

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - January 1999**

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	27	39	43	60	106	69	57	22	9	4	0	0	0	0	0	0	0	437
2	0	0	0	0	0	0	0	1	20	41	26	51	69	55	37	21	9	0	0	0	0	0	0	0	330
3	0	0	0	0	0	0	0	32	90	170	309	256	252	228	143	80	41	0	0	0	0	0	0	0	1601
4	0	0	0	0	0	0	0	25	136	273	? 335	? 380	? 381	? 398	? 305	? 196	55	0	0	0	0	0	0	0	2483 ?
5	0	0	0	0	0	0	0	68	184 ?	? 496	541 ?	482 ?	421 ?	236	157	32	0	0	0	0	0	0	0	0	2617 ?
6	0	0	0	0	0	0	0	5	46	96	229	158	168	106	43	47	15	0	0	0	0	0	0	0	912
7	0	0	0	0	0	0	0	5	34	80	96	148	160	76	63	57	6	0	0	0	0	0	0	0	725
8	0	0	0	0	0	0	0	8	32	57	194	171	247	207	176	51	6	0	0	0	0	0	0	0	1149
9	0	0	0	0	0	0	0	7	43	118	178	234	351	361 ?	342 ?	230	69	1	0	0	0	0	0	0	1933
10	0	0	0	0	0	0	0	31	171	238	403	389	466	418	254	131	32	0	0	0	0	0	0	0	2534
11	0	0	0	0	0	0	0	41	193	365	492	555 ?	553 ?	508	361	227	91	1	0	0	0	0	0	0	3387
12	0	0	0	0	0	0	0	38	182	343	454	483 ?	490 ?	349	308	158	39	0	0	0	0	0	0	0	2844
13	0	0	0	0	0	0	0	16	109	317 ?	337	280	394 ?	388	322	146	32	0	0	0	0	0	0	0	2341
14	0	0	0	0	0	0	0	5	19	54	84	86	103	81	59	63	44	1	0	0	0	0	0	0	598
15	0	0	0	0	0	0	0	8	45	92	149	207	342	470 ?	398 ?	236	72	1	0	0	0	0	0	0	2019
16	0	0	0	0	0	0	0	43	92	126	197	426	468 ?	521	409	244	79	1	0	0	0	0	0	0	2605
17	0	0	0	0	0	0	0	5	84	208	280	332	261	192	336	223	74	2	0	0	0	0	0	0	1998
18	0	0	0	0	0	0	0	45	199	383	481 ?	? 509	? 432	234	45	1	0	0	0	0	0	0	0	0	2328 ?
19	0	0	0	0	0	0	0	44	199	372	500	570	572	511	347	214	74	3	0	0	0	0	0	0	3407
20	0	0	0	0	0	0	0	6	119	209	314	486	360	336	319	178	63	2	0	0	0	0	0	0	2392
21	0	0	0	0	0	0	0	12	81	131	250	355	477 ?	304	236	137	48	2	0	0	0	0	0	0	2034
22	0	0	0	0	0	0	0	2	10	4	34	17	130	154	5	6	1	0	0	0	0	0	0	0	361
23	0	0	0	0	0	0	0	13	98	51	98	88	97	79	46	43	17	1	0	0	0	0	0	0	631
24	0	0	0	0	0	0	0	42	217	385	520	591	601	547	438	273	101	3	0	0	0	0	0	0	3719
25	0	0	0	0	0	0	0	50	212	361	509	583	588	533	397	260	93	2	0	0	0	0	0	0	3588
26	0	0	0	0	0	0	0	55	211	379	510	591	602	537	429	266	102	4	0	0	0	0	0	0	3686
27	0	0	0	0	0	0	0	32	143	235	212	320	392	326	189	153	53	4	0	0	0	0	0	0	2059
28	0	0	0	0	0	0	0	41	100	160	213	298	227	185	141	53	14	0	0	0	0	0	0	0	1433
29	0	0	0	0	0	0	0	3	23	24	27	9	9	16	10	45	34	1	0	0	0	0	0	0	201
30	0	0	0	0	0	0	0	11	49	132	169	376	74	136	156	73	28	1	0	0	0	0	0	0	1204
31	0	0	0	0	0	0	0	59	223	383	411	581 ?	366	412 ?	333	180	64	6	0	0	0	0	0	0	3018
Avg	0	0	0	0	0	0	0	25	110	194	276	322	325	304	235	142	46	1	0	0	0	0	0	0	1954
S D	0	0	0	0	0	0	0	19	70	129	163	187	180	172	143	85	30	1	0	0	0	0	0	0	1066
S/A	0	0	0	0	0	0	0	0.77	0.64	0.67	0.59	0.58	0.56	0.57	0.61	0.6	0.64	1.21	0	0	0	0	0	0	0.55
Min	0	0	0	0	0	0	0	1	10	4	26	9	9	16	5	6	1	0	0	0	0	0	0	0	201
Max	0	0	0	0	0	0	0	68	223	385	520	591	602	547	438	273	102	6	0	0	0	0	0	0	3719

