

June 2007

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	23	126	338	356	596	816	798	458	524	378	378	325	282	82	7	0	0	0	0	5487	
2	0	0	0	0	0	22	129	191	293	534	733	768	521	443	303	240	172	104	49	7	0	0	0	0	4511	
3	0	0	0	0	0	9	63	55	80	165	181	155	168	212	162	119	99	104	46	13	0	0	0	0	1633	
4	0	0	0	0	0	34	156	307	466	598	484	212	452	578	568	566	488	190	79	3	0	0	0	0	5179	
5	0	0	0	0	0	16	53	132	173	456	699	550	679	475	191	419	478	225 ?	26 ?	2	0	0	0	0	4573	
6	0	0	0	0	0	9	33	123	362	642	785	743	1053	914	762	681	528	324	112	2	0	0	0	0	7074	
7	0	0	0	0	0	36	175	359	543	688	855	942	956	798	826	632	497	293	117	9	0	0	0	0	7727	
8	0	0	0	0	0	32	140	252	441	695	661	554	785	867	745	310	126	172	36	9	0	0	0	0	5822	
9	0	0	0	0	0	34	120	235	357	676	627	768	853	520	542	657	480	197	127	14	0	0	0	0	6206	
10	0	0	0	0	0	30	146	343	494	716	814	720	941	896	822	557	357	195	124	15	0	0	0	0	7173	
11	0	0	0	0	0	14	86	217	301	540	702	814	934	734 ?	805	708	517	307	110	9	0	0	0	0	6798	
12	0	0	0	0	0	39	154	326	546	616	528	776	889 ?	441	628	716 ?	539 ?	309	136	14	0	0	0	0	6658	
13	0	0	0	0	0	35	108	280	550	488	547	637	862	726	427	351	177	112 ?	59	14	0	0	0	0	5373	
14	0	0	0	0	0	19	121	178	386 ?	527	683	810	643	119 ?	289	304 ?	189 ?	210	41 ?	1	0	0	0	0	4520 ?	
15	0	0	0	0	0	35	164 ?	337	491	542	772	510	834	785	542	437	475	317	122	16	0	0	0	0	6378	
16	0	0	0	0	0	24	144	336	536	590	728	756	846	901	759	495	458	269	119	18	0	0	0	0	6978	
17	0	0	0	0	0	39	149	310	531	709	853	932	939	911	701	666	499	288	114	12	0	0	0	0	7652	
18	0	0	0	0	0	26	136	306	495	671	812	867	892	922	712	602	373	278	106	11	0	0	0	0	7211	
19	0	0	0	0	0	51	112	144	271	278	390	472	915	901	750	438	381	152	1 ?	0	0	0	0	0	5256	
20	0	0	0	0	0	21	46	148	418	762	883	964	995	942	860	720	538	340	130	10	0	0	0	0	7776	
21	0	0	0	0	0	42	151	356	633 ?	746	877	950	965	934	840	701	526	332	127	11	0	0	0	0	8192	
22	0	0	0	0	0	42	160	293	526	692	609	486	337	179	189	249	400	231	77	5	0	0	0	0	4475	
23	0	0	0	0	0	26	176	357	474	711	765	866	949	905	762	574	489	325	103	16	0	0	0	0	7498	
24	0	0	0	0	0	33	120	283	412	283	532	464	608	566	777	422	161	111	25 ?	2	0	0	0	0	4799	
25	0	0	0	0	0	26	95	212	134	420	772	828	931	837	759	459	63 ?	57 ?	115	13	0	0	0	0	5722	
26	0	0	0	0	0	20	130	270	529	694	825	730	657	843	604	571	521	291	118	14	0	0	0	0	6817	
27	0	0	0	0	0	33	157	268	531	654	823	875	786	849	709	460	214	301	92	2	0	0	0	0	6756	
28	0	0	0	0	0	25	127	283	424	608	453	557	671	322	703	373	77 ?	285	83	6	0	0	0	0	4996	
29	0	0	0	0	0	19	121	193	135	223	317	345	629	717	555	529	364	353 ?	42	17	0	0	0	0	4559	
30	0	0	0	0	0	10	66	108	238	271	262	371	339	473	414	376	312	305	128	16	0	0	0	0	3688	
Avg	0	0	0	0	0	27	122	251	404	560	660	674	750	674	603	490	361	242	88	10	0	0	0	0	5916	
S D	0	0	0	0	0	10	39	86	145	167	192	221	227	251	214	161	161	84	39	5	0	0	0	0	1472	
S/A	0	0	0	0	0	0.38	0.32	0.34	0.36	0.3	0.29	0.33	0.3	0.37	0.36	0.33	0.45	0.35	0.44	0.56	0	0	0	0	0	0.25
Min	0	0	0	0	0	9	33	55	80	165	181	155	168	119	162	119	63	57	1	0	0	0	0	0	1633	
Max	0	0	0	0	0	51	176	359	633	762	883	964	1053	942	860	720	539	353	136	18	0	0	0	0	8192	
n	0	0	0	0	0	329	354	358	348	360	358	360	357	352	358	352	338	336	335	252	0	0	0	0	0	5147

