

August 2001

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	12	101	278	477	634	497	605	431	699	467	493	290	263	83	10	0	0	0	0	5340
2	0	0	0	0	0	14	66	140	422	466	447	304	674	650	439	467	115	201	31	0	0	0	0	0	4435
3	0	0	0	0	0	11	87	217	449	563	490	555	540	710	382	371	315	136	27	5	0	0	0	0	4859
4	0	0	0	0	0	13	75	182	256	313	477	784	725	609	483	351	441	30	4	3	0	0	0	0	4744
5	0	0	0	0	0	10	95	281	341	526	710	889	949	899	797	654	402	266	73	10	0	0	0	0	6901
6	0	0	0	0	0	10	97	276	466	650	790	722	634	562	472	677	470	101	43	4	0	0	0	0	5975
7	0	0	0	0	0	12	95	261	494	658	827	735	925	757	818	647	455	296	130	27	0	0	0	0	7137
8	0	0	0	0	0	11	68	221	373	487	717	672	660	838	774	642	452	235	57	6	0	0	0	0	6214
9	0	0	0	0	0	7	81	236	457	637	573	655	676	769	709	635	419	223	122	11	0	0	0	0	6211
10	0	0	0	0	0	6	63	136	167	188	190	418	490	493	825	546	228	123	46	8	0	0	0	0	3926
11	0	0	0	0	0	7	39	114	326	539	667	738	778	394	422	166	311	164	39	3	0	0	0	0	4706
12	0	0	0	0	0	11	35	115	298	476	452	619	521	608	411	129	278	176	80	25	0	0	0	0	4234
13	0	0	0	0	0	3	23	90	239	518	514	571	628	600	769	440	437	199	75	10	0	0	0	0	5115
14	0	0	0	0	0	6	38	124	382	560	538	758	753	440	360	347	267	161	62	5	0	0	0	0	4799
15	0	0	0	0	0	9	73	227	450	628	786	855	444	614	750	341	242	148	63	3	0	0	0	0	5634
16	0	0	0	0	0	3	48	212	327	456	713	814	911	877	652	560	416	194	50	2	0	0	0	0	6233
17	0	0	0	0	0	0	7	43	167	247	280	840	872	700	729	547	323	138	41	5	0	0	0	0	4940
18	0	0	0	0	0	11	83	206	419	592	473	781	567	633	611	621	345	165	14	1	0	0	0	0	5520
19	0	0	0	0	0	2	40	199	500	644	757	615	842	747	738	602	294	67	8	12	0	0	0	0	6066
20	0	0	0	0	0	4	29	184	343	520	708	568	830	855	618	528	429	232	56	1	0	0	0	0	5906
21	0	0	0	0	0	5	77	201 ?	539 ?	550	552	616	470	774	779	475	510	219	46	0	0	0	0	0	5812
22	0	0	0	0	0	6	99	154	170	410	713	831	888	744	634	524	401	192	44	0	0	0	0	0	5810
23	0	0	0	0	0	7	67	179	431	389	307	352	413	479	578	566	332	160	24	0	0	0	0	0	4284
24	0	0	0	0	0	5	21	94	181	356	448	536	912	841	810	645	462	132	39	0	0	0	0	0	5482
25	0	0	0	0	0	3	60	233	439	635	770	716	882	782	844	379	446	169	28	0	0	0	0	0	6387
26	0	0	0	0	0	4	42	149	229	316	468	559	384	497	645	211	370	207	34	0	0	0	0	0	4115
27	0	0	0	0	0	4	51	204	331	567	458	504	421	412	167	287	218	97	25	0	0	0	0	0	3746
28	0	0	0	0	0	1	22	92	233	264	232	485	683	681	545	446	250	112	33	0	0	0	0	0	4081
29	0	0	0	0	0	2	49	184	358	472	656	585	794	723	660	592	347	132	16	0	0	0	0	0	5570
30	0	0	0	0	0	2	38	207	347	609	659	641	365	273	677	526	374	197	25	0	0	0	0	0	4940
31	0	0	0	0	0	4	75	85	171	385	247	220	478	267	278	172	75	55	25	0	0	0	0	0	2535
Avg	0	0	0	0	0	7	60	178	348	492	552	630	662	643	608	471	346	167	47	5	0	0	0	0	5215
S D	0	0	0	0	0	4	26	63	112	132	180	164	188	170	179	158	104	62	29	7	0	0	0	0	1013
S/A	0	0	0	0	0	0.59	0.44	0.35	0.32	0.27	0.33	0.26	0.28	0.26	0.29	0.34	0.3	0.37	0.63	1.41	0	0	0	0	0.19
Min	0	0	0	0	0	0	7	43	167	188	190	220	365	267	167	129	75	30	4	0	0	0	0	0	2535
Max	0	0	0	0	0	14	101	281	539	658	827	889	949	899	844	677	510	296	130	27	0	0	0	0	7137
n	0	0	0	0	0	116	371	366	363	371	372	372	372	372	372	372	372	372	362	74	0	0	0	0	4999

