

August 2010

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	6	25	89	194	279	366	698	949	918	756	674	411	257	114	11	0	0	0	0	5748
2	0	0	0	0	0	10	73	164	209	308	492	654	763	718	695	495	469	250	44	10	0	0	0	0	5354
3	0	0	0	0	0	12	95	228	416	442	472	673	667	675	651	631	441	273	83	6	0	0	0	0	5764
4	0	0	0	0	0	20	77	171	260	182	556	627	685	702	668	396	239	192	35	0	0	0	0	0	4810
5	0	0	0	0	0	10	78	215	469	643	746	673	669	426	443 ?	95 ?	253	72 ?	50	23	0	0	0	0	4865 ?
6	0	0	0	0	0	4	43	163	252	515	675	754	729	583	564	604	455	247	56	5	0	0	0	0	5649
7	0	0	0	0	0	9	66	253	436	556	507	612	597	457	639	470	308	253	75	6	0	0	0	0	5242
8	0	0	0	0	0	9	73	220	430	635	350	674	756	757	660	477	465	251	73	5	0	0	0	0	5835
9	0	0	0	0	0	12	75 ?	270	433	585	676	833	897	863	738	644	462	269	89	7	0	0	0	0	6854
10	0	0	0	0	0	8	83	76	228	130 ?	216	780	864	783	696	567	425	239	71	5	0	0	0	0	5170
11	0	0	0	0	0	8	63	164	299	495	602	700	837	600	708	229	94	48	11 ?	2	0	0	0	0	4860
12	0	0	0	0	0	17	73	190	314	457	674	477	730	751	608	312	297	138	66	6	0	0	0	0	5110
13	0	0	0	0	0	8	62	211	478	687	782	863	900	846	794	562	436	240	60	2	0	0	0	0	6930
14	0	0	0	0	0	4	57	184	357	491	640	735	746	751	520	601	407	222	62	2	0	0	0	0	5778
15	0	0	0	0	0	9	70	151	337	371	299	594	633	795	363	533	446	167	46	3	0	0	0	0	4815
16	0	0	0	0	0	9	82	197	396	546	711	608	602	465	359	254	104	47 ?	4 ?	0	0	0	0	0	4384
17	0	0	0	0	0	5	35	195	443	471	636	303	267	206	517	168	243	150	25	0	0	0	0	0	3664
18	0	0	0	0	0	6	26	135	263	263	182	129	175	126	157	148	137	87	28	1	0	0	0	0	1865
19	0	0	0	0	0	4	36	55	72	75	191	311	208	172	297	499	383	253	60	5	0	0	0	0	2620
20	0	0	0	0	0	6	45	149	265	542	766	833	886	861	743	622	368	217	49	1	0	0	0	0	6354
21	0	0	0	0	0	7	83	258	175	214	275	364	314	133	234	381	245	83	48	2	0	0	0	0	2816
22	0	0	0	0	0	3	26	79	134	208	313	741	818	639	532	389	279	216	40	2	0	0	0	0	4420
23	0	0	0	0	0	3	24	128	377	490	510	768	797	558	597	555	370	214	50	0	0	0	0	0	5440
24	0	0	0	0	0	3	25	71	111	182	301	339	367	386	96	84	78	81	22	0	0	0	0	0	2145
25	0	0	0	0	0	2	15	94	205	255	611	455	698	336	513	608	342	84	29	0	0	0	0	0	4247
26	0	0	0	0	0	5	57	187	386	597	647	622	654	626	751	533	357	165	37	0	0	0	0	0	5623
27	0	0	0	0	0	4	69	215	421	603	740	843	645	294	595	537	364	242	42	0	0	0	0	0	5614
28	0	0	0	0	0	4	60	224	417	599	626	471	668	869	785	625	344	150	31	0	0	0	0	0	5873
29	0	0	0	0	0	3	61	224	412	585	275	748	783	671	680	545	367	176	29	0	0	0	0	0	5558
30	0	0	0	0	0	4	70	240	428	604	725	826	854	816	719	573	384	188	19	0	0	0	0	0	6452
31	0	0	0	0	0	3	61	266 ?	429	607	744	834	857	815	710	563	382	181	19	0	0	0	0	0	6471
Avg	0	0	0	0	0	7	58	176	324	439	526	630	678	600	574	464	334	182	47	3	0	0	0	0	5043
S D	0	0	0	0	0	4	22	61	116	177	194	189	208	238	187	173	113	71	25	5	0	0	0	0	1290
S/A	0	0	0	0	0	0.6	0.37	0.35	0.36	0.4	0.37	0.3	0.31	0.4	0.33	0.37	0.34	0.39	0.52	1.43	0	0	0	0	0.26
Min	0	0	0	0	0	2	15	55	72	75	182	129	175	126	96	84	78	47	4	0	0	0	0	0	1865
Max	0	0	0	0	0	20	95	270	478	687	782	863	949	918	794	674	469	273	114	23	0	0	0	0	6930
n	0	0	0	0	0	116	369	367	372	367	372	370	372	372	366	365	368	361	357	76	0	0	0	0	4970

