

**Global Solar Radiation on a Horizontal Surface  
Hourly Integrated and Daily Totals  
Watt-Hours per Square Meter  
Mississippi Valley State Unive - November 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	0	11	104	271	452	523	525	405 ?	293	187	144	41	0	0	0	0	0	0	0	2956
2	0	0	0	0	0	0	7	115 ?	341 ?	472 ?	548	644 ?	458 ?	330	326	124	27	0	0	0	0	0	0	0	3394
3	0	0	0	0	0	0	19	166	324	506	519 ?	571 ?	377	271	203	136	41	0	0	0	0	0	0	0	3132
4	0	0	0	0	0	0	14	98	162	224	307	398	539 ?	412	340	204	39	0	0	0	0	0	0	0	2737
5	0	0	0	0	0	0	6	72	141	206	335	390	574	559	414	232	59	0	0	0	0	0	0	0	2990
6	0	0	0	0	0	0	16	152	297 ?	490	612	657	639	552	406	226	44	0	0	0	0	0	0	0	4090
7	0	0	0	0	0	0	5	62	169	418	399	403	471	239	202	170	21	0	0	0	0	0	0	0	2559
8	0	0	0	0	0	0	1	21	25	68	130	250	202	162	105	50	20	0	0	0	0	0	0	0	1033
9	0	0	0	0	0	0	2	27	75	216	326	314	270	284	332	150	51	0	0	0	0	0	0	0	2048
10	0	0	0	0	0	0	9	5 ?	17	184	160	113	70	118	116	164	66	0	0	0	0	0	0	0	1023
11	0	0	0	0	0	0	11	96 ?	254	472 ?	595 ?	637	623	538	392	261 ?	39	0	0	0	0	0	0	0	3918
12	0	0	0	0	0	0	8	122	195	118	69	117	62	47	51	31	8	0	0	0	0	0	0	0	827
13	0	0	0	0	0	0	5	71	99	181	234	282	220	140	118	64	3	0	0	0	0	0	0	0	1416
14	0	0	0	0	0	0	0	13	31	39	47	38	28	33	32	32	6	0	0	0	0	0	0	0	300
15	0	0	0	0	0	0	1	14	43	76	123	215	211	163	186	117	40	0	0	0	0	0	0	0	1189
16	0	0	0	0	0	0	7	89	320 ?	429	461 ?	560 ?	565	507 ?	190 ?	97	20	0	0	0	0	0	0	0	3246 ?
17	0	0	0	0	0	0	5	63	173	289	447	581 ?	552	480	359	260 ?	37	0	0	0	0	0	0	0	3245
18	0	0	0	0	0	0	4	65 ?	236 ?	250	349	369	303	185	139	152	39	0	0	0	0	0	0	0	2090
19	0	0	0	0	0	0	6	70	377 ?	335 ?	420 ?	479 ?	548	295	151	103	23	0	0	0	0	0	0	0	2806 ?
20	0	0	0	0	0	0	1	21	36	55	95	305	209	207	276	231 ?	34	0	0	0	0	0	0	0	1470
21	0	0	0	0	0	0	1	44	187	307	130	111	106	94	130	146	34	0	0	0	0	0	0	0	1291
22	0	0	0	0	0	0	5	75 ?	289	440	547	588	569	491	349	176 ?	28	0 ?	0	0	0	0	0	0	3557
23	0	0	0	0	0	0	3	63	95	113	161	146	101	126	191	99	6	0	0	0	0	0	0	0	1104
24	0	0	0	0	0	0	2	39	137	220	517 ?	568 ?	245 ?	238	249	142 ?	37	0	0	0	0	0	0	0	2394
25	0	0	0	0	0	0	2	56	179	147	146	341	542 ?	?	139	55	16	0	0	0	0	0	0	0	1623
26	0	0	0	0	0	0	2	65 ?	291 ?	423	526	575	564	488	352	209 ?	30	0	0	0	0	0	0	0	3525
27	0	0	0	0	0	0	3	65 ?	269 ?	380	516	576	550	480	382 ?	74 ?	30	0 ?	0	0	0	0	0	0	3324 ?