Daylight Data Recovery: 0.0% missing; 0.4% exceed the 15% QC threshold -- 5019 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.

August 2001

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	7	181	380	440	319	120	214	107	368	205	344	185	302	63	0	0	0	0	0	3234
2	0	0	0	0	0	1	1	1	206	47	55	10	279	354	181	241	16	84	0	0	0	0	0	0	1475
3	0	0	0	0	0	1	63	136	320	213	31	33	12	179	15	6	34	36	0	0	0	0	0	0	1080
4	0	0	0	0	0	3	34	83	70	35	78	412	320	246	224	130	266	0	0	0	0	0	0	0	1901
5	0	0	0	0	0	0	126	344	101	187	354	640	677	620	627	615	339	267	91	0	0	0	0	0	4987
6	0	0	0	0	0	10	224	457	574	670	683	433	364	268	209	597	426	78	55	0	0	0	0	0	5049
7	0	0	0	0	0	7	181	460	600	655	658	431	627	434	582	593	548	396	108	0	0	0	0	0	6278
8	0	0	0	0	0	1	31	172	210	185	395	325	324	476	520	540	496	285	59	0	0	0	0	0	4017
9	0	0	0	0	0	1	109	445 ?	558	588	331	338	322	452	452	602	404	141	62	0	0	0	0	0	4807
10	0	0	0	0	0	0	6	10	1	1	1	51	99	65	545	347	110	27	3	0	0	0	0	0	1267
11	0	0	0	0	0	0	1	2	129	296	422	384	416	85	98	1	93	91	0	0	0	0	0	0	2016
12	0	0	0	0	0	5	2	1	32	127	96	158	136	261	128	0	47	41	9	0	0	0	0	0	1043
13	0	0	0	0	0	0	0	1	69	329	323	272	193	217	500	318	563	224	26	0	0	0	0	0	3035
14	0	0	0	0	0	0	0	1	77	272	282	562	476	171	152	155	115	71	62	0	0	0	0	0	2396
15	0	0	0	0	0	4	87	389	576	652	707	562	109	303	540	127	97	87	63	0	0	0	0	0	4304
16	0	0	0	0	0	0	7	160	154	133	394	544	707	700	406	412	440	240	14	0	0	0	0	0	4311
17	0	0	0	0	0	0	0	0	3	17	29	561	545	396	527	392	263	58	10	0	0	0	0	0	2802
18	0	0	0	0	0	3	69	145	355	359	222	462	103	179	334	569	192	107	0	0	0	0	0	0	3099
19	0	0	0	0	0	0	30	282	668	691	553	368	528	555	663	542	222	38	0	0	0	0	0	0	5140
20	0	0	0	0	0	0	1	121	322	383	533	313	609	686	473	522	564	498	174	0	0	0	0	0	5200
21	0	0	0	0	0	1	139	497 ?	758 ?	473	384	406	205	618	802	463	786	486	170	0	0	0	0	0	6186
22	0	0	0	0	0	3	192	61	4	291	555	682	733	359	384	555	590	396	141	0	0	0	0	0	4945
23	0	0	0	0	0	1	24	93	234	22	3	3	5	74	227	494	223	84	0	0	0	0	0	0	1487
24	0	0	0	0	0	0	0	1	2	19	93	223	629	594	582	541	473	114	51	0	0	0	0	0	3322
25	0	0	0	0	0	0	132	407	622	749	724	488	630	457	682	355	536	242	38	0	0	0	0	0	6064
26	0	0	0	0	0	0	41	97	22	56	150	220	119	157	378	33	367	297	45	0	0	0	0	0	1983
27	0	0	0	0	0	0	56	233	212	384	127	102	122	106	7	74	21	0	0	0	0	0	0	0	1444
28	0	0	0	0	0	0	0	1	39	45	9	54	248	289	205	186	63	5	0	0	0	0	0	0	1143
29	0	0	0	0	0	0	13	181	243	242	395	377	569	516	499	652	386	147	0	0	0	0	0	0	4219
30	0	0	0	0	0	0	26	225	281	556	455	381	91	53	362	449	448	339	6	0	0	0	0	0	3670
31	0	0	0	0	0	0	86	2	1	92	16	2	65	3	3	0	0	0	0	0	0	0	0	0	270
Avg	0	0	0	0	0	2	60	174	254	293	296	323	335	330	371	350	300	167	40	0	0	0	0	0	3296
S D	0	0	0	0	0	3	68	170	235	235	235	199	234	201	217	221	213	148	51	0	0	0	0	0	1740
S/A	0	0	0	0	0	1.61	1.13	0.98	0.92	0.8	0.79	0.62	0.7	0.61	0.59	0.63	0.71	0.89	1.26	5.14	0	0	0	0	0.53
Min	0	0	0	0	0	0	0	0	1	1	1	2	5	3	3	0	0	0	0	0	0	0	0	0	270
Max	0	0	0	0	0	10	224	497	758	749	724	682	733	700	802	652	786	498	174	0	0	0	0	0	6278
n	0	0	0	0	0	116	370	362	363	371	372	372	372	372	372	372	372	372	365	74	0	0	0	0	4997

