

September 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	0	12	132	316	281	548	593	694	506	404	364	213	61	27	0	0	0	0	0	4151
2	0	0	0	0	0	0	56	202	297	239	274	222	292	266	324	256	145	92	10	0	0	0	0	0	2676
3	0	0	0	0	0	0	29	110	260	485	640	478	648	583	721	521	337	79	10	0	0	0	0	0	4899
4	0	0	0	0	0	0	13	77	116	258	272	296	509	651	185	522	324	138	19	0	0	0	0	0	3380
5	0	0	0	0	0	0	21	107	348	497	501	734	585	141	33	22	16	32	13	0	0	0	0	0	3051
6	0	0	0	0	0	0	22	67	180	171	370	194	220	184	256	434	256	135	21	0	0	0	0	0	2508
7	0	0	0	0	0	0	14	161	336	462	691	736	644	555	423	526	253	94	26	0	0	0	0	0	4921
8	0	0	0	0	0	0	40	204	413	587	755	855	867	836	709	472	359	123	17	0	0	0	0	0	6237
9	0	0	0	0	0	0	18	101	197	477	305	469	402	159	48	89	97	117	35	0	0	0	0	0	2515
10	0	0	0	0	0	0	15	182	240	323	397	698	720	640	656	295	407	171	26	0	0	0	0	0	4768
11	0	0	0	0	0	0	38	81	147	338	795	549	791	228	240	122	79	40	25	0	0	0	0	0	3473
12	0	0	0	0	0	0	17	26	71	47	83	39	105	306	350	262	201	85	16	0	0	0	0	0	1610
13	0	0	0	0	0	0	11	59	200	224	305	592	386	225	571	386	260	55	12	0	0	0	0	0	3288
14	0	0	0	0	0	0	7	51	151	166	199	228	181	177	148	59	57	15	5	0	0	0	0	0	1443
15	0	0	0	0	0	0	7	65	250	371	502	362	195	382	306	224	229	143	28	0	0	0	0	0	3062
16	0	0	0	0	0	0	42	216	445	530	781	869	881	841	711	498	346	123	10	0	0	0	0	0	6292
17	0	0	0	0	0	0	35	230 ?	421	615	764	846	843	712	699	510	272	77	9	0	0	0	0	0	6032
18	0	0	0	0	0	0	48	153	307	568	648	665	766	710	218	287	280	91	9	0	0	0	0	0	4750
19	0	0	0	0	0	0	36	179	374	553	721	828	839	767	645	491	258	95	13	0	0	0	0	0	5798
20	0	0	0	0	0	0	5	49	194	441	664	644	582	562	562	396	265	83	8	0	0	0	0	0	4455
21	0	0	0	0	0	0	20	148	372	553	687	796	869	473	73	153	288	71	6	0	0	0	0	0	4509
22	0	0	0	0	0	0	25	130	253	359	535	805	788	630	234	250	102	69	7	0	0	0	0	0	4188
23	0	0	0	0	0	0	9	33	28	122	130	569	399	334	275	435	311	35	3	0	0	0	0	0	2683
24	0	0	0	0	0	0	23	146	301	556	749	519	471	366	185	126	69	47	6	0	0	0	0	0	3562
25	0	0	0	0	0	0	15	126	293	562	702	776	847	750	560	251	141	123	13	0	0	0	0	0	5157
26	0	0	0	0	0	0	17	126	232	324	384	523	763	496	429	237	131	53	7	0	0	0	0	0	3721
27	0	0	0	0	0	0	19	164	384	570	706	800	701	620	491	488	258	59	4	0	0	0	0	0	5265
28	0	0	0	0	0	0	32	152	379	572	715	795	817	763	643	448	238	77	4	0	0	0	0	0	5636
29	0	0	0	0	0	0	14	79	260	449	645	468	657	516	408	276	146	50	5	0	0	0	0	0	3974
30	0	0	0	0	0	0	29	180	395	582	724	803	826	768	651	480	247	73	0	0	0	0	0	0	5758
Avg	0	0	0	0	0	0	23	124	272	409	540	592	610	505	405	329	220	84	13	0	0	0	0	0	4125
S D	0	0	0	0	0	0	13	57	107	162	214	228	238	222	218	156	100	37	9	0	0	0	0	0	1347
S/A	0	0	0	0	0	0	0.57	0.46	0.39	0.4	0.4	0.39	0.39	0.44	0.54	0.47	0.46	0.45	0.68	0	0	0	0	0	0.33
Min	0	0	0	0	0	0	5	26	28	47	83	39	105	141	33	22	16	15	0	0	0	0	0	0	1443
Max	0	0	0	0	0	0	56	230	445	615	795	869	881	841	721	526	407	171	35	0	0	0	0	0	6292
n	0	0	0	0	0	0	315	355	360	360	360	360	360	359	357	360	360	360	154	0	0	0	0	0	4420

Daylight Data Recovery: 0.0% missing; 0.2% exceed the 15% QC threshold -- 4429 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.

