

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - June 1997**

Field: GHI

Hour 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	50	119 ?	?	?	545 ?	?	?	314 ?	377 ?	337 ?	291 ?	188	82 ?	30	0	0	0	0	0	2335 ?
2	0	0	0	0	0	7	76	187	346	400	335	510	493	565	571	370	270	120	58	0	0	0	0	0	4309
3	0	0	0	0	1	60	224	426	642	749	971	951	978	799	795	663	424	198	46	0	0	0	0	0	7926
4	0	0	0	0	0	54	149	332	474	796	906	733	568	745	546	215	78	28	8	0	0	0	0	0	5631
5	0	0	0	0	0	37	138	278	414	793	841	802	718	877	766	527	421	188	51	0	0	0	0	0	6851
6	0	0	0	0	0	22	73	281	309	598	416	994	1003	900	797	639	415	196	53	0	0	0	0	0	6697
7	0	0	0	0	1	52	216	430	641	823	893	959	919	813	590	439	264	181	45	0	0	0	0	0	7266
8	0	0	0	0	1	59	134	305	505	775	916	1023	951	746	808	624	360	165	40	0	0	0	0	0	7414
9	0	0	0	0	0	26	53	131	170	491	437	896	996	685	228	27	22	42	13	0	0	0	0	0	4215
10	0	0	0	0	0	3	23	33	128	102	214	271	435	548	461	351	75	13	48	1	0	0	0	0	2707
11	0	0	0	0	0	4	26	120	310	377	605	808	788	922	667	606	437	238	62	0	0	0	0	0	5972
12	0	0	0	0	1	45	228	426	589	755	700	747	940	208	45	255	217	122	49	1	0	0	0	0	5330
13	0	0	0	0	1	54	206	387	610	803	911	891	936	429	567	552	424	192	50	0	0	0	0	0	7013
14	0	0	0	0	0	29	155	348	455	790	944	1028	984	849	792	493	425	202	58	0	0	0	0	0	7554
15	0	0	0	0	0	60	189	404	569	736	814	960	841	838	437	291	200	86	16	0	0	0	0	0	6444
16	0	0	0	0	0	39	129	168	388	608	694	783	502	807	364	209	420	193	61	0	0	0	0	0	5366
17	0	0	0	0	0	8	31	19	108	570	354	372	820	536	353	367	294	179	74	1	0	0	0	0	4086
18	0	0	0	0	1	64	152	208	539	763	918	1019	979	886	684	623	470	243	61	0	0	0	0	0	7610
19	0	0	0	0	1	51	257 ?	409	645	822	848	913	815	1005	831	516	338	184	43	0	0	0	0	0	7678
20	0	0	0	0	1	55	214	412	549	714	834	821	839	681	681	631	469	400 ?	115 ?	0 ?	0	0	0	0	7416
21	0	0	0	0	0	32	117	241	292	603	852	751	838	730	520	513	265	173	56	1	0	0	0	0	5983
22	0	0	0	0	0	21	130	327	547	730	904	894	730	688	704	590	347	198	56	1	0	0	0	0	6867
23	0	0	0	0	1	39	185	390	598	701	880	999	908	757	774	620	355	210	43	2	0	0	0	0	7462
24	0	0	0	0	1	58	213	378	576	768	918	1026	961	651	446	382	210	53	26	1	0	0	0	0	6668
25	0	0	0	0	0	51	120	310	749	710	895	1024	968	933	708	413	260	176	36	1	0	0	0	0	7355
26	0	0	0	0	0	33	164	236	403	417	556	867	907	962	840	448	244	47	21	0	0	0	0	0	6145
27	0	0	0	0	0	44	190	363	586	757	817	973	1022	949	799	620	426	221	46	0	0	0	0	0	7813
28	0	0	0	0	0	44	188	374	578	730	812	854	972	745	571	394	112	19	0 ?	0	0	0	0	0	6393
29	0	0	0	0	0	14	80	266	55	127	601	1054	907	1017	775	619	361	305	67	1	0	0	0	0	6251
30	0	0	0	0	0	39	229	403	639	803	873	887	766	626	537	603	334	154	81	2	0	0	0	0	6975
Avg	0	0	0	0	0	39	147	296	463	645	747	856	827	743	600	463	304	160	47	0	0	0	0	0	6258
S D	0	0	0	0	0	18	65	116	179	190	210	187	185	188	196	159	123	86	23	1	0	0	0	0	1440
S/A	0	0	0	0	0.73	0.47	0.44	0.39	0.39	0.29	0.28	0.22	0.22	0.25	0.33	0.34	0.4	0.53	0.48	1.32	0	0	0	0	0.23
Min	0	0	0	0	0	3	23	19	55	102	214	271	314	208	45	27	22	13	0	0	0	0	0	0	2335
Max	0	0	0	0	1	64	257	430	749	823	971	1054	1022	1017	840	663	470	400	115	2	0	0	0	0	7926

