

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - July 1998**

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	47	201	393	587	757	868	928	941	745	536	100	1 ?	10	22	1	0	0	0	0	6138
2	0	0	0	0	0	54	176 ?	255	538	702	726	945	956	891	760	583	448	228	40	0	0	0	0	0	7301
3	0	0	0	0	0	47	223	430	593	740	926	945	976	915	752	607	284	199	52	2	0	0	0	0	7689
4	0	0	0	0	0	48	204	376	542	638	817	922	848	825	415	513	429	220	61	1	0	0	0	0	6858
5	0	0	0	0	0	44	193	388	581	749	864	815	883	839	735	414	435	194	19	1	0	0	0	0	7154
6	0	0	0	0	0	45	195	382	571	740	856	809	822	802	689	599	403	215	59	1	0	0	0	0	7187
7	0	0	0	0	0	45	194	390	587	753	879	882	949	906	773	617	470	98	57	2	0	0	0	0	7600
8	0	0	0	0	0	39	183	372	564	732	831	870	940	868	753	588	404	205	58	0	0	0	0	0	7407
9	0	0	0	0	0	34	138	277	522	646	842	825	859	664	747	583	389	180	13	0	0	0	0	0	6721
10	0	0	0	0	0	38	176	363	555	727	848	911	921	866	738	581	303	7	14	1	0	0	0	0	7048
11	0	0	0	0	0	5	70	322	472	577	657	222	675	697	494	468	298	77	10	0	0	0	0	0	5044
12	0	0	0	0	0	1	11	55	217	97	167	318	192	260	506	270	275	71	16	0	0	0	0	0	2458
13	0	0	0	0	0	2	43	67	113	187	299	295	280	273	334	281	339	102	25	0	0	0	0	0	2641
14	0	0	0	0	0	28	61	123	181	373	563	657	701	512	277	352	287	230	25	0	0	0	0	0	4370
15	0	0	0	0	0	6	51	236	537	564	667	917	848	753	776	522	289	208	31	0	0	0	0	0	6405
16	0	0	0	0	0	33	143	339	461	716	825	500	852	650	497	521	397	208	51	0	0	0	0	0	6194
17	0	0	0	0	0	33	164	353	557	659	706	820	903	897	795	618	364	215	52	0	0	0	0	0	7137
18	0	0	0	0	0	39	190	389	586	755	876	950	944	880	775	603	413	218	50	0	0	0	0	0	7670
19	0	0	0	0	0	35	178	368	557	718	810	644	828	649	783	607	420	202	52	0	0	0	0	0	6851
20	0	0	0	0	0	33	167	363	560	739	583	514	429	882	766	592	396	196	44	0	0	0	0	0	6264
21	0	0	0	0	0	30	165	356	557	740	853	849	941	875	736	576	376	131	16	1	0	0	0	0	7200
22	0	0	0	0	0	20	128	160	200	535	819	788	825	896	788	592	406	207	43	0	0	0	0	0	6405
23	0	0	0	0	0	26	163	347	557	727	844	919	914	813	724	533	358	35	3	0	0	0	0	0	6964
24	0	0	0	0	0	25	165	342	564	739	754	609	818	852	785	598	463	92	1	0	0	0	0	0	6807
25	0	0	0	0	0	6	52	101	77	151	273	380	275	178	171	234	303	430 ?	75	0	0	0	0	0	2706
26	0	0	0	0	0	25	176	367	532	708	813	895	926	878	754	597	295	185	64	0	0	0	0	0	7215
27	0	0	0	0	0	19	108	278	482	601	671	594	861	775	700	488	381	207	58	0	0	0	0	0	6224
28	0	0	0	0	0	9	138	342	543	717	850	913	863	826	698	573	380	185	38	0	0	0	0	0	7075
29	0	0	0	0	0	16	107	316	477	615	720	852	912	856	672	593	388	187	41	0	0	0	0	0	6752
30	0	0	0	0	0	14	106	306	544	695	819	889	927	877	763	596	408	205	42	0	0	0	0	0	7190
31	0	0	0	0	0	14	112	277	585	682	851	915	921	859	738	573	380	182	36	0	0	0	0	0	7123
Avg	0	0	0	0	0	28	141	304	484	628	738	751	804	757	659	515	361	172	38	0	0	0	0	0	6381
S D	0	0	0	0	0	15	55	100	149	178	184	214	209	194	165	130	86	81	19	0	0	0	0	0	1416
S/A	0	0	0	0	1.93	0.55	0.39	0.33	0.31	0.28	0.25	0.28	0.26	0.26	0.25	0.25	0.24	0.47	0.52	1.31	0	0	0	0	0.22
Min	0	0	0	0	0	1	11	55	77	97	167	222	192	178	171	100	1	7	1	0	0	0	0	0	2458
Max	0	0	0	0	0	54	223	430	593	757	926	950	976	915	795	618	470	430	75	2	0	0	0	0	7689

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 5264 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 - July 1998**

