

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - December 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	1	35	108	125	137	172	173	157	79	29	6	0	0	0	0	0	0	0	1023
2	0	0	0	0	0	0	0	24	54	133	149	160	149	166	123	79	20	0	0	0	0	0	0	0	1059
3	0	0	0	0	0	0	0	17	24	32	99	173	110	223	123	33	9	0	0	0	0	0	0	0	842
4	0	0	0	0	0	0	0	17	59	102	280	402	329	?	352	?	319	?	177	32	0	0	0	0	2068
5	0	0	0	0	0	0	1	64	161	?	?	?	?	?	298	?	181	31	0	0	0	0	0	0	735
6	0	0	0	0	0	0	0	67	155	?	?	?	?	?	261	?	178	32	0	0	0	0	0	0	693
7	0	0	0	0	0	0	0	51	118	173	277	290	263	169	126	79	15	0	0	0	0	0	0	0	1561
8	0	0	0	0	0	0	0	6	12	36	71	133	109	96	75	32	5	0	0	0	0	0	0	0	573
9	0	0	0	0	0	0	0	17	59	119	146	275	272	?	133	65	31	15	0	0	0	0	0	0	1131
10	0	0	0	0	0	0	0	55	193	?	161	216	125	96	85	63	27	8	0	0	0	0	0	0	1027
11	0	0	0	0	0	0	0	18	46	146	274	139	79	91	51	31	5	0	0	0	0	0	0	0	879
12	0	0	0	0	0	0	0	17	60	144	207	241	169	125	75	50	7	0	0	0	0	0	0	0	1093
13	0	0	0	0	0	0	0	7	43	94	125	147	102	65	83	29	11	0	0	0	0	0	0	0	705
14	0	0	0	0	0	0	0	26	96	182	272	?	?	?	?	151	?	34	0	0	0	0	0	0	762
15	0	0	0	0	0	0	0	83	185	?	?	?	?	?	?	141	?	31	0	0	0	0	0	0	439
16	0	0	0	0	0	0	0	53	?	?	?	?	?	?	?	135	?	35	0	0	0	0	0	0	222
17	0	0	0	0	0	0	0	45	?	?	?	?	?	?	?	136	?	33	0	0	0	0	0	0	214
18	0	0	0	0	0	0	0	39	137	229	?	?	?	?	?	108	?	33	0	?	0	0	0	0	546
19	0	0	0	0	0	0	0	46	?	?	?	361	?	?	?	111	?	34	0	0	0	0	0	0	551
20	0	0	0	0	0	0	0	26	93	172	?	283	?	311	?	416	?	330	268	?	105	?	25	0	2029
21	0	0	0	0	0	0	0	1	12	29	50	163	114	75	126	89	19	0	0	0	0	0	0	0	680
22	0	0	0	0	0	0	0	41	139	?	?	?	?	?	?	115	?	37	0	0	0	0	0	0	332
23	0	0	0	0	0	0	0	6	44	55	46	41	22	28	23	12	1	0	0	0	0	0	0	0	279
24	0	0	0	0	0	0	0	12	135	144	303	?	430	?	231	?	148	177	?	35	0	0	0	0	1615
25	0	0	0	0	0	0	0	40	144	?	234	?	195	150	146	103	91	49	8	0	0	0	0	0	1159
26	0	0	0	0	0	0	0	24	82	122	188	121	122	97	64	28	2	0	0	0	0	0	0	0	850
27	0	0	0	0	0	0	0	20	70	156	137	168	164	163	261	160	45	0	0	0	0	0	0	0	1344
28	0	0	0	0	0	0	0	64	?	194	?	?	464	?	346	231	96	6	0	0	0	0	0	0	1401
29	0	0	0	0	0	0	0	5	42	59	87	97	85	93	103	89	22	0	0	0	0	0	0	0	681
30	0	0	0	0	0	0	0	37	112	?	?	317	?	405	?	?	233	?	94	93	38	0	0	0	1329
31	0	0	0	0	0	0	0	37	113	?	?	?	?	?	?	?	51	0	0	0	0	0	0	0	201
Avg	0	0	0	0	0	0	0	32	96	126	184	216	176	160	137	92	22	0	0	0	0	0	0	0	904
S D	0	0	0	0	0	0	0	21	53	58	86	113	111	92	86	54	14	0	0	0	0	0	0	0	487
S/A	0	0	0	0	0	0	2.05	0.65	0.56	0.46	0.47	0.52	0.63	0.57	0.63	0.59	0.63	5.48	0	0	0	0	0	0	0.54
Min	0	0	0	0	0	0	0	1	12	29	46	41	22	28	23	12	1	0	0	0	0	0	0	0	201
Max	0	0	0	0	0	0	1	83	194	234	317	464	430	352	319	181	51	0	0	0	0	0	0	0	2068

Daylight Data Recovery: 0% missing; 18% exceed the 15% QC threshold -- 53379 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 - December 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	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3
3	0	0	0	0	0	0	0	0	0	0	1	2	1	29	0	0	0	0	0	0	0	0	0	0	34
4	0	0	0	0	0	0	0	0	0	0	2	62	81 ?	304 ?	572 ?	451	169	0	0	0	0	0	0	0	1642
5	0	0	0	0	0	0	0	213	422 ?	?	?	?	?	?	583 ?	500	196	0	0	0	0	0	0	0	1915 ?
