

November 2005

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	11	70	173	152	117	148	79	302	371	226	59	0	0	0	0	0	0	0	1707
2	0	0	0	0	0	0	26	119	326	484	589	637	621	539	397	211	49	0	0	0	0	0	0	0	3997
3	0	0	0	0	0	0	24	147	326	437	540	540	602	523	393	211	53	0	0	0	0	0	0	0	3796
4	0	0	0	0	0	0	25	122	246	259	383	395	305	375	231	129	36	0	0	0	0	0	0	0	2506
5	0	0	0	0	0	0	12	106	259	452	553	525	395	394	284	160	47	0	0	0	0	0	0	0	3187
6	0	0	0	0	0	0	9	43	76	337	219	301	283	374	280	180	39	0	0	0	0	0	0	0	2141
7	0	0	0	0	0	0	17	114	273	399	523	451	557	470	324	172	46	0	0	0	0	0	0	0	3346
8	0	0	0	0	0	0	18	114	276	434	542	587	563	488	352	176	44	0	0	0	0	0	0	0	3592
9	0	0	0	0	0	0	16	105	163	175	346	520	578	394	134	73	33	0	0	0	0	0	0	0	2536
10	0	0	0	0	0	0	14	108	273	457	573	619	601	522	379	210	51	0	0	0	0	0	0	0	3807
11	0	0	0	0	0	0	18	120	292	457	562	605	587	520	280	183	71	0	0	0	0	0	0	0	3696
12	0	0	0	0	0	0	21	113	275	431	536	578	563	441	179	104	37	0	0	0	0	0	0	0	3278
13	0	0	0	0	0	0	2	21	23 ?	54 ?	77 ?	138	214	334 ?	187	129	25	0	0	0	0	0	0	0	1204 ?
14	0	0	0	0	0	0	6	56	155	240	288	287	445	317	229	147	32	0	0	0	0	0	0	0	2201
15	0	0	0	0	0	0	4	56	120	189	329	307	332	278	135	144	25	0	0	0	0	0	0	0	1918
16	0	0	0	0	0	0	3	77	275	451	554	607	592	512	366	188	41	0	0	0	0	0	0	0	3665
17	0	0	0	0	0	0	13	109	284	449	559	605	595	514	367	186	39	0	0	0	0	0	0	0	3719
18	0	0	0	0	0	0	12	103	272	433	539	586	573	494	350	174	33	0	0	0	0	0	0	0	3567
19	0	0	0	0	0	0	6	32	36	93 ?	213	460	259	263	225	91	30	0	0	0	0	0	0	0	1706
20	0	0	0	0	0	0	12	93	250	360	470	455	538	403	232	133	23	0	0	0	0	0	0	0	2967
21	0	0	0	0	0	0	0	10	85	191	326	361	517	243	256	147	37	0	0	0	0	0	0	0	2173
22	0	0	0	0	0	0	9	90	249	405	518	518	543	472	320	158	39	0	0	0	0	0	0	0	3322
23	0	0	0	0	0	0	8	84	243	388	502	550	552	468	349	135	40	0	0	0	0	0	0	0	3318
24	0	0	0	0	0	0	7	82	235	388	499	535	527	429	267	96	22	0	0	0	0	0	0	0	3088
25	0	0	0	0	0	0	12	81	237	392	501	544	534	454	323	159	21	0	0	0	0	0	0	0	3256
26	0	0	0	0	0	0	5	42	126	269	444	430	310	150	87	38	8	0	0	0	0	0	0	0	1912
27	0	0	0	0	0	0	4	41	205	350	330	362	174	121	97	112	32	0	0	0	0	0	0	0	1829
28	0	0	0	0	0	0	2	36	105	269	396	504	481	451	327	165	36	0	0	0	0	0	0	0	2773
29	0	0	0	0	0	0	4	73	227	385	495	545	538	458	324	159	32	0	0	0	0	0	0	0	3241
30	0	0	0	0	0	0	3	73	233	397	505	551	539	449	212	128	23	0	0	0	0	0	0	0	3113

Avg	0	0	0	0	0	0	11	81	211	339	434	475	467	405	275	151	37	0	0	0	0	0	0	0	2885
S D	0	0	0	0	0	0	7	35	84	120	141	134	149	111	89	43	13	0	0	0	0	0	0	0	776
S/A	0	0	0	0	0	0	0.69	0.43	0.4	0.35	0.32	0.28	0.32	0.27	0.32	0.29	0.35	0	0	0	0	0	0	0	0.27
Min	0	0	0	0	0	0	0	10	23	54	77	138	79	121	87	38	8	0	0	0	0	0	0	0	1204
Max	0	0	0	0	0	0	26	147	326	484	589	637	621	539	397	226	71	0	0	0	0	0	0	0	3997
n	0	0	0	0	0	0	165	357	350	350	356	360	358	357	360	360	329	4	0	0	0	0	0	0	3706

Daylight Data Recovery: 0.0% missing; 0.9% exceed the 15% QC threshold -- 3738 total daylight measurements.

Instrument: Eppley PSP Serial Number: 18036F3 Calibration Factor: 7.430 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 2005

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	*
2	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	*
4	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
5	0	0	0	0	0	0	889 ?	?	*	*	*	*	*	*	*	*	*	0	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	*	535 *	*	*	*	*	?	?	*	*	*	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	*
Avg	0	0	0	0	0	0	889	535	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	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
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
Min	0	0	0	0	0	0	889	535	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	N/A
Max	0	0	0	0	0	0	889	535	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	N/A
n	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 98.4% missing; 1.5% exceed the 15% QC threshold -- 3738 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25796E6 Calibration Factor: 8.670 $\mu\text{V}/\text{W}/\text{m}^2$ 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.

