

**February 2012**

**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	0	5	45	60 ?	78	141	162	59 ?	91	42	22	5	0	0	0	0	0	0	709
2	0	0	0	0	0	0	0	6	36	128	232	322	535	552	481	356	173	38	0	0	0	0	0	0	2860
3	0	0	0	0	0	0	0	17	195	364	463	571	620	577	495	342	131	40	0	0	0	0	0	0	3816
4	0	0	0	0	0	0	0	7	30	79	89	65	61	50 ?	53	63	23	5	0	0	0	0	0	0	526
5	0	0	0	0	0	0	0	2	14 ?	26 ?	89 ?	59	111	93	60	34 ?	18 ?	7	0	0	0	0	0	0	512 ?
6	0	0	0	0	0	0	0	6	114	345	398	437	419	201	222	114	40 ?	4	0	0	0	0	0	0	2300
7	0	0	0	0	0	0	0	29	218	427 ?	479	578	615	593	504	365	193	42	0	0	0	0	0	0	4044
8	0	0	0	0	0	0	0	2	17 ?	39 ?	45 ?	74	79 ?	88	45	?	?	3	0	0	0	0	0	0	393 ?
9	0	0	0	0	0	0	0	4	28	74	152	180	207	252	306	299	191	20	0	0	0	0	0	0	1714
10	0	0	0	0	0	0	0	22	107	121	155	139	176	212	181	135	84	31	0	0	0	0	0	0	1363
11	0	0	0	0	0	0	0	4	26	76	104	233	163	186	224	142	93	25	0	0	0	0	0	0	1276
12	0	0	0	0	0	0	0	12	60	175	435	631	667	642	550	408	226	56	0	0	0	0	0	0	3861
13	0	0	0	0	0	0	0	48	260	409	499	557	569	616	312	221	114	46	0	0	0	0	0	0	3651
14	0	0	0	0	0	0	0	15	81	140	255	116	174	144	76	48	27	7	0	0	0	0	0	0	1084
15	0	0	0	0	0	0	0	17	94	357	503	601	641	614	518	391	189	23	0	0	0	0	0	0	3949
16	0	0	0	0	0	0	0	2	101	55	91	80	76	111	106	214	105	18	0	0	0	0	0	0	960
17	0	0	0	0	0	0	0	9	33	145	330	557	629	637	549	407	232	56	0	0	0	0	0	0	3582
18	0	0	0	0	0	0	0	35	127	259	495	561	630	525	316	179	100	27	0	0	0	0	0	0	3253
19	0	0	0	0	0	0	0	10	55	50	65	83 ?	?	?	?	?	?	2	1	0	0	0	0	0	267 ?
20	0	0	0	0	0	0	0	2	?	?	52 ?	62	108	382	587	432	247	68	1	0	0	0	0	0	1941 ?
21	0	0	0	0	0	0	0	13	75	306	406	646	732	685	575	415	245	66	4	0	0	0	0	0	4169
22	0	0	0	0	0	0	0	42	213	399	414	224	211	79	243	94	44	13	0	0	0	0	0	0	1975
23	0	0	0	0	0	0	0	27	215	337	537	537	672	680	549	384	250	73	4	0	0	0	0	0	4264
24	0	0	0	0	0	0	0	36	209	350	438	487	142 ?	76 ?	98	138	118	39	3	0	0	0	0	0	2135
25	0	0	0	0	0	0	0	14	56	130	235	258	295	260	480	183	199	75	10	0	0	0	0	0	2192
26	0	0	0	0	0	0	0	99	?	535	585	687	722	691	609	461	282	86	0	0	0	0	0	0	4759 ?
27	0	0	0	0	0	0	0	24	69	283	289	448	622	666	576	424	258	86	3	0	0	0	0	0	3747
28	0	0	0	0	0	0	2	91	256	359	468	639	717	683	597	450	270	83	3	0	0	0	0	0	4618
29	0	0	0	0	0	0	0	23	66	157	184	275	237	434	187	109	31 ?	0 ?	0	0	0	0	0	0	1703

Avg	0	0	0	0	0	0	0	22	104	221	295	353	393	385	343	254	145	36	1	0	0	0	0	0	2470
S D	0	0	0	0	0	0	0	24	79	147	178	225	251	248	206	149	90	28	2	0	0	0	0	0	1440
S/A	0	0	0	0	0	0	5.39	1.12	0.76	0.67	0.6	0.64	0.64	0.64	0.6	0.59	0.62	0.79	2.17	0	0	0	0	0	0.58
Min	0	0	0	0	0	0	0	2	14	26	45	59	61	50	45	34	18	0	0	0	0	0	0	0	267
Max	0	0	0	0	0	0	2	99	260	535	585	687	732	691	609	461	282	86	10	0	0	0	0	0	4759
n	0	0	0	0	0	0	2	274	309	312	331	339	324	320	334	317	306	319	23	0	0	0	0	0	3513

Daylight Data Recovery: 0.0% missing; 0.0% untested; 6.5% exceed the 15% QC threshold -- 3757 total daylight measurements.

Instrument: Eppley PSP    Serial Number: 25821F3    Calibration Factor: 9.020 μV/W/m<sup>2</sup>    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.

**February 2012**

**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	0	*
2	0	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	0	*
4	0	0	0	0	0	0	0	?	?	?	*	?	*	*	*	*	*	*	0	0	0	0	0	0	*
5	0	0	0	0	0	0	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	*	*	524 *?	155 ?	745 ?	?	?	*	*	?	?	0	0	0	0	0	0	1424 *?
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	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	*
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	*
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	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	*
29	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*

Avg	0	0	0	0	0	0	0	N/A	N/A	524	155	745	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	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	0	0	N/A	N/A	524	155	745	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	0	N/A	N/A	524	155	745	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	0	0	0	4	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 92.9% missing; 0.0% untested; 6.7% exceed the 15% QC threshold -- 3757 total daylight measurements.

Instrument: Eppley NIP Serial Number: 17664E6 Calibration Factor: 8.480 μV/W/m<sup>2</sup> 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.

**February 2012**

**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	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
2	0	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	0	?	
4	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
5	0	0	0	0	0	0	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	0	?	?	?	?	?	?	?	287	?	?	?	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	?	
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	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	?	
29	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	?	
Avg	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	287	N/A	N/A	N/A	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	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	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	287	N/A	N/A	N/A	0	0	0	0	0	0	N/A	0
Max	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	287	N/A	N/A	N/A	0	0	0	0	0	0	N/A	0
n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 0.0% missing; 0.0% untested; 99.8% exceed the 15% QC threshold -- 3757 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.