

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - March 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	0	5	91	191	218	473	594	640 ?	463	421 ?	246	69	21	0	0	0	0	0	0	3433
2	0	0	0	0	0	0	1	13	31	38	39	71	170	63	31	33	32	26	0	0	0	0	0	0	547
3	0	0	0	0	0	0	1	25	66	115	181	278	269	176	146	118	78	20	0	0	0	0	0	0	1473
4	0	0	0	0	0	0	20	162	372	560	719	809	827	770	645	455	298 ?	35	0	0	0	0	0	0	5671
5	0	0	0	0	0	0	7	141	371	377	347	130	60	66	60	75	49	18	0	0	0	0	0	0	1701
6	0	0	0	0	0	0	18	176	396	520 ?	?	?	?	?	615 ?	468	248	60	0	0	0	0	0	0	2501 ?
7	0	0	0	0	0	0	19	182	303 ?	?	?	?	?	?	?	458	241	40	0	0	0	0	0	0	1243 ?
8	0	0	0	0	0	0	11	150	263	419	537	294	254	496	414 ?	424 ?	233	48	0	0	0	0	0	0	3545
9	0	0	0	0	0	0	26	145	240	399	540	492 ?	659 ?	696 ?	443	247	147	48	0	0	0	0	0	0	4083
10	0	0	0	0	0	0	7	35	133	213	458	253	288	157	122	242	167	55	0	0	0	0	0	0	2131
11	0	0	0	0	0	0	15	160	?	?	?	?	?	?	?	?	192	52	0	0	0	0	0	0	420 ?
12	0	0	0	0	0	0	22	156	309 ?	431 ?	530	394	375	472	238	111	39	4	0	0	0	0	0	0	3081
13	0	0	0	0	0	0	4	34	86	149	196	172	176	305	198	46	23	42	0	0	0	0	0	0	1430
14	0	0	0	0	0	0	8	62	170	227	151	354	332	198	305	282	164	54	0	0	0	0	0	0	2307
15	0	0	0	0	0	0	26	126 ?	313	?	?	891 ?	839	710	693	509	349 ?	66	0	0	0	0	0	0	4524 ?
16	0	0	0	0	0	0	33	124 ?	?	?	852 ?	882	896	835	579 ?	501	258 ?	30	0	0	0	0	0	0	4990 ?
17	0	0	0	0	0	0	8	63	143	115	73	75	132	122	271	320	247 ?	54 ?	0	0	0	0	0	0	1623
18	0	0	0	0	0	0	19	130	302	325	458	687	735	469	64	37	8	0	0	0	0	0	0	0	3238
19	0	0	0	0	0	0	4	23	40	72	104	136	149	103	73	53	40	14	0	0	0	0	0	0	812
20	0	0	0	0	0	0	13	129	303 ?	630 ?	778	889	874	833	750 ?	?	?	61 ?	0	0	0	0	0	0	5260 ?
21	0	0	0	0	0	0	50	156 ?	484 ?	591 ?	?	?	?	?	?	?	217 ?	56 ?	1	0	0	0	0	0	1554 ?
22	0	0	0	0	0	0	46	218 ?	476 ?	641	813	899	914	877 ?	?	?	?	60 ?	1	0	0	0	0	0	4945 ?
23	0	0	0	0	0	0	48	282 ?	472	676	830	913	923	889 ?	?	?	?	65	1	0	0	0	0	0	5098 ?
24	0	0	0	0	0	0	39	284 ?	471	648	821	902	918	928 ?	?	?	?	113 ?	62	1	0	0	0	0	5186 ?
25	0	0	0	0	0	0	36	77	97	208	642	708 ?	592 ?	407	176	43	15	7	0	0	0	0	0	0	3008
26	0	0	0	0	0	0	12	71	263	417	?	?	?	?	?	?	?	61 ?	1	0	0	0	0	0	826 ?
27	0	0	0	0	0	0	80	?	?	?	?	?	?	?	?	?	?	112 ?	56	1	0	0	0	0	248 ?
