

February 2011

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	11	63	149	186	388	539	428	193	192	64	8	0	0	0	0	0	0	2221
2	0	0	0	0	0	0	0	17	65	303	461	553	555	322	380	237	118	25	0	0	0	0	0	0	3035
3	0	0	0	0	0	0	0	8	42	130	239	390	418	403	389	184	96	20	0	0	0	0	0	0	2319
4	0	0	0	0	0	0	0	7	44	95	197	258	278	197	88	74	30	8	0	0	0	0	0	0	1277
5	0	0	0	0	0	0	0	7	131	224	371	414	356	128	461	310	125	22	0	0	0	0	0	0	2548
6	0	0	0	0	0	0	0	8	34	89	203	449	555	439	497	355	188	31	0	0	0	0	0	0	2850
7	0	0	0	0	0	0	0	16	142	250	257	261	248	158	111	108	68	45	0	0	0	0	0	0	1665
8	0	0	0	0	0	0	0	14	86	265	255	331	347	300	274	251	187	75	0	0	0	0	0	0	2385
9	0	0	0	0	0	0	0	13	65	214	203	356	528	418	305	100	43	14	0	0	0	0	0	0	2259
10	0	0	0	0	0	0	0	9	60	142	221	261	283	573	541	398	220	52	0	0	0	0	0	0	2759
11	0	0	0	0	0	0	0	25 ?	?	518 ?	638	616	653	625	534	394	216	50	0	0	0	0	0	0	4268 ?
12	0	0	0	0	0	0	0	10	61	141	125	183	476	581	530	394	218	51	0	0	0	0	0	0	2770
13	0	0	0	0	0	0	0	29	172	354	503	567	639	612	511	383	199	54	0	0	0	0	0	0	4023
14	0	0	0	0	0	0	0	26	175	359	503	604	646	624	539	403	203	35	0	0	0	0	0	0	4117
15	0	0	0	0	0	0	0	28	113	346	408	442	414	411	474	306	218	52	0	0	0	0	0	0	3211
16	0	0	0	0	0	0	0	22	164	360	505	455	536	626	524	385	217	53	0	0	0	0	0	0	3849
17	0	0	0	0	0	0	0	46	113	342	488	595	635	606	530	390	222	57	0	0	0	0	0	0	4024
18	0	0	0	0	0	0	0	12	48	55	122	391	166	212	166	200	219	39	0	0	0	0	0	0	1629
19	0	0	0	0	0	0	0	42	202	387	538	638	678	650	560	417	243	66	2	0	0	0	0	0	4423
20	0	0	0	0	0	0	0	18	97	249	208	104	187	175	136	63 ?	76 ?	41	2	0	0	0	0	0	1358
21	0	0	0	0	0	0	0	15	43	66	174	344	385	333	293	145	132	31	3	0	0	0	0	0	1964
22	0	0	0	0	0	0	0	24	49	68	117	158	130	65	65	63	73	22	1	0	0	0	0	0	835
23	0	0	0	0	0	0	0	16	79	193	483	691	687	643	459	346	217	70	1	0	0	0	0	0	3886
24	0	0	0	0	0	0	0	3	31 ?	38	42 ?	52	56 ?	71	71	44	26 ?	13	2	0	0	0	0	0	449 ?
25	0	0	0	0	0	0	0	11	168	225	381	227	200	226	98	58	37	11	2	0	0	0	0	0	1644
26	0	0	0	0	0	0	0	26	129	371	551	668	699	677	591	440	235	67	9	0	0	0	0	0	4465
27	0	0	0	0	0	0	0	40	83	140	442	612	379	361	84	134	60 ?	17	2	0	0	0	0	0	2354
28	0	0	0	0	0	0	1	25	115	103	100 ?	155 ?	65 ?	74 ?	57 ?	?	?	32 ?	15	0	0	0	0	0	741 ?

Avg	0	0	0	0	0	0	0	19	95	220	319	399	419	391	338	251	146	38	1	0	0	0	0	0	2619
S D	0	0	0	0	0	0	0	11	50	125	169	184	200	205	193	138	77	20	3	0	0	0	0	0	1185
S/A	0	0	0	0	0	0	5.29	0.59	0.53	0.57	0.53	0.46	0.48	0.53	0.57	0.55	0.53	0.53	2.25	0	0	0	0	0	0.45
Min	0	0	0	0	0	0	0	3	31	38	42	52	56	65	57	44	26	8	0	0	0	0	0	0	449
Max	0	0	0	0	0	0	1	46	202	518	638	691	699	677	591	440	243	75	15	0	0	0	0	0	4465
n	0	0	0	0	0	0	1	260	314	332	323	328	328	326	328	319	304	308	21	0	0	0	0	0	3492

Daylight Data Recovery: 0.0% missing; 0.0% untested; 3.6% exceed the 15% QC threshold -- 3623 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.

February 2011

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	*	*	*	*	*	*	*	*	*	*	*	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	*	*	*	*	*	*	*	*	*	*	*	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	*
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	*

Avg	0	0	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	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	N/A	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	N/A	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	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 99.8% missing; 0.0% untested; 0.2% exceed the 15% QC threshold -- 3623 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.

