

November 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	4	28	?	?	?	?	250 ?	348 ?	227 ?	118	65	11	0	0	0	0	0	0	1051 ?
2	0	0	0	0	0	0	1	5	52 ?	142	262 ?	?	?	?	?	?	67 ?	12	0	0	0	0	0	0	541 ?
3	0	0	0	0	0	0	3	54	?	?	?	?	?	?	?	?	70 ?	11	0	0	0	0	0	0	138 ?
4	0	0	0	0	0	0	4	67	?	?	?	?	?	?	?	?	65 ?	8	0	0	0	0	0	0	143 ?
5	0	0	0	0	0	0	4	61	104 ?	?	?	?	?	?	?	?	59 ?	8	0	0	0	0	0	0	235 ?
6	0	0	0	0	0	0	3	32	?	?	?	?	?	?	?	?	42 ?	6	0	0	0	0	0	0	83 ?
7	0	0	0	0	0	0	0	5	27	56 ?	118	117	150	298	134	101	29	8	0	0	0	0	0	0	1042
8	0	0	0	0	0	0	2	15	38	75	118	200	135	62	52	23 ?	10	2	0	0	0	0	0	0	732
9	0	0	0	0	0	0	2	17	110	159	254 ?	?	?	?	?	?	57 ?	5	0	0	0	0	0	0	604 ?
10	0	0	0	0	0	0	0	44	?	?	?	?	?	?	?	?	150 ?	66	3	0	0	0	0	0	263 ?
11	0	0	0	0	0	0	0	24	?	?	174 ?	287 ?	208 ?	246 ?	125	65	0 ?	2	0	0	0	0	0	0	1131 ?
12	0	0	0	0	0	0	0	4	29 ?	30 ?	62 ?	102	57	42	35 ?	?	5 ?	1	0	0	0	0	0	0	366 ?
13	0	0	0	0	0	0	0	15	57	147	151	179	169	197	154	80	31	7	0	0	0	0	0	0	1187
14	0	0	0	0	0	0	0	22	85	200	216	298	275 ?	212	219	101 ?	50	19	0	0	0	0	0	0	1698 ?
15	0	0	0	0	0	0	0	11	66	243	103	93	100	105	98	69	40	6	0	0	0	0	0	0	934
16	0	0	0	0	0	0	0	11	73	123 ?	?	?	260 ?	?	114 ?	93	34	4	0	0	0	0	0	0	714 ?
17	0	0	0	0	0	0	0	8	31	95	123	182	206 ?	206 ?	202 *	*	*	*	0	0	0	0	0	0	1051 *
18	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
19	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
20	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
21	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
22	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
23	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
24	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
25	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
26	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
27	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
28	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
29	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
30	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
Avg	0	0	0	0	0	0	1	25	61	127	158	182	181	191	136	89	43	7	0	0	0	0	0	0	679 *?
S D	0	0	0	0	0	0	1	20	30	65	67	79	72	104	66	36	23	5	0	0	0	0	0	0	467
S/A	0	0	0	0	0	0	1.83	0.81	0.48	0.52	0.43	0.43	0.4	0.54	0.48	0.4	0.54	0.66	0	0	0	0	0	0	0.69
Min	0	0	0	0	0	0	0	4	27	30	62	93	57	42	35	23	0	1	0	0	0	0	0	0	83
Max	0	0	0	0	0	0	4	67	110	243	262	298	275	348	227	150	70	19	0	0	0	0	0	0	1698
n	0	0	0	0	0	0	13	192	112	97	103	84	84	88	95	82	153	51	0	0	0	0	0	0	1083

Daylight Data Recovery: 43.3% missing; 0.0% untested; 24.9% exceed the 15% QC threshold -- 3648 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.

**November 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	?	?	?	?	4?	3?	1?	0	0	0	0	0	0	0	0	0	8?
2	0	0	0	0	0	0	0	0	0	1	2?	?	?	?	?	?	0?	0	0	0	0	0	0	0	3?
3	0	0	0	0	0	0	0	1	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	1?
4	0	0	0	0	0	0	0	1	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	1?
5	0	0	0	0	0	0	0	1	0?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	1?
6	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0?
7	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3
8	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	3
9	0	0	0	0	0	0	0	0	0	1	2?	?	?	?	?	?	0?	0	0	0	0	0	0	0	3?
10	0	0	0	0	0	0	0	1	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	1?
11	0	0	0	0	0	0	0	0	0?	?	1?	3?	2?	2?	0	0	0	0	0	0	0	0	0	0	9?
12	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
13	0	0	0	0	0	0	0	0	0	1	1	2	1	2	1	1	0	0	0	0	0	0	0	0	10
14	0	0	0	0	0	0	0	0	1	2	2	3	3?	2	2	0?	0	0	0	0	0	0	0	0	15?
15	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
16	0	0	0	0	0	0	0	0	0	1?	?	?	3?	?	0?	0	0	0	0	0	0	0	0	0	5?
17	0	0	0	0	0	0	0	0	0	0	1	1	1?	1?	1*	*	*	*	0	0	0	0	0	0	5*
18	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
19	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
20	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
21	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
22	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
23	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
24	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
25	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
26	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
27	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
28	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
29	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
30	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	2	1	1	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	4
S/A	0	0	0	0	0	0	0	1.46	0.87	0.87	0.8	0.92	0.87	0.76	1.03	1.14	1.97	0	0	0	0	0	0	0	1
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
Max	0	0	0	0	0	0	0	1	1	2	2	3	4	3	2	1	0	0	0	0	0	0	0	0	15
n	0	0	0	0	0	0	13	195	127	110	106	84	86	88	102	102	161	51	0	0	0	0	0	0	1154

