

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - March 1998**

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	11	148	363	557	720	813	824	765	633	450	229	51	0	0	0	0	0	0	5563	
2	0	0	0	0	0	0	11	142	352	561	727	818	760	691	626	293	139	43	0	0	0	0	0	0	5162	
3	0	0	0	0	0	0	13	150	365	563	723	812	828	765	638	460	240	49	0	0	0	0	0	0	5607	
4	0	0	0	0	0	0	8	135	299	520	607	167	110	90	114	259	84	33	0	0	0	0	0	0	2426	
5	0	0	0	0	0	0	0	5	14	28	113	174	496	653	579	258	133	15	0	0	0	0	0	0	2467	
6	0	0	0	0	0	0	1	15	32	75	54	51	55	70	78	46	35	10	0	0	0	0	0	0	523	
7	0	0	0	0	0	0	7	35	48	41	35	69	46	39	29	36	8	3	0	0	0	0	0	0	398	
8	0	0	0	0	0	0	2	18	96	145	81	76	65	216	341	205	87	1	0	0	0	0	0	0	1333	
9	0	0	0	0	0	0	5	27	65	105	245	212	232	244	263	249	138	21	0	0	0	0	0	0	1806	
10	0	0	0	0	0	0	30	109	263	378	758	757	741 ?	703 ?	702 ?	539 ?	317 ?	53	0	0	0	0	0	0	0	5351
11	0	0	0	0	0	0	28	192	420	623	775	852 ?	869	771 ?	542 ?	498 ?	154 ?	56	0	0	0	0	0	0	0	5780
12	0	0	0	0	0	0	28	196	429	640	743 ?	882	892	824	688	499	277	65	0	0	0	0	0	0	0	6165
13	0	0	0	0	0	0	9	61	120	218	424	466	822	799	668	487	268	59	0	0	0	0	0	0	0	4402
14	0	0	0	0	0	0	18	55	188	268	517	542	585	724	534	488	212	79	0	0	0	0	0	0	0	4209
15	0	0	0	0	0	0	9	65	160	209	411	378	187	360	229	134	63	49	0	0	0	0	0	0	0	2253
16	0	0	0	0	0	0	25	147	320	416	485	552	567	328	305	83	9	1	0	0	0	0	0	0	0	3237
17	0	0	0	0	0	0	8	96	222	463	215	233	811	532	579	496	292	87	0	0	0	0	0	0	0	4035
18	0	0	0	0	0	0	6	90	279	576	776	861	876	809	674	489	267	70	0	0	0	0	0	0	0	5775
19	0	0	0	0	0	0	13	165	350	500	747	406	172	96	53	51	98	33	2	0	0	0	0	0	0	2685
20	0	0	0	0	0	0	9	49	94	120	150	102	112	166	93	97	29	6	0	0	0	0	0	0	0	1028
21	0	0	0	0	0	0	16	61	118	145	226	319	402	505	436	504	304	88	0	0	0	0	0	0	0	3123
22	0	0	0	0	0	0	52	244	471	671	822	908	912	848	709	518	288	82	0	0	0	0	0	0	0	6526
23	0	0	0	0	0	0	64	226	386	552	785	842	870	820	674	376	114	51	1	0	0	0	0	0	0	5760
24	0	0	0	0	0	0	35	210	408	422	566	389	526	150	256	323	292	79	1	0	0	0	0	0	0	3657
25	0	0	0	0	0	0	60	207	363	611	692	589	823	812	679	511	292	90	1	0	0	0	0	0	0	5730
26	0	0	0	0	0	0	57	201	287	652	824	906	917	750	740	476	304	93	2	0	0	0	0	0	0	6210
27	0	0	0	0	0	0	69	283	421	650	758	630	520	585	632	387	251	42	2	0	0	0	0	0	0	5229
28	0	0	0	0	0	0	40	212	352	515	483	619	790	603	576	536	306	109	3	0	0	0	0	0	0	5144
29	0	0	0	0	0	1	39	207	349	602	785	793	872	753	624	475	268	88	2	0	0	0	0	0	0	5859
30	0	0	0	0	0	1	74	270	410	591	843	891	807 ?	702 ?	?	291 ?	203 ?	74	2	0	0	0	0	0	0	5158 ?
31	0	0	0	0	0	1	21	146	179	46	51	103	53	85	74	292	257 ?	75 ?	4	0	0	0	0	0	0	1389
Avg	0	0	0	0	0	0	25	134	265	402	521	523	566	525	459	349	192	53	1	0	0	0	0	0	0	4000
S/D	0	0	0	0	0	0	22	79	135	219	277	301	318	283	239	165	100	30	1	0	0	0	0	0	0	1867
S/A	0	0	0	0	0	2.59	0.87	0.59	0.51	0.54	0.53	0.57	0.56	0.54	0.52	0.47	0.52	0.57	1.54	0	0	0	0	0	0	0.47
Min	0	0	0	0	0	0	0	5	14	28	35	51	46	39	29	36	8	1	0	0	0	0	0	0	0	398
Max	0	0	0	0	0	1	74	283	471	671	843	908	917	848	740	539	317	109	4	0	0	0	0	0	0	6526

