

**Global Solar Radiation on a Horizontal Surface  
Hourly Integrated and Daily Totals  
Watt-Hours per Square Meter  
Mississippi Valley State Univ. - March 2001**

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	3	26	117	213	321	244	373	242	115	116	29	5	0	0	0	0	0	0	1801	
2	0	0	0	0	0	0	1	14	41	75	63	61	121	145	109	118	63	7	0	0	0	0	0	0	818	
3	0	0	0	0	0	0	2	19	26	45	115	127	72	89	74	35	18	6	0	0	0	0	0	0	629	
4	0	0	0	0	0	0	4	40	268	394	543	704	741	432	429	378	154	86	0	0	0	0	0	0	4173	
5	0	0	0	0	0	0	10	157	380	570	722	805	816	761	635	454	242	53	0	0	0	0	0	0	5604	
6	0	0	0	0	0	0	17	165	388	559	680	772	818	728	515	408	214	36	0	0	0	0	0	0	5299	
7	0	0	0	0	0	0	15	156	358	528	685	773	783	724	600	421	217	42	0	0	0	0	0	0	5303	
8	0	0	0	0	0	0	10	111	314	518	678	755	761	617	506	226	91	17	0	0	0	0	0	0	4604	
9	0	0	0	0	0	0	1	31	118	211	382	798	847	790	658	476	256	60	0	0	0	0	0	0	4628	
10	0	0	0	0	0	0	23	179	401	596	745	828	819	669	641	457	254	45	0	0	0	0	0	0	5657	
11	0	0	0	0	0	0	27	162	383	482	524	415	396	362	276	147	81	22	0	0	0	0	0	0	3276	
12	0	0	0	0	0	0	0	2	?	46	?	101	290	533	754	632	460	261	55	0	0	0	0	0	0	3136
13	0	0	0	0	0	0	29	192	415	613	757	839	848	778	649	451	223	53	0	0	0	0	0	0	5847	
14	0	0	0	0	0	0	14	123	231	194	226	204	221	151	80	72	33	5	0	0	0	0	0	0	1553	
15	0	0	0	0	0	0	24	169	412	605	748	829	809	434	263	468	216	66	1	0	0	0	0	0	5044	
16	0	0	0	0	0	0	23	166	252	151	209	308	684	765	682	471	272	72	0	0	0	0	0	0	4056	
17	0	0	0	0	0	0	38	200	352	520	699	653	517	444	359	275	251	56	1	0	0	0	0	0	4364	
18	0	0	0	0	0	0	31	122	398	635	794	865	872	806	675	487	274	68	1	0	0	0	0	0	6030	
19	0	0	0	0	0	0	10	46	193	419	533	581	606	729	634	290	75	23	0	0	0	0	0	0	4139	
20	0	0	0	0	0	0	3	18	77	118	113	178	?	251	?	300	134	70	46	32	1	0	0	0	1341	
21	0	0	0	0	0	0	48	223	450	648	791	869	874	806	645	409	201	76	1	0	0	0	0	0	6041	
22	0	0	0	0	0	0	57	227	424	618	764	816	859	771	383	441	259	48	0	0	0	0	0	0	5666	
23	0	0	0	0	0	0	48	208	432	624	766	836	834	725	613	437	272	73	0	0	0	0	0	0	5869	
24	0	0	0	0	0	0	46	181	267	457	560	482	347	271	276	86	23	3	0	0	0	0	0	0	2999	
25	0	0	0	0	0	0	58	258	487	684	829	912	911	832	670	514	305	89	1	0	0	0	0	0	6551	
26	0	0	0	0	0	0	62	268	356	649	773	860	891	878	526	286	242	68	1	0	0	0	0	0	5861	
27	0	0	0	0	0	0	35	140	228	421	605	675	815	748	446	425	218	67	1	0	0	0	0	0	4824	
28	0	0	0	0	0	0	10	33	108	198	139	?	?	217	?	231	135	83	34	2	0	0	0	0	1190	
29	0	0	0	0	0	0	16	59	107	242	389	435	241	191	247	92	15	11	0	0	0	0	0	0	2045	
30	0	0	0	0	0	0	7	52	63	163	156	?	214	?	307	?	77	?	63	81	47	7	1	0	0	1240
Avg	0	0	0	0	0	0	22	125	268	407	514	591	619	541	426	306	165	43	0	0	0	0	0	0	3986	
S D	0	0	0	0	0	0	19	80	146	210	258	271	265	264	217	163	98	27	1	0	0	0	0	0	1829	
S/A	0	0	0	0	0	2.93	0.83	0.64	0.54	0.52	0.5	0.46	0.43	0.49	0.51	0.53	0.6	0.62	1.39	0	0	0	0	0	0.46	
Min	0	0	0	0	0	0	0	2	2	45	63	61	72	77	63	35	15	3	0	0	0	0	0	0	629	
Max	0	0	0	0	0	0	62	268	487	684	829	912	911	878	682	514	305	89	2	0	0	0	0	0	6551	

Daylight Data Recovery: 0% missing; 2% exceed the 15% QC threshold -- 4301 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:	7.43 uV/Wm-2
Serial Number:	18036F3
Calibration Date:	5/15/1998

**Direct Normal Solar Radiation**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Mississippi Valley State Univ. - March 2001**

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 *
2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	*	*	*	*	*	*	*	*	*	*	?	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *?
13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	24	*	*	*	*	*	*	*	*	24 *
15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
28	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
29	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	?	?	0 *?
Avg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	2
S D	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	7
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	3.16
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	24

