

Bethune-Cookman College
29.18 N Latitude 81.02 W Longitude 20 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	36	133	276	488	735	830	723	279	128	428	226	119	55	19	1	0	0	0	0	4477
2	0	0	0	0	0	25	149	337	546	726	703	871	678	775	543	483	273	78	10	0	0	0	0	0	6675
3	0	0	0	0	0	26	150	340	489	667	815	874	910	719	802	544	319	132	121	25	0	0	0	0	6934
4	0	0	0	0	0	19	128	329	531	718	872	963	996	849	93	73	308	140	48	6	0	0	0	0	6073
5	0	0	0	0	0	15	148	328	361	783	894	977	990	948	696	687	435	118	45	6	0	0	0	0	7430
6	0	0	0	0	0	12	109	251	441	718	815	732	143	151	448	440	279	76	40	6	151	0	0	0	4663
7	0	0	0	0	0	25	143	293	524	684	622	859	828	140	130	548	491	95	23	1	0	0	0	0	5405
8	0	0	0	0	0	14	104	327	510	627	635	358	853	690	50	279	424	174	20	0	0	0	0	0	5066
9	0	0	0	0	0	28	106	325	525	734	746	942	966	975	825	333	216	70	76	9	0	0	0	0	6874
10	0	0	0	0	0	21	106	260	513	539	738	700	408	47	140	153	488	146	55	6	0	0	0	0	4321
11	0	0	0	0	0	13	113	321	524	724	878	743	824	613	735	88	37	72	44	6	13	0	0	0	5734
12	0	0	0	0	0	14	112	251	475	673	743	693	668	718	675	686	481	286	82	9	0	0	0	0	6567
13	0	0	0	0	0	19	121	321	523	668	808	878	861	901	879	680	493	287	87	7	0	0	0	0	7533
14	0	0	0	0	0	20	133	326	529	714	848	808	719	596	389	6	29	116	62	14	0	0	0	0	5309
15	0	0	0	0	0	22	132	304	503	688	857	827	725	201	207	348	334	16	22	16	201	0	0	0	5202
16	0	0	0	0	0	22	111	250	430	551	927	930	895	833	804	722	448	265	20	0	0	0	0	0	7208
17	0	0	0	0	0	23	121	227	301	657	779	819	558	599	878	459	74	46	27	2	0	0	0	0	5569
18	0	0	0	0	0	24	152	332	549	747	888	808	851	964	873	697	492	267	43	2	0	0	0	0	7687
19	0	0	0	0	0	20	130	275	451	480	608	479	657	969	801	707	504	219	29	3	969	0	0	0	6331
20	0	0	0	0	0	21	133	310	565	824	379	846	809	942	897	732	507	276	36	6	0	0	0	0	7282
21	0	0	0	0	0	22	131	312	518	701	730	826	836	962	699	363	28	27	49	22	0	0	0	0	6224
22	0	0	0	0	0	21	134	324	530	727	914	731	235	106	382	194	258	294	118	3	0	0	0	0	4970
23	0	0	0	0	0	29	104	311	483	555	322	261	524	515	505	371	280	154	108	8	0	0	0	0	4530
24	0	0	0	0	0	26	168	323	511	680	603	588	211	71	129	156	191	178	93	20	0	0	0	0	3949
25	0	0	0	0	0	20	110	320	516	529	868	946	795	512	632	590	486	277	88	8	0	0	0	0	6698
26	0	0	0	0	0	11	120	203	498	699	849	939	989	971	651	380	466	280	88	3	0	0	0	0	7148
27	0	0	0	0	0	10	86	293	343	364	611	699	758	345	150	148	106	97	27	1	0	0	0	0	4041
28	0	0	0	0	0	15	86	126	328	570	175	85	69	98	163	178	163	33	7	1	0	0	0	0	2096
29	0	0	0	0	0	10	73	321	526	731	881	1029	839	374	390	219	193	104	40	5	0	0	0	0	5735
30	0	0	0	0	0	19	121	297	482	583	514	901	1067	197	187	185	292	311	62	7	0	0	0	0	5226
Avg	0	0	0	0	0	20	122	294	484	660	728	761	698	564	504	391	314	163	55	7	0	0	0	0	5765
S D	0	0	0	0	0	6	21	47	68	99	185	218	275	338	288	228	166	97	32	6	0	0	0	0	1310
S/A	0	0	0	0	0	0.3	0.17	0.16	0.14	0.15	0.25	0.29	0.39	0.6	0.57	0.58	0.53	0.59	0.57	0.91	0	0	0	0	0.23
Min	0	0	0	0	0	10	73	126	301	364	175	85	69	47	50	6	28	16	7	0	0	0	0	0	2096
Max	0	0	0	0	0	36	168	340	565	824	927	1029	1067	975	897	732	507	311	121	25	0	0	0	0	7687
n	0	0	0	0	0	210	360	360	360	358	360	360	360	357	358	360	359	360	360	123	0	0	0	0	5005

Daylight Data Recovery: 0.0% missing; 0.2% exceed the 15% QC threshold -- 5013 total daylight measurements.