28	0	0	0	0	0	0	1	56 ?	134 ?	404 ?	516 ?	531 ?	527 ?	493 ?	322 ?	84 ?	26	0	0	0	0	0	0	0	3095 ?
29	0	0	0	0	0	0	1	61	?	?	?	?	?	?	305 ?	198 ?	21	0	0	0	0	0	0	0	585 ?
30	0	0	0	0	0	0	1	44	212 ?	184	105	54	148	153	177	149 ?	27	0	0	0	0	0	0	0	1254
Avg	0	0	0	0	0	0	5	67	185	279	340	391	368	299	237	143	30	0	0	0	0	0	0	0	2274
S D	0	0	0	0	0	0	5	38	104	147	184	193	196	166	110	65	15	0	0	0	0	0	0	0	1077
S/A	0	0	0	0	0	0	0.88	0.57	0.56	0.53	0.54	0.49	0.53	0.56	0.46	0.45	0.48	3.05	0	0	0	0	0	0	0.47
Min	0	0	0	0	0	0	0	5	17	39	47	38	28	33	32	31	3	0	0	0	0	0	0	0	300
Max	0	0	0	0	0	0	19	166	377	506	612	657	639	559	414	261	66	0	0	0	0	0	0	0	4090

Daylight Data Recovery: 0% missing; 12% exceed the 15% QC threshold -- 3767 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 - November 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	0	0	6	29	35	37	26	12 ?	9	2	4	0	0	0	0	0	0	0	0	159
2	0	0	0	0	0	0	0	18 ?	48 ?	45 ?	47	49 ?	29 ?	14	16	4	0	0	0	0	0	0	0	0	270
3	0	0	0	0	0	0	9	58	84	81	63 ?	57 ?	24	6	3	5	3	0	0	0	0	0	0	0	392
4	0	0	0	0	0	0	4	15	1	1	4	12	48 ?	17	30	23	2	0	0	0	0	0	0	0	157
5	0	0	0	0	0	0	0	0	0	0	2	3	90	102	61	53	35	0	0	0	0	0	0	0	345
6	0	0	0	0	0	0	18	106	158 ?	167	167	168	155	126	83	69	33	0	0	0	0	0	0	0	1249
7	0	0	0	0	0	0	0	0	8	141	43	29	77	2	4	43	2	0	0	0	0	0	0	0	350
8	0	0	0	0	0	0	0	0	0	0	2	3	1	1	0	0	0	0	0	0	0	0	0	0	7
9	0	0	0	0	0	0	0	1	1	7	15	9	10	40	85	28	22	0	0	0	0	0	0	0	217
10	0	0	0	0	0	0	0	0	0	18	5	1	0	1	1	71	86	0	0	0	0	0	0	0	183
11	0	0	0	0	0	0	49	142 ?	171	284 ?	324 ?	362	369	330	288	266 ?	137	0	0	0	0	0	0	0	2722
12	0	0	0	0	0	0	2	57	31	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
13	0	0	0	0	0	0	0	1	0	2	4	10	3	0	1	0	0	0	0	0	0	0	0	0	21
14	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
15	0	0	0	0	0	0	0	0	0	0	0	2	1	1	7	10	61	0	0	0	0	0	0	0	83
16	0	0	0	0	0	0	17	140	418 ?	433	430 ?	362 ?	378	389 ?	5 ?	0	2	0	0	0	0	0	0	0	2575 ?
17	0	0	0	0	0	0	0	0	2	55	159	484 ?	484	464	415	391 ?	185	0	0	0	0	0	0	0	2640
18	0	0	0	0	0	0	11	180 ?	150 ?	12	19	16	6	1	0	56	0	0	0	0	0	0	0	0	450
19	0	0	0	0	0	0	1	52	409 ?	153 ?	242 ?	312 ?	316	92	16	33	8	0	0	0	0	0	0	0	1635 ?