Daylight Data Recovery: 99% missing; 1% exceed the 15% QC threshold -- 4301 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: 8.67 uV/Wm-2  
Serial Number: 25796E6  
Calibration Date: 5/15/1998

**Diffuse Solar Radiation on a Horizontal Surface (Shadow Band PSP)**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Mississippi Valley State Univ. - March 2001**

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	3	25	102	185	280	214	324	212	101	102	25	4	0	0	0	0	0	0	1577			
2	0	0	0	0	0	0	1	13	36	65	55	54	106	127	95	103	56	7	0	0	0	0	0	0	718			
3	0	0	0	0	0	0	2	17	22	39	101	111	63	78	65	31	17	6	0	0	0	0	0	0	551			
4	0	0	0	0	0	0	3	35	229	325	469	580	608	399	358	314	138	89	0	0	0	0	0	0	3548			
5	0	0	0	0	0	0	10	149	?	?	?	?	?	?	?	?	197	55	0	0	0	0	0	0	410			
6	0	0	0	0	0	0	16	150	?	491	?	?	?	?	429	?	381	?	190	32	0	0	0	0	1688			
7	0	0	0	0	0	0	13	144	318	?	461	?	532	?	?	?	367	?	208	39	0	0	0	0	2083			
8	0	0	0	0	0	0	9	99	280	355	?	?	?	?	505	?	421	?	201	80	15	0	0	0	1965			
9	0	0	0	0	0	0	0	29	107	185	345	483	?	?	?	?	200	?	61	0	0	0	0	0	1411			
10	0	0	0	0	0	0	20	164	374	?	?	?	?	?	506	?	513	?	401	?	201	?	46	0	2226			
11	0	0	0	0	0	0	25	156	321	?	451	476	368	349	319	243	129	71	19	0	0	0	0	0	2928			
12	0	0	0	0	0	0	0	2	2	?	40	88	254	297	?	?	?	224	?	57	0	0	0	0	0	964		
13	0	0	0	0	0	0	26	169	?	?	?	?	?	?	?	455	?	307	?	197	49	0	0	0	0	1203		
14	0	0	0	0	0	0	12	110	197	171	199	179	194	133	70	63	30	4	0	0	0	0	0	0	1361			
15	0	0	0	0	0	0	21	162	300	?	516	?	?	522	?	399	233	341	?	205	64	1	0	0	0	2763		
16	0	0	0	0	0	0	21	155	224	132	182	269	459	?	600	?	447	?	333	?	208	?	72	0	0	3100		
17	0	0	0	0	0	0	33	184	293	413	?	583	?	556	459	393	316	243	229	49	1	0	0	0	0	3751		
18	0	0	0	0	0	0	27	106	317	?	?	?	?	?	?	?	?	210	?	66	1	0	0	0	0	727		
19	0	0	0	0	0	0	9	40	170	318	459	506	556	578	?	425	?	270	66	20	0	0	0	0	0	3416		
20	0	0	0	0	0	0	3	16	66	103	99	156	?	220	?	263	118	61	40	27	1	0	0	0	0	1173		
21	0	0	0	0	0	0	43	192	?	?	?	?	?	?	?	?	364	?	187	69	1	0	0	0	0	855		
22	0	0	0	0	0	0	50	223	354	?	?	?	543	?	?	?	348	350	?	223	?	47	0	0	0	0	2139	
23	0	0	0	0	0	0	43	196	351	?	?	?	?	?	616	?	536	?	340	?	240	?	71	0	0	0	2392	
24	0	0	0	0	0	0	41	148	237	397	474	426	309	244	245	77	21	3	0	0	0	0	0	0	0	2621		
25	0	0	0	0	0	0	51	193	?	?	?	?	?	?	?	555	?	233	?	86	1	0	0	0	0	0	1118	
26	0	0	0	0	0	0	55	209	?	307	459	?	675	?	652	?	?	468	256	195	61	1	0	0	0	0	3338	
27	0	0	0	0	0	0	31	122	202	297	528	578	625	?	595	?	394	400	199	61	1	0	0	0	0	0	4034	
28	0	0	0	0	0	0	9	29	95	174	123	?	?	?	191	?	203	119	73	29	2	0	0	0	0	0	1048	
29	0	0	0	0	0	0	14	52	95	213	343	382	213	169	219	81	13	10	0	0	0	0	0	0	0	0	1804	
30	0	0	0	0	0	0	6	46	55	143	137	?	189	?	270	?	69	?	56	72	42	7	1	0	0	0	0	1094
Avg	0	0	0	0	0	0	20	111	202	270	324	361	348	337	305	228	141	41	0	0	0	0	0	0	0	0	1934	
S D	0	0	0	0	0	0	16	69	116	152	192	182	168	184	159	127	82	26	0	0	0	0	0	0	0	0	1028	
S/A	0	0	0	0	0	3.04	0.83	0.63	0.57	0.57	0.59	0.5	0.48	0.55	0.52	0.56	0.58	0.64	1.36	0	0	0	0	0	0	0	0.53	
Min	0	0	0	0	0	0	0	2	2	39	55	54	63	69	56	31	13	3	0	0	0	0	0	0	0	0	410	
Max	0	0	0	0	0	0	55	223	374	516	675	652	625	616	555	401	240	89	2	0	0	0	0	0	0	0	4034	

Daylight Data Recovery: 0% missing; 33% exceed the 15% QC threshold -- 4301 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: 7.47 uV/Wm-2  
Serial Number: 18039F3  
Calibration Date: 5/15/1998