

February 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	17	139 ?	?	?	?	?	?	300 ?	208	108	26	0	0	0	0	0	0	798 ?
2	0	0	0	0	0	0	0	10	64 ?	?	?	282	230	294	138	131	124	30	0	0	0	0	0	0	1304 ?
3	0	0	0	0	0	0	0	7	34	117	236 ?	?	?	?	?	138 ?	84	16	0	0	0	0	0	0	632 ?
4	0	0	0	0	0	0	0	2	17	51	45 ?	167 ?	115	209	136	115	70	8	0	0	0	0	0	0	936 ?
5	0	0	0	0	0	0	0	4	28	89	195	114	162	218	224	125	101	29	0	0	0	0	0	0	1290
6	0	0	0	0	0	0	0	15	57 ?	?	313 ?	?	?	?	?	221 ?	112	29	0	0	0	0	0	0	747 ?
7	0	0	0	0	0	0	0	12	78 ?	?	?	?	?	?	?	?	?	46	0	0	0	0	0	0	137 ?
8	0	0	0	0	0	0	0	5	29	177	212	228	244	286	257	177 ?	110 ?	26	0	0	0	0	0	0	1753
9	0	0	0	0	0	0	0	10	72 ?	139 ?	228 ?	286 ?	360 ?	?	?	?	?	47	0	0	0	0	0	0	1142 ?
10	0	0	0	0	0	0	0	25	89 ?	?	?	?	?	?	416 ?	198 ?	95 ?	30	0	0	0	0	0	0	854 ?
11	0	0	0	0	0	0	0	5	26 ?	?	42 ?	56 ?	73	51 ?	42 ?	29 ?	23 ?	5	0	0	0	0	0	0	353 ?
12	0	0	0	0	0	0	0	2	12 ?	36 ?	62	77	106	111	113	63	56	15	0	0	0	0	0	0	652 ?
13	0	0	0	0	0	0	0	4	25	78	87	159	147	214 ?	295 ?	?	?	61	0	0	0	0	0	0	1071 ?
14	0	0	0	0	0	0	0	35	115 ?	?	?	?	?	?	?	?	?	49	0	0	0	0	0	0	199 ?
15	0	0	0	0	0	0	0	35	107 ?	?	?	?	?	?	?	?	118 ?	33	0	0	0	0	0	0	293 ?
16	0	0	0	0	0	0	0	34	104 ?	?	?	?	?	?	?	?	?	43	0	0	0	0	0	0	180 ?
17	0	0	0	0	0	0	0	12	90	168	203	298	306 ?	116	120	116	80	41	0	0	0	0	0	0	1551
18	0	0	0	0	0	0	0	4	23	56	106	157	154	263	198	160	52	42	1	0	0	0	0	0	1216
19	0	0	0	0	0	0	0	50	?	?	?	?	?	?	?	?	102	35	2	0	0	0	0	0	189 ?
20	0	0	0	0	0	0	0	9	39	77	102	129	122	126	112	88	57	13	0	0	0	0	0	0	874
21	0	0	0	0	0	0	0	8	19 ?	34	56	119	334	?	?	?	?	51 ?	2	0	0	0	0	0	623 ?
22	0	0	0	0	0	0	0	5	41	121	211	128	112	143	99	71	45	16	1	0	0	0	0	0	992
23	0	0	0	0	0	0	0	18	105	73	256	245 ?	356 ?	?	?	?	?	60 ?	4	0	0	0	0	0	1117 ?
24	0	0	0	0	0	0	0	49	?	?	?	?	?	?	?	?	?	48 ?	1	0	0	0	0	0	98 ?
25	0	0	0	0	0	0	0	25	112	234	307	289	340	351	295 ?	272	135	43	3	0	0	0	0	0	2406
26	0	0	0	0	0	0	0	48	85 ?	213 ?	?	?	?	?	?	?	?	62 ?	6	0	0	0	0	0	414 ?
27	0	0	0	0	0	0	0	46	120	257	373 ?	?	?	?	?	?	258	125	48	5	0	0	0	0	1230 ?
28	0	0	0	0	0	0	2	46	151 ?	190 ?	?	?	?	?	?	?	?	43 ?	3	0	0	0	0	0	435 ?

