

April 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	0	38	174	377	564	725	811	847	818	719	560	376	181	23	0	0	0	0	0	6214
2	0	0	0	0	0	0	43	196	392	580	727	824	855	826	719 ?	555	347	146	26	0	0	0	0	0	6236
3	0	0	0	0	0	0	32	121	186	241	505	733	302	412	516	271	204	156	35	0	0	0	0	0	3717
4	0	0	0	0	0	0	46	190	405	554	734	827	801	784	701	485	341	162	20	0	0	0	0	0	6051
5	0	0	0	0	0	0	26	198	378	426	700	706	798	707	608	103 ?	103	35	26	0	0	0	0	0	4814
6	0	0	0	0	0	0	42	208	410	598	743	834	875	848 ?	750	599	409	215	22	0	0	0	0	0	6554
7	0	0	0	0	0	0	50	165	370	578	744	812	785	740	618	542 ?	319	112 ?	35	0	0	0	0	0	5869
8	0	0	0	0	0	0	74	220	364	325	338	170	142	173	131	70	?	21 ?	7	0	0	0	0	0	2035 ?
9	0	0	0	0	0	0	21	127	212	487	681	891	864	840	704	589	401	210	34	0	0	0	0	0	6061
10	0	0	0	0	0	3	58	243	450	643	794	887	915	874	768	611	420	209	30	0	0	0	0	0	6904
11	0	0	0	0	0	3	62	244	452	640	785	877	903	865	759	612	407	202	29	0	0	0	0	0	6841
12	0	0	0	0	0	3	54	223	412	601	744	834	794	561	687	399	238	183	29	0	0	0	0	0	5763
13	0	0	0	0	0	2	57	221	403	600	678	826	635	686	731	518	391	178	28	0	0	0	0	0	5953
14	0	0	0	0	0	4	67	222	382	551	748	837	882	518	487	370	268	132	36	0	0	0	0	0	5503
15	0	0	0	0	0	5	83	232	450	625	773	865	888	852	769	597 ?	410	198	14	0	0	0	0	0	6761
16	0	0	0	0	0	6	66	226	363	458	712	802	925	856	724	608	350	201	40	0	0	0	0	0	6337
17	0	0	0	0	0	1	5	81	163	430	745	880	906	891	787	627	431	221	40	0	0	0	0	0	6210
18	0	0	0	0	0	6	83	277	482	672	817	907	931	883	780	632	440	233	40	0	0	0	0	0	7182
19	0	0	0	0	0	8	99	280	478	672	820	909	936	897	758	554	386	182	39	0	0	0	0	0	7018
20	0	0	0	0	0	4	59	216	412	605	811	926	924	171	155	188	104	55	7	0	0	0	0	0	4637
21	0	0	0	0	0	5	56	194	393	532	530	483	281	347	433	157	152	67	32	0	0	0	0	0	3661
22	0	0	0	0	0	9	89	267	465	652	828	823	628	490	476	390	425	114	32	0	0	0	0	0	5689
23	0	0	0	0	0	8	45	107	128	112	132	136	108	130	92 ?	?	88 ?	132	37	1	0	0	0	0	1256 ?
24	0	0	0	0	0	2	29	92	138	360	472	818	763	417	340	228	71	44 ?	1 ?	0	0	0	0	0	3776
25	0	0	0	0	0	3	63	86	160	642	800	633	797	811	783	658	461	230	39	2	0	0	0	0	6168
26	0	0	0	0	0	0	5 ?	67	231	309	428	319	334	333	183	122	66	39 ?	10	1	0	0	0	0	2447
27	0	0	0	0	0	6	32	92	80	126	163	262 ?	750	334	315	241	85	100	23	7	0	0	0	0	2615
28	0	0	0	0	0	18	132	322	527	720	833	948	980	919	804	665	463	255	59	2	0	0	0	0	7648
29	0	0	0	0	0	17	116	307	518	696	816	870	945	893	782	624	380	234	53	2	0	0	0	0	7254
30	0	0	0	0	0	16	121	315	517	691	842	923	944	907	801	649	455	255	55	2	0	0	0	0	7491
Avg	0	0	0	0	0	4	58	197	357	523	672	746	748	659	596	456	310	157	30	1	0	0	0	0	5489
S D	0	0	0	0	0	5	31	73	130	165	192	230	251	257	227	196	138	71	14	1	0	0	0	0	1716
S/A	0	0	0	0	0	1.18	0.54	0.37	0.36	0.31	0.28	0.31	0.34	0.39	0.38	0.43	0.44	0.45	0.46	2.57	0	0	0	0	0.31
Min	0	0	0	0	0	0	5	67	80	112	132	136	108	130	92	70	66	21	1	0	0	0	0	0	1256
Max	0	0	0	0	0	18	132	322	527	720	842	948	980	919	804	665	463	255	59	7	0	0	0	0	7648
n	0	0	0	0	0	71	344	359	360	358	359	356	359	354	349	328	340	336	326	11	0	0	0	0	4610

