

January 2006

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	5	47	231 ?	228	263	265 ?	?	93 ?	?	66 ?	7	0	0	0	0	0	0	1205 ?
2	0	0	0	0	0	0	0	11	23	44	77	93	58	57	58	59	28	14	0	0	0	0	0	0	523
3	0	0	0	0	0	0	0	4	5 ?	?	46 ?	63 ?	71 ?	135	43	32	10	1	0	0	0	0	0	0	410 ?
4	0	0	0	0	0	0	0	7	64 ?	?	?	?	?	?	?	59 ?	4	0	0	0	0	0	0	0	134 ?
5	0	0	0	0	0	0	0	4	26	49	59	73	95	70	41	28 ?	6 ?	2	0	0	0	0	0	0	453
6	0	0	0	0	0	0	0	0	5	52	57	153	125	78	87 ?	58	31	6	0	0	0	0	0	0	652
7	0	0	0	0	0	0	0	9	41	?	?	?	?	?	219	105	79	10	0	0	0	0	0	0	463 ?
8	0	0	0	0	0	0	0	10	44 ?	?	265 ?	281 ?	?	?	?	?	81	13	0	0	0	0	0	0	693 ?
9	0	0	0	0	0	0	0	7	37	?	198	219 ?	?	267 ?	179 ?	126 ?	65	5	0	0	0	0	0	0	1104 ?
10	0	0	0	0	0	0	0	6	31	74	144	183 ?	?	?	194 ?	127 ?	39	7	0	0	0	0	0	0	805 ?
11	0	0	0	0	0	0	0	0	10 ?	74	120	69	161	182 ?	?	?	67 ?	11	0	0	0	0	0	0	695 ?
12	0	0	0	0	0	0	0	10	95 ?	?	?	?	?	?	?	?	73 ?	11	0	0	0	0	0	0	189 ?
13	0	0	0	0	0	0	0	5	37	129 ?	229 ?	?	313 ?	263 ?	162	112	23	0	0	0	0	0	0	0	1274 ?
14	0	0	0	0	0	0	0	3	23	41	79	148	207	91	71	57	26	5	0	0	0	0	0	0	752
15	0	0	0	0	0	0	0	7	58	?	?	?	?	?	?	?	53 ?	12	0	0	0	0	0	0	131 ?
16	0	0	0	0	0	0	0	10	88 ?	155 ?	251	262 ?	225	162	304 ?	182 ?	86 ?	27	0	0	0	0	0	0	1751 ?
17	0	0	0	0	0	0	0	2	10 ?	25 ?	35 ?	62 ?	163	272	245	82	25	4	0	0	0	0	0	0	924 ?
18	0	0	0	0	0	0	0	5	24	127 ?	258 ?	227	191	160	161	235 ?	88 ?	22	0	0	0	0	0	0	1497 ?
19	0	0	0	0	0	0	0	10	55	127	186	?	?	?	?	?	82 ?	14	0	0	0	0	0	0	474 ?
20	0	0	0	0	0	0	0	10	73	184	266 ?	?	?	?	?	?	71 ?	21	0	0	0	0	0	0	625 ?
21	0	0	0	0	0	0	0	1	14	39	59	52	78	75	42 ?	45	6 ?	3	0	0	0	0	0	0	414 ?
22	0	0	0	0	0	0	0	10	66 ?	?	166 ?	262 ?	319	154	40 ?	32 ?	11 ?	2	0	0	0	0	0	0	1062 ?
23	0	0	0	0	0	0	0	4	35	70	45	46 ?	57	65	56	45	19	7	0	0	0	0	0	0	450
24	0	0	0	0	0	0	0	8	58	135 ?	?	?	?	?	?	?	91 ?	29	0	0	0	0	0	0	321 ?
25	0	0	0	0	0	0	0	3	38	98	131	204	138	139	126	136	70	6	0	0	0	0	0	0	1088
26	0	0	0	0	0	0	0	7	42	101	206	285 ?	?	?	?	?	95 ?	26	0	0	0	0	0	0	761 ?
27	0	0	0	0	0	0	0	12	112 ?	?	?	?	?	?	196 ?	215	99 ?	32	0	0	0	0	0	0	666 ?
28	0	0	0	0	0	0	0	14	85 ?	?	?	?	?	?	?	98 ?	90 ?	28	0	0	0	0	0	0	314 ?
29	0	0	0	0	0	0	0	6	24	60	110	176 ?	?	?	?	?	99 ?	34	0	0	0	0	0	0	509 ?
30	0	0	0	0	0	0	0	9	104 ?	?	?	343	241	210	203	137	74	20	0	0	0	0	0	0	1342 ?
31	0	0	0	0	0	0	0	6	11 ?	30 ?	40	56	63	89	61	37	21	4	0	0	0	0	0	0	417 ?
Avg	0	0	0	0	0	0	0	7	45	92	142	168	163	145	129	97	56	12	0	0	0	0	0	0	713 ?
S D	0	0	0	0	0	0	0	3	30	56	83	95	88	74	80	62	31	10	0	0	0	0	0	0	408
S/A	0	0	0	0	0	0	0	0.52	0.66	0.61	0.59	0.56	0.54	0.51	0.62	0.63	0.56	0.81	0	0	0	0	0	0	0.57
Min	0	0	0	0	0	0	0	0	5	25	35	46	57	57	40	28	6	0	0	0	0	0	0	0	131
Max	0	0	0	0	0	0	0	14	112	231	266	343	319	272	304	235	99	34	0	0	0	0	0	0	1751
n	0	0	0	0	0	0	0	149	313	203	216	189	177	192	176	183	267	177	0	0	0	0	0	0	2249

Daylight Data Recovery: 0.0% missing; 0.0% untested; 38.8% exceed the 15% QC threshold -- 3674 total daylight measurements.