20	0	0	0	0	0	0	0	0	0	0	0	18	1	4	121	286 ?	53	0	0	0	0	0	0	0	483
21	0	0	0	0	0	0	3	2	42	66	0	0	0	0	4	116	83	0	0	0	0	0	0	0	314
22	0	0	0	0	0	0	38	372 ?	639	696	723	724	690	639	556	462 ?	220	0	0	0	0	0	0	0	5760
23	0	0	0	0	0	0	7	78	0	0	0	0	0	1	57	6	0	0	0	0	0	0	0	0	149
24	0	0	0	0	0	0	0	0	8	48	609 ?	560 ?	74 ?	58	148	117 ?	91	0	0	0	0	0	0	0	1712
25	0	0	0	0	0	0	0	27	34	6	3	174	523 ?	?	52	0	0	0	0	0	0	0	0	0	819
26	0	0	0	0	0	0	10	291 ?	634 ?	707	748	760	738	700	651	584 ?	262	0	0	0	0	0	0	0	6085
27	0	0	0	0	0	0	7	199 ?	769 ?	723	799	833	768	714	647 ?	267 ?	165	0	0	0	0	0	0	0	5892 ?
28	0	0	0	0	0	0	1	153 ?	79 ?	370 ?	639 ?	647 ?	629 ?	614 ?	550 ?	271 ?	115	0	0	0	0	0	0	0	4069 ?
29	0	0	0	0	0	0	0	95	?	?	?	?	?	?	537 ?	466 ?	69	0	0	0	0	0	0	0	1167 ?
30	0	0	0	0	0	0	1	82	213 ?	28	6	0	2	10	37	182 ?	160	0	0	0	0	0	0	0	720
Avg	0	0	0	0	0	0	6	69	136	141	176	194	187	155	146	127	60	0	0	0	0	0	0	0	1357
S/D	0	0	0	0	0	0	11	93	216	222	264	269	258	241	218	165	74	0	0	0	0	0	0	0	1808
S/A	0	0	0	0	0	0	1.89	1.34	1.59	1.58	1.5	1.39	1.38	1.56	1.49	1.3	1.24	5.39	0	0	0	0	0	0	1.33
Min	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
Max	0	0	0	0	0	0	49	372	769	723	799	833	768	714	651	584	262	0	0	0	0	0	0	0	6085

Daylight Data Recovery: 0% missing; 12% exceed the 15% QC threshold -- 3767 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 - November 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	0	12	97	257	434	470	483	370 ?	276	172	130	37	0	0	0	0	0	0	0	2739
2	0	0	0	0	0	0	6	102 ?	315 ?	418 ?	412 ?	521 ?	431 ?	286	249 ?	115	25	0	0	0	0	0	0	0	2882 ?
3	0	0	0	0	0	0	18	149	357 ?	?	427 ?	464 ?	326 ?	251	192	126	39	0	0	0	0	0	0	0	2350 ?
4	0	0	0	0	0	0	14	85	150	210	290	378	491 ?	383	310 ?	187	35	0	0	0	0	0	0	0	2534
5	0	0	0	0	0	0	6	68	133	194	308	360	419 ?	?	367 ?	188 ?	54	0	0	0	0	0	0	0	2098 ?
6	0	0	0	0	0	0	15	142	243 ?	?	?	?	?	374 ?	191 ?	41	0	0	0	0	0	0	0	0	1006 ?
7	0	0	0	0	0	0	4	58	156	332 ?	365	371	409	225	188	145	19	0	0	0	0	0	0	0	2273
8	0	0	0	0	0	0	1	19	23	64	121	230	187	149	97	46	19	0	0	0	0	0	0	0	956
9	0	0	0	0	0	0	2	25	70	205	307	289	251	215	257 ?	139	48	0	0	0	0	0	0	0	1808
10	0	0	0	0	0	0	9	4	16	168	148	107	68	112	111	153	44	0	0	0	0	0	0	0	940
11	0	0	0	0	0	0	11	88 ?	237	342 ?	?	?	?	?	?	?	38	0	0	0	0	0	0	0	716 ?
