

**Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - August 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	11	100	374	536	769	921	990	1011	951	821	651	437	214	44	0	0	0	0	0	7828
2	0	0	0	0	0	13	93	249	546	759	759	669	863	781	714	631	411	199	36	0	0	0	0	0	6722
3	0	0	0	0	0	22	159	359	570	752	885	808	906	816	781	601	409	187	34	0	0	0	0	0	7288
4	0	0	0	0	0	20	146	340	546	733	890	949	1002	927	769	496	348	178	24	0	0	0	0	0	7368
5	0	0	0	0	0	19	102	282	548	741	896	963	978	783	800	562	392	198	35	0	0	0	0	0	7299
6	0	0	0	0	0	18	171	400	581	762	964	1015 ?	997	922	846	584	436	104	23	0	0	0	0	0	7823
7	0	0	0	0	0	8	50	130	218	275	194	273	377	340	323	192	109	50	9	0	0	0	0	0	2550
8	0	0	0	0	0	3	22	92	89	120	71	110	105	145	97	65	86	46	17	0	0	0	0	0	1066
9	0	0	0	0	0	5	12	67	41	152	247	574	378	303	456	476	249	78	21	0	0	0	0	0	3059
10	0	0	0	0	0	16	130	235	468	580	765	636	626	564	283	409	323	168	21	0	0	0	0	0	5224
11	0	0	0	0	0	18	157	299	468	551	407	707	369	486	497	361	395	64	12	0	0	0	0	0	4789
12	0	0	0	0	0	10	175	274	502	680	752	857	696	648	312	55	39	55	25	0	0	0	0	0	5082
13	0	0	0	0	0	11	144	333	462	651	796	891	494	934	659	71	42	29	5	0	0	0	0	0	5522
14	0	0	0	0	0	11	78	272	554	696	852	829	836	822	298	33	12	52	30	0	0	0	0	0	5376
15	0	0	0	0	0	14	142	353	549	733	914	748	853	706	775	524	382	172	23	0	0	0	0	0	6888
16	0	0	0	0	0	14	147	361	567	730	809	702	799	734	747	513	302	170	22	0	0	0	0	0	6617
17	0	0	0	0	0	12	131	318	403	651	772	728	845	714	656	588	310	121	10	0	0	0	0	0	6257
18	0	0	0	0	0	10	104	283	543	650	596	912	364	223	173	320	191	81	11	0	0	0	0	0	4462
19	0	0	0	0	0	10	104	326	498	664	654	850	909	826	676	598	385	141	12	0	0	0	0	0	6652
20	0	0	0	0	0	5	87	93	245	464	753	656	365	63	123	248	104	6	2	0	0	0	0	0	3212
21	0	0	0	0	0	9	72	182	356	576	685	915	988	922	788	601	383	156	13	0	0	0	0	0	6646
22	0	0	0	0	0	11	140	355	559	717	883	862	748	507	336	229	102	53	10	0	0	0	0	0	5512
23	0	0	0	0	0	10	135	350	555	716	889	932	821	696	480	606	361	146	12	0	0	0	0	0	6707
24	0	0	0	0	0	9	134	335	542	715	894	976	987	920	779	590	363	146	11	0	0	0	0	0	7401
25	0	0	0	0	0	11	149	339	546	714	877	946	955	887	750	565	344	118	9	0	0	0	0	0	7209
26	0	0	0	0	0	7	121	309	516	697	857	929	935	860	732	537	327	119	10 ?	0	0	0	0	0	6955
27	0	0	0	0	0	8	123	302	501	681	846	917	918	853	719	538	322	107	4	0	0	0	0	0	6837
28	0	0	0	0	0	8	125	216	495	665	802	868	911	796	700	532	302	113	6	0	0	0	0	0	6538
29	0	0	0	0	0	7	102	294	488	665	820	890	882	819	689	520	299	114	2	0	0	0	0	0	6592
30	0	0	0	0	0	4	107	290	485	664	821	886	819	798	682	494	272	94	4	0	0	0	0	0	6420
31	0	0	0	0	0	4	39	114	233	409	416	421	685	798	233	162	138	57	4	0	0	0	0	0	3713
Avg	0	0	0	0	0	11	113	275	458	624	732	787	756	695	571	431	277	114	16	0	0	0	0	0	5859
S D	0	0	0	0	0	5	41	90	141	167	225	207	243	243	232	194	129	55	11	0	0	0	0	0	1648
S/A	0	0	0	0	0	0.44	0.36	0.33	0.31	0.27	0.31	0.26	0.32	0.35	0.41	0.45	0.47	0.49	0.68	0	0	0	0	0	0.28
Min	0	0	0	0	0	3	12	67	41	120	71	110	105	63	97	33	12	6	2	0	0	0	0	0	1066
Max	0	0	0	0	0	22	175	400	581	769	964	1015	1011	951	846	651	437	214	44	0	0	0	0	0	7828

