

February 2002

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	25	194	328	466	588	624	547	464	341	205	33	0	0	0	0	0	0	3815
2	0	0	0	0	0	0	0	19	89	269	484	610	647	635	530	401	204	46	0	0	0	0	0	0	3934
3	0	0	0	0	0	0	0	39	173	281	216	257	313	508	353	198	75	13	0	0	0	0	0	0	2427
4	0	0	0	0	0	0	0	31	176	368	507	642	690	672	563	420	219	53	0	0	0	0	0	0	4340
5	0	0	0	0	0	0	0	28	148	362	351	554	561	511	431	193	105	22	0	0	0	0	0	0	3268
6	0	0	0	0	0	0	0	5	36	96	139	120	210	121	61	57	33	6	0	0	0	0	0	0	885
7	0	0	0	0	0	0	0	6	40	41	34	68	60	49	44	67	27	4	0	0	0	0	0	0	441
8	0	0	0	0	0	0	0	33	189	388	514	656	697	670	573	429	235	53	0	0	0	0	0	0	4437
9	0	0	0	0	0	0	0	35	187	353	381	602	680	640	551	415	166	22	0	0	0	0	0	0	4030
10	0	0	0	0	0	0	0	26	90	286	376	467	510	282	64	155	99	31	0	0	0	0	0	0	2386
11	0	0	0	0	0	0	0	30	182	389	525	624	688	638	576	451	229	70	0	0	0	0	0	0	4401
12	0	0	0	0	0	0	0	53	200	341	457	645	642	568	446	360	225	61	1	0	0	0	0	0	4000
13	0	0	0	0	0	0	0	13	60	129	144	159	170	187	160	106	83	36	0	0	0	0	0	0	1246
14	0	0	0	0	0	0	0	21	119	345	485	668	729	681	575	425	249	67	4	0	0	0	0	0	4369
15	0	0	0	0	0	0	0	27	247	194	318	404	231	144	158	108	173	38	2	0	0	0	0	0	2045
16	0	0	0	0	0	0	0	19	77	172	368	416	388	609	567	428	242	66	1	0	0	0	0	0	3353
17	0	0	0	0	0	0	0	44	228	440	570	710	765	736	637	491	286	81	3	0	0	0	0	0	4991
18	0	0	0	0	0	0	0	45	240	450	583	722	770	738	635	487	286	77	1	0	0	0	0	0	5035
19	0	0	0	0	0	0	0	50	232	433	565	693	732	713	598	409	262	60	2	0	0	0	0	0	4750
20	0	0	0	0	0	0	0	23	216	359	448	534	677	695	558	202	35	16	0	0	0	0	0	0	3763
21	0	0	0	0	0	0	0	41	140	196	421	541	568	599	595	403	215	65	3	0	0	0	0	0	3789
22	0	0	0	0	0	0	0	31	98	165	217	272	284	263	257	194	83	19	0	0	0	0	0	0	1885
23	0	0	0	0	0	0	0	11	31	64	70	59	92	96	119	135	54	19	1	0	0	0	0	0	750
24	0	0	0	0	0	0	0	57	250	450	609	745	792	758	656	501	295	95	4	0	0	0	0	0	5212
25	0	0	0	0	0	0	3	58	184 ?	454	602	731	782	751	649	496	294	93	4	0	0	0	0	0	5102
26	0	0	0	0	0	0	2	83	200	397	603	704	691	575	464	286	213	72	4	0	0	0	0	0	4297
27	0	0	0	0	0	0	2	71	289	486	646	771	820	784	686	534	327	115	9	0	0	0	0	0	5539
28	0	0	0	0	0	0	2	73	283	476	634	759	820	790	688	532	324	98	12	0	0	0	0	0	5490

Avg	0	0	0	0	0	0	0	36	164	311	419	526	558	534	452	329	187	51	2	0	0	0	0	0	3571
S D	0	0	0	0	0	0	1	20	75	131	176	221	237	234	211	155	95	30	3	0	0	0	0	0	1496
S/A	0	0	0	0	0	0	2.54	0.56	0.46	0.42	0.42	0.42	0.42	0.44	0.47	0.47	0.5	0.6	1.55	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	0	5	31	41	34	59	60	49	44	57	27	4	0	0	0	0	0	0	441
Max	0	0	0	0	0	0	3	83	289	486	646	771	820	790	688	534	327	115	12	0	0	0	0	0	5539
n	0	0	0	0	0	0	7	300	333	336	336	336	336	336	336	336	336	332	38	0	0	0	0	0	3698

Daylight Data Recovery: 0.0% missing; 0.1% exceed the 15% QC threshold -- 3702 total daylight measurements.

Instrument: Eppley PSP Serial Number: 28401F3 Calibration Factor: 7.980 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 2002

Estimated Direct Normal Solar Radiation
 Hourly Integrated and Daily Totals
 Instrument: Calculated
 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	*
12	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	*
14	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	*
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	*
24	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
25	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
26	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
27	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	*
S/D	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	0	N/A
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	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% exceed the 15% QC threshold -- 3702 total daylight measurements.