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	67	344	505	611	676	665	657	618	417	270	28	0	0	1	0	0	0	0	0	4859
2	0	0	0	0	0	78	132 ?	80	350	420	342	600	704	745	656	615	620	413	80	0	0	0	0	0	5836
3	0	0	0	0	0	109	447	609	651	696	712	657	720	744	667	653	283	291	122	1	0	0	0	0	7361
4	0	0	0	0	0	97	379	418	420	322	502	502	453	554	225	500	595	368	151	0	0	0	0	0	5484
5	0	0	0	0	0	56	300	496	602	657	620	462	537	613	595	301	508	216	6	0	0	0	0	0	5969
6	0	0	0	0	0	86	356	490	599	662	680	566	547	547	553	603	486	319	100	0	0	0	0	0	6593
7	0	0	0	0	0	80	348	515	619	671	692	612	694	643	613	612	488	44	49	0	0	0	0	0	6680
8	0	0	0	0	0	44	264	418	522	583	475	524	629	622	598	536	465	299	91	0	0	0	0	0	6069
9	0	0	0	0	0	16	25	77	395	312	485	317	329	271	575	500	234	57	0	0	0	0	0	0	3592
10	0	0	0	0	0	35	233	425	541	608	638	650	665	628	574	482	209	0 ?	1	0	0	0	0	0	5687
11	0	0	0	0	0	0	3	298	292	174	221	1	186	279	196	311	253	16	0	0	0	0	0	0	2230
12	0	0	0	0	0	0	0	1	4	1	2	3	1	3	65	18	41	0	0	0	0	0	0	0	138
13	0	0	0	0	0	0	0	0	0	2	4	4	3	3	7	4	171	3	0	0	0	0	0	0	200
14	0	0	0	0	0	1	1	1	2	13	51	88	129	112	1	64	33	186	0	0	0	0	0	0	679
15	0	0	0	0	0	0	1	65	323	274	357	566	486	450	651	441	173	273	42	0	0	0	0	0	4102
16	0	0	0	0	0	44	78	278	284	494	494	122	443	370	233	392	423	285	57	0	0	0	0	0	3996
17	0	0	0	0	0	42	192	339	491	475	438	532	648	693	736	673	472	422	188	0	0	0	0	0	6343
18	0	0	0	0	0	114	471	651	743	787	799	803	757	738	718	672	624	504	220	0	0	0	0	0	8600
19	0	0	0	0	0	83	360	541	621	642	603	368	504	372	646	621	557	391	181	0	0	0	0	0	6490
20	0	0	0	0	0	72	307	475	579	605	273	165	136	612	626	596	503	330	112	0	0	0	0	0	5391
21	0	0	0	0	0	43	244	393	494	586	622	518	592	608	550	498	290	6 ?	1	0	0	0	0	0	5445
22	0	0	0	0	0	5	89	25	10	159	446	399	419	609	608	550	517	330	82	0	0	0	0	0	4251
23	0	0	0	0	0	34	240	365	521	588	600	622	593	533	525	477	374	0	0	0	0	0	0	0	5471
24	0	0	0	0	0	29	208	308	532	608	394	144	400	573	628	379	280	25	0	0	0	0	0	0	4511
25	0	0	0	0	0	2	1	0	0	1	3	8	2	1	1	2	79	493 ?	26	0	0	0	0	0	617
26	0	0	0	0	0	28	332	474	444	495	575	647	698	705	616	496	182	153	82	0	0	0	0	0	5927
27	0	0	0	0	0	0	41	182	314	350	275	141	399	408	449	353	389	260	63	0	0	0	0	0	3624
28	0	0	0	0	0	1	138	384	530	620	676	678	430	561	517	543	434	279	57	0	0	0	0	0	5847
29	0	0	0	0	0	2	41	266	316	295	276	435	651	657	504	528	468	282	71	0	0	0	0	0	4795
30	0	0	0	0	0	1	115	356	575	624	670	693	742	743	722	684	620	443	116	0	0	0	0	0	7105
31	0	0	0	0	0	2	18	193	436	375	661	679	692	674	637	581	488	302	53	0	0	0	0	0	5793
Avg	0	0	0	0	0	38	184	311	414	444	460	425	478	500	483	442	363	225	63	0	0	0	0	0	4829
S D	0	0	0	0	0	37	150	195	212	231	226	247	228	222	227	209	184	164	62	0	0	0	0	0	2098
S/A	0	0	0	0	0	0.97	0.81	0.63	0.51	0.52	0.49	0.58	0.48	0.45	0.47	0.47	0.51	0.73	0.98	3.6	0	0	0	0	0.43
Min	0	0	0	0	0	0	0	0	0	1	2	1	1	1	1	2	0	0	0	0	0	0	0	0	138
Max	0	0	0	0	0	114	471	651	743	787	799	803	757	745	736	684	624	504	220	1	0	0	0	0	8600

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 5264 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 - July 1998