28	0	0	0	0	0	0	53	142	284 ?	332	357 ?	562 ?	?	?	?	?	?	66 ?	3	0	0	0	0	0	1798 ?
29	0	0	0	0	0	0	52 ?	?	?	?	?	?	?	?	?	?	?	59 ?	1 ?	0	0	0	0	0	112 ?
30	0	0	0	0	0	0	60	135	312 ?	454 ?	?	538 ?	516	447	330	153	173	84	3	0	0	0	0	0	3207 ?
31	0	0	0	0	0	0	62 ?	?	?	454 ?	?	?	?	?	?	?	?	85	1	0	0	0	0	0	603 ?
Avg	0	0	0	0	0	0	26	125	265	369	471	518	524	476	329	241	146	46	1	0	0	0	0	0	2600
S D	0	0	0	0	0	0	21	69	136	192	266	298	302	293	225	172	98	22	1	0	0	0	0	0	1691
S/A	0	0	0	0	0	2.49	0.8	0.55	0.51	0.52	0.56	0.58	0.58	0.61	0.68	0.71	0.67	0.49	1.42	0	0	0	0	0	0.65
Min	0	0	0	0	0	0	1	13	31	38	39	71	60	63	31	33	8	0	0	0	0	0	0	0	112
Max	0	0	0	0	0	0	80	284	484	676	852	913	923	928	750	509	349	85	3	0	0	0	0	0	5671

Daylight Data Recovery: 0% missing; 13% exceed the 15% QC threshold -- 11933 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 - March 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	0	0	32	8	2	113	230	299 ?	111	185 ?	91	2	0	0	0	0	0	0	0	1072
2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	4
4	0	0	0	0	0	0	58	511	728	792	813	809	819	819	797	703	587 ?	112	0	0	0	0	0	0	7549
5	0	0	0	0	0	0	0	234	428	139	115	1	0	0	0	0	0	0	0	0	0	0	0	0	917
6	0	0	0	0	0	0	127	509	664	725 ?	?	?	?	?	741 ?	684	557	256	0	0	0	0	0	0	4262 ?
7	0	0	0	0	0	0	151	531	625 ?	?	?	?	?	?	?	688	471	12	0	0	0	0	0	0	2477 ?
8	0	0	0	0	0	0	0	127	90	39	67	1	0	71	216 ?	520 ?	418	123	0	0	0	0	0	0	1672
9	0	0	0	0	0	0	78	135	5	73	50	18 ?	125 ?	218 ?	96	9	33	46	0	0	0	0	0	0	887
10	0	0	0	0	0	0	0	0	1	1	10	2	3	0	0	36	24	45	0	0	0	0	0	0	123
11	0	0	0	0	0	0	17	256	?	?	?	?	?	?	?	?	183	53	0	0	0	0	0	0	510 ?
12	0	0	0	0	0	0	34	191	191 ?	40 ?	96	11	7	23	0	0	0	0	0	0	0	0	0	0	592
13	0	0	0	0	0	0	0	0	0	1	2	1	1	28	0	0	0	0	0	0	0	0	0	0	33
14	0	0	0	0	0	0	0	0	2	19	0	9	11	0	6	56	26	3	0	0	0	0	0	0	130
15	0	0	0	0	0	0	43	308 ?	58	?	?	556 ?	398	216	567	552	503 ?	193	0	0	0	0	0	0	3394 ?
16	0	0	0	0	0	0	35	94 ?	?	?	500 ?	489	525	537	364 ?	486	274 ?	0	0	0	0	0	0	0	3304 ?
17	0	0	0	0	0	0	0	0	1	0	0	0	1	0	4	46	134 ?	145 ?	0	0	0	0	0	0	331
18	0	0	0	0	0	0	0	17	33	14	15	122	167	86	0	0	0	0	0	0	0	0	0	0	454
19	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
20	0	0	0	0	0	0	0	7	44 ?	255 ?	325	403	438	464	459 ?	?	?	172 ?	2	0	0	0	0	0	2569 ?
