

**January 2012**

**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	9	43	54	33 ?	330	148	74	190	197	45	6	0	0	0	0	0	0	1130
2	0	0	0	0	0	0	0	8	31	54	83	107	230	196	223	116	24	7	0	0	0	0	0	0	1079
3	0	0	0	0	0	0	0	5	32	79	136	195	257	254	241	136	51	7	0	0	0	0	0	0	1393
4	0	0	0	0	0	0	0	8	88	216	193	237	463	447	364	172	43	6	0	0	0	0	0	0	2237
5	0	0	0	0	0	0	0	7	55	240	382	467	494	460	377	243	86	14	0	0	0	0	0	0	2823
6	0	0	0	0	0	0	0	7	92	257	393	475	504	470	384	249	94	8	0	0	0	0	0	0	2931
7	0	0	0	0	0	0	0	4	36	42	103	255	201	139	64	27 ?	11 ?	0	0	0	0	0	0	0	881 ?
8	0	0	0	0	0	0	0	7	151	338 ?	386	471	380	302	215	111	37	4	0	0	0	0	0	0	2401
9	0	0	0	0	0	0	0	0	7	34	127	62	64	52	58	33	13	3	0	0	0	0	0	0	454
10	0	0	0	0	0	0	0	4	62	195	344	385	436	391	276	131	46	6	0	0	0	0	0	0	2277
11	0	0	0	0	0	0	0	3	18	49	129	129	136	70	113	110	22	4	0	0	0	0	0	0	783
12	0	0	0	0	0	0	0	6	15	47	118	141	104	161	281	143	34	0	0	0	0	0	0	0	1051
13	0	0	0	0	0	0	0	4	33	64	158	218	234	175	108	67	27	6	0	0	0	0	0	0	1095
14	0	0	0	0	0	0	0	7	70	229	413	494	485	433	158	135	45	13	0	0	0	0	0	0	2482
15	0	0	0	0	0	0	0	6	30	87	194	339	429	511	453	282	117	19	0	0	0	0	0	0	2467
16	0	0	0	0	0	0	0	4	82	198	281	492	551	285	182	65	19	0	0	0	0	0	0	0	2161
17	0	0	0	0	0	0	0	6	64	116	199	310	153	147	224	63 ?	19 ?	6	0	0	0	0	0	0	1308
18	0	0	0	0	0	0	0	2	12	39	88	181	128	74	99	159	46	10	0	0	0	0	0	0	839
19	0	0	0	0	0	0	0	9	171	321	416	476	520	328	171	99	51	13	0	0	0	0	0	0	2574
20	0	0	0	0	0	0	0	7	108	167	144	226	171	224	178	71	37	2	0	0	0	0	0	0	1333
21	0	0	0	0	0	0	0	4	10	36 ?	45	48 ?	61	44	46	41	20	4	0	0	0	0	0	0	359 ?
22	0	0	0	0	0	0	0	3	25	108	178	234	358	336	291	274	84	16	0	0	0	0	0	0	1907
23	0	0	0	0	0	0	0	4	19	53	151	241	667	632	446	302	158	18	0	0	0	0	0	0	2693
24	0	0	0	0	0	0	0	8	80	298	410	522	560	531	444	308	141	19	0	0	0	0	0	0	3320
25	0	0	0	0	0	0	0	9	66	255	363	529	531	410	377	158	141	11	0	0	0	0	0	0	2850
26	0	0	0	0	0	0	0	14	65	128	171	154	141	422	143	71	38	7	0	0	0	0	0	0	1354
27	0	0	0	0	0	0	0	3	22	49	49	61	92	105	101	82	40	5	0	0	0	0	0	0	608
28	0	0	0	0	0	0	0	11	43	326	366	171	105	66	48 ?	208	43	17	0	0	0	0	0	0	1405
29	0	0	0	0	0	0	0	11	131	311	456	556	594	565	477	341	167	34	0	0	0	0	0	0	3641
30	0	0	0	0	0	0	0	8	124	300	403	317	390	552	465	335	168	33	0	0	0	0	0	0	3094
31	0	0	0	0	0	0	0	14	133	312	469	559	578	550	465	342	159	16	0	0	0	0	0	0	3598
Avg	0	0	0	0	0	0	0	7	62	161	238	303	328	303	247	164	65	10	0	0	0	0	0	0	1888
S D	0	0	0	0	0	0	0	3	45	110	141	163	191	184	142	99	51	8	0	0	0	0	0	0	969
S/A	0	0	0	0	0	0	0	0.49	0.73	0.68	0.59	0.54	0.58	0.61	0.58	0.61	0.78	0.83	0	0	0	0	0	0	0.51
Min	0	0	0	0	0	0	0	0	7	34	33	48	61	44	46	27	11	0	0	0	0	0	0	0	359
Max	0	0	0	0	0	0	0	14	171	338	469	559	667	632	477	342	168	34	0	0	0	0	0	0	3641
n	0	0	0	0	0	0	0	149	369	357	361	364	371	364	366	351	363	175	0	0	0	0	0	0	3590

