

**Global Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Mississippi Valley State Univ. - February 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	0	52	237	361	541	633	688	569	409	295	107	8	0	0	0	0	0	0	3900	
2	0	0	0	0	0	0	0	28	134	234	435	481	538	433	376	232	112	11	0	0	0	0	0	0	3014	
3	0	0	0	0	0	0	0	82	233	422	557	644	657	604	510	196	120	12	0	0	0	0	0	0	4037	
4	0	0	0	0	0	0	0	66	199	347	526	585	571	402	287	235	131	11	0	0	0	0	0	0	3360	
5	0	0	0	0	0	0	0	62	236	428	563	651	671	620	496	327	139	12	0	0	0	0	0	0	4207	
6	0	0	0	0	0	0	0	62	234	422	558	647	660	578	459	318	81	12	0	0	0	0	0	0	4033	
7	0	0	0	0	0	0	0	57	230	396	541	631	499	526	473	323	129	13	0	0	0	0	0	0	3819	
8	0	0	0	0	0	0	0	33	133	282	370	502	422	497	454	298	158	13	0	0	0	0	0	0	3163	
9	0	0	0	0	0	0	1	61	101	215	233	59	123	70	46	24	11	0	0	0	0	0	0	0	943	
10	0	0	0	0	0	0	0	26	70	165	293	315	409	462	396	254	70	9	0	0	0	0	0	0	2468	
11	0	0	0	0	0	0	0	12	49	65	189	88	107	98	144	36	14	2	0	0	0	0	0	0	804	
12	0	0	0	0	0	0	0	6	30	47	55	63	42	61	34	20	13	1	0	0	0	0	0	0	370	
13	0	0	0	0	0	0	0	17	60	105	112	145	192	290	142	46	18	3	0	0	0	0	0	0	1130	
14	0	0	0	0	0	0	1	29	135	147	183	242	304	184	110	128	64	12	0	0	0	0	0	0	1539	
15	0	0	0	0	0	0	1	43	161	150	273	79	104	123	184	61	21	4	0	0	0	0	0	0	1203	
16	0	0	0	0	0	0	1	14	51	81	42	26	?	56	?	74	27	22	2	0	0	0	0	0	397	
17	0	0	0	0	0	0	2	71	282	469	628	648	677	681	562	389	185	27	0	0	0	0	0	0	4621	
18	0	0	0	0	0	0	3	100	298	489	617	694	721	636	558	393	181	21	0	0	0	0	0	0	4711	
19	0	0	0	0	0	0	3	94	307	494	632	710	699	636	478	311	178	25	0	0	0	0	0	0	4567	
20	0	0	0	0	0	0	1	18	61	129	247	382	367	271	401	224	115	23	0	0	0	0	0	0	2239	
21	0	0	0	0	0	0	2	24	65	117	65	126	143	129	220	161	55	23	0	0	0	0	0	0	1128	
22	0	0	0	0	0	0	0	24	52	70	92	122	161	185	106	79	41	6	0	0	0	0	0	0	939	
23	0	0	0	0	0	0	2	47	180	309	493	555	356	354	317	144	89	15	0	0	0	0	0	0	2861	
24	0	0	0	0	0	0	3	33	76	80	142	143	192	278	238	162	112	20	0	0	0	0	0	0	1479	
25	0	0	0	0	0	0	5	64	113	224	276	410	344	440	326	303	179	32	0	0	0	0	0	0	2715	
26	0	0	0	0	0	0	7	107	327	526	662	696	674	537	520	249	144	22	0	0	0	0	0	0	4471	
27	0	0	0	0	0	0	2	12	?	18	?	28	?	32	?	46	62	77	20	24	3	0	0	0	0	324
28	0	0	0	0	0	0	1	21	55	98	130	174	216	106	116	138	37	9	0	0	0	0	0	0	1102	
Avg	0	0	0	0	0	0	1	45	147	246	350	374	392	353	304	193	91	13	0	0	0	0	0	0	2484	
S D	0	0	0	0	0	0	2	28	93	158	207	250	232	212	172	118	58	9	0	0	0	0	0	0	1480	
S/A	0	0	0	0	0	0	1.33	0.62	0.63	0.64	0.59	0.67	0.59	0.6	0.57	0.61	0.63	0.69	0	0	0	0	0	0	0.6	
Min	0	0	0	0	0	0	0	6	18	28	42	26	42	56	34	20	11	0	0	0	0	0	0	0	324	
Max	0	0	0	0	0	0	7	107	327	526	662	710	721	681	562	393	185	32	0	0	0	0	0	0	4711	

Daylight Data Recovery: 0% missing; 3% exceed the 15% QC threshold -- 3685 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. - February 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		0 ?	0 ?	0 ?	0			*	*	*	*	*	*			*	*	*	*	*	0		0 ?	0 *?	
2	0 ?	0 ?		0	0 *		*	*	*	*	*	*	*	*	0 *	0 ?		*	*	*	*	*	*		0 ?	0 *?
3	0 ?	0	0		0 ?	0		*	*	*	*	*	*	*	0 ?	0		*	*	*	*	*	*	0 ?	0 *?	
4	0		0 *	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0 ?	0 *?
5	*	*	*	*	*	*	0 *	0	0 ?		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	552 ?	*	*	*	*	*	*	*	552 *
10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
15	*	*			?	0 ?		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *?
16	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
17			?		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *?
18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
24	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
27	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0 *
28	*	*	*	*	*	*	*	456	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	456 *
Avg	0	0	0	0	0	0	0	228	0	0	0	0	0	0	0	0	0	552	0	0	0	0	0	0	0	63
S/D	0	0	0	0	0	0	0	228	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	168
S/A	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.66
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	552	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	456	0	0	0	0	0	0	0	0	0	552	0	0	0	0	0	0	0	552