12	0	0	0	0	0	0	7	115	183	107	64	109	58	44	48	29	7	0	0	0	0	0	0	0	771
13	0	0	0	0	0	0	4	68	92	170	217	268	205	130	110	59	3	0	0	0	0	0	0	0	1326
14	0	0	0	0	0	0	0	12	29	37	44	36	27	31	30	30	6	0	0	0	0	0	0	0	281
15	0	0	0	0	0	0	1	13	40	71	115	201	198	153	173	110	38	0	0	0	0	0	0	0	1113
16	0	0	0	0	0	0	7	79	?	?	?	466 ?	418 ?	?	176 ?	90	19	0	0	0	0	0	0	0	1253 ?
17	0	0	0	0	0	0	5	59	171	232	345 ?	?	?	?	?	?	36	0	0	0	0	0	0	0	847 ?
18	0	0	0	0	0	0	4	60 ?	201 ?	236	337	354	293	170	131	135	38	0	0	0	0	0	0	0	1959
19	0	0	0	0	0	0	6	66	261 ?	323 ?	315 ?	267 ?	403 ?	255 ?	142	97	22	0	0	0	0	0	0	0	2157 ?
20	0	0	0	0	0	0	1	20	34	51	89	278	192	195	247	180 ?	33	0	0	0	0	0	0	0	1319
21	0	0	0	0	0	0	1	42	169	269	122	104	99	89	123	139	33	0	0	0	0	0	0	0	1190
22	0	0	0	0	0	0	5	71 ?	?	?	?	?	?	?	?	92 ?	27	0 ?	?	?	?	?	?	?	195 ?
23	0	0	0	0	0	0	3	59	89	106	150	137	95	117	165	94	6	0	0	0	0	0	0	0	1021
24	0	0	0	0	0	0	2	37	130	210	?	290 ?	228 ?	197	152 ?	134 ?	36	0	0	0	0	0	0	0	1418 ?
25	0	0	0	0	0	0	2	55	141	138	136	280 ?	?	?	101 ?	52	15	0	0	0	0	0	0	0	920 ?
26	0	0	0	0	0	0	2	61 ?	?	?	?	?	?	?	?	96 ?	29	0	0	0	0	0	0	0	188 ?
27	0	0	0	0	0	0	3	66 ?	176 ?	?	?	?	?	?	?	73 ?	26	0 ?	?	?	?	?	?	?	344 ?
28	0	0	0	0	0	0	1	54 ?	128 ?	258 ?	?	?	?	?	?	84 ?	25	0	0	0	0	0	0	0	550 ?
29	0	0	0	0	0	0	1	57	?	?	?	?	?	?	?	77 ?	20	0	0	0	0	0	0	0	156 ?
30	0	0	0	0	0	0	1	43	160 ?	176	98	50	140	144	165	120 ?	26	0	0	0	0	0	0	0	1122
Avg	0	0	0	0	0	0	5	62	152	207	232	275	253	180	178	111	28	0	0	0	0	0	0	0	1281
S D	0	0	0	0	0	0	5	35	89	109	130	140	140	86	88	45	13	0	0	0	0	0	0	0	774
S/A	0	0	0	0	0	0	0.9	0.56	0.58	0.53	0.56	0.51	0.55	0.48	0.49	0.41	0.45	3.2	0	0	0	0	0	0	0.6
Min	0	0	0	0	0	0	0	4	16	37	44	36	27	31	30	29	3	0	0	0	0	0	0	0	156
Max	0	0	0	0	0	0	18	149	357	434	470	521	491	383	374	191	54	0	0	0	0	0	0	0	2882

Daylight Data Recovery: 0% missing; 30% exceed the 15% QC threshold -- 3767 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