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.2% exceed the 15% QC threshold -- 5262 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 2007

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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	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	*	*	*	?	?	?	?	324 ?	?	394 ?	598 ?	608 ?	?	?	?	?	0	0	0	?
13	0	0	0	0	0	*	*	?	634 ?	*	*	*	*	*	*	*	*	?	?	?	?	0	0	0	*
14	0	0	0	0	0	?	?	?	?	*	*	*	*	*	*	?	166 ?	90 *?	*	?	?	0	0	0	?
15	0	0	0	0	0	177 ?	?	?	*	*	*	*	*	*	*	*	*	*	*	?	?	0	0	0	*
16	0	0	0	0	0	524	?	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*
17	0	0	0	0	0	308	*	*	*	*	*	*	*	*	*	*	*	*	*	*	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	336	N/A	N/A	634	N/A	N/A	N/A	324	N/A	394	598	387	90	N/A	N/A	0	0	0	0	N/A *?
SD	0	0	0	0	0	175	0	0	0	0	0	0	0	0	0	0	313	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0.52	0	0	0	0	0	0	0	0	0	0	0.81	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	177	N/A	N/A	634	N/A	N/A	N/A	324	N/A	394	598	166	90	N/A	N/A	0	0	0	0	N/A
Max	0	0	0	0	0	524	N/A	N/A	634	N/A	N/A	N/A	324	N/A	394	598	608	90	N/A	N/A	0	0	0	0	N/A
n	0	0	0	0	0	25	0	0	2	0	0	0	2	0	2	3	9	5	0	0	0	0	0	0	0

Daylight Data Recovery: 87.7% missing; 0.0% untested; 11.3% exceed the 15% QC threshold -- 5262 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.

