

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

May 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	5	42	108	356	486	551	655	803	724	714	558	430	220	44	0	0	0	0	0	5695
2	0	0	0	0	0	11	62	253	486	681	855	937	951	904	788	635	439	219	48	0	0	0	0	0	7270
3	0	0	0	0	0	7	34	189	438	592	782	888	762	837	608	392	341	136	36	0	0	0	0	0	6043
4	0	0	0	0	0	8	56	170	258	344	349	478	468	421	761	541	312	195	36	0	0	0	0	0	4398
5	0	0	0	0	0	2	57	195	329	362	660	872	903	913	815	662	457	230	40	5	0	0	0	0	6501
6	0	0	0	0	0	8	102	277	483	654	793	697	905	928	776	603	425	249	42	0	0	0	0	0	6945
7	0	0	0	0	0	13	110	274	492	577	672	677	708	744	794	616	440	203	49	2	0	0	0	0	6370
8	0	0	0	0	0	13	104	288	487	672	811	815	469	848	749	591	388	191	52	3	0	0	0	0	6481
9	0	0	0	0	0	10	80	270	469	652	790	883	924	878	765	588	380	173	64	6	0	0	0	0	6933
10	0	0	0	0	0	13	89	257	422	588	758	850	886	837	610	403	411	205	56	0	0	0	0	0	6385
11	0	0	0	0	0	16	111	276	498	474	896	798	964	911	812	635	320	146	45	1	0	0	0	0	6904
12	0	0	0	0	0	20	102	236	402	651	585	703	905	873	728	645	430	238	57	0	0	0	0	0	6575
13	0	0	0	0	0	14	96	257	498	642	819	913	806	597	604	566	397	230	39	1	0	0	0	0	6480
14	0	0	0	0	0	20	131	351	538	714	898	992	1009	960	855	693	489	268	74	4	0	0	0	0	7997
15	0	0	0	0	0	16	132	346	523	723	887	896	934	813	787	681	481	262	70	2	0	0	0	0	7553
16	0	0	0	0	0	14	122	286	466	575	756	897	821	617	635	390	284	197	84	3	0	0	0	0	6150
17	0	0	0	0	0	20	101	276	460	524	670	721	764	877	381	503	451	167	58	5	0	0	0	0	5978
18	0	0	0	0	0	26	142	216	192	416	450	463	448	36	239	118	34	30	22	1	0	0	0	0	2833
19	0	0	0	0	0	1	9	18	56	105	123	135	146	300	307	284	339	195	80	16	0	0	0	0	2114
20	0	0	0	0	0	23	145	364	574	760	904	984	1006	963	826	719	524	317	83	3	0	0	0	0	8194
21	0	0	0	0	0	22	135	354	563	750	894	983	903	672	800	676	476	262	67	3	0	0	0	0	7560
22	0	0	0	0	0	19	134	346	558	748	894	979	1006	961	851	686	483	271	76	7	0	0	0	0	8020
23	0	0	0	0	0	20	139	346	553	734	878	962	982	942	836	677	483	270	81	6	0	0	0	0	7908
24	0	0	0	0	0	28	174	341	548	734	849	868	1021	934	821	675	475	269	68	5	0	0	0	0	7810
25	0	0	0	0	0	24	150	338	557	692	828	950	932	897	767	599	381	248	58	8	0	0	0	0	7427
26	0	0	0	0	0	25	153	240	467	730	890	870	955	935	791	687	504	277	83	4	0	0	0	0	7610
27	0	0	0	0	0	21	149	336	550	619	707	766	1019	949	767	510	369	179	103	5	0	0	0	0	7050
28	0	0	0	0	0	28	146	350	576	733	884	556	995	832	842	683	486	271	85	6	0	0	0	0	7472
29	0	0	0	0	0	18	85	245	467	676	873	968	974	935	835	676	475	273	75	2	0	0	0	0	7577
30	0	0	0	0	0	12	42	89	131	531	593	589	952	791	735	696	485	277	74	2	0	0	0	0	5997
31	0	0	0	0	0	23	82	149	372	684	772	904	654	748	487	454	298	184	27	3	0	0	0	0	5839
Avg	0	0	0	0	0	16	104	259	444	607	744	795	838	793	713	576	409	221	61	3	0	0	0	0	6583
S D	0	0	0	0	0	7	41	86	131	147	182	194	207	211	160	139	96	57	20	3	0	0	0	0	1389
S/A	0	0	0	0	0	0.45	0.4	0.33	0.29	0.24	0.24	0.24	0.25	0.27	0.22	0.24	0.23	0.26	0.33	0.97	0	0	0	0	0.21
Min	0	0	0	0	0	1	9	18	56	105	123	135	146	36	239	118	34	30	22	0	0	0	0	0	2114
Max	0	0	0	0	0	28	174	364	576	760	904	992	1021	963	855	719	524	317	103	16	0	0	0	0	8194
n	0	0	0	0	0	210	369	372	372	372	372	372	372	372	372	372	372	372	372	69	0	0	0	0	5112

