7.8	6.7	6.9

- Maximum Wind Speed of 19.0 m/s on Jan 13

- Minimum Wind Speed of 0.0 m/s on Mar 29

- Monthly Statistics for Solar Radiation (Direct Normal, Diffuse, Global Horizontal) Wh/m

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Direct Avg	591	1270	1916	2495	3605	3241	3105	3042	1534	1129	521	461
Direct Max	2273	4879	6822	7315	7955	7468	7957	7314	5739	4108	2137	1519
Day	22	18	30	13	20	30	5	4	16	1	3	7
Diffuse Avg	351	706	1357	2132	2680	3356	3134	2424	1776	1041	456	285
Global Avg	466	1060	2204	3467	4934	5558	5201	4285	2549	1452	578	362

- Maximum Direct Normal Solar of 7957 Wh/m on Jul 5

- Average Hourly Statistics for Direct Normal Solar Radiation Wh/m

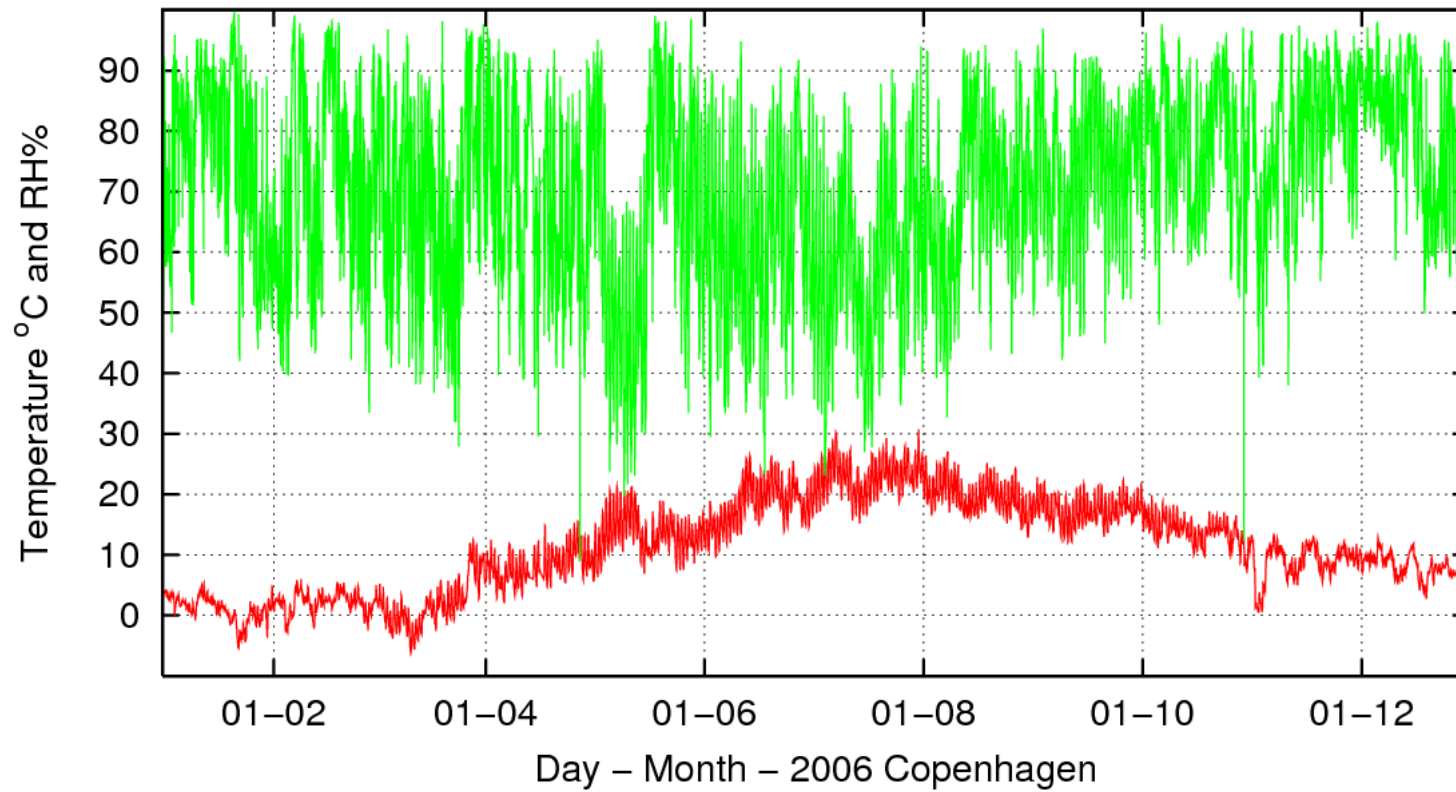
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0:01- 1:00	0	0	0	0	0	0	0	0	0	0	0	0
1:01- 2:00	0	0	0	0	0	0	0	0	0	0	0	0
2:01- 3:00	0	0	0	0	0	0	0	0	0	0	0	0
3:01- 4:00	0	0	0	0	0	0	0	0	0	0	0	0
4:01- 5:00	0	0	0	0	0	0	0	0	0	0	0	0
5:01- 6:00	0	0	0	0	53	48	33	5	0	0	0	0
6:01- 7:00	0	0	2	76	162	137	103	94	7	0	0	0
7:01- 8:00	0	0	63	162	251	218	171	180	66	9	0	0
8:01- 9:00	0	45	152	232	323	278	235	267	120	75	6	0
9:01-10:00	16	109	224	287	355	301	275	309	153	131	67	33
10:01-11:00	59	182	251	294	358	321	303	334	181	168	98	75
11:01-12:00	137	192	273	265	345	327	319	349	198	180	116	127
12:01-13:00	160	195	274	237	323	323	312	354	201	170	97	106
13:01-14:00	137	193	233	241	341	314	312	319	187	186	92	90
14:01-15:00	74	178	189	236	331	303	304	283	176	145	44	31
15:01-16:00	10	140	144	209	302	269	279	238	141	59	1	0
16:01-17:00	0	37	95	164	242	208	226	186	87	4	0	0
17:01-18:00	0	0	16	88	168	140	160	102	17	0	0	0
18:01-19:00	0	0	0	2	50	54	66	23	0	0	0	0
19:01-20:00	0	0	0	0	0	2	5	0	0	0	0	0
20:01-21:00	0	0	0	0	0	0	0	0	0	0	0	0
21:01-22:00	0	0	0	0	0	0	0	0	0	0	0	0
22:01-23:00	0	0	0	0	0	0	0	0	0	0	0	0
23:01-24:00	0	0	0	0	0	0	0	0	0	0	0	0
Max Hour	13	13	13	11	11	12	12	13	13	14	12	12

Min Hour 1 1 1 1 1 1 1 1 1 1 1 1 1

- Monthly Calculated "undisturbed" Ground Temperatures** C

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.5 m	4.0	1.4	0.7	1.3	4.8	8.7	12.4	15.1	15.8	14.6	11.6	7.8
2.0 m	6.3	3.9	2.7	2.7	4.5	7.2	10.1	12.6	13.8	13.6	11.9	9.3
4.0 m	7.8	5.9	4.8	4.4	5.1	6.7	8.6	10.5	11.8	12.1	11.4	9.8

- Climate type "Cfb" (Köppen classification)
- Marine west coastal (warm summer, mild winter, rain all year, lat. 35-60° N)
- Climate type "5C" (ASHRAE Standards 90.1-2004 and 90.2-2004 Climate Zone)
- Cool - Marine, Probable Köppen classification=Cfb, Marine (Cool Summer)



Temperature outside ——— RH outside ———