

**June 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	6	50	64	91	185	178	281	250	192	135 ?	246	244	347	99	23	0	0	0	0	2388
2	0	0	0	0	0	13	23 ?	243 ?	417	700	730	701	527	610	531	405	459	288	98	13	0	0	0	0	5758
3	0	0	0	0	0	28	115	276	233	450	848	726	739	645	815	479	373	280	109	14	0	0	0	0	6131
4	0	0	0	0	0	29	134	284	518	724	639	910	821	549	232	406	295	275	101	14	0	0	0	0	5929
5	0	0	0	0	0	12	45	150	400	686	329	602	859	477	506	388	183	168	69	13	0	0	0	0	4889
6	0	0	0	0	0	6	32 ?	71 ?	135	262	395	664	891	890	299	165	227	188	95	10	0	0	0	0	4327
7	0	0	0	0	0	22	95	310	588	742	894	785	660	375	737	726	521	327	123	10	0	0	0	0	6915
8	0	0	0	0	0	20	182	360	557	739	722	639	884	641	517	725	409	305	88	9	0	0	0	0	6796
9	0	0	0	0	0	19	166	327	487	688	752	930	952	852	805	434	432	292	102	16	0	0	0	0	7254
10	0	0	0	0	0	36	140	273	534	686	675	812	875	498	448	381	341	246	96	14	0	0	0	0	6055
11	0	0	0	0	0	10	40	170	268	228	98	165	250	387	347	373	190	123	70	8	0	0	0	0	2727
12	0	0	0	0	0	19	83	153	162	397	431	705	643	712	789	690	354	249	129	13	0	0	0	0	5530
13	0	0	0	0	0	26	144	342	563	586	658	779	918	690	694	703	520	338	126	9	0	0	0	0	7095
14	0	0	0	0	0	17	179	369	559	732	868	949	972	839	758	606	487	313	121	12	0	0	0	0	7781
15	0	0	0	0	0	22	182	366	553	726	863	912	799	834	681	623	415	248	74	19	0	0	0	0	7317
16	0	0	0	0	0	20	179	363	553	727	846	907	930	880	613	559	467	322	76	10	0	0	0	0	7455
17	0	0	0	0	0	15	55	211	279	386	668	581	340	437	600	341	335	220	62	14	0	0	0	0	4546
18	0	0	0	0	0	21	135	336	537	615	548	458	698	859	526	641	429	342	101	27	0	0	0	0	6274
19	0	0	0	0	0	25	139	332	523	700	824	929	792	816	862	699	520	309	119	12	0	0	0	0	7599
20	0	0	0	0	0	19	158	319	510	683	613	945	986	491	406	358	192	254	111	7	0	0	0	0	6054
21	0	0	0	0	0	20	125	321	514	688	839	798	800	533	647	693	259	176	34 ?	4	0	0	0	0	6451
22	0	0	0	0	0	8	55	129	370	594	182	562	895	747	671	565	151	221	19 ?	24	0	0	0	0	5195
23	0	0	0	0	0	21	95	281	549	716	875	941	951	778	755	462	530	321	122	13	0	0	0	0	7410
24	0	0	0	0	0	22	128	230	419	409	842	634	677	728	544	563	292	248	65	13	0	0	0	0	5816
25	0	0	0	0	0	18	173	320	521	693	787	800	829	734	685	514	533	251	108	12	0	0	0	0	6977
26	0	0	0	0	0	13	184	373	572	747	880	961	986	951	855	715	536	343	134	7	0	0	0	0	8257
27	0	0	0	0	0	15	147	341	539	722	859	934	965	933	839	698	520	324	127	10	0	0	0	0	7972
28	0	0	0	0	0	18	136	316	519	692	829	916	935	896	806	657	487	305	119	15	0	0	0	0	7646
29	0	0	0	0	0	16	142	312	479	675	807	882	914	888	803	664	494	306	79	10	0	0	0	0	7470
30	0	0	0	0	0	23	138	327	500	658	799	870	905	881	557	573	443	180	11 ?	9 ?	0	0	0	0	6874
Avg	0	0	0	0	0	19	120	276	448	608	676	756	788	692	615	535	388	270	93	13	0	0	0	0	6296
S D	0	0	0	0	0	7	51	89	142	167	232	201	207	197	194	156	124	60	32	5	0	0	0	0	1437
S/A	0	0	0	0	0	0.36	0.42	0.32	0.32	0.27	0.34	0.27	0.26	0.29	0.31	0.29	0.32	0.22	0.34	0.4	0	0	0	0	0.23
Min	0	0	0	0	0	6	23	64	91	185	98	165	250	192	135	165	151	123	11	4	0	0	0	0	2388
Max	0	0	0	0	0	36	184	373	588	747	894	961	986	951	862	726	536	347	134	27	0	0	0	0	8257
n	0	0	0	0	0	330	345	346	359	359	360	360	360	360	350	359	360	360	338	252	0	0	0	0	5198

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.3% exceed the 15% QC threshold -- 5264 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.

June 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	*	
2	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
3	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
4	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
5	0	0	0	0	0	?	?	?	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
6	0	0	0	0	0	*	*	635 ?	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
7	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
8	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
9	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
10	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
11	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
12	0	0	0	0	0	?	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
13	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
14	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
15	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
16	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
17	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
18	0	0	0	0	0	375 ?	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
19	0	0	0	0	0	562 ?	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
20	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
21	0	0	0	0	0	?	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
22	0	0	0	0	0	585 ?	?	*	*	*	*	*	*	*	*	*	*	*	*	*	204 ?	0	0	0	0	*
23	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
24	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
25	0	0	0	0	0	107 ?	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
26	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
27	0	0	0	0	0	?	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
28	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
29	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
30	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
Avg	0	0	0	0	0	407	N/A	635	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	204	0	0	0	0	N/A	*
SD	0	0	0	0	0	221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
StA	0	0	0	0	0	0.54	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	107	N/A	635	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	204	0	0	0	0	N/A	0
Max	0	0	0	0	0	585	N/A	635	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	204	0	0	0	0	N/A	0
n	0	0	0	0	0	16	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

Daylight Data Recovery: 97.2% missing; 0.0% untested; 2.4% exceed the 15% QC threshold -- 5264 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.

**June 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	*	
2	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
3	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
4	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
5	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
6	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
7	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
8	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
9	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
10	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
11	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
12	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
13	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
14	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
15	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
16	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
17	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
18	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
19	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
20	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
21	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
22	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
23	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
24	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
25	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
26	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
27	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
28	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
29	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
30	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
Avg	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	
Max	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	
n	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

Daylight Data Recovery: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 5264 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.