Daylight Data Recovery: 0.0% missing; 0.1% exceed the 15% QC threshold -- 5115 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.

May 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	*	
2	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
3	0	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	*	
31	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	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	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	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	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	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	0

Daylight Data Recovery: 100.0% missing; 0.0% exceed the 15% QC threshold -- 5115 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

May 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	4	38	99	336	412	422 ?	535 ?	672 ?	532 ?	532 ?	321 ?	388 ?	215	43	0	0	0	0	0	4548 ?	
2	0	0	0	0	0	10	57	239	377 ?	600 ?	?	?	?	?	?	?	383 ?	213	47	0	0	0	0	0	1927 ?	
3	0	0	0	0	0	6	31	172	422	547 ?	676 ?	771 ?	655 ?	576 ?	418 ?	309 ?	331	126	32	0	0	0	0	0	5074 ?	
4	0	0	0	0	0	8	51	157	238	320	323	441	437	392	674 ?	504	274	162	34	0	0	0	0	0	4015	
5	0	0	0	0	0	2	52	181	305	332	569	780 ?	697 ?	?	?	?	381 ?	225	38	5	0	0	0	0	3567 ?	
6	0	0	0	0	0	8	94	255	405 ?	498 ?	663 ?	591 ?	755 ?	?	651 ?	501 ?	414	225 ?	41	0	0	0	0	0	5102 ?	
7	0	0	0	0	0	14	101	270	465	488 ?	482 ?	476 ?	556 ?	401 ?	?	522 ?	415 ?	194	47	2	0	0	0	0	4433 ?	
8	0	0	0	0	0	11	93	278	476	?	?	515 ?	444	784 ?	730 ?	569	374	179	49	3	0	0	0	0	4504 ?	
9	0	0	0	0	0	9	74	258	460	618 ?	?	?	?	?	?	568	368	162	59	6	0	0	0	0	2580 ?	
10	0	0	0	0	0	12	83	244	403	573	726 ?	?	?	?	557	392	373	194	52	0	0	0	0	0	3609 ?	
11	0	0	0	0	0	14	103	267	382 ?	446	?	675 ?	?	?	?	540 ?	289	135	42	1	0	0	0	0	2895 ?	
12	0	0	0	0	0	18	95	225	297 ?	437 ?	425 ?	492 ?	639 ?	703 ?	488 ?	599 ?	386 ?	233	57	1	0	0	0	0	5094 ?	
13	0	0	0	0	0	12	90	248	429 ?	609 ?	?	?	630 ?	572	560	489 ?	304 ?	193	36	1	0	0	0	0	4172 ?	
14	0	0	0	0	0	18	126	269 ?	?	597 ?	?	?	?	?	?	?	?	230 ?	75	5	0	0	0	0	1320 ?	