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.0% exceed the 15% QC threshold -- 5022 total daylight measurements.

Instrument: Eppley PSP Serial Number: 25821F3 Calibration Factor: 9.020 $\mu\text{V}/\text{W}/\text{m}^2$ 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 2010

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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
13	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
14	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
15	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
16	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
17	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	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	*	
31	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
Avg	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	N/A	N/A	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	N/A	N/A	N/A	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	N/A
Max	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	N/A	N/A	N/A	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: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 5022 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.

August 2010

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	6	26	93	205	294	387	575 ?	490	306	277	183	236	202	84	11	0	0	0	0	3373
2	0	0	0	0	0	10	75	171	222	328	517	571 ?	607 ?	505	347	279	194	173	46	10	0	0	0	0	4056
3	0	0	0	0	0	13	98	186 ?	371 ?	387 ?	494	549 ?	484 ?	326	316	175	144	153	58	6	0	0	0	0	3760 ?
4	0	0	0	0	0	25	80	190	283	198	436 ?	580 ?	665 ?	436	320	221	177	144	34	0	0	0	0	0	3787
5	0	0	0	0	0	12	77	94 ?	?	?	?	591 ?	501 ?	311	247 ?	85 ?	212	70 ?	49	26	0	0	0	0	2273 ?
6	0	0	0	0	0	4	45	158	232	353 ?	607 ?	703 ?	521 ?	456	241	164	134	107	55	5	0	0	0	0	3787 ?
7	0	0	0	0	0	10	68	207 ?	?	356 ?	353 ?	310 ?	368 ?	364	246	216	164	101	49	6	0	0	0	0	2818 ?
8	0	0	0	0	0	9	77	244	364 ?	?	348	528 ?	547 ?	644 ?	319	208	155	95	45	6	0	0	0	0	3589 ?
9	0	0	0	0	0	12	68 ?	250 ?	343 ?	588 ?	?	?	?	?	375	153	127	103	59	7	0	0	0	0	2086 ?
10	0	0	0	0	0	10	77	77	220	114	231	466 ?	?	563 ?	427	189	130	95	44	5	0	0	0	0	2648 ?
11	0	0	0	0	0	10	67	174	290	353 ?	570 ?	682 ?	?	445 ?	470 ?	200	91	52	11	1	0	0	0	0	3415 ?
12	0	0	0	0	0	20 ?	76	202	341	443 ?	517 ?	459	711 ?	515 ?	406 ?	227	202	81	53	5	0	0	0	0	4260 ?