Instrument: Eppley PSP Serial Number: 13434F3 Calibration Factor: 8.670 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	133	143	268	555	774	600	245	71	16	71	52	32	22	13	6	0	0	0	0	3000
2	0	0	0	0	0	46	343	578	718	755	463	640	407	551	249	425	578	400	134	48	0	0	0	0	6334
3	0	0	0	0	0	58	346	556	477	565	642	608	656	479	682	482	312	117	100	116	0	0	0	0	6195
4	0	0	0	0	0	31	252	532	667	759	809	831	828	669	11	12	98	71	42	19	0	0	0	0	5632
5	0	0	0	0	0	26	338	407	236	672	799	775	759	531	664	426	84	36	23	0	0	0	0	0	6572
6	0	0	0	0	0	30	180	309	425	639	582	514	21	19	100	141	140	26	34	24	0	0	0	0	3184
7	0	0	0	0	0	48	203	387	649	651	364	583	560	44	12	338	421	37	13	10	0	0	0	0	4320
8	0	0	0	0	0	15	171	409	566	527	369	124	522	417	8	64	335	80	8	40	0	0	0	0	3654
9	0	0	0	0	0	32	158	500	618	735	578	755	779	806	647	163	70	22	59	20	0	0	0	0	5943
10	0	0	0	0	0	42	94	149	422	165	470	371	127	3	15	40	425	58	36	16	0	0	0	0	2433
11	0	0	0	0	0	15	108	483	659	740	734	363	414	263	455	13	8	27	30	3 ?	0	0	0	0	4313
12	0	0	0	0	0	23	107	177	285	484	457	357	357	399	445	638	508	354	99	35	0	0	0	0	4726
13	0	0	0	0	0	28	171	408	584	616	642	641	583	719	726	681	606	480	185	25	0	0	0	0	7094
14	0	0	0	0	0	33	280	524	669	748	782	609	401	337	212	1	8	47	42	47	0	0	0	0	4740
15	0	0	0	0	0	42	252	420	540	634	669	510	421	84	65	145	261	4	14	16	0	0	0	0	4075
16	0	0	0	0	0	40	144	201	172	234	731	664	691	672	683	711	497	385	22	54 ?	0	0	0	0	5901
17	0	0	0	0	0	55	121	60	58	387	386	529	208	300	712	287	11	6	3	14	0	0	0	0	3136
18	0	0	0	0	0	54	361	535	694	774	769	653	690	832	815	734	613	381	38	9	0	0	0	0	7951
19	0	0	0	0	0	44	242	288	254	56	76	56	82	487	565	662	597	300	7	7	0	0	0	0	3722
20	0	0	0	0	0	45	290	428	589	742	218	656	648	828	857	768	582	441	26	16	0	0	0	0	7134
21	0	0	0	0	0	52	269	490	596	657	545	615	633	784	538	165	6	9	28	61	0	0	0	0	5449
22	0	0	0	0	0	68	347	574	702	795	810	273	17	16	26	39	53	192	235	24	0	0	0	0	4171
23	0	0	0	0	0	88	132	422	296	221	27	32	58	135	96	34	63	62	136	36	0	0	0	0	1839
24	0	0	0	0	0	101	307	536	622	566	355	283	48	10	20	30	39	54	42	71	0	0	0	0	3085
25	0	0	0	0	0	53	190	533	500	150	789	734	444	208	336	432	519	381	131	24	0	0	0	0	5423
26	0	0	0	0	0	57	99	97	581	721	734	792	809	799	516	178	394	371	82	5	0	0	0	0	6234
27	0	0	0	0	0	29	136	489	296	79	179	211	337	67	25	28	26	32	32	19	18	0	0	0	1972
28	0	0	0	0	0	39	61	36	95	260	17	12	11	15	28	29	32	11	4	0 ?	0	0	0	0	650
29	0	0	0	0	0	29	96	561	706	796	851	850	494	82	65	44	43	38	31	9	0	0	0	0	4694
30	0	0	0	0	0	58	315	412	492	308	32	495	898	54	26	32	84	420	71	25	0	0	0	0	3720
Avg	0	0	0	0	0	47	209	392	491	540	516	493	433	362	318	268	260	164	57	27	0	0	0	0	4577
S D	0	0	0	0	0	25	93	162	193	242	263	248	281	311	298	274	231	170	57	24	0	0	0	0	1751
S/A	0	0	0	0	0	0.53	0.45	0.41	0.39	0.45	0.51	0.5	0.65	0.86	0.94	1.02	0.89	1.04	1	0.89	0	0	0	0	0.38
Min	0	0	0	0	0	15	61	36	58	56	17	12	11	3	8	1	6	4	3	0	0	0	0	0	650
Max	0	0	0	0	0	133	361	578	718	796	851	850	898	832	857	768	613	480	235	116	0	0	0	0	7951
n	0	0	0	0	0	205	360	360	360	360	360	360	360	360	360	360	360	360	360	117	0	0	0	0	5002

Daylight Data Recovery: 0.0% missing; 0.2% exceed the 15% QC threshold -- 5013 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.