Instrument: Eppley PSP Serial Number: 25821F3 Calibration Factor: 9.020 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

January 2006

Direct Normal Solar Radiation
 Hourly Integrated and Daily Totals
 Instrument: Eppley NIP
 Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	0	0	0	0	0	0	0	0	1	1?	2	2	2?	?	0?	?	0?	0	0	0	0	0	0	0	0	8 ?
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
4	0	0	0	0	0	0	0	0	1?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	1 ?
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	0	?	?	?	?	?	1	0	0	0	0	0	0	0	0	0	0	2 ?
8	0	0	0	0	0	0	0	0	0?	?	2?	3?	?	?	?	?	0	0	0	0	0	0	0	0	0	6 ?
9	0	0	0	0	0	0	0	0	0	0?	1	1?	?	2?	1?	0?	0	0	0	0	0	0	0	0	0	7 ?
10	0	0	0	0	0	0	0	0	0	1	2	3?	?	?	1?	0?	0	0	0	0	0	0	0	0	0	6 ?
11	0	0	0	0	0	0	0	0	0	0	1	0	1	2?	?	?	0?	0	0	0	0	0	0	0	0	4 ?
12	0	0	0	0	0	0	0	0	0?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	0 ?
13	0	0	0	0	0	0	0	0	0	1?	1?	?	3?	3?	1	1	0	0	0	0	0	0	0	0	0	10 ?
14	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	0 ?
16	0	0	0	0	0	0	0	0	1?	1?	2	2?	2	1	4?	1?	0?	0	0	0	0	0	0	0	0	13 ?
17	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	4
18	0	0	0	0	0	0	0	0	0	0?	1?	1	1	1	1	1?	0?	0	0	0	0	0	0	0	0	6 ?
19	0	0	0	0	0	0	0	0	1	2	2	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	5 ?
20	0	0	0	0	0	0	0	0	0	1	1?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	3 ?
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0?	?	1?	2?	3	1	0	0	0	0	0	0	0	0	0	0	0	6 ?
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
24	0	0	0	0	0	0	0	0	0	1?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	1 ?
25	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	4
26	0	0	0	0	0	0	0	0	0	0	1	2?	?	?	?	?	0?	0	0	0	0	0	0	0	0	3 ?
27	0	0	0	0	0	0	0	0	1	2	?	?	?	?	0?	1	0?	0	0	0	0	0	0	0	0	5 ?
28	0	0	0	0	0	0	0	0	3?	?	?	?	?	?	?	0?	0?	0	0	0	0	0	0	0	0	3 ?
29	0	0	0	0	0	0	0	0	0	0	0	1?	?	?	?	?	0?	0	0	0	0	0	0	0	0	1 ?
30	0	0	0	0	0	0	0	0	3?	?	6?	3	1	2	1	1	0	0	0	0	0	0	0	0	0	17 ?
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	4 ?
S D	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	4
S/A	0	0	0	0	0	0	0	3.37	1.84	1.27	1.23	0.98	1.1	1.02	1.39	1.3	2.63	3.15	0	0	0	0	0	0	0	1.02
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	0	3	2	6	3	3	3	4	1	0	0	0	0	0	0	0	0	0	17
n	0	0	0	0	0	0	0	149	340	239	234	208	185	192	199	203	284	177	0	0	0	0	0	0	0	2416

Daylight Data Recovery: 0.0% missing; 0.0% untested; 34.2% exceed the 15% QC threshold -- 3674 total daylight measurements.

Instrument: Eppley NIP Serial Number: 17664E6 Calibration Factor: 8.480 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