November 2005

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	10	67	167	147	113	143	77	230 ?	340 ?	189 ?	69	0	0	0	0	0	0	0	1553 ?
2	0	0	0	0	0	0	32	128	?	?	?	?	?	?	?	185 ?	58	0	0	0	0	0	0	0	403 ?
3	0	0	0	0	0	0	26	134 ?	?	440 ?	511 ?	436 ?	?	?	374 ?	202 ?	61	0	0	0	0	0	0	0	2184 ?
4	0	0	0	0	0	0	28	120	238	257	354	386	303	318 ?	232	132	37	0	0	0	0	0	0	0	2407
5	0	0	0	0	0	0	11	108	265 ?	?	?	386 ?	387	316 ?	265 ?	168	51	0	0	0	0	0	0	0	1957 ?
6	0	0	0	0	0	0	9	41	74	313	214	296	257	317 ?	298	199	42	0	0	0	0	0	0	0	2059
7	0	0	0	0	0	0	17	119	292	356 ?	499 ?	295 ?	429 ?	215 ?	296 ?	188	51	0	0	0	0	0	0	0	2757 ?
8	0	0	0	0	0	0	21	120	299 ?	?	?	?	?	?	338 ?	194	48	0	0	0	0	0	0	0	1020 ?
9	0	0	0	0	0	0	18	90	137	170	309	443 ?	488 ?	320 ?	131	72	27	0	0	0	0	0	0	0	2205 ?
10	0	0	0	0	0	0	14	111	252 ?	?	?	?	?	?	?	150 ?	57	0	0	0	0	0	0	0	584 ?
11	0	0	0	0	0	0	19	122	?	?	?	?	?	?	267	158 ?	68 ?	0	0	0	0	0	0	0	634 ?
12	0	0	0	0	0	0	22	119	229 ?	?	?	?	?	302 ?	175	102	37	0	0	0	0	0	0	0	986 ?
13	0	0	0	0	0	0	2	19	19 ?	41	62	132	211	262 ?	170	88	24	0	0	0	0	0	0	0	1031 ?
14	0	0	0	0	0	0	5	54	152	235	291	289	344 ?	291	237	155	33	0	0	0	0	0	0	0	2087
15	0	0	0	0	0	0	4	54	116	185	308	287	339	245	135	153	24	0	0	0	0	0	0	0	1850
16	0	0	0	0	0	0	2	69	208 ?	?	?	?	?	?	?	160 ?	48	0	0	0	0	0	0	0	488 ?
17	0	0	0	0	0	0	14	108	?	?	?	?	?	?	?	158 ?	45	0	0	0	0	0	0	0	325 ?
18	0	0	0	0	0	0	13	109	?	?	?	?	?	?	?	163 ?	39	0	0	0	0	0	0	0	323 ?
19	0	0	0	0	0	0	5	30	34	70	205	347 ?	252	237	168	87	30	0	0	0	0	0	0	0	1464
20	0	0	0	0	0	0	14	87	218 ?	319 ?	338 ?	334 ?	?	317 ?	235	117 ?	23	0	0	0	0	0	0	0	2002 ?
21	0	0	0	0	0	0	0	9	81	186	325	339	450 ?	242	212 ?	142	41	0	0	0	0	0	0	0	2026 ?
22	0	0	0	0	0	0	9	95	205 ?	?	?	460 ?	?	?	323 ?	176	45	0	0	0	0	0	0	0	1312 ?
23	0	0	0	0	0	0	8	88	204 ?	385 ?	?	?	?	?	?	121	45	0	0	0	0	0	0	0	850 ?
24	0	0	0	0	0	0	7	89	204 ?	?	?	?	485 ?	402 ?	258 ?	97	21	0	0	0	0	0	0	0	1563 ?
25	0	0	0	0	0	0	11	85	197 ?	?	?	?	?	?	?	162	24	0	0	0	0	0	0	0	480 ?
26	0	0	0	0	0	0	6 ?	40	124	268	454 ?	429 ?	311	144	83	37	8	0	0	0	0	0	0	0	1904
27	0	0	0	0	0	0	4	39	168 ?	327 ?	273 ?	245 ?	167	116	93	113	33	0	0	0	0	0	0	0	1578 ?
28	0	0	0	0	0	0	1	33	100	267	396	459 ?	412 ?	?	?	158 ?	40	0	0	0	0	0	0	0	1867 ?
29	0	0	0	0	0	0	4	77	196 ?	?	?	?	?	?	?	159	36	0	0	0	0	0	0	0	471 ?
30	0	0	0	0	0	0	3	78	187 ?	?	?	?	?	?	185	116	23	0	0	0	0	0	0	0	592 ?
Avg	0	0	0	0	0	0	11	81	175	248	310	336	327	267	229	143	40	0	0	0	0	0	0	0	1365 ?
S D	0	0	0	0	0	0	8	36	75	110	128	100	120	72	83	41	15	0	0	0	0	0	0	0	727
S/A	0	0	0	0	0	0	0.74	0.44	0.43	0.45	0.41	0.3	0.37	0.27	0.36	0.28	0.37	5.48	0	0	0	0	0	0	0.53
Min	0	0	0	0	0	0	0	9	19	41	62	132	77	116	83	37	8	0	0	0	0	0	0	0	323
Max	0	0	0	0	0	0	32	134	299	440	511	460	488	402	374	202	69	0	0	0	0	0	0	0	2757
n	0	0	0	0	0	0	160	350	205	154	138	133	129	135	196	292	324	4	0	0	0	0	0	0	2235

Daylight Data Recovery: 0.0% missing; 40.2% exceed the 15% QC threshold -- 3738 total daylight measurements.

Instrument: Eppley PSP Serial Number: 18039F3 Calibration Factor: 7.470 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.