15	0	0	0	0	0	16	129	323 ?	505 ?	?	?	801 ?	?	669 ?	671 ?	?	?	246 ?	72	3	0	0	0	0	3435 ?	
16	0	0	0	0	0	13	117	249 ?	179 ?	381 ?	536 ?	570 ?	515 ?	500 ?	466 ?	351	246	163 ?	84	3	0	0	0	0	4373 ?	
17	0	0	0	0	0	18	94	263	412 ?	445 ?	516 ?	582 ?	558 ?	701 ?	353	369 ?	400 ?	161	54	5	0	0	0	0	4932 ?	
18	0	0	0	0	0	28	125	202	177	366	357	285 ?	335	33	222	109	31	28	21	1	0	0	0	0	2318	
19	0	0	0	0	0	1	8	17	52	98	114	125	135	276	280	258	312	179	75	23 ?	0	0	0	0	1954	
20	0	0	0	0	0	22	141	313 ?	?	?	?	?	?	?	?	?	?	?	73	3	0	0	0	0	552 ?	
21	0	0	0	0	0	22	114	322 ?	?	?	?	?	553 ?	496 ?	473 ?	?	?	427 ?	256	67	3	0	0	0	2732 ?	
22	0	0	0	0	0	18	128	339	?	?	?	?	?	?	?	?	405 ?	263	76	7	0	0	0	0	1235 ?	
23	0	0	0	0	0	19	134	341	?	?	?	?	?	?	?	?	?	264	82	6	0	0	0	0	846 ?	
24	0	0	0	0	0	24	129	294	?	?	?	627 ?	?	?	?	?	?	270	68	5	0	0	0	0	1417 ?	
25	0	0	0	0	0	22	140	338 ?	?	619 ?	?	?	?	?	?	724 ?	551 ?	368	212 ?	55	8	0	0	0	3038 ?	
26	0	0	0	0	0	25	137	217	393 ?	?	?	624 ?	698 ?	?	692 ?	?	?	260 ?	88	4	0	0	0	0	3138 ?	
27	0	0	0	0	0	22	122	323	478 ?	535 ?	525 ?	677 ?	?	?	614 ?	404 ?	313	165	91	5	0	0	0	0	4275 ?	
28	0	0	0	0	0	27	140	339	?	507 ?	?	518	?	611 ?	?	?	?	273	88	6	0	0	0	0	2510 ?	
29	0	0	0	0	0	16	78	230	350 ?	451 ?	?	?	?	?	?	?	431 ?	276	78	2	0	0	0	0	1913 ?	
30	0	0	0	0	0	11	38	82	120	458	545	421 ?	?	681 ?	674 ?	?	?	282 ?	78	2	0	0	0	0	3391 ?	
31	0	0	0	0	0	20	74	137	279 ?	609 ?	743 ?	765 ?	583	653 ?	467	446	294	184	25	3	0	0	0	0	5284 ?	
Avg	0	0	0	0	0	15	95	242	345	476	508	564	554	536	539	433	344	206	59	4	0	0	0	0	3232 ?	
S/D	0	0	0	0	0	7	37	81	122	125	167	169	157	190	149	130	86	56	20	4	0	0	0	0	1385	
S/A	0	0	0	0	0	0.47	0.39	0.33	0.35	0.26	0.33	0.3	0.28	0.35	0.28	0.3	0.25	0.27	0.34	1.18	0	0	0	0	0	0.43
Min	0	0	0	0	0	1	8	17	52	98	114	125	135	33	222	109	31	28	21	0	0	0	0	0	552	
Max	0	0	0	0	0	28	141	341	505	619	743	801	755	784	730	599	431	282	91	23	0	0	0	0	5284	
n	0	0	0	0	0	208	366	331	204	161	115	131	106	107	120	148	209	322	369	67	0	0	0	0	2985	

Daylight Data Recovery: 0.0% missing; 41.6% exceed the 15% QC threshold -- 5115 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.