Daylight Data Recovery: 0% missing; 23% exceed the 15% QC threshold -- 37191 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 - August 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	1	20	499	461	616	677	751	791	781	763	748	664	515	202	0	0	0	0	0	7488
2	0	0	0	0	0	25	31	42	361	701	496	276	450	413	481	568	539	420	148	0	0	0	0	0	4950
3	0	0	0	0	0	81	393	549	640	691	698	488	554	540	602	543	521	354	104	0	0	0	0	0	6757
4	0	0	0	0	0	59	297	443	551	630	696	679	709	711	597	304	291	288	37	0	0	0	0	0	6291
5	0	0	0	0	0	12	32	206	483	621	728	719	679	363	603	467	385	360	93	0	0	0	0	0	5752
6	0	0	0	0	0	106	491	652	374	629	827	688	706	670	770	552	500	13	0	0	0	0	0	0	6978
7	0	0	0	0	0	0	0	0	6	2	0	3	4	2	3	0	0	0	0	0	0	0	0	0	20
8	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
9	0	0	0	0	0	0	0	0	0	2	5	57	18	3	109	165	51	0	0	0	0	0	0	0	412
10	0	0	0	0	0	19	118	87	253	199	278	210	199	185	27	260	364	216	40	0	0	0	0	0	2456
11	0	0	0	0	0	25	231	278	330	322	159	311	16	38	60	50	265	0	0	0	0	0	0	0	2086
12	0	0	0	0	0	0	195	79	439	378	439	500	305	193	87	1	1	1	1	0	0	0	0	0	2619
13	0	0	0	0	0	0	213	352	178	463	417	479	127	563	331	0	0	0	0	0	0	0	0	0	3124
14	0	0	0	0	0	4	20	223	586	604	630	468	457	505	114	0	0	1	6	0	0	0	0	0	3617
15	0	0	0	0	0	37	385	603	628	733	710	456	532	407	661	456	548	455	114	0	0	0	0	0	6723
16	0	0	0	0	0	81	462	659	737	774	537	390	433	427	625	511	372	471	123	0	0	0	0	0	6601
17	0	0	0	0	0	37	277	362	277	476	526	384	488	526	509	687	418	282	26	0	0	0	0	0	5275
18	0	0	0	0	0	11	137	313	560	412	114	374	163	9	8	35	3	3	5	0	0	0	0	0	2146
19	0	0	0	0	0	2	114	386	494	542	339	513	626	570	504	657	603	323	30	0	0	0	0	0	5703
20	0	0	0	0	0	0	36	27	56	121	383	329	104	0	0	43	0	1	1	0	0	0	0	0	1102
21	0	0	0	0	0	4	1	5	108	308	391	649	824	827	803	765	688	495	96	0	0	0	0	0	5962
22	0	0	0	0	0	93	464	666	746	733	748	497	231	55	9	7	0	0	0	0	0	0	0	0	4247
23	0	0	0	0	0	70	448	640	728	768	796	755	562	445	276	650	605	417	68	0	0	0	0	0	7229
24	0	0	0	0	0	32	364	579	695	757	789	810	825	832	802	759	651	482	104	0	0	0	0	0	8481
25	0	0	0	0	0	55	440	627	722	759	770	771	784	773	744	688	556	260	34	0	0	0	0	0	7984
26	0	0	0	0	0	16	291	480	588	676	708	714	732	716	696	629	541	346	48	0	0	0	0	0	7180
27	0	0	0	0	0	19	270	453	572	650	692	704	712	716	686	635	520	259	16	0	0	0	0	0	6905
28	0	0	0	0	0	11	135	46	516	565	569	545	654	572	617	567	410	282	29	0	0	0	0	0	5518
29	0	0	0	0	0	13	245	438	557	607	637	652	615	600	572	520	427	232	0	0	0	0	0	0	6114
30	0	0	0	0	0	2	212	411	517	598	627	587	486	542	561	444	316	154	10	0	0	0	0	0	5468
31	0	0	0	0	0	0	0	1	15	50	22	11	186	273	41	1	4	0	0	0	0	0	0	0	604
Avg	0	0	0	0	0	26	204	326	425	496	497	476	451	428	408	378	330	214	43	0	0	0	0	0	4703
S D	0	0	0	0	0	31	165	237	238	247	261	235	270	275	295	283	246	187	53	0	0	0	0	0	2514
S/A	0	0	0	0	0	1.18	0.81	0.73	0.56	0.5	0.52	0.49	0.6	0.64	0.72	0.75	0.74	0.87	1.23	0	0	0	0	0	0.53
Min	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
Max	0	0	0	0	0	106	491	666	746	774	827	810	825	832	803	765	688	515	202	0	0	0	0	0	8481