January 2006

Diffuse Solar Radiation (Shadow Band) on a Horizontal Surface
 Hourly Integrated and Daily Totals
 Instrument: Eppley PSP
 Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	5	46	184 ?	191	237	235 ?	?	52 ?	?	31 ?	6	0	0	0	0	0	0	987 ?
2	0	0	0	0	0	0	0	11	23	43	77	100	58	61	62	62	28	11	0	0	0	0	0	0	536
3	0	0	0	0	0	0	0	3	5 ?	17	41	52	56	142	46	32	10	1	0	0	0	0	0	0	405
4	0	0	0	0	0	0	0	7	37 ?	?	?	?	?	?	?	?	26 ?	5	0	0	0	0	0	0	75 ?
5	0	0	0	0	0	0	0	4	27	51	63	77	102	75	43	22	7	1	0	0	0	0	0	0	472
6	0	0	0	0	0	0	0	0	6	55	58	162	132	82	70	62	32	5	0	0	0	0	0	0	664
7	0	0	0	0	0	0	0	10 ?	37	?	?	?	?	?	209	111	49	9	0	0	0	0	0	0	425 ?
8	0	0	0	0	0	0	0	9	31 ?	?	227 ?	248 ?	?	?	?	?	66	10	0	0	0	0	0	0	591 ?
9	0	0	0	0	0	0	0	7	30	77 ?	153	177 ?	?	211 ?	125 ?	91 ?	51	5	0	0	0	0	0	0	927 ?
10	0	0	0	0	0	0	0	6	32	79	151	161 ?	?	?	153 ?	101 ?	40	8	0	0	0	0	0	0	731 ?
11	0	0	0	0	0	0	0	0	11 ?	75	118	72	168	154 ?	?	?	26 ?	9	0	0	0	0	0	0	633 ?
12	0	0	0	0	0	0	0	9	30 ?	?	?	?	?	?	?	?	22 ?	6	0	0	0	0	0	0	67 ?
13	0	0	0	0	0	0	0	5	37	115 ?	181 ?	?	247 ?	220 ?	166	106	25	0	0	0	0	0	0	0	1102 ?
14	0	0	0	0	0	0	0	3	24	44	85	159	218	97	76	60	27	5	0	0	0	0	0	0	799
15	0	0	0	0	0	0	0	8	57	?	?	?	?	?	?	?	27 ?	12	0	0	0	0	0	0	103 ?
16	0	0	0	0	0	0	0	9	54 ?	153 ?	230	273 ?	224	171	252 ?	145 ?	73 ?	26	0	0	0	0	0	0	1608 ?
17	0	0	0	0	0	0	0	2	10	25	32	56	176	256	215	89	26	4	0	0	0	0	0	0	890
18	0	0	0	0	0	0	0	5	25	111 ?	228 ?	229	201	170	169	194 ?	26 ?	11	0	0	0	0	0	0	1370 ?
19	0	0	0	0	0	0	0	12	57	130	175	?	?	?	?	?	26 ?	8	0	0	0	0	0	0	408 ?
20	0	0	0	0	0	0	0	12	68	141	195 ?	?	?	?	?	?	27 ?	12	0	0	0	0	0	0	456 ?
21	0	0	0	0	0	0	0	1	15	40	63	53	83	80	32	43	8 ?	3	0	0	0	0	0	0	421
22	0	0	0	0	0	0	0	9	35 ?	?	111 ?	231 ?	292	159	32 ?	29 ?	11	2	0	0	0	0	0	0	911 ?
23	0	0	0	0	0	0	0	4	37	74	46	43	59	70	60	47	20	7	0	0	0	0	0	0	467
24	0	0	0	0	0	0	0	8	59	122 ?	?	?	?	?	?	?	26 ?	13	0	0	0	0	0	0	229 ?
25	0	0	0	0	0	0	0	2	40	102	135	200	145	144	133	137	72	6	0	0	0	0	0	0	1115
26	0	0	0	0	0	0	0	8	44	105	204	215 ?	?	?	?	?	25 ?	11	0	0	0	0	0	0	612 ?
27	0	0	0	0	0	0	0	12	39	53	?	?	?	?	141 ?	170	56 ?	20	0	0	0	0	0	0	491 ?
28	0	0	0	0	0	0	0	15	37 ?	?	?	?	?	?	?	49 ?	23 ?	10	0	0	0	0	0	0	134 ?
29	0	0	0	0	0	0	0	6	25	65	115	143 ?	?	?	?	?	30 ?	16	0	0	0	0	0	0	399 ?
30	0	0	0	0	0	0	0	9	27 ?	?	297 ?	296	253	224	206	149	80	21	0	0	0	0	0	0	1562 ?
31	0	0	0	0	0	0	0	6	11	25	41	56	67	96	65	39	21	4	0	0	0	0	0	0	431
Avg	0	0	0	0	0	0	0	7	33	82	134	154	160	142	115	87	33	9	0	0	0	0	0	0	646 ?
S D	0	0	0	0	0	0	0	4	16	45	75	82	79	61	70	51	19	6	0	0	0	0	0	0	405
S/A	0	0	0	0	0	0	0	0.56	0.49	0.55	0.56	0.53	0.49	0.43	0.61	0.58	0.58	0.71	0	0	0	0	0	0	0.63
Min	0	0	0	0	0	0	0	0	5	17	32	43	56	61	32	22	7	0	0	0	0	0	0	0	67
Max	0	0	0	0	0	0	0	15	68	184	297	296	292	256	252	194	80	26	0	0	0	0	0	0	1608
n	0	0	0	0	0	0	0	141	331	239	234	207	185	192	194	200	281	177	0	0	0	0	0	0	2387

Daylight Data Recovery: 0.0% missing; 0.0% untested; 35.0% exceed the 15% QC threshold -- 3674 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17860F3 Calibration Factor: 7.010 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.