Daylight Data Recovery: 0% missing; 25% exceed the 15% QC threshold -- 26942 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: MV
Latitude: 33.50° N
Longitude: 90.33° W
Elevation: 52 Meters AMSL
Time Zone: -6

Instrument: PSP
Calibration Constant: 8.50 uV/Wm-2
Serial Number: 18038F3
Calibration Date: 9/13/96

Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - June 1997

Field: DNI

Hour 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	2	4 ?	?	?	12 ?	?	?	4 ?	2 ?	3 ?	3 ?	7	10 ?	1	0	0	0	0	0	48 ?	
2	0	0	0	0	0	0	0	2	6	3	3	46	108	108	257	75	52	32	173	0	0	0	0	0	867	
3	0	0	0	0	0	130	415	536	628	552	666	596	591	442	557	566	446	214	39	0	0	0	0	0	6379	
4	0	0	0	0	0	47	12	128	134	482	425	235	74	221	169	27	0	0	0	0	0	0	0	0	1954	
5	0	0	0	0	0	12	24	16	59	378	306	214	134	431	505	374	397	264	105	0	0	0	0	0	3218	
6	0	0	0	0	0	0	0	40	15	245	79	567	572	517	569	549	455	259	103	0	0	0	0	0	3971	
7	0	0	0	0	0	84	357	525	584	614	557	577	507	439	259	144	87	106	10	0	0	0	0	0	4851	
8	0	0	0	0	0	9	1	9	168	522	585	623	529	387	573	527	334	177	32	0	0	0	0	0	4473	
9	0	0	0	0	0	1	1	2	2	104	38	430	474	198	44 ?	0	0	0	0	0	0	0	0	0	1293	
10	0	0	0	0	0	0	0	0	2	1	3	5	13	47	26	38	0	0	0	0	0	0	0	0	136	
11	0	0	0	0	0	0	0	2	48	43	199	427	399	510	353	490	494	437	184	2	0	0	0	0	3589	
12	0	0	0	0	0	31	427	559	510	511	367	262	533	9	0	40	5	7	3	4	0	0	0	0	3268	
13	0	0	0	0	0	71	320	353	492	612	561	422	485	25	135	331	469	279	84	0	0	0	0	0	4641	
14	0	0	0	0	0	7	103	182	118	547	651	785	725	606	581	397	534	408	241	0	0	0	0	0	5885	
15	0	0	0	0	0	92	307	464	432	464	416	516	322	317	60	3	1	0	0	0	0	0	0	0	3395	
16	0	0	0	0	0	1	8	4	38	152	173	308	24	359	88	35	418	272	77	0	0	0	0	0	1956	
17	0	0	0	0	0	0	0	0	1	218	4	37	313	55	6	42	44	51	133	0	0	0	0	0	905	
18	0	0	0	0	0	154	66	7	312	518	605	774	619	550	506	594	668	537	276	6	0	0	0	0	6190	
19	0	0	0	0	0	77	508 ?	655	729	751	580	577	476	632	649	369	224	208	61	0	0	0	0	0	6496	
20	0	0	0	0	0	75	327	413	282	377	463	442	443	322	377	378	312	301 ?	40 ?	0	0	0	0	0	4552	
21	0	0	0	0	0	1	2	18	25	291	472	322	391	321	185	275	76	102	30	0	0	0	0	0	2511	
22	0	0	0	0	0	2	74	212	315	404	462	384	281	212	306	341	199	125	14	0	0	0	0	0	3331	
23	0	0	0	0	0	5	138	349	444	438	517	559	474	363	457	452	179	50	2	0	0	0	0	0	4427	
24	0	0	0	0	0	63	279	379	472	569	609	595	536	291	181	160	97	2	7	0	0	0	0	0	4239	
25	0	0	0	0	0	67	30	60	520	364	475	661	620	628	434	282	181	228	30	0	0	0	0	0	4581	
26	0	0	0	0	0	2	46	20	100	31	148	366	449	637	554	242	120	1	0	0	0	0	0	0	2717	
27	0	0	0	0	0	59	232	206	375	440	457	625	655	629	594	523	434	306	59	0	0	0	0	0	5594	
28	0	0	0	0	0	46	223	297	466	473	421	410	563	361	251	137	0	0	0	0	0	0	0	0	3647	
29	0	0	0	0	0	0	0	88	0	1	95	553	459	563	535	490	259	360	148	1	0	0	0	0	3553	
30	0	0	0	0	0	17	274	328	615	722	645	518	322	224	245	537	204	2	126	3	0	0	0	0	4783	
Avg	0	0	0	0	0	35	139	202	272	361	379	443	403	347	315	281	223	158	66	1	0	0	0	0	3582	
S D	0	0	0	0	0	42	159	207	234	225	219	200	200	201	211	202	195	154	76	1	0	0	0	0	1754	
S/A	0	0	0	0	5.22	1.2	1.14	1.03	0.86	0.62	0.58	0.45	0.5	0.58	0.67	0.72	0.87	0.98	1.15	2.6	0	0	0	0	0.49	
Min	0	0	0	0	0	0	0	0	0	1	3	5	4	2	0	0	0	0	0	0	0	0	0	0	0	48
Max	0	0	0	0	0	154	508	655	729	751	666	785	725	637	649	594	668	537	276	6	0	0	0	0	0	6496

