

October 2011

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	5	53	84	164	234	263	277	148	131	115	99	33	6	0	0	0	0	0	1613
2	0	0	0	0	0	0	5	37	108	182	190	276	671	568	583	424	196	62	3	0	0	0	0	0	3304
3	0	0	0	0	0	0	32	150	244	300	203	316	357	171	84	73	33	9	0	0	0	0	0	0	1970
4	0	0	0	0	0	0	6	32	76	181	165	185	226	217	280	402	261	52	0	0	0	0	0	0	2083
5	0	0	0	0	0	0	15	115	337	513	642	713	725	668	559	401	214	42	0	0	0	0	0	0	4943
6	0	0	0	0	0	0	20	140	326	496	626	700	712	658	542	385	207	45	0	0	0	0	0	0	4858
7	0	0	0	0	0	0	21	147	347	490	619	695	705	653	541	385	205	45	0	0	0	0	0	0	4853
8	0	0	0	0	0	0	20	141	338	504	635	709	717	664	550	390	206	41	0	0	0	0	0	0	4915
9	0	0	0	0	0	0	19	125	273	461	623	706	704	581	406	406	170	46	0	0	0	0	0	0	4518
10	0	0	0	0	0	0	15	110	307	277	469	271	332	360	326	232	113	26	0	0	0	0	0	0	2838
11	0	0	0	0	0	0	3	38	87	282	367	397	280	189	164	68	38	6	0	0	0	0	0	0	1918
12	0	0	0	0	0	0	9	67	140	197	227	249	257	441	350	177	147	33	0	0	0	0	0	0	2295
13	0	0	0	0	0	0	16	60	210	226	404	173 ?	284	358	81 ?	73	74	34	0	0	0	0	0	0	1994
14	0	0	0	0	0	0	8	61	220	380	393	473	580	542	221	327	201	36	0	0	0	0	0	0	3443
15	0	0	0	0	0	0	13	121	296	457	585	668	698	644	529	368	182	35	0	0	0	0	0	0	4596
16	0	0	0	0	0	0	12	118	300	466	592	661	671	622	513	354	172	30	0	0	0	0	0	0	4512
17	0	0	0	0	0	0	11	106	311	463	541	629	627	493	287	217	130	15	0	0	0	0	0	0	3829
18	0	0	0	0	0	0	18	102	203	278	477	572	542	584	326	304	128	29	0	0	0	0	0	0	3563
19	0	0	0	0	0	0	1	28	101	203	102	111	154	328	209	148 ?	4 ?	3	0	0	0	0	0	0	1394 ?
20	0	0	0	0	0	0	7	67	131	107	146	152	166	191	102	71	9 ?	3	0	0	0	0	0	0	1153
21	0	0	0	0	0	0	4	31	78	287	562	607	666	610	492	335	151	26	0	0	0	0	0	0	3849
22	0	0	0	0	0	0	11	112	269	445	581	650	649	604	488	331	147	22	0	0	0	0	0	0	4310
23	0	0	0	0	0	0	9	147	282	443	553	623	617	581	448	312	133	9	0	0	0	0	0	0	4159
24	0	0	0	0	0	0	4	42	245	432	557	627	634	579	448	252	20 ?	1	0	0	0	0	0	0	3842
25	0	0	0	0	0	0	5	44	119	366	538	622	626	544	451	306	129	17	0	0	0	0	0	0	3766
26	0	0	0	0	0	0	4	30	95	255	289	397	490	373	292	248	82	18	0	0	0	0	0	0	2573
27	0	0	0	0	0	0	4	7 ?	27 ?	61 ?	161	172	161	106	50	30 ?	5 ?	1	0	0	0	0	0	0	783 ?
28	0	0	0	0	0	0	3	16	25 ?	35 ?	75	118	100	80	44 ?	31 ?	10 ?	2	0	0	0	0	0	0	540 ?
29	0	0	0	0	0	0	2	19	38	60	76	158	290	432	134	170	68	19	0	0	0	0	0	0	1466
30	0	0	0	0	0	0	6	119	332	417	540	605	605	548	440	285	111	10	0	0	0	0	0	0	4017
31	0	0	0	0	0	0	2	42	154	244	239	171	261	168	206	69	31	6	0	0	0	0	0	0	1593
Avg	0	0	0	0	0	0	10	78	197	312	400	441	477	442	331	248	119	24	0	0	0	0	0	0	3080
S D	0	0	0	0	0	0	7	47	107	147	197	224	214	194	176	131	74	17	1	0	0	0	0	0	1374
S/A	0	0	0	0	0	0	0.73	0.6	0.55	0.47	0.49	0.51	0.45	0.44	0.53	0.53	0.63	0.69	4.23	0	0	0	0	0	0.45
Min	0	0	0	0	0	0	1	7	25	35	75	111	100	80	44	30	4	1	0	0	0	0	0	0	540
Max	0	0	0	0	0	0	32	150	347	513	642	713	725	668	583	424	261	62	6	0	0	0	0	0	4943
n	0	0	0	0	0	0	171	369	357	357	371	365	370	369	363	361	333	269	2	0	0	0	0	0	4057

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.5% exceed the 15% QC threshold -- 4162 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.

October 2011

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	*
2	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
3	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	*
5	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
6	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	*
8	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	*
10	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	*
12	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	*
14	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	*
16	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	*
18	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
19	0	0	0	0	0	0	*	*	*	*	*	84 *?	140 ?	364 ?	*	*	764 ?	695 ?	0	0	0	0	0	0	2047 *?
20	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	*
22	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	*
24	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	*
26	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
27	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	?	61 ?	?	0	0	0	0	0	0	*
28	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	*
30	0	0	0	0	0	0	*	*	564 ?	?	?	?	594	984 ?	?	?	?	?	0	0	0	0	0	0	2142 ?
31	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	967 ?	966 ?	0	0	0	0	0	0	?
Avg	0	0	0	0	0	0	N/A	N/A	564	N/A	N/A	84	367	674	N/A	N/A	597	831	0	0	0	0	0	0	2142 *
SD	0	0	0	0	0	0	0	0	0	0	0	0	321	438	0	0	476	192	0	0	0	0	0	0	0
StA	0	0	0	0	0	0	0	0	0	0	0	0	0.87	0.65	0	0	0.8	0.23	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	N/A	N/A	564	N/A	N/A	84	140	364	N/A	N/A	61	695	0	0	0	0	0	0	2142
Max	0	0	0	0	0	0	N/A	N/A	564	N/A	N/A	84	594	984	N/A	N/A	967	966	0	0	0	0	0	0	2142
n	0	0	0	0	0	0	0	0	4	0	0	4	15	5	0	0	8	5	0	0	0	0	0	0	20

Daylight Data Recovery: 90.5% missing; 0.0% untested; 8.5% exceed the 15% QC threshold -- 4162 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.

October 2011

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	?	
2	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	?	
3	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	?	
5	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
6	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	?	
8	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	?	
10	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	?	
12	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	?	
14	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	?	
16	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	?	
18	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	?	
20	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	?	
22	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	?	
24	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	?	
26	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	?	
28	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	?	
30	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	?	
Avg	0	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	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	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	0	0	N/A	?
Max	0	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	0	0	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: 0.0% missing; 0.0% untested; 100.0% exceed the 15% QC threshold -- 4162 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.