February 2011

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	12	67	146	187	183	146	213	195	190	65	8	0	0	0	0	0	0	1412
2	0	0	0	0	0	0	0	15	35	51	59	146	242	195	130	108	59	21	0	0	0	0	0	0	1061
3	0	0	0	0	0	0	0	7	44	137	235	279	270	284	179	149	97	20	0	0	0	0	0	0	1701
4	0	0	0	0	0	0	0	7	47	101	207	261	275	211	94	79	32	8	0	0	0	0	0	0	1323
5	0	0	0	0	0	0	0	7	82	154	227	275	259	133	106	123	73	22	0	0	0	0	0	0	1461
6	0	0	0	0	0	0	0	8	36	95	210	298	178	164	64	52	44	18	0	0	0	0	0	0	1167
7	0	0	0	0	0	0	0	14	48	92	227	267	261	171	120	116	73	39	0	0	0	0	0	0	1428
8	0	0	0	0	0	0	0	13	51	114	221	271	283	242	174	162	99 ?	27 ?	0	0	0	0	0	0	1656
9	0	0	0	0	0	0	0	14	69	122	215	281	345	370	256	107	46	14	0	0	0	0	0	0	1839
10	0	0	0	0	0	0	0	5	42	70	49	53	103	76	57	109	212	55	0	0	0	0	0	0	831
11	0	0	0	0	0	0	0	15	43	55	57	59	60	63	64	198	175 ?	53	0	0	0	0	0	0	840
12	0	0	0	0	0	0	0	11	65	148	135	196	253	97	93	304 ?	186 ?	54	0	0	0	0	0	0	1541 ?
13	0	0	0	0	0	0	0	15	36	49	59	147	76	90	201	392 ?	215	57	0	0	0	0	0	0	1336
14	0	0	0	0	0	0	0	13	37	53	66	77	75	77	236 ?	?	173 ?	36	0	0	0	0	0	0	842 ?
15	0	0	0	0	0	0	0	25	97	117	144	277	345	360	434 ?	298 ?	198 ?	56	0	0	0	0	0	0	2350
16	0	0	0	0	0	0	0	13	57	102	196	253	279	189	479 ?	?	205 ?	55	0	0	0	0	0	0	1826 ?
17	0	0	0	0	0	0	0	40	72	64	91	94	107	261	?	?	206 ?	60	0	0	0	0	0	0	996 ?
18	0	0	0	0	0	0	0	12	52	60	134	298	169	230	180	216	225	13	0	0	0	0	0	0	1587
19	0	0	0	0	0	0	0	15	37	48	54	60	111	500 ?	?	?	199 ?	71	1	0	0	0	0	0	1096 ?
20	0	0	0	0	0	0	0	21	98	229	225	113	205	192	151	57	52	44	2	0	0	0	0	0	1388
21	0	0	0	0	0	0	0	18	46	71	187	311	381	354	313	158	142	33	2	0	0	0	0	0	2017
22	0	0	0	0	0	0	0	25	53	74	129	174	143	71	71	68	79	24	1	0	0	0	0	0	910
23	0	0	0	0	0	0	0	17	85	206	268	324	?	504 ?	407 ?	319 ?	164 ?	74	1	0	0	0	0	0	2368 ?
24	0	0	0	0	0	0	0	3	18	42	42	58	57	78	78	45	22	13	2	0	0	0	0	0	458
25	0	0	0	0	0	0	0	11	82	130	205	214	214	246	108	63	37	12	1	0	0	0	0	0	1321
26	0	0	0	0	0	0	0	28	128	235	286	?	?	?	?	?	211 ?	70	9	0	0	0	0	0	968 ?
27	0	0	0	0	0	0	0	40	91	148	355	516 ?	393	342	93	149	50	19	2	0	0	0	0	0	2199
28	0	0	0	0	0	0	?	27	102	111	101 ?	90	66	47 ?	54 ?	?	?	27	16	0	0	0	0	0	641 ?

Avg	0	0	0	0	0	0	0	16	61	108	163	207	204	213	173	157	124	36	1	0	0	0	0	0	1377
S D	0	0	0	0	0	0	0	9	26	54	84	111	104	128	121	96	72	21	3	0	0	0	0	0	499
S/A	0	0	0	0	0	0	0	0.58	0.42	0.5	0.51	0.54	0.51	0.6	0.7	0.61	0.58	0.58	2.52	0	0	0	0	0	0.36
Min	0	0	0	0	0	0	0	3	18	42	42	53	57	47	54	45	22	8	0	0	0	0	0	0	458
Max	0	0	0	0	0	0	0	40	128	235	355	516	393	504	479	392	225	74	16	0	0	0	0	0	2368
n	0	0	0	0	0	0	0	253	335	336	329	314	309	298	276	239	266	308	21	0	0	0	0	0	3285

Daylight Data Recovery: 0.0% missing; 0.0% untested; 9.3% exceed the 15% QC threshold -- 3623 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.