Avg	0	0	0	0	0	0	0	19	68	124	178	182	211	198	196	148	89	36	1	0	0	0	0	0	0	839 ?
S D	0	0	0	0	0	0	0	17	42	71	104	82	104	90	105	70	32	16	2	0	0	0	0	0	0	547
S/A	0	0	0	0	0	0	5.29	0.85	0.61	0.57	0.58	0.45	0.5	0.46	0.54	0.47	0.36	0.45	1.67	0	0	0	0	0	0	0.65
Min	0	0	0	0	0	0	0	2	12	34	42	56	73	51	42	29	23	5	0	0	0	0	0	0	0	98
Max	0	0	0	0	0	0	2	50	151	257	373	298	360	351	416	272	135	62	6	0	0	0	0	0	0	2406
n	0	0	0	0	0	0	1	264	203	167	161	157	155	135	136	154	187	293	21	0	0	0	0	0	0	2040

Daylight Data Recovery: 0.0% missing; 0.0% untested; 43.7% exceed the 15% QC threshold -- 3626 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.

February 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	2?	?	?	?	?	?	2?	1	0	0	0	0	0	0	0	0	0	5?
2	0	0	0	0	0	0	0	0	1?	?	?	2	1	2	1	1	0	0	0	0	0	0	0	0	0	8?
3	0	0	0	0	0	0	0	0	0	1	2?	?	?	?	2?	0?	0	0	0	0	0	0	0	0	0	5?
4	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
5	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	4
6	0	0	0	0	0	0	0	0	0?	?	2?	?	?	?	?	1?	0	0	0	0	0	0	0	0	0	3?
7	0	0	0	0	0	0	0	0	0?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	0?
8	0	0	0	0	0	0	0	0	0	2	1	1	1	2	2	1?	0?	0	0	0	0	0	0	0	0	10
9	0	0	0	0	0	0	0	0	1?	0?	1?	3?	4?	?	?	?	?	0	0	0	0	0	0	0	0	8?
10	0	0	0	0	0	0	0	0	2?	?	?	?	?	?	3?	1?	0	0	0	0	0	0	0	0	0	5?
11	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
12	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3
13	0	0	0	0	0	0	0	0	0	1	1	2	2	2	2?	2?	?	0	0	0	0	0	0	0	0	10?
14	0	0	0	0	0	0	0	0	0?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	0?
15	0	0	0	0	0	0	0	1	2?	?	?	?	?	?	2?	?	0?	0	0	0	0	0	0	0	0	4?
16	0	0	0	0	0	0	0	0	0?	?	?	?	?	?	?	1?	?	0	0	0	0	0	0	0	0	1?
17	0	0	0	0	0	0	0	0	0	1	1	2	2?	0	0	0	0	0	0	0	0	0	0	0	0	7
18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
19	0	0	0	0	0	0	0	1	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	0	1?
20	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	6
21	0	0	0	0	0	0	0	0	0	0	0	0	2	?	?	?	?	0?	0	0	0	0	0	0	0	3?
22	0	0	0	0	0	0	0	0	0	1	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	6
23	0	0	0	0	0	0	0	0	0	0	2	2?	4?	?	?	?	?	0?	0	0	0	0	0	0	0	7?
24	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0?
25	0	0	0	0	0	0	0	0	1	1	2	2	2	2	2?	1	0	0	0	0	0	0	0	0	0	14
26	0	0	0	0	0	0	0	0	0?	0?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0?
27	0	0	0	0	0	0	0	0	0	1	2?	?	?	?	?	1	0	0	0	0	0	0	0	0	0	6?
28	0	0	0	0	0	0	0	0	0?	1?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	1?

Avg	0	0	0	0	0	0	0	0	0	1	1	1	2	1	1	1	0	0	0	0	0	0	0	0	0	4?
SD	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	4
S/A	0	0	0	0	0	0	0	2.26	1.57	1.01	0.85	0.77	0.77	0.65	0.76	0.8	1.07	4.43	0	0	0	0	0	0	0	0.82
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	1	2	2	3	3	4	2	3	2	0	0	0	0	0	0	0	0	0	14
n	0	0	0	0	0	0	1	264	225	190	182	166	155	141	148	168	199	293	21	0	0	0	0	0	0	2159

Daylight Data Recovery: 0.0% missing; 0.0% untested; 40.5% exceed the 15% QC threshold -- 3626 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.