13	0	0	0	0	0	8	63	218	404 ?	?	?	?	?	?	?	243	89	69	35	1	0	0	0	0	1130 ?
14	0	0	0	0	0	4	60	161	240 ?	410 ?	551 ?	586 ?	645 ?	236 ?	372 ?	371	181	118	48	2	0	0	0	0	3986 ?
15	0	0	0	0	0	11 ?	76	161	340 ?	341	288	550 ?	453 ?	457 ?	368	354 ?	163	108	34	2	0	0	0	0	3707 ?
16	0	0	0	0	0	10 ?	78	200 ?	301 ?	510 ?	554 ?	481 ?	489 ?	302 ?	213 ?	229	110	38	6	0	0	0	0	0	3522 ?
17	0	0	0	0	0	5 ?	37	208	?	450 ?	491 ?	318	282	219	521	177	179	149	28	1	0	0	0	0	3065 ?
18	0	0	0	0	0	6	28	143	279	283	194	122	187	135	167	157	146	92	29	1	0	0	0	0	1970
19	0	0	0	0	0	4 ?	39	59	77	74	204	328	222	182	310	400 ?	301	144	50	4	0	0	0	0	2395
20	0	0	0	0	0	8 ?	47	151	259	447 ?	?	?	?	?	?	?	337 ?	120	30	1	0	0	0	0	1399 ?
21	0	0	0	0	0	9 ?	76	221 ?	188	230	295	388	335	142	247	406	259	89	47	2	0	0	0	0	2934
22	0	0	0	0	0	3 ?	28	85	142	225	339	462 ?	701 ?	447 ?	434 ?	387	261 ?	191	39	2	0	0	0	0	3746 ?
23	0	0	0	0	0	3 ?	25	135	348 ?	465 ?	455 ?	525 ?	?	279 ?	464 ?	273 ?	136	88	39	0	0	0	0	0	3237 ?
24	0	0	0	0	0	3	26	76	119	190	316	345	342	317	102	90	83	86	23	0	0	0	0	0	2116
25	0	0	0	0	0	2	16	99	198	235	242 ?	366	344	289	309	227	185	85	27	0	0	0	0	0	2624
26	0	0	0	0	0	6 ?	55	196	320 ?	?	429 ?	421 ?	321	301	216	245	180	100	30	0	0	0	0	0	2820 ?
27	0	0	0	0	0	6 ?	63	176 ?	?	?	?	650 ?	334	250	263	250	180	152	38	0	0	0	0	0	2362 ?
28	0	0	0	0	0	6 ?	67	210 ?	?	?	441 ?	351 ?	260	265	257	238	145	78	24	0	0	0	0	0	2342 ?
29	0	0	0	0	0	4 ?	63	199 ?	?	?	253	285 ?	386 ?	215	189	140	127	82	24	0	0	0	0	0	1967 ?
30	0	0	0	0	0	4	64	180 ?	?	?	?	?	368 ?	92	79	66	55	43	9	0	0	0	0	0	961 ?
31	0	0	0	0	0	3	60	243 ?	?	?	?	?	508 ?	113	77	66	53	40	10	0	0	0	0	0	1172 ?
Avg	0	0	0	0	0	8	58	167	265	331	396	469	443	325	296	221	166	105	37	3	0	0	0	0	2816 ?
S D	0	0	0	0	0	5	21	54	86	130	126	139	149	141	114	93	66	42	17	5	0	0	0	0	929
S/A	0	0	0	0	0	0.63	0.36	0.32	0.32	0.39	0.32	0.3	0.34	0.43	0.39	0.42	0.4	0.4	0.45	1.53	0	0	0	0	0.33
Min	0	0	0	0	0	2	16	59	77	74	194	122	187	92	77	66	53	38	6	0	0	0	0	0	961
Max	0	0	0	0	0	25	98	250	404	588	607	703	711	644	521	406	337	202	84	26	0	0	0	0	4260
n	0	0	0	0	0	96	366	292	199	190	204	184	206	268	308	336	361	366	365	75	0	0	0	0	3821

Daylight Data Recovery: 0.0% missing; 0.0% untested; 23.9% exceed the 15% QC threshold -- 5022 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.