Daylight Data Recovery: 0% missing; 6% exceed the 15% QC threshold -- 3797 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 - January 1999

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	0	0	0	0	0	0	0	0	0	0	0	0
2	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	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
4	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 ?
5	0	0	0	0	0	0	0	0	0 ?	?	0 ?	0 ?	0 ?	0 ?	0 ?	0	0	0	0	0	0	0	0	0	0 ?
6	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	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
8	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
9	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
10	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
11	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
12	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
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	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	0	0	0 ?	0 ?	0	0 ?	0	0	0	0	0	0	0	0
16	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
17	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18	0	0	0	0	0	0	0	0	0	0	0 ?	?	?	0 ?	0	0	0	0	0	0	0	0	0	0	0 ?
19	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
20	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
21	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
22	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
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	0	0	0	0	0 ?	0 ?	0 ?	0	0	0	0	0	0	0	0	0	0	0
25	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
26	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
27	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
28	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
29	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
30	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
31	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
Avg	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
SD	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
S/A	0	0	0	0	0	0	0	3.04	3.98	2.74	3.34	2.69	3.21	2.76	5.48	3.54	3.73	3.86	0	0	0	0	0	0	1.99
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	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2

Daylight Data Recovery: 0% missing; 7% exceed the 15% QC threshold -- 3797 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 - January 1999

