

October 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	1	45	197	369	543	656	696	483	616	401	339	148	15	0	0	0	0	0	0	4511
2	0	0	0	0	0	2	48	206	386	546	670	713	672	619	415	277	135	24	0	0	0	0	0	0	4713
3	0	0	0	0	0	1	50	216	410	571	685	731	656	606	495	308	128	14	0	0	0	0	0	0	4872
4	0	0	0	0	0	0	48	215	407	566	673	706	595	558	476	332	110	21	0	0	0	0	0	0	4709
5	0	0	0	0	0	0	47	214	408	569	681	733	717	633	516	334	139	26	0	0	0	0	0	0	5018
6	0	0	0	0	0	0	45	211	402	565	595	602	506	621	490	311	129	25	0	0	0	0	0	0	4499
7	0	0	0	0	0	0	34	120	285	345	295	385	648	627	466	316	120	17	0	0	0	0	0	0	3657
8	0	0	0	0	0	0	54	159	402	594	688	764	705	226	208	162	54	18	0	0	0	0	0	0	4034
9	0	0	0	0	0	0	42	123	244	499	323	712	685	635	496	319	121	19	0	0	0	0	0	0	4218
10	0	0	0	0	0	0	36	146	315	528	591	738	720	647	457	313	96	14	0	0	0	0	0	0	4602
11	0	0	0	0	0	0	18	70	180	377	666	722	707	621	487	300	112	12	0	0	0	0	0	0	4273
12	0	0	0	0	0	0	27	184	368	542	646	705	689	608	468	288	102	14	0	0	0	0	0	0	4642
13	0	0	0	0	0	0	39	182	361	523	637	689	674	593	449	267	97	8	0	0	0	0	0	0	4518
14	0	0	0	0	0	0	36	175	363	540	653	706	687	580	478	294	108	12	0	0	0	0	0	0	4633
15	0	0	0	0	0	0	43	199	397	534	646	695	657	566	447	267	85	6	0	0	0	0	0	0	4543
16	0	0	0	0	0	0	39	196	382	556	668	720	701	619	479	293	102	8	0	0	0	0	0	0	4764
17	0	0	0	0	0	0	44	193	380	550	662	708	686	600	452	272	92	3	0	0	0	0	0	0	4643
18	0	0	0	0	0	0	34	166	336	503	616	662	635	549	410	249	86	7	0	0	0	0	0	0	4254
19	0	0	0	0	0	0	33	167	342	507	614	659	631	554	371	212	81	5	0	0	0	0	0	0	4176
20	0	0	0	0	0	0	32	169	348	515	623	672	662	575	440	255	84	10	0	0	0	0	0	0	4385
21	0	0	0	0	0	0	32	176	355	520	629	669	667	575	435	257	73	9	0	0	0	0	0	0	4398
22	0	0	0	0	0	0	27	126	355	529	640	688	670	584	439	260	79	3	0	0	0	0	0	0	4401
23	0	0	0	0	0	0	29	166	337	503	616	606	463	397	322	125	23	3	0	0	0	0	0	0	3593
24	0	0	0	0	0	0	33	175	355	509	641	519	537	367	233	135	50	4	0	0	0	0	0	0	3556
25	0	0	0	0	0	0	34	173	358	457	537	677	653	571	426	239	77	7	0	0	0	0	0	0	4208
26	0	0	0	0	0	0	26	138	404 ?	488	616	669	650	556	424	240	73	1	0	0	0	0	0	0	4284
27	0	0	0	0	0	0	31	160	337	496	549	612	649	545	412	236	74	5	0	0	0	0	0	0	4106
28	0	0	0	0	0	0	29	162	342	503	615	665	642	553	418	236	65	1	0	0	0	0	0	0	4230
29	0	0	0	0	0	0	28	160	339	499	610	660	637	550	417	210	60	0	0	0	0	0	0	0	4171
30	0	0	0	0	0	0	28	159	337	501	613	661	637	539	410	225	59	0	0	0	0	0	0	0	4171
31	0	0	0	0	0	0	25	140	313	473	583	635	614	531	395	225	57	1	0	0	0	0	0	0	3992
Avg	0	0	0	0	0	0	36	169	352	515	611	670	643	562	427	261	91	10	0	0	0	0	0	0	4348
SD	0	0	0	0	0	0	9	33	49	52	89	72	65	87	69	55	30	8	0	0	0	0	0	0	352
S/A	0	0	0	0	0	3.3	0.24	0.19	0.14	0.1	0.14	0.11	0.1	0.15	0.16	0.21	0.33	0.76	0	0	0	0	0	0	0.08
Min	0	0	0	0	0	0	18	70	180	345	295	385	463	226	208	125	23	0	0	0	0	0	0	0	3556
Max	0	0	0	0	0	2	54	216	410	594	688	764	720	647	516	339	148	26	0	0	0	0	0	0	5018
n	0	0	0	0	0	5	331	372	365	372	372	372	372	372	372	372	372	141	0	0	0	0	0	0	4190

Daylight Data Recovery: 0.0% missing; 0.2% exceed the 15% QC threshold -- 4197 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.

