

Savannah State College
32.03 N Latitude 81.07 W Longitude 11 Meters AMSL Time Zone -5

June 2001

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	29	141	262	422	686	626	784	556	412	364	177	154	103	24	4	0	0	0	0	4744
2	0	0	0	0	0	20	90	279	427	682	780	530	784	932	823	681	500	287	94	10	0	0	0	0	6920
3	0	0	0	0	0	22	141	347	552	729	854	963	949	824	772	287	121	238	70	1	0	0	0	0	6871
4	0	0	0	0	0	16	134	339	537	678	846	942	883	618	826	683	468	238	79	5	0	0	0	0	7290
5	0	0	0	0	0	26	132	334	489	663	811	911	958	869	810	357	147	213	107	8	0	0	0	0	6834
6	0	0	0	0	0	19	155	316	519	623	762	779	719	609	666	637	452	195	51	7	0	0	0	0	6506
7	0	0	0	0	0	7	45	133	445	739	753	811	980	408	631	122	126	144	14	3	0	0	0	0	5360
8	0	0	0	0	0	11	52	142	378	462	393	545	551	485	446	295	19 ?	13	43	16	0	0	0	0	3849
9	0	0	0	0	0	15	74	206	322	516	294	357	296	253	67	174	93	60	25	8	0	0	0	0	2760
10	0	0	0	0	0	5	27	84	201	215	359	222	166	73	310	278	39	101	55	10	0	0	0	0	2145
11	0	0	0	0	0	18	116	206	193	391	290	591	604	147	55	247	35	59	22	3	0	0	0	0	2977
12	0	0	0	0	0	3	12	32	61	127	258	610	721	613	457	272	343	174	65	11	0	0	0	0	3759
13	0	0	0	0	0	24	116	304	294	380	415	780	671	436	72	319	342	75	59	31	0	0	0	0	4317
14	0	0	0	0	0	20	129	318	523	700	833	901	913	726	628	677	318	94	53	15	0	0	0	0	6849
15	0	0	0	0	0	16	102	320	536	710	848	929	840	721	675	376	470	286	57	6	0	0	0	0	6894
16	0	0	0	0	0	20	141	336	536	529	817	924	980	880	753	714	493	308	103	13	0	0	0	0	7548
17	0	0	0	0	0	22	122	254	295	326	379	470	244	43	125	212	193	132	65	22	0	0	0	0	2906
18	0	0	0	0	0	25	129	288	531	712	857	969	862	894	856	566	593	285	102	18	0	0	0	0	7687
19	0	0	0	0	0	14	104	207	557	591	799	930	912	827	94	21	90	149	51	14	0	0	0	0	5359
20	0	0	0	0	0	21	142	315	455	661	564	209	210	593	221	179	302	280	95	12	0	0	0	0	4258
21	0	0	0	0	0	22	145	277	243	586	833	766	341	145	12	29	219	241	92	18	0	0	0	0	3968
22	0	0	0	0	0	12	129	287	417	669	489	412	280	318	755	476	446	228	32	0	0	0	0	0	4951
23	0	0	0	0	0	24	93	187	267	430	533	595	789	908	620	391	386	131	76	23	0	0	0	0	5453
24	0	0	0	0	0	16	85	224	431	638	605	714	410	477	611	541	279	274	96	21	0	0	0	0	5421
25	0	0	0	0	0	13	111	300	544	492	610	73	956	848	333	124	215	143	156 ?	23	0	0	0	0	4940
26	0	0	0	0	0	21	106	306	433	538	668	929	943	869	797	649	487	270	28	4	0	0	0	0	7047
27	0	0	0	0	0	24	128	88	304	570	176	205	296	771	812	674	279	70	27	7	0	0	0	0	4431
28	0	0	0	0	0	12	60	82	123	224	284	281	342	298	245	186	159	97	13	1	0	0	0	0	2407
29	0	0	0	0	0	9	81	127	140	170	164	152	446	369	569	534	325	150	76	13	0	0	0	0	3324
30	0	0	0	0	0	20	141	290	413	627	598	843	1002	636	163	95	144	103	48	7	0	0	0	0	5130
Avg	0	0	0	0	0	18	106	240	386	535	583	638	653	567	486	366	275	171	63	11	0	0	0	0	5097
S D	0	0	0	0	0	6	37	91	144	178	231	285	283	274	287	221	163	85	33	8	0	0	0	0	1660
S/A	0	0	0	0	0	0.36	0.35	0.38	0.37	0.33	0.4	0.45	0.43	0.48	0.59	0.6	0.59	0.5	0.53	0.7	0	0	0	0	0.33
Min	0	0	0	0	0	3	12	32	61	127	164	73	166	43	12	21	19	13	13	0	0	0	0	0	2145
Max	0	0	0	0	0	29	155	347	557	739	857	969	1002	932	856	714	593	308	156	31	0	0	0	0	7687
n	0	0	0	0	0	258	360	360	360	359	360	360	360	360	358	360	356	360	357	165	0	0	0	0	5093

Daylight Data Recovery: 0.0% missing; 0.2% exceed the 15% QC threshold -- 5103 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.

June 2001

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	*	
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	*	
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	N/A	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	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	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 -- 5103 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.