Daylight Data Recovery: 0% missing; 16% exceed the 15% QC threshold -- 65312 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 1998**

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	116	579	761	836	878	900	893	873	829	738	570	223	0	0	0	0	0	0	8197
2	0	0	0	0	0	0	61	454	672	813	881	895	753	700	600	165	133	53	0	0	0	0	0	0	6180
3	0	0	0	0	0	0	101	521	713	799	845	867	872	847	818	764	628	274	0	0	0	0	0	0	8049
4	0	0	0	0	0	0	2	253	325	613	300	0	0	0	3	67	83	61	0	0	0	0	0	0	1707
5	0	0	0	0	0	0	0	0	0	0	1	1	81	396	404	35	29	0	0	0	0	0	0	0	948
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	1
8	0	0	0	0	0	0	0	0	1	1	0	0	0	5	68	83	?	25	0	0	0	0	0	0	183
9	0	0	0	0	0	0	0	0	0	0	0	0	0	1	19	29	19	0	0	0	0	0	0	0	68
10	0	0	0	0	0	0	161	226	205	169	630	518	447	?	562	726	?	776	?	690	?	345	0	0	5454
11	0	0	0	0	0	0	217	646	789	850	872	877	?	830	611	?	392	?	597	?	141	?	252	0	7074
12	0	0	0	0	0	0	196	622	777	841	850	?	911	912	896	862	801	683	312	0	0	0	0	0	8664
13	0	0	0	0	0	0	0	0	0	1	10	12	661	803	780	736	613	226	0	0	0	0	0	0	3843
14	0	0	0	0	0	0	5	0	53	5	75	153	186	601	495	663	312	312	0	0	0	0	0	0	2861
15	0	0	0	0	0	0	0	0	2	0	15	6	1	11	1	1	11	0	0	0	0	0	0	0	48
16	0	0	0	0	0	0	8	100	154	114	95	133	109	7	15	0	0	0	0	0	0	0	0	0	735
17	0	0	0	0	0	0	0	18	130	269	1	26	603	244	531	716	487	249	0	0	0	0	0	0	3274
18	0	0	0	0	0	0	0	0	196	584	834	855	868	856	819	758	630	355	1	0	0	0	0	0	6755
19	0	0	0	0	0	0	0	51	289	222	580	74	0	0	0	0	16	42	1	0	0	0	0	0	1276
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	1	2	127	86	619	654	417	7	0	0	0	0	0	0	1914
22	0	0	0	0	0	0	339	682	801	850	879	891	872	858	817	756	637	382	12	0	0	0	0	0	8776
23	0	0	0	0	0	0	222	423	321	262	636	535	634	750	588	293	2	7	1	0	0	0	0	0	4675
24	0	0	0	0	0	0	1	330	357	60	135	41	118	1	6	159	467	274	3	0	0	0	0	0	1951
25	0	0	0	0	0	0	97	223	316	509	407	196	521	712	723	700	595	347	10	0	0	0	0	0	5356
26	0	0	0	0	0	0	87	98	40	618	763	798	825	620	619	549	488	262	1	0	0	0	0	0	5767
27	0	0	0	0	0	0	343	649	259	444	401	200	137	195	444	335	329	13	1	0	0	0	0	0	3752
28	0	0	0	0	0	0	9	160	123	204	127	289	493	338	391	535	406	212	2	0	0	0	0	0	3289
29	0	0	0	0	0	0	10	109	169	370	481	441	638	485	482	406	406	233	0	0	0	0	0	0	4231
30	0	0	0	0	0	1	223	527	367	417	751	742	593	?	?	232	?	160	?	98	0	0	0	0	4643
31	0	0	0	0	0	0	2	26	56	0	0	1	0	0	0	81	145	?	260	?	15	0	0	0	585
Avg	0	0	0	0	0	0	71	216	254	318	369	334	389	388	383	374	302	169	2	0	0	0	0	0	3557
S D	0	0	0	0	0	0	103	244	272	319	358	367	355	342	327	311	261	142	4	0	0	0	0	0	2847
S/A	0	0	0	0	0	5.34	1.46	1.13	1.07	1.01	0.97	1.1	0.91	0.88	0.85	0.83	0.87	0.84	2.16	0	0	0	0	0	0.8
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	1	343	682	801	850	881	911	912	896	862	801	690	417	15	0	0	0	0	0	8776

Daylight Data Recovery: 0% missing; 16% exceed the 15% QC threshold -- 65312 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 1998