21	0	0	0	0	0	0	104	216 ?	318 ?	338 ?	?	?	?	?	?	?	357 ?	161 ?	2	0	0	0	0	0	1497 ?
22	0	0	0	0	0	0	70	183 ?	270 ?	311	364	393	428	444 ?	?	?	?	144 ?	3	0	0	0	0	0	2610 ?
23	0	0	0	0	0	0	103	246 ?	298	336	363	392	428	432 ?	?	?	?	48	1	0	0	0	0	0	2646 ?
24	0	0	0	0	0	0	48	235 ?	269	283	333	352	360	365 ?	?	?	109 ?	44	1	0	0	0	0	0	2398 ?
25	0	0	0	0	0	0	2	0	0	5	123	125 ?	57 ?	19	0	0	0	0	0	0	0	0	0	0	331
26	0	0	0	0	0	0	0	0	5	13	?	?	?	?	?	?	?	160 ?	8	0	0	0	0	0	186 ?
27	0	0	0	0	0	0	110	?	?	?	?	?	?	?	?	?	?	9 ?	0	0	0	0	0	0	119 ?
28	0	0	0	0	0	0	4	9	22 ?	17	33 ?	56 ?	?	?	?	?	?	86 ?	2	0	0	0	0	0	228 ?
29	0	0	0	0	0	0	83 ?	?	?	?	?	?	?	?	?	?	?	143 ?	5	0	0	0	0	0	231 ?
30	0	0	0	0	0	0	13	18	46 ?	40 ?	?	24 ?	22	14	5	0	20	19	0	0	0	0	0	0	221 ?
31	0	0	0	0	0	0	41 ?	?	?	31 ?	?	?	?	?	?	?	?	88	0	0	0	0	0	0	160 ?
Avg	0	0	0	0	0	0	36	138	158	139	158	174	186	175	172	194	154	66	1	0	0	0	0	0	1320
S D	0	0	0	0	0	0	45	165	222	216	210	228	230	228	259	275	204	73	2	0	0	0	0	0	1656
S/A	0	0	0	0	0	3.1	1.24	1.2	1.41	1.56	1.33	1.31	1.24	1.3	1.51	1.42	1.32	1.1	2.24	0	0	0	0	0	1.25
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	1
Max	0	0	0	0	0	0	151	531	728	792	813	809	819	819	797	703	587	256	8	0	0	0	0	0	7549

Daylight Data Recovery: 0% missing; 13% exceed the 15% QC threshold -- 11933 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 - March 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	0	5	82	176	200	379	415	459 ?	373	331 ?	221	63	19	0	0	0	0	0	0	2724
2	0	0	0	0	0	0	1	12	28	35	36	65	157	59	28	31	29	24	0	0	0	0	0	0	507
3	0	0	0	0	0	0	1	23	61	107	168	257	250	164	136	110	72	19	0	0	0	0	0	0	1366
4	0	0	0	0	0	0	9	38	53	57	108 ?	?	?	?	?	?	?	35	0	0	0	0	0	0	299 ?
5	0	0	0	0	0	0	7	75	171	280	243	117	55	60	54	69	46	17	0	0	0	0	0	0	1193
6	0	0	0	0	0	0	10	46	64	72 ?	?	?	?	?	84 ?	82	59	28	0	0	0	0	0	0	446 ?
7	0	0	0	0	0	0	9	39	48 ?	?	?	?	?	?	?	67	63	34	0	0	0	0	0	0	262 ?
8	0	0	0	0	0	0	10	101	206	373	450	266	230	398	214 ?	110 ?	74	29	0	0	0	0	0	0	2462
9	0	0	0	0	0	0	19	107	215	318	474	455 ?	494 ?	453 ?	340	225	132	42	0	0	0	0	0	0	3273
10	0	0	0	0	0	0	6	32	121	194	385	233	260	143	111	212	154	49	0	0	0	0	0	0	1898
11	0	0	0	0	0	0	12	75	?	?	?	?	?	?	?	?	112	39	0	0	0	0	0	0	238 ?