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.4% exceed the 15% QC threshold -- 4724 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.

April 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	*	*	*	?	?	?	*	?	?	*	325 ?	?	?	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	*	*	*	*	*	?	?	?	?	?	378	390	189 ?	0	0	0	0	0	2395 *?
7	0	0	0	0	0	0	*	*	*	?	?	?	?	?	99 ?	347 ?	211 ?	421 ?	?	0	0	0	0	0	1077 *?
8	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
9	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
10	0	0	0	0	0	*	*	*	*	*	*	*	*	*	?	?	*	?	*	0	0	0	0	0	*
11	0	0	0	0	0	*	*	*	*	*	?	*	*	*	*	?	?	?	*	0	0	0	0	0	*
12	0	0	0	0	0	*	*	*	*	*	*	?	?	?	?	?	*	*	*	0	0	0	0	0	*
13	0	0	0	0	0	*	*	*	*	*	*	*	*	*	?	*	*	*	*	0	0	0	0	0	*
14	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
15	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	615 *?	*	*	*	0	0	0	0	0	*
16	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
17	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
18	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
19	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
20	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
21	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
22	0	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	*	*	*	*	799 ?	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*
Avg	0	0	0	0	0	0	N/A	N/A	N/A	799	N/A	N/A	N/A	511	513	481	305	405	189	0	0	0	0	0	N/A *?
S D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	586	189	86	22	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0	0	0	0	0	0	0	1.14	0.39	0.28	0.05	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	N/A	N/A	N/A	799	N/A	N/A	N/A	511	99	347	211	390	189	0	0	0	0	0	N/A
Max	0	0	0	0	0	0	N/A	N/A	N/A	799	N/A	N/A	N/A	511	927	615	378	421	189	0	0	0	0	0	N/A
n	0	0	0	0	0	0	0	0	0	2	0	0	0	2	14	8	24	12	3	0	0	0	0	0	0

Daylight Data Recovery: 83.1% missing; 0.0% untested; 15.5% exceed the 15% QC threshold -- 4724 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.