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	25	37	40	56	98	65	54	20	8	4	0	0	0	0	0	0	0	408		
2	0	0	0	0	0	0	0	1	19	39	25	47	65	51	34	20	9	0	0	0	0	0	0	0	309		
3	0	0	0	0	0	0	0	31	86	163	293	245	240	222	134	74	39	0	0	0	0	0	0	0	1527		
4	0	0	0	0	0	0	0	23	129	238	?	283	?	357	?	334	?	365	?	282	?	176	52	0	0	2240 ?	
5	0	0	0	0	0	0	0	4	?	?	?	?	458	?	403	?	228	153	29	0	0	0	0	0	0	1275 ?	
6	0	0	0	0	0	0	0	5	42	92	197	151	157	98	40	43	15	0	0	0	0	0	0	0	840		
7	0	0	0	0	0	0	0	5	32	75	90	137	148	71	58	53	6	0	0	0	0	0	0	0	674		
8	0	0	0	0	0	0	0	8	30	55	181	160	236	200	168	48	5	0	0	0	0	0	0	0	1091		
9	0	0	0	0	0	0	0	7	40	110	163	217	313	?	327	?	?	185	?	66	1	0	0	0	0	1430	
10	0	0	0	0	0	0	0	29	155	?	230	378	380	432	390	243	125	29	0	0	0	0	0	0	0	2391	
11	0	0	0	0	0	0	0	40	185	?	?	?	?	411	?	341	222	81	1	0	0	0	0	0	0	1282 ?	
12	0	0	0	0	0	0	0	36	174	320	422	?	435	?	426	?	315	?	283	151	37	0	0	0	0	2600 ?	
13	0	0	0	0	0	0	0	16	101	295	?	303	267	351	?	319	?	309	123	30	0	0	0	0	0	2113	
14	0	0	0	0	0	0	0	5	18	50	78	80	96	76	55	60	42	1	0	0	0	0	0	0	0	559	
15	0	0	0	0	0	0	0	8	42	86	138	191	330	373	?	364	?	226	69	1	0	0	0	0	0	1828	
16	0	0	0	0	0	0	0	40	85	117	182	352	?	420	?	?	?	231	75	1	0	0	0	0	0	1505 ?	
17	0	0	0	0	0	0	0	5	80	201	262	315	248	177	323	218	71	2	0	0	0	0	0	0	0	1902	
18	0	0	0	0	0	0	0	42	189	?	?	?	?	?	?	200	?	43	1	0	0	0	0	0	0	475 ?	
19	0	0	0	0	0	0	0	43	198	?	?	?	?	?	508	?	288	?	182	69	3	0	0	0	0	1291 ?	
20	0	0	0	0	0	0	0	6	114	184	305	470	346	315	290	166	61	2	0	0	0	0	0	0	0	2259	
21	0	0	0	0	0	0	0	12	75	122	232	319	377	?	223	?	222	117	45	2	0	0	0	0	0	1745	
22	0	0	0	0	0	0	0	2	10	4	32	16	126	146	5	5	1	0	0	0	0	0	0	0	0	346	
23	0	0	0	0	0	0	0	13	92	48	91	83	90	73	43	40	16	1	0	0	0	0	0	0	0	591	
24	0	0	0	0	0	0	0	40	209	?	?	?	?	?	?	240	?	97	3	0	0	0	0	0	0	589 ?	
25	0	0	0	0	0	0	0	47	183	?	314	?	?	?	?	322	?	250	89	3	0	0	0	0	0	1208 ?	
26	0	0	0	0	0	0	0	53	181	?	407	?	?	?	?	375	?	254	?	99	4	0	0	0	0	1372 ?	
27	0	0	0	0	0	0	0	29	138	225	197	291	368	309	174	133	49	3	0	0	0	0	0	0	0	1918	
28	0	0	0	0	0	0	0	39	95	147	198	278	212	173	132	50	13	0	0	0	0	0	0	0	0	1337	
29	0	0	0	0	0	0	0	3	22	23	26	9	9	15	9	43	32	1	0	0	0	0	0	0	0	190	
30	0	0	0	0	0	0	0	10	46	123	161	361	71	129	146	68	26	1	0	0	0	0	0	0	0	1142	
31	0	0	0	0	0	0	0	56	223	312	?	364	?	339	?	350	377	?	271	?	170	59	6	0	0	0	2528 ?
Avg	0	0	0	0	0	0	0	22	101	155	194	233	251	235	191	130	44	1	0	0	0	0	0	0	0	1321	
S D	0	0	0	0	0	0	0	17	66	108	113	132	135	137	121	78	28	1	0	0	0	0	0	0	0	696	
S/A	0	0	0	0	0	0	0	0.78	0.66	0.7	0.58	0.56	0.54	0.58	0.63	0.6	0.65	1.21	0	0	0	0	0	0	0	0.53	
Min	0	0	0	0	0	0	0	1	10	4	25	9	9	15	5	5	1	0	0	0	0	0	0	0	0	190	
Max	0	0	0	0	0	0	0	56	223	407	422	470	458	508	375	254	99	6	0	0	0	0	0	0	0	2600	

Daylight Data Recovery: 0% missing; 19% exceed the 15% QC threshold -- 3797 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