Daylight Data Recovery: 96% missing; 3% exceed the 15% QC threshold -- 3685 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. - February 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	0	50	160 ?	254 ?	400 ?	?	?	421 ?	362 ?	155 ?	100	7	0	0	0	0	0	0	1910 ?
2	0	0	0	0	0	0	0	27	131	225	363 ?	450	457 ?	401	332	212	103	11	0	0	0	0	0	0	2711
3	0	0	0	0	0	0	0	43 ?	210 ?	?	?	?	?	?	?	185	88 ?	12	0	0	0	0	0	0	538 ?
4	0	0	0	0	0	0	0	62	170	237 ?	?	463 ?	408 ?	365	278	219	126	12	0	0	0	0	0	0	2341 ?
5	0	0	0	0	0	0	0	61	191 ?	?	?	?	?	?	?	?	134	13	0	0	0	0	0	0	400 ?
6	0	0	0	0	0	0	0	61	190 ?	?	?	?	?	483 ?	479 ?	236 ?	75	12	0	0	0	0	0	0	1536 ?
7	0	0	0	0	0	0	0	54	205 ?	354 ?	?	?	402 ?	468 ?	411 ?	236 ?	123	12	0	0	0	0	0	0	2265 ?
8	0	0	0	0	0	0	0	33	131	261	341	424 ?	393	411 ?	415 ?	283	131	13	0	0	0	0	0	0	2835
9	0	0	0	0	0	0	1	56	98	202	216	57	119	69	46	23	10	0	0	0	0	0	0	0	897
10	0	0	0	0	0	0	0	25	68	162	288	310	396	404	269 ?	226	65	8	0	0	0	0	0	0	2222
11	0	0	0	0	0	0	0	11	48	61	186	87	106	96	138	35	14	1	0	0	0	0	0	0	783
12	0	0	0	0	0	0	0	5	30	47	54	62	41	61	33	19	12	1	0	0	0	0	0	0	366
13	0	0	0	0	0	0	0	16	59	105	111	145	191	287	141	45	18	3	0	0	0	0	0	0	1123
14	0	0	0	0	0	0	1	29	135	136	162	216	272	168	101	114	59	11	0	0	0	0	0	0	1403
15	0	0	0	0	0	0	1	39	149	133	245	71 ?	98	120	175	65	20	3	0	0	0	0	0	0	1120
16	0	0	0	0	0	0	0	13	46	77	40 ?	23 ?	?	49 ?	72	26	22	1	0	0	0	0	0	0	370 ?
17	0	0	0	0	0	0	2	66	178 ?	378 ?	431 ?	537 ?	541 ?	?	?	?	158	29	0	0	0	0	0	0	2318 ?
18	0	0	0	0	0	0	3	95	215 ?	?	?	?	?	512 ?	518 ?	?	164	21	0	0	0	0	0	0	1528 ?
19	0	0	0	0	0	0	3	90	214 ?	?	?	?	?	?	453 ?	298	166	25	0	0	0	0	0	0	1249 ?
20	0	0	0	0	0	0	0	17	56	119	222	354	329	243	331	199	102	21	0	0	0	0	0	0	1994
21	0	0	0	0	0	0	2	22	57	103	57	110	126	117	202	145	49	21	0	0	0	0	0	0	1010
22	0	0	0	0	0	0	0	23	51	66	81	107	141	162	92	71	39	6	0	0	0	0	0	0	839
23	0	0	0	0	0	0	2	42	168	274	370 ?	482	328	300	288	127	79	14	0	0	0	0	0	0	2473
24	0	0	0	0	0	0	3	29	67	70	125	126	169	246	210	143	99	18	0	0	0	0	0	0	1306
25	0	0	0	0	0	0	5	59	100	198	242	374	302	398	294	259 ?	170	34	0	0	0	0	0	0	2435
26	0	0	0	0	0	0	7	100	230 ?	?	542 ?	475 ?	520 ?	470	455 ?	219	118	19	0	0	0	0	0	0	3156 ?
27	0	0	0	0	0	0	2	13 ?	18 ?	25 ?	?	28 ?	40	55	68	18	22	3	0	0	0	0	0	0	291 ?
28	0	0	0	0	0	0	1	20	49	85	114	153	190	94	102	122	33	8	0	0	0	0	0	0	970
Avg	0	0	0	0	0	0	1	42	122	162	230	241	265	267	251	147	82	12	0	0	0	0	0	0	1514
S D	0	0	0	0	0	0	2	26	66	98	139	174	153	158	148	88	52	9	0	0	0	0	0	0	826
S/A	0	0	0	0	0	0	1.38	0.62	0.54	0.6	0.6	0.72	0.58	0.59	0.59	0.6	0.63	0.71	0	0	0	0	0	0	0.55
Min	0	0	0	0	0	0	0	5	18	25	40	23	40	49	33	18	10	0	0	0	0	0	0	0	291
Max	0	0	0	0	0	0	7	100	230	378	542	537	541	512	518	298	170	34	0	0	0	0	0	0	3156

Daylight Data Recovery: 0% missing; 24% exceed the 15% QC threshold -- 3685 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