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	38	103	149	173	190	237	264	313	345	302	76	1	8	19	1	0	0	0	0	2220
2	0	0	0	0	0	44	147	197	305	338	389	341	251	183	203	164	141	107	30	0	0	0	0	0	2840
3	0	0	0	0	0	34	99	136	151	160	254	285	251	204	181	153	156	119	42	1	0	0	0	0	2225
4	0	0	0	0	0	34	96	169	255	353	334	407	380	285	203	176	128	111	45	1	0	0	0	0	2975
5	0	0	0	0	0	35	107	148	175	200	274	345	339	249	230	208	182	127	17	1	0	0	0	0	2635
6	0	0	0	0	0	34	99	147	169	185	207	232	265	274	217	179	155	120	49	1	0	0	0	0	2330
7	0	0	0	0	0	35	98	143	171	192	222	268	244	289	250	194	217	88	51	2	0	0	0	0	2465
8	0	0	0	0	0	33	111	172	213	245	381	332	303	272	241	217	171	117	49	0	0	0	0	0	2858
9	0	0	0	0	0	31	122	237	252	395	388	502	536	408	265	245	276	158	12	0	0	0	0	0	3825
10	0	0	0	0	0	34	115	166	199	225	249	258	256	271	253	255	192	6	12	0	0	0	0	0	2492
11	0	0	0	0	0	4	62	182	289	438	459	196	472	440	327	256	173	68	9	0	0	0	0	0	3374
12	0	0	0	0	0	1	10	49	191	87	149	283	173	233	429	246	254	65	16	0	0	0	0	0	2186
13	0	0	0	0	0	2	38	61	103	166	265	264	252	245	298	248	251	95	23	0	0	0	0	0	2310
14	0	0	0	0	0	25	54	110	162	327	490	570	560	381	248	306	249	165	22	0	0	0	0	0	3668
15	0	0	0	0	0	6	46	193	321	340	334	359	369	332	236	223	206	137	26	0	0	0	0	0	3128
16	0	0	0	0	0	29	127	210	278	312	367	371	419	307	307	262	198	133	47	0	0	0	0	0	3367
17	0	0	0	0	0	30	123	208	247	281	304	299	263	248	187	166	144	99	37	0	0	0	0	0	2637
18	0	0	0	0	0	30	72	93	106	118	136	155	194	183	176	150	110	76	31	0	0	0	0	0	1630
19	0	0	0	0	0	29	92	128	163	206	261	279	329	296	249	195	153	95	37	0	0	0	0	0	2513
20	0	0	0	0	0	27	97	156	197	263	338	352	286	322	258	202	162	112	36	0	0	0	0	0	2807
21	0	0	0	0	0	27	111	187	248	275	289	346	371	313	288	253	243	116	14	1	0	0	0	0	3082
22	0	0	0	0	0	17	108	138	184	392	408	396	417	328	287	224	158	118	35	0	0	0	0	0	3212
23	0	0	0	0	0	23	107	183	216	245	273	294	316	305	288	215	173	31	3	0	0	0	0	0	2672
24	0	0	0	0	0	23	118	201	222	244	375	458	417	315	269	334	330	78	1	0	0	0	0	0	3384
25	0	0	0	0	0	5	44	87	66	132	239	342	243	156	150	207	262	258	51	0	0	0	0	0	2245
26	0	0	0	0	0	22	95	158	245	305	275	255	232	214	239	262	205	150	56	0	0	0	0	0	2713
27	0	0	0	0	0	16	95	189	264	297	395	440	450	371	313	242	185	134	51	0	0	0	0	0	3442
28	0	0	0	0	0	8	99	164	192	206	213	232	415	279	264	201	169	107	33	0	0	0	0	0	2581
29	0	0	0	0	0	14	93	188	265	346	432	385	257	232	242	238	160	109	35	0	0	0	0	0	2996
30	0	0	0	0	0	13	75	139	169	183	189	195	184	174	159	133	107	81	30	0	0	0	0	0	1831
31	0	0	0	0	0	13	99	169	296	347	223	228	220	211	198	175	140	98	30	0	0	0	0	0	2448
Avg	0	0	0	0	0	23	92	157	209	258	302	320	322	280	250	213	182	106	31	0	0	0	0	0	2745
S D	0	0	0	0	0	12	29	43	61	87	89	91	99	68	56	51	60	46	15	0	0	0	0	0	514
S/A	0	0	0	0	1.98	0.51	0.32	0.27	0.29	0.34	0.29	0.29	0.31	0.24	0.22	0.24	0.33	0.44	0.49	1.27	0	0	0	0	0.19
Min	0	0	0	0	0	1	10	49	66	87	136	155	173	156	150	76	1	6	1	0	0	0	0	0	1630
Max	0	0	0	0	0	44	147	237	321	438	490	570	560	440	429	334	330	258	56	2	0	0	0	0	3825

Daylight Data Recovery: 0% missing; 1% exceed the 15% QC threshold -- 5264 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