February 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	17	51 ?	?	?	?	?	?	251 ?	190	103	26	0	0	0	0	0	0	637 ?	
2	0	0	0	0	0	0	0	11	34 ?	?	?	266	238	273	136	118	112	29	0	0	0	0	0	0	1216 ?	
3	0	0	0	0	0	0	0	7	36	122	201 ?	?	?	?	233 ?	129 ?	89	17	0	0	0	0	0	0	833 ?	
4	0	0	0	0	0	0	0	2	17	55	33 ?	150 ?	119	204	145	119	73	8	0	0	0	0	0	0	926	
5	0	0	0	0	0	0	0	4	29	95	205	122	174	228	231	135	95	27	0	0	0	0	0	0	1346	
6	0	0	0	0	0	0	0	17	46 ?	?	241 ?	?	?	?	?	190 ?	113	29	0	0	0	0	0	0	637 ?	
7	0	0	0	0	0	0	0	13	32 ?	?	?	?	?	?	?	?	?	15	0	0	0	0	0	0	60 ?	
8	0	0	0	0	0	0	0	5	30	179	225	244	258	301	258	177 ?	101 ?	25	0	0	0	0	0	0	1806	
9	0	0	0	0	0	0	0	10	33 ?	100 ?	211 ?	244 ?	268 ?	?	?	?	?	14	0	0	0	0	0	0	881 ?	
10	0	0	0	0	0	0	0	20	55 ?	?	?	?	?	?	?	321 ?	154 ?	84	31	0	0	0	0	0	665 ?	
11	0	0	0	0	0	0	0	4	22	19 ?	31 ?	47	61	37	33	25	16	5	0	0	0	0	0	0	302 ?	
12	0	0	0	0	0	0	0	2	12	27 ?	57	69	92	108	108	63	49	15	0	0	0	0	0	0	602	
13	0	0	0	0	0	0	0	3	23	55	76	125	137	179	229 ?	190 ?	?	22	0	0	0	0	0	0	1038 ?	
14	0	0	0	0	0	0	0	19	36 ?	?	?	?	?	?	?	?	?	18	0	0	0	0	0	0	73 ?	
15	0	0	0	0	0	0	0	15	31 ?	?	?	?	?	?	?	246 ?	?	88 ?	25	0	0	0	0	0	406 ?	
16	0	0	0	0	0	0	0	19	35 ?	?	?	?	?	?	?	?	172 ?	?	20	0	0	0	0	0	246 ?	
17	0	0	0	0	0	0	0	13	95	168	217	288	315 ?	124	128	124	85	39	0	0	0	0	0	0	1594	
18	0	0	0	0	0	0	0	4	21	57	102	152	152	260	189	161	51	40	0	0	0	0	0	0	1190	
19	0	0	0	0	0	0	0	21	?	?	?	?	?	?	?	?	83	36	2	0	0	0	0	0	143 ?	
20	0	0	0	0	0	0	0	7	34	66	91	111	103	102	84	71	48	11	0	0	0	0	0	0	728	
21	0	0	0	0	0	0	0	6	15	28	48	119	327	?	?	?	?	16 ?	2	0	0	0	0	0	561 ?	
22	0	0	0	0	0	0	0	4	43	132	229	139	121	154	106	75	47	16	0	0	0	0	0	0	1068	
23	0	0	0	0	0	0	0	17	99	77	217	230 ?	230 ?	?	?	?	?	25 ?	4	0	0	0	0	0	900 ?	
24	0	0	0	0	0	0	0	21	?	?	?	?	?	?	?	?	?	?	20 ?	1	0	0	0	0	0	42 ?
25	0	0	0	0	0	0	0	26	111	222	291	297	351	307	267 ?	241	141	46	3	0	0	0	0	0	2303	
26	0	0	0	0	0	0	0	38	82 ?	139 ?	?	?	?	?	?	?	?	22 ?	6	0	0	0	0	0	286 ?	
27	0	0	0	0	0	0	0	42	121	234	299 ?	?	?	?	?	?	241	133	50	5	0	0	0	0	1124 ?	
28	0	0	0	0	0	0	?	41	110 ?	180 ?	?	?	?	?	?	?	?	?	23 ?	3	0	0	0	0	357 ?	

Avg	0	0	0	0	0	0	0	15	48	109	163	174	196	190	185	143	84	24	1	0	0	0	0	0	0	785 ?
S D	0	0	0	0	0	0	0	11	33	67	92	81	93	87	81	59	32	11	2	0	0	0	0	0	0	551
S/A	0	0	0	0	0	0	0	0.78	0.68	0.62	0.56	0.46	0.48	0.46	0.44	0.42	0.38	0.45	1.81	0	0	0	0	0	0	0.7
Min	0	0	0	0	0	0	0	2	12	19	31	47	61	37	33	25	16	5	0	0	0	0	0	0	0	42
Max	0	0	0	0	0	0	0	42	121	234	299	297	351	307	321	241	141	50	6	0	0	0	0	0	0	2303
n	0	0	0	0	0	0	0	255	224	176	171	162	155	140	148	168	199	293	21	0	0	0	0	0	0	2118

Daylight Data Recovery: 0.0% missing; 0.0% untested; 41.6% exceed the 15% QC threshold -- 3626 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.