October 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	*	
2	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
3	0	0	0	0	0	?	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
4	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
5	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	555 ?	*	*	*	*	*	*	*	*	*	*	*	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	809 ?	*	*	*	*	*	*	*	*	*	*	*	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	682	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	179	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	0.26	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	555	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	809	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	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 98.5% missing; 1.2% exceed the 15% QC threshold -- 4197 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25796E6 Calibration Factor: 8.670 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 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	1	46	210	404	?	?	?	431 ?	420 ?	403 ?	369 ?	172	16	0	0	0	0	0	0	2472 ?
2	0	0	0	0	0	?	49	223	365 ?	?	?	?	536 ?	476 ?	300 ?	232 ?	155	28	0	0	0	0	0	0	2365 ?
3	0	0	0	0	0	0	53	217 ?	?	?	?	?	626 ?	540 ?	407 ?	235 ?	123	15	0	0	0	0	0	0	2216 ?
4	0	0	0	0	0	0	51	190 ?	?	?	?	?	419 ?	399 ?	322 ?	320 ?	128	25	0	0	0	0	0	0	1856 ?
5	0	0	0	0	0	0	50	189 ?	?	?	?	?	?	?	?	?	166	32	0	0	0	0	0	0	437 ?
6	0	0	0	0	0	0	47	194 ?	?	?	557 ?	542 ?	476 ?	?	?	340	144	27	0	0	0	0	0	0	2327 ?
7	0	0	0	0	0	0	34	119	284	347	297	384	512 ?	?	396 ?	319 ?	137	20	0	0	0	0	0	0	2848 ?
8	0	0	0	0	0	0	35	160	251 ?	?	?	?	500 ?	232	210	164	55	17	0	0	0	0	0	0	1623 ?
9	0	0	0	0	0	0	43	111	203	451 ?	284	?	?	?	?	303 ?	143	24	0	0	0	0	0	0	1561 ?
10	0	0	0	0	0	0	36	145	256 ?	428 ?	429 ?	?	?	?	459 ?	?	112	17	0	0	0	0	0	0	1882 ?
11	0	0	0	0	0	0	19	70	180	333	?	?	?	?	?	294 ?	130	14	0	0	0	0	0	0	1040 ?
12	0	0	0	0	0	0	27	193	353 ?	?	?	?	?	?	?	316 ?	117	16	0	0	0	0	0	0	1022 ?
13	0	0	0	0	0	0	40	194	372 ?	?	?	?	?	?	?	292	105	9	0	0	0	0	0	0	1012 ?
14	0	0	0	0	0	0	37	186	350 ?	?	?	?	?	?	?	322 ?	120	13	0	0	0	0	0	0	1028 ?
15	0	0	0	0	0	0	58	185 ?	?	?	?	?	?	?	?	300	96	8	0	0	0	0	0	0	647 ?
16	0	0	0	0	0	0	42	172 ?	?	?	?	?	?	?	?	?	122	12	0	0	0	0	0	0	349 ?
17	0	0	0	0	0	0	54	172 ?	?	?	?	?	?	?	?	289 ?	107	5	0	0	0	0	0	0	626 ?
18	0	0	0	0	0	0	38	176	346 ?	?	?	?	?	?	442	275	96	8	0	0	0	0	0	0	1381 ?
19	0	0	0	0	0	0	35	180	353 ?	?	?	?	?	?	365 ?	233	90	6	0	0	0	0	0	0	1263 ?
20	0	0	0	0	0	0	34	183	358 ?	?	?	?	?	?	?	262 ?	95	12	0	0	0	0	0	0	943 ?
21	0	0	0	0	0	0	34	173	?	?	?	?	?	?	?	181 ?	79	10	0	0	0	0	0	0	477 ?
22	0	0	0	0	0	0	27	114	?	?	?	?	?	?	?	218 ?	91	5	0	0	0	0	0	0	456 ?
23	0	0	0	0	0	0	34	178	371 ?	?	?	548 ?	349 ?	388	277 ?	123	22	3	0	0	0	0	0	0	2293 ?
24	0	0	0	0	0	0	36	165 ?	?	?	515 ?	501 ?	423 ?	271 ?	213	134	50	4	0	0	0	0	0	0	2312 ?
25	0	0	0	0	0	0	37	160 ?	?	431 ?	399 ?	?	?	?	?	248 ?	86	8	0	0	0	0	0	0	1369 ?
26	0	0	0	0	0	0	28	142	268 ?	?	?	?	?	?	?	207 ?	83	2	0	0	0	0	0	0	731 ?
27	0	0	0	0	0	0	33	164	?	?	422 ?	529 ?	?	?	424 ?	198 ?	83	5	0	0	0	0	0	0	1860 ?
28	0	0	0	0	0	0	31	157	?	?	?	?	?	?	?	205 ?	75	2	0	0	0	0	0	0	470 ?
29	0	0	0	0	0	0	30	148 ?	?	?	?	?	?	?	?	206 ?	70	1	0	0	0	0	0	0	456 ?
30	0	0	0	0	0	0	31	148 ?	?	?	?	?	?	?	?	203 ?	69	0	0	0	0	0	0	0	450 ?
31	0	0	0	0	0	0	26	148	292 ?	?	?	?	?	?	370 ?	203 ?	65	1	0	0	0	0	0	0	1106 ?
Avg	0	0	0	0	0	0	38	167	313	398	415	501	475	389	353	250	103	12	0	0	0	0	0	0	1319 ?
S D	0	0	0	0	0	0	9	33	66	54	101	68	81	108	82	64	35	9	0	0	0	0	0	0	748
S/A	0	0	0	0	0	4.29	0.25	0.2	0.21	0.14	0.24	0.14	0.17	0.28	0.23	0.26	0.34	0.75	0	0	0	0	0	0	0.57
Min	0	0	0	0	0	0	19	70	180	333	284	384	349	232	210	123	22	0	0	0	0	0	0	0	349
Max	0	0	0	0	0	1	58	223	404	451	557	548	626	540	459	369	172	32	0	0	0	0	0	0	2848
n	0	0	0	0	0	4	326	321	103	40	44	34	48	45	84	207	370	141	0	0	0	0	0	0	1782

Daylight Data Recovery: 0.0% missing; 57.5% exceed the 15% QC threshold -- 4197 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.