Instrument: Calculated Serial Number: Estimated Calibration Factor: Global = Diffuse + Direct * COS (Zenith Angle) Calibration Date: N/A

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 2002

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	27	134	332 ?	?	?	?	328 ?	395 ?	279 ?	172 ?	32	0	0	0	0	0	0	1699 ?
2	0	0	0	0	0	0	0	18	84	167 ?	?	?	?	?	?	?	178 ?	44	0	0	0	0	0	0	491 ?
3	0	0	0	0	0	0	0	36	138	236	199	238	265	401 ?	286	184	69	12	0	0	0	0	0	0	2063
4	0	0	0	0	0	0	0	29	162	?	?	?	?	?	?	?	174 ?	52	0	0	0	0	0	0	417 ?
5	0	0	0	0	0	0	0	27	138	267 ?	311	477 ?	451 ?	457	396	176	100	20	0	0	0	0	0	0	2818 ?
6	0	0	0	0	0	0	0	5	33	89	127	110	194	111	56	53	30	6	0	0	0	0	0	0	813
7	0	0	0	0	0	0	0	6	37	38	32	63	56	45	41	61	26	4	0	0	0	0	0	0	408
8	0	0	0	0	0	0	0	32	166	?	?	?	?	?	?	?	180 ?	53	0	0	0	0	0	0	432 ?
9	0	0	0	0	0	0	0	33	164	330 ?	312 ?	479 ?	?	?	?	378 ?	143	20	0	0	0	0	0	0	1859 ?
10	0	0	0	0	0	0	0	24	83	258	335	420	461	219	58	140	91	28	0	0	0	0	0	0	2117
11	0	0	0	0	0	0	0	29	164	367 ?	?	506 ?	?	?	?	?	209	66	0	0	0	0	0	0	1340 ?
12	0	0	0	0	0	0	0	45	128	283	472 ?	?	581 ?	507 ?	407	336	207	56	1	0	0	0	0	0	3023 ?
13	0	0	0	0	0	0	0	12	55	118	133	146	156	172	146	99	76	32	0	0	0	0	0	0	1146
14	0	0	0	0	0	0	0	19	110	305	433 ?	?	?	?	?	383 ?	215 ?	64	3	0	0	0	0	0	1534 ?
15	0	0	0	0	0	0	0	25	137 ?	177	234	370	210	132	145	75	161	35	1	0	0	0	0	0	1701
16	0	0	0	0	0	0	0	17	70	154	344	383	356	331 ?	?	376 ?	230	61	1	0	0	0	0	0	2325 ?
17	0	0	0	0	0	0	0	44	177 ?	?	?	?	?	?	?	?	193 ?	77	2	0	0	0	0	0	494 ?
18	0	0	0	0	0	0	0	48	173 ?	?	?	?	?	?	?	?	193 ?	74	1	0	0	0	0	0	488 ?
19	0	0	0	0	0	0	0	45	179 ?	?	?	?	?	?	?	315 ?	223 ?	54	2	0	0	0	0	0	818 ?
20	0	0	0	0	0	0	0	21	179	292	380	480	547 ?	?	440 ?	146	33	15	0	0	0	0	0	0	2532 ?
21	0	0	0	0	0	0	0	38	129	183	402	495	504	529 ?	516 ?	375	195	61	3	0	0	0	0	0	3430
22	0	0	0	0	0	0	0	28	90	148	199	246	259	240	233	176	77	17	0	0	0	0	0	0	1714
23	0	0	0	0	0	0	0	10	28	59	64	54	84	87	108	122	49	18	1	0	0	0	0	0	685
24	0	0	0	0	0	0	0	52	217	356 ?	?	?	?	?	?	?	219 ?	90	4	0	0	0	0	0	938 ?
25	0	0	0	0	0	0	2	54	200 ?	405 ?	?	?	?	?	?	?	238 ?	88	4	0	0	0	0	0	991 ?
26	0	0	0	0	0	0	2	55	205	369 ?	?	?	560 ?	405 ?	367 ?	261	170	65	4	0	0	0	0	0	2464 ?
27	0	0	0	0	0	0	2	67	186 ?	?	?	?	?	?	?	?	?	108	9	0	0	0	0	0	371 ?
28	0	0	0	0	0	0	2	69	193 ?	?	?	?	?	?	?	?	215 ?	92	12	0	0	0	0	0	582 ?

Avg	0	0	0	0	0	0	0	33	134	235	265	319	335	283	257	219	151	48	2	0	0	0	0	0	1418 ?
S D	0	0	0	0	0	0	1	17	55	109	136	171	183	162	164	120	70	29	3	0	0	0	0	0	907
S/A	0	0	0	0	0	0	2.51	0.53	0.41	0.46	0.51	0.54	0.55	0.57	0.64	0.55	0.46	0.6	1.61	0	0	0	0	0	0.64
Min	0	0	0	0	0	0	0	5	28	38	32	54	56	45	41	53	26	4	0	0	0	0	0	0	371
Max	0	0	0	0	0	0	2	69	217	405	472	506	581	529	516	383	238	108	12	0	0	0	0	0	3430
n	0	0	0	0	0	0	7	298	284	189	159	141	136	133	147	183	256	332	38	0	0	0	0	0	2314

Daylight Data Recovery: 0.0% missing; 37.5% exceed the 15% QC threshold -- 3702 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17862F3 Calibration Factor: 7.530 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.