Daylight Data Recovery: 43.3% missing; 0.0% untested; 22.9% exceed the 15% QC threshold -- 3648 total daylight measurements.

Instrument: Eppley NIP    Serial Number: 17664E6    Calibration Factor: 8.480 μV/W/m<sup>2</sup>    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.

**November 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	4	26	?	?	?	?	244 ?	252 ?	192 ?	101	56	11	0	0	0	0	0	0	886 ?
2	0	0	0	0	0	0	0	4	32	143	226 ?	?	?	?	?	?	20 ?	7	0	0	0	0	0	0	432 ?
3	0	0	0	0	0	0	3 ?	21	?	?	?	?	?	?	?	?	20 ?	6	0	0	0	0	0	0	51 ?
4	0	0	0	0	0	0	5 ?	49	?	?	?	?	?	?	?	?	17 ?	4	0	0	0	0	0	0	74 ?
5	0	0	0	0	0	0	3	45	87 ?	?	?	?	?	?	?	?	39 ?	7	0	0	0	0	0	0	181 ?
6	0	0	0	0	0	0	3	30	?	?	?	?	?	?	?	?	35 ?	5	0	0	0	0	0	0	73 ?
7	0	0	0	0	0	0	0	5	28	44	126	125	158	295	140	106	30	8	0	0	0	0	0	0	1065
8	0	0	0	0	0	0	?	16	40	81	127	214	144	66	53	23	10	1	0	0	0	0	0	0	774
9	0	0	0	0	0	0	?	17	107	165	226 ?	?	?	?	?	?	20 ?	6	0	0	0	0	0	0	540 ?
10	0	0	0	0	0	0	0	21	?	?	?	?	?	?	?	?	103 ?	49	4	0	0	0	0	0	176 ?
11	0	0	0	0	0	0	0	22	105 ?	?	179 ?	207 ?	189 ?	216 ?	129	65	1	2	0	0	0	0	0	0	1115 ?
12	0	0	0	0	0	0	0	3	21	27	56	107	60	44	32	18	5	0	0	0	0	0	0	0	373
13	0	0	0	0	0	0	0	17	60	154	159	189	178	206	160	84	32	7	0	0	0	0	0	0	1246
14	0	0	0	0	0	0	0	25	88	206	224	288	243 ?	210	200	84 ?	31	18 ?	0	0	0	0	0	0	1617 ?
15	0	0	0	0	0	0	0	9	63	218	104	98	104	110	104	73	40	6	0	0	0	0	0	0	928
16	0	0	0	0	0	0	0	13	73	91 ?	?	?	183 ?	?	103 ?	91	29	4	0	0	0	0	0	0	587 ?
17	0	0	0	0	0	0	0	8	32	100	130	193	201 ?	206 ?	214 ?	?	?	?	0	0	0	0	0	0	1084 ?
18	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
19	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
20	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
21	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
22	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
23	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
24	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
25	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
26	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
27	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
28	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
29	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
30	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
Avg	0	0	0	0	0	0	1	19	61	123	156	178	170	178	133	75	27	6	0	0	0	0	0	0	659 ?
S D	0	0	0	0	0	0	1	13	31	65	58	64	57	85	61	32	15	4	0	0	0	0	0	0	476
S/A	0	0	0	0	0	0	2.21	0.67	0.5	0.53	0.37	0.36	0.34	0.48	0.46	0.42	0.56	0.7	0	0	0	0	0	0	0.72
Min	0	0	0	0	0	0	0	3	21	27	56	98	60	44	32	18	1	0	0	0	0	0	0	0	51
Max	0	0	0	0	0	0	5	49	107	218	226	288	244	295	214	106	56	18	0	0	0	0	0	0	1617
n	0	0	0	0	0	0	9	190	127	110	106	84	86	88	101	102	158	50	0	0	0	0	0	0	1220

Daylight Data Recovery: 0.0% missing; 0.0% untested; 66.5% exceed the 15% QC threshold -- 3648 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.