Daylight Data Recovery: 0% missing; 23% exceed the 15% QC threshold -- 37191 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 - August 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	9	83	144	201	217	215	161	136	132	115	100	89	69	26	0	0	0	0	0	1698
2	0	0	0	0	0	11	82	216	284	145	247	354	354	338	270	219	134	86	24	0	0	0	0	0	2765
3	0	0	0	0	0	20	75	109	137	148	181	278	287	247	231	200	141	91	26	0	0	0	0	0	2171
4	0	0	0	0	0	18	86	145	176	186	188	206	223	188	216	260	204	101	20	0	0	0	0	0	2217
5	0	0	0	0	0	17	94	181	222	199	159	174	223	392	249	212	200	103	26	0	0	0	0	0	2450
6	0	0	0	0	0	14	65	102	299	185	132	229	211	220	149	169	172	92	19	0	0	0	0	0	2058
7	0	0	0	0	0	7	43	112	192	236	168	236	323	291	273	165	93	42	8	0	0	0	0	0	2188
8	0	0	0	0	0	2	18	79	75	101	60	94	90	124	82	55	73	39	15	0	0	0	0	0	908
9	0	0	0	0	0	5	10	57	35	130	216	492	329	263	350	329	208	68	18	0	0	0	0	0	2511
10	0	0	0	0	0	16	102	182	308	393	470	384	390	360	245	228	139	111	18	0	0	0	0	0	3345
11	0	0	0	0	0	15	114	171	234	256	236	365	334	451	446	312	253	55	11	0	0	0	0	0	3254
12	0	0	0	0	0	8	133	240	203	367	298	324	364	431	243	48	34	48	25	0	0	0	0	0	2767
13	0	0	0	0	0	9	96	182	354	263	358	376	339	358	345	63	36	25	4	0	0	0	0	0	2807
14	0	0	0	0	0	9	67	154	171	201	224	322	330	300	180	29	10	44	25	0	0	0	0	0	2067
15	0	0	0	0	0	12	61	83	134	133	209	245	265	274	177	188	117	61	16	0	0	0	0	0	1975
16	0	0	0	0	0	11	52	67	79	98	275	264	316	291	184	142	118	57	15	0	0	0	0	0	1969
17	0	0	0	0	0	11	72	153	216	254	238	304	309	169	191	104	95	62	7	0	0	0	0	0	2185
18	0	0	0	0	0	9	74	134	175	289	435	482	234	198	146	280	163	71	10	0	0	0	0	0	2701
19	0	0	0	0	0	9	77	157	167	221	299	293	226	242	236	142	100	59	10	0	0	0	0	0	2238
20	0	0	0	0	0	4	73	83	202	363	359	290	264	55	110	201	91	5	2	0	0	0	0	0	2102
21	0	0	0	0	0	9	62	160	268	314	288	216	110	94	85	76	63	48	9	0	0	0	0	0	1802
22	0	0	0	0	0	9	53	69	81	128	151	313	483	443	295	206	87	45	9	0	0	0	0	0	2371
23	0	0	0	0	0	8	50	71	82	91	97	119	211	248	236	165	86	58	10	0	0	0	0	0	1533
24	0	0	0	0	0	8	61	89	99	102	112	112	105	89	86	79	71	47	7	0	0	0	0	0	1067
25	0	0	0	0	0	8	53	74	83	101	111	121	117	114	109	104	94	61	7	0	0	0	0	0	1156
26	0	0	0	0	0	6	68	108	139	147	156	168	155	147	134	119	88	50	6	0	0	0	0	0	1493
27	0	0	0	0	0	7	66	113	137	151	159	166	161	145	133	115	92	48	3	0	0	0	0	0	1496
28	0	0	0	0	0	7	106	182	177	216	239	270	223	221	178	159	117	59	5	0	0	0	0	0	2158
29	0	0	0	0	0	6	68	122	153	186	203	212	236	231	208	182	119	68	2	0	0	0	0	0	1996
30	0	0	0	0	0	4	68	128	171	193	218	280	307	268	213	207	143	66	3	0	0	0	0	0	2271
31	0	0	0	0	0	3	34	98	199	356	378	369	486	522	190	140	126	52	4	0	0	0	0	0	2956
Avg	0	0	0	0	0	9	70	128	176	205	228	265	263	253	203	161	115	61	13	0	0	0	0	0	2151
S D	0	0	0	0	0	4	25	46	75	85	96	100	101	116	83	75	53	22	8	0	0	0	0	0	581
S/A	0	0	0	0	0	0.45	0.36	0.36	0.42	0.42	0.42	0.38	0.38	0.46	0.41	0.46	0.46	0.36	0.64	0	0	0	0	0	0.27
Min	0	0	0	0	0	2	10	57	35	91	60	94	90	55	82	29	10	5	2	0	0	0	0	0	908
Max	0	0	0	0	0	20	133	240	354	393	470	492	486	522	446	329	253	111	26	0	0	0	0	0	3345

Daylight Data Recovery: 0% missing; 24% exceed the 15% QC threshold -- 37191 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