April 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	0	34	79	100	108	99	117	105	100	109	353 ?	?	131 ?	25	0	0	0	0	0	1361 ?
2	0	0	0	0	0	0	22	49	66	80	86	87	92	92	163 ?	481 ?	293 ?	163	28	0	0	0	0	0	1701 ?
3	0	0	0	0	0	0	32	126	200	262	346	289	320	410	434	289	221	172	37	0	0	0	0	0	3139
4	0	0	0	0	0	0	34	50	90	134	109	136	282	231	474 ?	478 ?	293 ?	135 ?	21	0	0	0	0	0	2467 ?
5	0	0	0	0	0	0	25	96	175	260	220	346	204	336	493 ?	90	114	33	27	0	0	0	0	0	2421
6	0	0	0	0	0	0	27	63	84	98	110	117	113	213 ?	?	?	?	?	25	0	0	0	0	0	850 ?
7	0	0	0	0	0	0	43	135	208	212	196	181	268	535 ?	?	413 ?	266 ?	107 ?	38	0	0	0	0	0	2603 ?
8	0	0	0	0	0	0	60 ?	132	202	306	349	180	151	185	141	75	25 ?	19	7	0	0	0	0	0	1830
9	0	0	0	0	0	0	23	132	225	255	235	183	370	255 ?	154	95	77	55	21	0	0	0	0	0	2079
10	0	0	0	0	0	?	27	60	80	93	96	100	99	96	88	79	69	51	17	0	0	0	0	0	954
11	0	0	0	0	0	?	27	52	70	80	85	90	91	89	82	79	72	56	18	0	0	0	0	0	891
12	0	0	0	0	0	3	32	80	116	139	164	179	255	283	274	224	160	113	25	0	0	0	0	0	2048
13	0	0	0	0	0	3 ?	33	83	134	173	311	293	309	352	218	221	164	92	21	0	0	0	0	0	2408
14	0	0	0	0	0	5 ?	55	142	198	203	161	149	192	299	259	197	128	80	29	0	0	0	0	0	2094
15	0	0	0	0	0	6 ?	32	62	77	100	114	118	126	128	112	110 ?	95	69	15	0	0	0	0	0	1164
16	0	0	0	0	0	6	40	109	209	210	234	234	225	214	361	?	310 ?	155 ?	43	0	0	0	0	0	2351 ?
17	0	0	0	0	0	0	5	86	172	279	246	174	156	160	450 ?	?	?	163 ?	43	0	0	0	0	0	1935 ?
18	0	0	0	0	0	5	39	73	96	105	110	106	106	223	558 ?	?	?	?	45	0	0	0	0	0	1467 ?
19	0	0	0	0	0	6	36	60	80	90	91	109	122	365	?	?	321 ?	151 ?	41	0	0	0	0	0	1470 ?
20	0	0	0	0	0	4	56	118	227	179	134	201	303	176	167	208	114	59	7	0	0	0	0	0	1952
21	0	0	0	0	0	6 ?	53	149	219	248	340	376	301	367	426	170	163	72	34	0	0	0	0	0	2922
22	0	0	0	0	0	10 ?	52	96	129	151	208	292	466	499	444 ?	267 ?	321 ?	123	35	0	0	0	0	0	3092 ?
23	0	0	0	0	0	11 ?	48	114	139	121	143	148	118	140	79	39 ?	72	142	38	0	0	0	0	0	1352
24	0	0	0	0	0	2	31	97	149	359	364	430	696 ?	438	365	246	73	40 ?	3	0	0	0	0	0	3292
25	0	0	0	0	0	3	45	95	162	224	191	397	454 ?	?	?	?	?	141 ?	32	2	0	0	0	0	1745 ?
26	0	0	0	0	0	0	7	67	229	317	411	291	336	319	184	131	71	32	11	0	0	0	0	0	2407
27	0	0	0	0	0	6	34	98	86	136	175	256	729 ?	332	298	238	92	105	23	6	0	0	0	0	2615
28	0	0	0	0	0	14	54	61	75	99	134	150	130	112	109	249	415 ?	193 ?	24 ?	2	0	0	0	0	1820 ?
29	0	0	0	0	0	16	49	69	86	118	169	200	139	127	141	377	302 ?	193 ?	50	2	0	0	0	0	2038 ?
30	0	0	0	0	0	15	42	61	73	83	96	103	107	110	141	442 ?	?	?	54	2	0	0	0	0	1329 ?
Avg	0	0	0	0	0	4	37	90	138	174	191	201	245	248	259	231	176	105	28	0	0	0	0	0	1993 ?
S D	0	0	0	0	0	5	14	30	58	82	96	98	167	129	152	135	111	52	13	1	0	0	0	0	670
S/A	0	0	0	0	0	1.14	0.37	0.33	0.42	0.47	0.5	0.49	0.68	0.52	0.59	0.58	0.63	0.5	0.47	2.74	0	0	0	0	0.34
Min	0	0	0	0	0	0	5	49	66	80	85	87	91	89	79	39	25	19	3	0	0	0	0	0	850
Max	0	0	0	0	0	16	60	149	229	359	411	430	729	535	558	481	415	193	54	6	0	0	0	0	3292
n	0	0	0	0	0	61	342	360	360	358	359	356	336	328	274	236	217	258	321	11	0	0	0	0	4180

Daylight Data Recovery: 0.0% missing; 0.0% untested; 11.5% exceed the 15% QC threshold -- 4724 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.