12	0	0	0	0	0	0	17	81	157 ?	382 ?	415	357	332	423	216	100	36	4	0	0	0	0	0	0	2518
13	0	0	0	0	0	0	4	31	77	134	176	156	160	269	180	42	21	38	0	0	0	0	0	0	1289
14	0	0	0	0	0	0	7	56	152	198	139	322	306	180	274	257	148	48	0	0	0	0	0	0	2088
15	0	0	0	0	0	0	17	48 ?	259	?	?	406 ?	646 ?	599 ?	?	?	?	48	0	0	0	0	0	0	2022 ?
16	0	0	0	0	0	0	28	85 ?	?	?	476 ?	?	?	?	454 ?	?	117 ?	27	0	0	0	0	0	0	1187 ?
17	0	0	0	0	0	0	8	57	129	103	67	66	123	113	247	293	217 ?	54 ?	0	0	0	0	0	0	1477
18	0	0	0	0	0	0	19	114	257	296	406	455 ?	615 ?	413	58	33	7	0	0	0	0	0	0	0	2675
19	0	0	0	0	0	0	4	21	37	66	95	124	135	94	66	48	37	13	0	0	0	0	0	0	740
20	0	0	0	0	0	0	12	115	244 ?	431 ?	?	?	?	?	?	?	?	29 ?	0	0	0	0	0	0	831 ?
21	0	0	0	0	0	0	42	140 ?	?	416 ?	?	?	?	?	?	?	60 ?	27 ?	1	0	0	0	0	0	686 ?
22	0	0	0	0	0	0	45	150 ?	?	?	?	?	?	495 ?	?	?	?	33 ?	1	0	0	0	0	0	724 ?
23	0	0	0	0	0	0	47	?	?	?	?	?	?	580 ?	?	?	?	47	1	0	0	0	0	0	675 ?
24	0	0	0	0	0	0	39	?	?	?	?	?	634 ?	526 ?	?	?	?	57 ?	48	1	0	0	0	0	1305 ?
25	0	0	0	0	0	0	31	66	84	187	527 ?	535 ?	456 ?	352	155	38	14	6	0	0	0	0	0	0	2450
26	0	0	0	0	0	0	11	62	236	379	?	?	?	?	?	?	?	27 ?	1	0	0	0	0	0	717 ?
27	0	0	0	0	0	0	25	?	?	?	?	?	?	?	?	?	93 ?	48	1	0	0	0	0	0	168 ?
28	0	0	0	0	0	0	48	127	246 ?	290	262 ?	405 ?	?	?	?	?	?	44 ?	2	0	0	0	0	0	1424 ?
29	0	0	0	0	0	0	27 ?	?	?	?	?	?	?	?	?	?	?	27 ?	1	0	0	0	0	0	55 ?
30	0	0	0	0	0	0	49	111	235 ?	360 ?	?	458 ?	460	409	301	135	153	73	2	0	0	0	0	0	2746 ?
31	0	0	0	0	0	0	36 ?	?	?	350 ?	?	?	?	?	?	?	?	58	1	0	0	0	0	0	446 ?
Avg	0	0	0	0	0	0	20	73	148	238	283	299	340	321	191	122	80	33	0	0	0	0	0	0	1319
S D	0	0	0	0	0	0	15	38	79	127	160	147	186	175	118	84	53	16	1	0	0	0	0	0	911
S/A	0	0	0	0	0	2.51	0.78	0.52	0.54	0.53	0.57	0.49	0.55	0.54	0.62	0.69	0.66	0.49	1.42	0	0	0	0	0	0.69
Min	0	0	0	0	0	0	1	12	28	35	36	65	55	59	28	31	7	0	0	0	0	0	0	0	55
Max	0	0	0	0	0	0	49	150	259	431	527	535	646	599	454	293	217	73	2	0	0	0	0	0	3273

Daylight Data Recovery: 0% missing; 17% exceed the 15% QC threshold -- 11933 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