6	0	0	0	0	0	0	0	278	430 ?	?	?	?	?	?	507 ?	478	191	0	0	0	0	0	0	0	1884 ?
7	0	0	0	0	0	0	0	10	12	4	15	10	4	0	0	0	0	0	0	0	0	0	0	0	55
8	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
9	0	0	0	0	0	0	0	0	0	1	1	10	51 ?	1	0	0	0	0	0	0	0	0	0	0	63
10	0	0	0	0	0	0	0	191	280 ?	3	21	0	0	0	0	0	0	0	0	0	0	0	0	0	495
11	0	0	0	0	0	0	0	0	0	2	24	0	0	0	0	0	0	0	0	0	0	0	0	0	27
12	0	0	0	0	0	0	0	0	0	7	1	9	2	1	1	0	0	0	0	0	0	0	0	0	22
13	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
14	0	0	0	0	0	0	0	0	3	38	170 ?	?	?	?	?	378 ?	148	0	0	0	0	0	0	0	738 ?
15	0	0	0	0	0	0	0	163	372 ?	?	?	?	?	?	?	437 ?	193	0	0	0	0	0	0	0	1166 ?
16	0	0	0	0	0	0	0	190	?	?	?	?	?	?	?	396 ?	186	0	0	0	0	0	0	0	772 ?
17	0	0	0	0	0	0	0	126	?	?	?	?	?	?	?	355 ?	151	0	0	0	0	0	0	0	632 ?
18	0	0	0	0	0	0	0	19	274	368 ?	?	?	?	?	?	366 ?	197	0	0	0	0	0	0	0	1224 ?
19	0	0	0	0	0	0	0	149	?	?	?	100 ?	?	?	?	307 ?	141	0	0	0	0	0	0	0	698 ?
20	0	0	0	0	0	0	0	10	14	57 ?	57 ?	62 ?	98 ?	54	75 ?	76 ?	14	0	0	0	0	0	0	0	517 ?
21	0	0	0	0	0	0	0	0	0	0	1	6	1	0	1	0	0	0	0	0	0	0	0	0	10
22	0	0	0	0	0	0	0	82	330 ?	?	?	?	?	?	?	343 ?	171	0	0	0	0	0	0	0	926 ?
23	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
24	0	0	0	0	0	0	0	1	98	43	158 ?	?	175 ?	56 ?	17	302 ?	78	0	0	0	0	0	0	0	928 ?
25	0	0	0	0	0	0	0	80	90 ?	5 ?	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175
26	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
27	0	0	0	0	0	0	0	0	0	5	0	0	0	4	78	258	212	0	0	0	0	0	0	0	557
28	0	0	0	0	0	0	0	182	282 ?	?	?	164 ?	?	109	44	1	0	0	0	0	0	0	0	0	781 ?
29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	14	1	0	0	0	0	0	0	0	16
30	0	0	0	0	0	0	0	149	327 ?	?	19 ?	57 ?	?	5 ?	0	3	51	0	0	0	0	0	0	0	610 ?
31	0	0	0	0	0	0	0	138	308 ?	?	?	?	?	?	?	?	248	0	0	0	0	0	0	0	695 ?