Bethune-Cookman College
29.18 N Latitude 81.02 W Longitude 20 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	36	103	159	143	136	297	485	209	110	368	186	101	48	17	1	0	0	0	0	2399
2	0	0	0	0	0	23	71	91	105	140	290	252	276	250	258	227	160	119	54	9	0	0	0	0	2324
3	0	0	0	0	0	23	72	103	198	231	240	285	261	261	212	193	142	86	98	31 ?	0	0	0	0	2436
4	0	0	0	0	0	18	68	102	121	129	146	157	176	207	84	64	256	111	41	5	0	0	0	0	1684
5	0	0	0	0	0	13	69	158	214	256	178	204	223	222	227	201	194	83	39	5	0	0	0	0	2286
6	0	0	0	0	0	10	63	124	182	218	294	237	123	132	363	332	199	66	35	6	0	0	0	0	2385
7	0	0	0	0	0	23	96	122	124	179	296	292	273	97	120	302	241	80	20	1	0	0	0	0	2268
8	0	0	0	0	0	14	63	152	161	224	301	239	336	289	43	233	238	142	18	0	0	0	0	0	2453
9	0	0	0	0	0	25	72	110	145	165	228	208	194	203	255	206	172	62	65	8	0	0	0	0	2118
10	0	0	0	0	0	18	87	199	247	413	313	343	282	44	127	126	241	120	49	5	0	0	0	0	2615
11	0	0	0	0	0	12	86	113	118	151	220	394	413	363	335	79	32	61	38	7	0	0	0	0	2423
12	0	0	0	0	0	13	85	179	297	297	332	346	314	333	289	212	188	149	61	7	0	0	0	0	3102
13	0	0	0	0	0	18	79	146	164	191	233	255	283	212	244	175	145	102	49	6	0	0	0	0	2303
14	0	0	0	0	0	18	67	103	119	135	149	219	321	276	158	5	25	99	54	12	0	0	0	0	1759
15	0	0	0	0	0	19	74	125	171	197	259	334	308	118	153	234	174	15	21	15	0	0	0	0	2216
16	0	0	0	0	0	20	75	169	319	366	272	288	209	189	206	191	162	114	15	0 ?	0	0	0	0	2594
17	0	0	0	0	0	19	98	200	264	416	431	307	351	314	254	235	67	43	27	2	0	0	0	0	3029
18	0	0	0	0	0	20	70	105	125	149	202	175	167	165	158	148	135	115	34	2	0	0	0	0	1769
19	0	0	0	0	0	17	74	149	305	437	539	425	576	530	312	207	160	92	28	3	0	0	0	0	3855
20	0	0	0	0	0	17	67	131	205	250	189	210	166	146	144	157	171	100	31	5	0	0	0	0	1991
21	0	0	0	0	0	18	69	105	154	195	238	231	208	208	218	233	25	24	44	19	0	0	0	0	1990
22	0	0	0	0	0	16	55	83	103	113	192	468	219	90	360	165	228	214	71	3	0	0	0	0	2379
23	0	0	0	0	0	24	78	127	313	381	298	230	467	384	422	345	243	131	81	7	0	0	0	0	3530
24	0	0	0	0	0	23	100	98	136	242	285	315	163	61	111	134	169	158	85	17	0	0	0	0	2098
25	0	0	0	0	0	17	64	96	222	409	165	236	355	312	336	274	183	126	59	7	0	0	0	0	2860
26	0	0	0	0	0	10	99	160	144	145	194	173	186	203	188	247	238	132	69	3	0	0	0	0	2191
27	0	0	0	0	0	9	49	92	175	304	454	492	423	280	128	127	91	85	24	0	0	0	0	0	2736
28	0	0	0	0	0	13	74	112	270	371	159	74	58	83	138	157	144	29	7	1	0	0	0	0	1688
29	0	0	0	0	0	9	47	89	100	120	124	206	349	294	332	186	168	89	34	5	0	0	0	0	2152
30	0	0	0	0	0	15	52	132	179	359	486	420	176	144	164	161	246	146	46	6	0	0	0	0	2730
Avg	0	0	0	0	0	18	74	128	184	244	267	283	269	217	224	191	165	98	44	7	0	0	0	0	2412
S D	0	0	0	0	0	6	15	33	67	105	102	103	110	109	98	73	67	44	23	7	0	0	0	0	502
S/A	0	0	0	0	0	0.32	0.2	0.25	0.37	0.43	0.38	0.36	0.41	0.5	0.44	0.38	0.4	0.45	0.52	1.01	0	0	0	0	0.21
Min	0	0	0	0	0	9	47	83	100	113	124	74	58	44	43	5	25	15	7	0	0	0	0	0	1684
Max	0	0	0	0	0	36	103	200	319	437	539	492	576	530	422	345	256	214	98	31	0	0	0	0	3855
n	0	0	0	0	0	209	360	360	360	360	360	360	360	358	358	360	359	360	358	120	0	0	0	0	5002

Daylight Data Recovery: 0.0% missing; 0.2% exceed the 15% QC threshold -- 5013 total daylight measurements.

Instrument: Eppley PSP Serial Number: 25951F3 Calibration Factor: 7.600 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.