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.2% exceed the 15% QC threshold -- 3672 total daylight measurements.

Instrument: Eppley PSP    Serial Number: 25821F3    Calibration Factor: 9.020 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.

January 2012

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	0	0	0	0	0	*
2	0	0	0	0	0	0	0	?	?	?	?	*	*	*	*	*	*	*	0	0	0	0	0	0	*
3	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
4	0	0	0	0	0	0	0	*	*	*	*	*	*	*	?	?	?	?	0	0	0	0	0	0	*
5	0	0	0	0	0	0	0	185	103	167	141	114	387	906 ?	?	?	1008 ?	1002	0	0	0	0	0	0	4014 ?
6	0	0	0	0	0	0	0	894	930 ?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
7	0	0	0	0	0	0	0	?	?	?	?	?	?	*	*	*	*	*	0	0	0	0	0	0	?
8	0	0	0	0	0	0	0	*	*	?	?	?	*	*	*	?	?	?	0	0	0	0	0	0	?
9	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
10	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
11	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	0	*
13	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
14	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
15	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
16	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
17	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
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	*
31	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
Avg	0	0	0	0	0	0	0	540	517	167	141	114	387	906	N/A	N/A	1008	1002	0	0	0	0	0	0	4014 *
S D	0	0	0	0	0	0	0	501	585	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0	0.93	1.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	185	103	167	141	114	387	906	N/A	N/A	1008	1002	0	0	0	0	0	0	4014
Max	0	0	0	0	0	0	0	894	930	167	141	114	387	906	N/A	N/A	1008	1002	0	0	0	0	0	0	4014
n	0	0	0	0	0	0	0	8	17	12	11	12	12	3	0	0	7	3	0	0	0	0	0	0	76

Daylight Data Recovery: 87.9% missing; 0.0% untested; 9.8% exceed the 15% QC threshold -- 3672 total daylight measurements.

Instrument: Eppley NIP Serial Number: 17664E6 Calibration Factor: 8.480 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 2012

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	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
2	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
3	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
4	0	0	0	0	0	0	0	?	?	?	?	?	?	?	209?	78?	?	?	0	0	0	0	0	0	?	
5	0	0	0	0	0	0	0	?	33?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
6	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	0	?	
8	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
9	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
10	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
11	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	0	?	
13	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
14	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
15	0	0	0	0	0	0	0	?	?	?	?	179?	?	?	?	?	?	?	0	0	0	0	0	0	?	
16	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
17	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
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	?	?	97?	?	?	?	?	?	?	?	?	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	?	
31	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
Avg	0	0	0	0	0	0	0	N/A	33	97	N/A	179	N/A	N/A	209	78	N/A	N/A	0	0	0	0	0	0	N/A	?
SD	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
S/A	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
Min	0	0	0	0	0	0	0	N/A	33	97	N/A	179	N/A	N/A	209	78	N/A	N/A	0	0	0	0	0	0	0	N/A
Max	0	0	0	0	0	0	0	N/A	33	97	N/A	179	N/A	N/A	209	78	N/A	N/A	0	0	0	0	0	0	0	N/A
n	0	0	0	0	0	0	0	0	3	3	0	3	0	0	2	2	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 0.0% missing; 0.0% untested; 99.6% exceed the 15% QC threshold -- 3672 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.