June 2007

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	25	87	168	328	378	443	386	352	389	325	345	280	199	77	7	0	0	0	0	3790
2	0	0	0	0	0	24	127	201	307	455	505	545	495	426	321	258	186	111	52	7	0	0	0	0	4017
3	0	0	0	0	0	9	66	58	86	177	194	166	180	226	174	128	106	111	48	13	0	0	0	0	1741
4	0	0	0	0	0	35	127	251	285	335	264	207	292	298	286	213	161	114	60	3	0	0	0	0	2932
5	0	0	0	0	0	15	54	132	182	322	348	271	375	324	164	327	276	85 ?	26	2	0	0	0	0	2903
6	0	0	0	0	0	9	34	128	282	259	217	261	255	208	219	133	87	74	42	3	0	0	0	0	2210
7	0	0	0	0	0	26	70	103	139	188	189	262	265	288	203	199	160	109	70	10	0	0	0	0	2282
8	0	0	0	0	0	31	119	207	238	231	303	322	321	285	285	220	132	167	37	9	0	0	0	0	2907
9	0	0	0	0	0	35	111	215	283	351	313	336	321	320	331	315	251	137	83	15	0	0	0	0	3417
10	0	0	0	0	0	29	84	92	158	245	306	273	251	248	223	318	286	166	105	16	0	0	0	0	2801
11	0	0	0	0	0	14	87	209	302	405	397	258	205	230 ?	200	146	104	93	52	10	0	0	0	0	2711
12	0	0	0	0	0	27	80	144	181	288	379	338	344 ?	257	326	210 ?	194 ?	134	115	15	0	0	0	0	3032
13	0	0	0	0	0	29	109	177	140	210	292	267	222	268	298	217	190	116	63	14	0	0	0	0	2613
14	0	0	0	0	0	20	114	171	304	452	430	321	355	112 ?	300	238	131	197	39 ?	1	0	0	0	0	3183
15	0	0	0	0	0	36	119	189	326	451	428	323	347	393	368	295	217	156	72	17	0	0	0	0	3737
16	0	0	0	0	0	24	91	158	195	252	335	334	371	324	319	283	230	137	82	19	0	0	0	0	3154
17	0	0	0	0	0	27	79	115	138	158	159	171	203	216	256	232	194	130	71	13	0	0	0	0	2162
18	0	0	0	0	0	25	99	168	223	263	274	292	335	366	330	286	192	145	69	13	0	0	0	0	3079
19	0	0	0	0	0	62 ?	118	153	282	295	398	458	446	379	361	341	253	137	7 ?	0	0	0	0	0	3688
20	0	0	0	0	0	22	48	129	203	130	114	126	118	110	103	96	90	81	52	11	0	0	0	0	1431
21	0	0	0	0	0	25	59	67	79 ?	93	105	124	142	123	119	110	94	78	52	11	0	0	0	0	1283
22	0	0	0	0	0	36	93	157	175	218	468	448	352	191	201	264	351	196	81	5	0	0	0	0	3236
23	0	0	0	0	0	22	67	98	137	159	229	209	194	165	259	303	176	120	68	17	0	0	0	0	2224
24	0	0	0	0	0	29	100	211	316	303	460	437	479	502	401	299	153	110	20	2	0	0	0	0	3823
25	0	0	0	0	0	27	95	198	142	390	453	409	310	273	288	265	58 ?	54	110	13	0	0	0	0	3085
26	0	0	0	0	0	23	118	167	163	177	197	255	336	317	314	315	219	148	75	15	0	0	0	0	2838
27	0	0	0	0	0	33	113	209	351	405	461	451	373	313	322	289	211	227	77	2	0	0	0	0	3836
28	0	0	0	0	0	24	87	171	301	364	446	442	348	289	349	194	68	254	86	6	0	0	0	0	3429
29	0	0	0	0	0	19	109	199	143	236	336	367	572	458	389	288	172	67 ?	43	18	0	0	0	0	3416
30	0	0	0	0	0	11	71	115	253	283	254	335	330	385	315	321	245	183	86	18	0	0	0	0	3203
Avg	0	0	0	0	0	26	91	159	221	282	323	313	316	289	278	248	182	135	64	10	0	0	0	0	2939
S D	0	0	0	0	0	10	25	47	80	100	114	104	103	98	77	72	72	48	25	6	0	0	0	0	705
S/A	0	0	0	0	0	0.39	0.27	0.3	0.36	0.36	0.35	0.33	0.33	0.34	0.28	0.29	0.39	0.36	0.4	0.57	0	0	0	0	0.24
Min	0	0	0	0	0	9	34	58	79	93	105	124	118	110	103	96	58	54	7	0	0	0	0	0	1283
Max	0	0	0	0	0	62	127	251	351	455	505	545	572	502	401	345	351	254	115	19	0	0	0	0	4017
n	0	0	0	0	0	317	358	358	354	360	358	360	357	354	358	357	348	350	343	252	0	0	0	0	5184

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.5% exceed the 15% QC threshold -- 5262 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.