Avg	0	0	0	0	0	0	0	64	116	25	22	23	22	27	82	156	76	0	0	0	0	0	0	0	535
S D	0	0	0	0	0	0	0	85	157	78	48	42	46	68	185	190	89	0	0	0	0	0	0	0	567
S/A	0	0	0	0	0	0	5.14	1.32	1.35	3.07	2.13	1.82	2.12	2.51	2.26	1.22	1.18	0	0	0	0	0	0	0	1.06
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	0	278	430	368	170	164	175	304	583	500	248	0	0	0	0	0	0	0	1915

Daylight Data Recovery: 0% missing; 18% exceed the 15% QC threshold -- 53379 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 - December 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	1	33	102	119	131	163	164	149	75	28	6	0	0	0	0	0	0	0	971	
2	0	0	0	0	0	0	0	23	52	127	142	153	142	158	117	75	18	0	0	0	0	0	0	0	1007	
3	0	0	0	0	0	0	0	16	23	30	94	163	103	189	116	32	10	0	0	0	0	0	0	0	776	
4	0	0	0	0	0	0	0	17	56	98	264	327	255	?	116	?	63	?	49	15	0	0	0	0	1261	
5	0	0	0	0	0	0	1	24	39	?	?	?	?	?	47	?	37	12	0	0	0	0	0	0	158	
6	0	0	0	0	0	0	0	21	33	?	?	?	?	?	50	?	39	12	0	0	0	0	0	0	154	
7	0	0	0	0	0	0	0	40	107	160	272	280	246	160	120	75	14	0	0	0	0	0	0	0	1474	
8	0	0	0	0	0	0	0	5	12	34	68	127	104	91	71	30	5	0	0	0	0	0	0	0	547	
9	0	0	0	0	0	0	0	17	57	116	142	254	219	?	128	63	30	14	0	0	0	0	0	0	1038	
10	0	0	0	0	0	0	0	23	89	?	153	194	120	93	82	61	26	8	0	0	0	0	0	0	848	
11	0	0	0	0	0	0	0	17	43	140	241	133	76	87	49	29	5	0	0	0	0	0	0	0	820	
12	0	0	0	0	0	0	0	17	57	135	193	224	160	119	72	48	7	0	0	0	0	0	0	0	1032	
13	0	0	0	0	0	0	0	7	41	90	120	147	98	62	79	28	10	0	0	0	0	0	0	0	683	
14	0	0	0	0	0	0	0	25	92	148	116	?	?	?	?	45	?	15	0	0	0	0	0	0	440	
15	0	0	0	0	0	0	0	21	48	?	?	?	?	?	?	24	?	8	0	0	0	0	0	0	101	
16	0	0	0	0	0	0	0	17	?	?	?	?	?	?	?	29	?	11	0	0	0	0	0	0	58	
17	0	0	0	0	0	0	0	20	?	?	?	?	?	?	?	36	?	13	0	0	0	0	0	0	69	
18	0	0	0	0	0	0	0	30	56	53	?	?	?	?	?	19	?	6	0	0	0	0	0	0	164	
19	0	0	0	0	0	0	0	18	?	?	?	226	?	?	?	31	?	13	0	0	0	0	0	0	289	
20	0	0	0	0	0	0	0	22	86	125	?	224	?	232	?	290	?	267	?	209	?	76	?	23	0	1554
21	0	0	0	0	0	0	0	1	12	27	48	152	109	73	120	85	19	0	0	0	0	0	0	0	645	
22	0	0	0	0	0	0	0	18	38	?	?	?	?	?	?	27	?	12	0	0	0	0	0	0	95	
23	0	0	0	0	0	0	0	6	43	53	44	40	21	27	22	12	1	0	0	0	0	0	0	0	268	
24	0	0	0	0	0	0	0	11	95	113	171	?	?	262	?	176	?	131	82	?	22	0	0	0	1062	
25	0	0	0	0	0	0	0	32	100	?	218	?	184	144	139	98	87	47	8	0	0	0	0	0	1056	
26	0	0	0	0	0	0	0	23	78	117	180	115	116	92	62	27	2	0	0	0	0	0	0	0	812	
27	0	0	0	0	0	0	0	19	67	148	131	161	156	154	209	84	16	0	0	0	0	0	0	0	1145	
28	0	0	0	0	0	0	0	28	69	?	?	283	?	243	193	91	5	0	0	0	0	0	0	0	913	
29	0	0	0	0	0	0	0	5	40	57	82	93	81	89	99	81	21	0	0	0	0	0	0	0	648	
30	0	0	0	0	0	0	0	13	26	?	?	288	?	322	?	?	219	?	90	87	33	0	0	0	1079	
31	0	0	0	0	0	0	0	15	31	?	?	?	?	?	?	?	13	0	0	0	0	0	0	0	59	
Avg	0	0	0	0	0	0	0	19	57	108	158	184	149	132	96	47	12	0	0	0	0	0	0	0	685	
S D	0	0	0	0	0	0	0	9	27	49	70	75	72	60	50	24	7	0	0	0	0	0	0	0	440	
S/A	0	0	0	0	0	0	1.99	0.46	0.48	0.45	0.44	0.41	0.48	0.45	0.52	0.52	0.56	5.48	0	0	0	0	0	0	0.64	
Min	0	0	0	0	0	0	0	1	12	27	44	40	21	27	22	12	1	0	0	0	0	0	0	0	58	
Max	0	0	0	0	0	0	1	40	107	218	288	327	290	267	209	91	33	0	0	0	0	0	0	0	1554	

Daylight Data Recovery: 0% missing; 19% exceed the 15% QC threshold -- 53379 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