Daylight Data Recovery: 0% missing; 25% exceed the 15% QC threshold -- 26942 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: MV
Latitude: 33.50° N
Longitude: 90.33° W
Elevation: 52 Meters AMSL
Time Zone: -6

Instrument: NIP
Calibration Constant: 7.46 uV/Wm-2
Serial Number: 25792E6
Calibration Date: 9/13/96

Diffuse Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - June 1997

Field: DHI

Hour 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	44	110 ?	?	?	469 ?	?	?	253 ?	360 ?	301 ?	249 ?	155	67 ?	26	0	0	0	0	0	2033 ?
2	0	0	0	0	0	6	66	161	307	348	298	419	343	440	328	302	218	102	44	0	0	0	0	0	3381
3	0	0	0	0	0	40	102	149	179	242	262	279	311	330	284	245	191	135	43	0	0	0	0	0	2792
4	0	0	0	0	0	50	131	265	367	351	452	463	458	495	367	183	68	26	7	0	0	0	0	0	3683
5	0	0	0	0	0	33	119	248	365	434	495	539	548	410	295	255	214	119	41	0	0	0	0	0	4115
6	0	0	0	0	0	19	63	252	275	362	323	356	354	343	275	227	173	121	43	0	0	0	0	0	3187
7	0	0	0	0	1	42	117	164	211	254	292	299	352	338	343	325	220	151	41	0	0	0	0	0	3150
8	0	0	0	0	1	52	116	274	375	289	297	324	358	343	274	230	189	111	37	0	0	0	0	0	3270
9	0	0	0	0	0	23	46	113	147	381	371	420	439	456	193	24	19	36	11	0	0	0	0	0	2677
10	0	0	0	0	0	3	20	28	109	86	184	239	393	475	408	305	64	11	42	1	0	0	0	0	2368
11	0	0	0	0	0	3	23	103	263	335	394	319	312	366	323	227	173	108	45	0	0	0	0	0	2996
12	0	0	0	0	1	32	97	128	204	273	305	438	318	178	39	215	191	109	43	1	0	0	0	0	2572
13	0	0	0	0	1	45	114	208	247	237	306	401	374	375	415	292	165	100	39	0	0	0	0	0	3320
14	0	0	0	0	0	25	113	246	359	268	240	137	151	195	241	184	130	80	35	0	0	0	0	0	2404
15	0	0	0	0	0	49	106	166	232	300	352	367	461	476	352	248	171	74	14	0	0	0	0	0	3369
16	0	0	0	0	0	34	118	147	336	459	495	413	433	417	256	168	195	125	55	0	0	0	0	0	3652
17	0	0	0	0	0	7	28	17	94	345	318	311	447	478	321	325	264	164	63	1	0	0	0	0	3181