Daylight Data Recovery: 0.0% missing; 0.4% exceed the 15% QC threshold -- 5019 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.

August 2001

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	11	76	156	255	416	384	412	324	375	297	265	197	166	72	9	0	0	0	0	3415
2	0	0	0	0	0	12	58	123	311	415	382	270	415	341	290	302	96	166	27	0	0	0	0	0	3207
3	0	0	0	0	0	10	79	181	299	430	434	505	468	538	339	329	295	120	24	5	0	0	0	0	4056
4	0	0	0	0	0	11	69	153	205	264	400	425	435	384	298	255	301	27	3	2	0	0	0	0	3230
5	0	0	0	0	0	9	73	165	289	381	410	325	338	354	294	239	229	184	59	9	0	0	0	0	3357
6	0	0	0	0	0	10	67	129	173	196	247	342	295	320	304	277	246	75	35	4	320	0	0	0	2720
7	0	0	0	0	0	11	65	125	163	214	304	356	362	380	354	253	179	172	111	23	0	0	0	0	3073
8	0	0	0	0	0	10	63	186	286	371	409	394	366	426	373	288	208	151	47	6	0	0	0	0	3581
9	0	0	0	0	0	6	63	137 ?	177	243	305	364	382	374	358	236	212	181	112	10	0	0	0	0	3161
10	0	0	0	0	0	5	55	120	148	167	168	347	392	428	397	311	163	110	39	7	0	0	0	0	2857
11	0	0	0	0	0	6	35	101	237	350	324	390	399	308	316	146	264	124	34	3	0	0	0	0	3036
12	0	0	0	0	0	10	31	102	268	381	350	481	383	371	296	113	246	154	69	21	0	0	0	0	3276
13	0	0	0	0	0	3	20	79	192	291	254	335	445	408	375	228	153	115	67	8	0	0	0	0	2973
14	0	0	0	0	0	6	34	110	322	375	319	271	332	284	237	246	202	138	52	4	0	0	0	0	2931
15	0	0	0	0	0	8	58	129	172	199	233	383	336	354	335	248	191	122	53	2	0	0	0	0	2823
16	0	0	0	0	0	3	42	158	249	361	399	352	292	285	343	295	215	126	44	2	0	0	0	0	3166
17	0	0	0	0	0	0	6	38	146	225	246	364	395	343	318	292	199	115	36	4	0	0	0	0	2726
18	0	0	0	0	0	10	76	182	224	354	286	387	466	452	332	246	256	120	12	1	0	0	0	0	3404
19	0	0	0	0	0	2	32	103	173	185	331	299	381	278	220	256	192	49	7	11	0	0	0	0	2520