Savannah State College
32.03 N Latitude 81.07 W Longitude 11 Meters AMSL Time Zone -5

June 2001

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	26	132	244	395	551 ?	574	594 ?	483	386	341	164	143	96	23	4	0	0	0	0	4156 ?	
2	0	0	0	0	0	19	84	264	380	581 ?	603 ?	418 ?	470 ?	?	?	580 ?	?	268 ?	97	9	0	0	0	0	3773 ?	
3	0	0	0	0	0	21	138	314 ?	?	?	?	?	683 ?	658 ?	239	113	224	64	0	0	0	0	0	0	2455 ?	
4	0	0	0	0	0	16	133	325	?	?	?	?	654 ?	322 ?	?	?	412 ?	236	80	5	0	0	0	0	2183 ?	
5	0	0	0	0	0	25	128	327	477	?	?	?	?	?	?	238 ?	137	202	106	8	0	0	0	0	1647 ?	
6	0	0	0	0	0	17	147	307	444 ?	562 ?	651 ?	532 ?	638 ?	541	529 ?	?	418 ?	192	48	6	0	0	0	0	5032 ?	
7	0	0	0	0	0	6	41	122	299 ?	?	531 ?	641 ?	?	227 ?	466 ?	111	111	132	13	3	0	0	0	0	2703 ?	
8	0	0	0	0	0	9	47	131	277 ?	430	362	439	514	447	413	237	17 ?	13	40	15	0	0	0	0	3392	
9	0	0	0	0	0	14	69	194	297	415	272	328	276	229	62	161	86	55	23	7	0	0	0	0	2490	
10	0	0	0	0	0	5	25	77	185	201	331	204	153	68	289	260	36	95	51	10	0	0	0	0	1990	
11	0	0	0	0	0	17	113	172	179	364	271	493	456 ?	137	50	229	34	55	21	3	0	0	0	0	2593	
12	0	0	0	0	0	3	11	30	58	119	242	533	610 ?	520	430	251	300	140	64	10	0	0	0	0	3320	
13	0	0	0	0	0	23	113	253 ?	271	353	346	593 ?	388 ?	283 ?	67	177 ?	272	71	57	33	0	0	0	0	3299 ?	
14	0	0	0	0	0	19	123	309	447 ?	?	?	?	728 ?	532 ?	302 ?	?	227 ?	87	50	15	0	0	0	0	2838 ?	
15	0	0	0	0	0	15	98	313	?	?	?	?	616 ?	565 ?	517 ?	169 ?	334 ?	283	57	5	0	0	0	0	2973 ?	
16	0	0	0	0	0	20	138	332	377 ?	444 ?	529 ?	?	?	?	651 ?	?	437 ?	273 ?	107	12	0	0	0	0	3321 ?	
17	0	0	0	0	0	21	114	239	257	300	353	438	227	41	117	198	179	121	60	20	0	0	0	0	2684	
18	0	0	0	0	0	23	125	298 ?	?	?	576 ?	?	644 ?	727 ?	?	404 ?	?	239 ?	100	18	0	0	0	0	3154 ?	
19	0	0	0	0	0	13	97	145	473 ?	460 ?	620 ?	738 ?	630 ?	567 ?	88	19	81	135	47	14	0	0	0	0	4126 ?	
20	0	0	0	0	0	18	138	311	402 ?	487 ?	387 ?	200	198	450 ?	204	164	212 ?	235 ?	97	11	0	0	0	0	3515 ?	
21	0	0	0	0	0	20	131	252	202	456 ?	?	490 ?	323	140	12	26	202	227	91	16	0	0	0	0	2589 ?	
22	0	0	0	0	0	11	123	263	396	606 ?	455	382	260	295	523 ?	469	413 ?	197	30	0	0	0	0	0	4423 ?	
23	0	0	0	0	0	24	85	147	242	382	466	432 ?	472 ?	666 ?	349 ?	364	354	121	72	22	0	0	0	0	4197 ?	
24	0	0	0	0	0	15	78	200	277 ?	564 ?	540	546 ?	274	422	483 ?	430 ?	215	248	94	19	0	0	0	0	4405 ?	
25	0	0	0	0	0	12	102	277	438 ?	233 ?	229 ?	69	528 ?	331 ?	221	117	113 ?	134	151 ?	22	0	0	0	0	2976 ?	
26	0	0	0	0	0	20	99	292	345 ?	484 ?	483 ?	?	?	705 ?	?	531 ?	429 ?	264	27	4	0	0	0	0	3682 ?	
27	0	0	0	0	0	23	116	82	290	307 ?	165	195	275	561 ?	?	?	270	66	25	7	0	0	0	0	2383 ?	
28	0	0	0	0	0	11	56	75	112	205	264	260	320	266	224	170	147	90	12	1	0	0	0	0	2213	
29	0	0	0	0	0	9	73	115	128	154	146	135	409	337	399 ?	373 ?	311	139	71	11	0	0	0	0	2811	
30	0	0	0	0	0	20	126	198 ?	372 ?	480 ?	564	676 ?	?	317 ?	150	87	132	95	45	7	0	0	0	0	3270 ?	
Avg	0	0	0	0	0	16	100	220	308	397	415	424	439	399	314	247	219	158	61	11	0	0	0	0	3153 ?	
S D	0	0	0	0	0	6	36	91	116	143	153	184	169	195	196	149	131	78	34	8	0	0	0	0	809	
S/A	0	0	0	0	0	0.38	0.36	0.41	0.38	0.36	0.37	0.43	0.38	0.49	0.62	0.6	0.6	0.5	0.55	0.72	0	0	0	0	0	0.26
Min	0	0	0	0	0	3	11	30	58	119	146	69	153	41	12	19	17	13	12	0	0	0	0	0	1647	
Max	0	0	0	0	0	26	147	332	477	606	651	738	728	727	658	580	437	283	151	33	0	0	0	0	5032	
n	0	0	0	0	0	258	360	338	237	194	213	200	203	227	221	254	277	341	354	163	0	0	0	0	3856	

Daylight Data Recovery: 0.0% missing; 24.4% exceed the 15% QC threshold -- 5103 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.