18	0	0	0	0	1	37	127	186	287	273	266	142	271	295	206	168	101	78	34	0	0	0	0	0	2471
19	0	0	0	0	1	34	76 ?	91	99	123	229	260	274	336	224	225	206	130	32	0	0	0	0	0	2340
20	0	0	0	0	1	44	111	188	332	342	330	310	315	321	308	321	283	276 ?	?	0 ?	0	0	0	0	3482
21	0	0	0	0	0	28	100	209	256	319	325	361	367	360	323	281	210	136	50	1	0	0	0	0	3325
22	0	0	0	0	0	19	103	202	285	325	383	423	370	430	383	296	219	150	50	1	0	0	0	0	3639
23	0	0	0	0	1	35	136	185	238	264	295	332	333	338	312	249	236	194	41	2	0	0	0	0	3189
24	0	0	0	0	1	49	133	179	218	235	277	360	350	331	262	249	151	46	23	1	0	0	0	0	2863
25	0	0	0	0	0	44	109	258	352	331	353	261	248	246	283	219	150	97	29	1	0	0	0	0	2980
26	0	0	0	0	0	30	150	214	317	355	381	443	387	271	310	244	157	41	19	0	0	0	0	0	3321
27	0	0	0	0	0	38	123	252	287	320	301	253	267	261	222	206	177	119	36	0	0	0	0	0	2864
28	0	0	0	0	0	39	125	218	231	286	358	379	329	347	337	278	96	17	0 ?	0	0	0	0	0	3040
29	0	0	0	0	0	13	70	215	48	109	465	404	360	393	256	241	209	189	52	1	0	0	0	0	3024
30	0	0	0	0	0	36	144	234	175	128	180	287	383	369	298	192	198	135	71	2	0	0	0	0	2833
Avg	0	0	0	0	0	32	100	183	248	295	329	343	352	359	291	239	173	108	37	0	0	0	0	0	3051
S D	0	0	0	0	0	14	35	65	88	93	79	89	77	79	72	60	58	56	16	0	0	0	0	0	458
S/A	0	0	0	0	0.63	0.45	0.35	0.36	0.36	0.31	0.24	0.26	0.22	0.22	0.25	0.25	0.33	0.52	0.43	1.22	0	0	0	0	0.15
Min	0	0	0	0	0	3	20	17	48	86	180	137	151	178	39	24	19	11	0	0	0	0	0	0	2033
Max	0	0	0	0	1	52	150	274	375	469	495	539	548	495	415	325	283	276	71	2	0	0	0	0	4115

Daylight Data Recovery: 0% missing; 27% exceed the 15% QC threshold -- 26942 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: MV
Latitude: 33.50° N
Longitude: 90.33° W
Elevation: 52 Meters AMSL
Time Zone: -6

Instrument: PSP
Calibration Constant: 9.04 uV/Wm-2
Serial Number: 25818F3
Calibration Date: 9/13/96