20	0	0	0	0	0	4	25	147	210	260	293	301	295	265	254	195	170	89	31	1	0	0	0	0	2540
21	0	0	0	0	0	4	47	87 ?	112 ?	223	255	263	276	255	169	183	145	90	22	0	0	0	0	0	2131
22	0	0	0	0	0	6	68	133	149	187	264	237	238	426	339	168	120	88	25	0	0	0	0	0	2447
23	0	0	0	0	0	9 ?	61	148	299	346	271	311	361	390	409	265	237	136	21	0	0	0	0	0	3263
24	0	0	0	0	0	5	18	82	158	314	357	340	363	348	373	314	247	95	32	0	0	0	0	0	3047
25	0	0	0	0	0	3	46	115	143	158	219	313	352	398	347	172	218	106	23	0	0	0	0	0	2614
26	0	0	0	0	0	3	36	122	200	272	355	385	272	363	376	178	221	135	28	0	0	0	0	0	2947
27	0	0	0	0	0	3	47	134	236	330	367	401	312	312	148	238	189	87	22	0	0	0	0	0	2826
28	0	0	0	0	0	1	19	82	203	229	215	439	481	444	399	338	213	99	29	0	0	0	0	0	3190
29	0	0	0	0	0	2	44	141	257	313	347	264	318	301	297	200	181	95	14	0	0	0	0	0	2774
30	0	0	0	0	0	2	35	149	209	265	316	322	272	227	411	251	184	113	23	0	0	0	0	0	2778
31	0	0	0	0	0	4	63	74	151	305	221	194	390	242	247	153	66	48	22	0	0	0	0	0	2181
Avg	0	0	0	0	0	6	49	126	213	291	312	347	359	354	318	241	201	116	39	4	0	0	0	0	2976
S D	0	0	0	0	0	3	20	35	58	80	69	69	63	70	65	57	52	38	26	6	0	0	0	0	404
S/A	0	0	0	0	0	0.58	0.41	0.28	0.27	0.28	0.22	0.2	0.17	0.2	0.21	0.24	0.26	0.33	0.68	1.4	0	0	0	0	0.14
Min	0	0	0	0	0	0	6	38	112	158	168	194	238	227	148	113	66	27	3	0	0	0	0	0	2131
Max	0	0	0	0	0	12	79	186	322	430	434	505	481	538	411	338	301	184	112	23	0	0	0	0	4056
n	0	0	0	0	0	115	370	362	364	371	372	372	372	372	372	372	372	372	362	74	0	0	0	0	4994

Daylight Data Recovery: 0.0% missing; 0.5% exceed the 15% QC threshold -- 5019 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17860F3 Calibration Factor: 7.010 $\mu\text{V}/\text{W}/\text{m}^2$ 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.