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	6	37	56	68	73	76	79	82	82	78	62	28	0	0	0	0	0	0	0	727	
2	0	0	0	0	0	0	8	49	74	77	76	83	119	137	224	200	97	35	0	0	0	0	0	0	0	1179	
3	0	0	0	0	0	0	8	47	74	89	96	98	98	100	93	77	59	22	0	0	0	0	0	0	0	861	
4	0	0	0	0	0	0	7	80	159	150	371	151	100	82	102	217	66	24	0	0	0	0	0	0	0	1511	
5	0	0	0	0	0	0	0	4	13	26	102	160	408	324	292	231	119	14	0	0	0	0	0	0	0	1694	
6	0	0	0	0	0	0	1	14	29	68	49	46	50	64	71	42	32	9	0	0	0	0	0	0	0	477	
7	0	0	0	0	0	0	7	33	45	39	32	64	42	36	27	34	7	3	0	0	0	0	0	0	0	368	
8	0	0	0	0	0	0	2	18	88	132	73	69	59	195	301	183	75	1	0	0	0	0	0	0	0	1198	
9	0	0	0	0	0	0	4	25	60	96	225	193	212	222	237	221	106	20	0	0	0	0	0	0	0	1622	
10	0	0	0	0	0	0	18	59	170	273	261	320	446	? 397	? 282	? 335	? 116	? 55	0	0	0	0	0	0	0	1999 ?	
11	0	0	0	0	0	0	12	46	65	79	106	213	? 413	? 282	? 335	? 116	? 55	0	0	0	0	0	0	0	0	1722 ?	
12	0	0	0	0	0	0	14	53	75	105	176	? 87	83	81	75	66	55	28	0	0	0	0	0	0	0	897	
13	0	0	0	0	0	0	8	55	107	197	396	426	215	120	106	84	63	29	0	0	0	0	0	0	0	1806	
14	0	0	0	0	0	0	17	50	151	247	435	371	385	195	173	119	88	39	0	0	0	0	0	0	0	2271	
15	0	0	0	0	0	0	8	58	143	186	370	339	166	330	203	118	56	44	0	0	0	0	0	0	0	2021	
16	0	0	0	0	0	0	23	116	246	331	386	400	453	297	270	74	8	0	0	0	0	0	0	0	0	2605	
17	0	0	0	0	0	0	8	83	151	270	191	190	241	308	189	90	125	49	0	0	0	0	0	0	0	1895	
18	0	0	0	0	0	0	5	80	154	161	85	83	77	72	70	63	50	24	0	0	0	0	0	0	0	925	
19	0	0	0	0	0	0	11	141	204	327	241	308	153	85	47	46	84	28	2	0	0	0	0	0	0	1679	
20	0	0	0	0	0	0	8	44	84	107	134	91	100	148	84	87	25	6	0	0	0	0	0	0	0	917	
21	0	0	0	0	0	0	15	54	106	129	203	285	357	377	355	151	73	34	0	0	0	0	0	0	0	2138	
22	0	0	0	0	0	0	18	46	61	73	78	84	99	96	95	85	64	31	0	0	0	0	0	0	0	830	
23	0	0	0	0	0	0	44	98	223	328	220	307	249	155	214	196	104	45	1	0	0	0	0	0	0	2184	
24	0	0	0	0	0	0	32	98	230	372	438	322	389	134	234	220	132	39	1	0	0	0	0	0	0	2641	
25	0	0	0	0	0	0	48	131	174	216	332	403	319	178	128	103	77	41	1	0	0	0	0	0	0	2153	
26	0	0	0	0	0	0	49	164	252	184	153	147	129	184	270	146	126	53	1	0	0	0	0	0	0	1859	
27	0	0	0	0	0	0	27	71	271	302	396	438	396	405	286	204	120	37	2	0	0	0	0	0	0	2955	
28	0	0	0	0	0	0	37	151	283	358	370	338	318	301	281	225	163	79	2	0	0	0	0	0	0	2906	
29	0	0	0	0	0	0	35	159	262	314	351	366	258	327	281	247	131	54	2	0	0	0	0	0	0	2789	
30	0	0	0	0	0	1	43	86	209	274	169	174	256	334	? 238	? 167	? 62	2	0	0	0	0	0	0	0	2016 ?	
31	0	0	0	0	0	1	19	129	148	41	45	91	47	76	65	207	? 217	? 70	? 4	0	0	0	0	0	0	0	1161
Avg	0	0	0	0	0	0	17	74	141	181	214	217	210	202	177	146	89	34	1	0	0	0	0	0	0	1678	
S/D	0	0	0	0	0	0	14	43	78	107	132	128	133	118	95	77	47	20	1	0	0	0	0	0	0	710	
S/A	0	0	0	0	0	2.44	0.82	0.59	0.55	0.59	0.62	0.59	0.63	0.58	0.54	0.52	0.53	0.57	1.52	0	0	0	0	0	0	0.42	
Min	0	0	0	0	0	0	0	4	13	26	32	46	42	36	27	34	7	0	0	0	0	0	0	0	0	368	
Max	0	0	0	0	0	1	49	164	283	372	438	438	453	413	355	335	217	79	4	0	0	0	0	0	0	2955	

Daylight Data Recovery: 0% missing; 17% exceed the 15% QC threshold -- 65312 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