September 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	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	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
7	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
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	0	*	
11	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
12	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
13	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
14	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
15	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
16	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
17	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
18	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
19	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
20	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
21	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
22	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	*	
29	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
30	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
Avg	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	N/A	N/A	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	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	0	0	N/A
Max	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	N/A	N/A	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 -- 4429 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

September 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	0	12	119	280	253	500	545	587 ?	452	365	272	197	57	25	0	0	0	0	0	3664
2	0	0	0	0	0	0	43	175 ?	265	219	248	204	270	246	294	232	132	83	9	0	0	0	0	0	2421
3	0	0	0	0	0	0	26	100	239	435	513 ?	437	585	517	536 ?	423 ?	259 ?	72	9	0	0	0	0	0	4151 ?
4	0	0	0	0	0	0	12	70	106	234	250	269	449	518	176	411 ?	267	126	17	0	0	0	0	0	2906
5	0	0	0	0	0	0	20	97	314	431	411	537 ?	380 ?	124	30	21	15	30	12	0	0	0	0	0	2422
6	0	0	0	0	0	0	19	58	160	153	326	184	206	173	230	389	183	109	19	0	0	0	0	0	2209
7	0	0	0	0	0	0	12	97	227	364	548 ?	627 ?	441 ?	375 ?	298	264	110	63	24	0	0	0	0	0	3450 ?
8	0	0	0	0	0	0	29	84	118	178	276	344	334	272	201	201	134	73	16	0	0	0	0	0	2261
9	0	0	0	0	0	0	17	80	182	353	275	345	299	138	45	83	88	97	32	0	0	0	0	0	2032
10	0	0	0	0	0	0	13	132	176	255	346	406	344	281	298	237	214	97	19	0	0	0	0	0	2818
11	0	0	0	0	0	0	34	74	135	223	358	427	326	168	211	114	74	38	23	0	0	0	0	0	2205
12	0	0	0	0	0	0	16	24	66	44	77	37	97	281	312	241	170	74	15	0	0	0	0	0	1454
13	0	0	0	0	0	0	11	54	177	204	277	407	327	207	357	263	213	50	11	0	0	0	0	0	2559
14	0	0	0	0	0	0	6	47	138	153	184	212	165	162	137	53	53	14	5	0	0	0	0	0	1330
15	0	0	0	0	0	0	6	58	166	330	361	334	176	337	273	201	207	115	25	0	0	0	0	0	2590
16	0	0	0	0	0	0	21	56	68	89	78	80	101	136	136	103	62	35	8	0	0	0	0	0	973
17	0	0	0	0	0	0	20	47	56	66	79	87	117	135	110	116	104	61	9	0	0	0	0	0	1006
18	0	0	0	0	0	0	36	129	176	124	250	253	319	265	184	212	105	51	8	0	0	0	0	0	2113
19	0	0	0	0	0	0	25	78	112	133	180	238	217	187	158	121	109	75	11	0	0	0	0	0	1644
20	0	0	0	0	0	0	4	44	174	256	331	378	456	478	335	178	138	49	8	0	0	0	0	0	2830
21	0	0	0	0	0	0	17	83	112	137	161	198	345	178	63	111	135	56	7	0	0	0	0	0	1604
22	0	0	0	0	0	0	22	119	233	270	264	258	301	214	173	192	77	60	6	0	0	0	0	0	2189
23	0	0	0	0	0	0	8	30	25	108	117	473	336	296	242	262	168	29	3	0	0	0	0	0	2098
24	0	0	0	0	0	0	21	115	187	226	332	303	364	337	157	116	63	43	6	0	0	0	0	0	2271
25	0	0	0	0	0	0	14	112	213	188	229	209	172	194	233	212	127	79	12	0	0	0	0	0	1994
26	0	0	0	0	0	0	15	97	170	248	314	322	297	315	332	209	117	47	6	0	0	0	0	0	2489
27	0	0	0	0	0	0	14	69	100	135	130	185	221	227	258	171	84	33	5	0	0	0	0	0	1632
28	0	0	0	0	0	0	18	53	70	77	89	93	92	88	83	103	88	37	4	0	0	0	0	0	897
29	0	0	0	0	0	0	13	71	187	232	181	344	329	372	333	249	137	44	4	0	0	0	0	0	2496
30	0	0	0	0	0	0	16	52	74	87	95	99	99	101	89	78	55	28	1	0	0	0	0	0	874
Avg	0	0	0	0	0	0	18	81	157	207	259	295	292	259	222	195	130	61	12	0	0	0	0	0	2186
S D	0	0	0	0	0	0	9	34	71	103	131	149	134	121	114	100	63	28	8	0	0	0	0	0	791
S/A	0	0	0	0	0	0	0.5	0.42	0.45	0.5	0.5	0.5	0.46	0.47	0.51	0.52	0.48	0.46	0.65	0	0	0	0	0	0.36
Min	0	0	0	0	0	0	4	24	25	44	77	37	92	88	30	21	15	14	1	0	0	0	0	0	874
Max	0	0	0	0	0	0	43	175	314	435	548	627	587	518	536	423	267	126	32	0	0	0	0	0	4151
n	0	0	0	0	0	0	314	354	360	358	349	349	348	353	350	348	355	360	154	0	0	0	0	0	4352

Daylight Data Recovery: 0.0% missing; 1.7% exceed the 15% QC threshold -- 4429 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.