

November 2001

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

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	80	242	412	535	593	610	510	410	224	108	8	0	0	0	0	0	0	3737
2	0	0	0	0	0	0	6	58	220	273	534	598	613	309	313	150	64	15	0	0	0	0	0	0	3152
3	0	0	0	0	0	0	0	4	18	82	451	606	617	555	442	282	105	8	0	0	0	0	0	0	3171
4	0	0	0	0	0	0	4	92	253	405	527	601	606	546	419	266	91	7	0	0	0	0	0	0	3817
5	0	0	0	0	0	0	2	66	245	415	539	608	612	559	439	278	99	8	0	0	0	0	0	0	3870
6	0	0	0	0	0	0	3	90	?	419	529	603	609	552	432	272	95	5	0	0	0	0	0	0	3608 ?
7	0	0	0	0	0	0	4	60	216	?	528	593	602	543	419	247	82	6	0	0	0	0	0	0	3302 ?
8	0	0	0	0	0	0	4	54	217	374	494	568	586	526	414	256	85	7	0	0	0	0	0	0	3586
9	0	0	0	0	0	0	2	30	178	388	512	582	590	533	415	248	83	5	0	0	0	0	0	0	3567
10	0	0	0	0	0	0	0	52	221	388	516	589	578	509	342	188	73	3	0	0	0	0	0	0	3460
11	0	0	0	0	0	0	0	13	95	268	463	534	560	499	387	236	76	2	0	0	0	0	0	0	3132
12	0	0	0	0	0	0	0	20 ?	?	389	497	566	569	517	405	245	78	1	0	0	0	0	0	0	3288 ?
13	0	0	0	0	0	0	0	45	212	377	498	567	573	515	402	241	76	3	0	0	0	0	0	0	3509
14	0	0	0	0	0	0	0	39	188	349	467	528	530	487	374	221	64	1	0	0	0	0	0	0	3249
15	0	0	0	0	0	0	0	43	193	342	462	522	540	483	373	221	66	1	0	0	0	0	0	0	3247
16	0	0	0	0	0	0	0	41	177	328	455	517	523	459	322	170	62	2	0	0	0	0	0	0	3056
17	0	0	0	0	0	0	0	32	125	251	407	524	505	442	344	208	60	1	0	0	0	0	0	0	2901
18	0	0	0	0	0	0	0	35	170	327	447	507	517	459	338	219	44	2	0	0	0	0	0	0	3063
19	0	0	0	0	0	0	0	32	154	299	427	507	520	449	303	196	61	1	0	0	0	0	0	0	2950
20	0	0	0	0	0	0	0	9	57	107	349	489	521	303	347	221	68	2	0	0	0	0	0	0	2473
21	0	0	0	0	0	0	0	54	268 ?	375	463	534	545	492	384	228	67	1	0	0	0	0	0	0	3410
22	0	0	0	0	0	0	0	22	139	329	436	441	520	377	314	228	34	2	0	0	0	0	0	0	2844
23	0	0	0	0	0	0	0	32	150	276	438	459	528	456	283	134	30	1	0	0	0	0	0	0	2788
24	0	0	0	0	0	0	0	7	30	107	179	107	208	269	162	105	25	3	0	0	0	0	0	0	1201
25	0	0	0	0	0	0	0	10	73	143	249	207	193	311	194	177	61	1	0	0	0	0	0	0	1618
26	0	0	0	0	0	0	0	26	105 ?	?	430 ?	514	495	444	358	197	58	0	0	0	0	0	0	0	2627 ?
27	0	0	0	0	0	0	0	17	85	212	281	476	324	244	264	161	45	1	0	0	0	0	0	0	2110
28	0	0	0	0	0	0	0	25	146	317	321	338	371	318	311	190	38	0	0	0	0	0	0	0	2373
29	0	0	0	0	0	0	0	23	102	148	191	169	266	356	192	134	35	1	0	0	0	0	0	0	1616
30	0	0	0	0	0	0	0	9	76	116	370	500	510	455	356	209	54	3	0	0	0	0	0	0	2658
Avg	0	0	0	0	0	0	1	37	155	293	433	498	511	449	349	212	66	3	0	0	0	0	0	0	2979
S D	0	0	0	0	0	0	2	24	70	108	101	129	118	94	74	45	22	3	0	0	0	0	0	0	666
S/A	0	0	0	0	0	0	1.82	0.64	0.45	0.37	0.23	0.26	0.23	0.21	0.21	0.21	0.33	0.98	0	0	0	0	0	0	0.22
Min	0	0	0	0	0	0	0	4	18	82	179	107	193	244	162	105	25	0	0	0	0	0	0	0	1201
Max	0	0	0	0	0	0	6	92	268	419	539	608	617	559	442	282	108	15	0	0	0	0	0	0	3870
n	0	0	0	0	0	0	13	317	322	336	356	360	360	360	360	360	360	69	0	0	0	0	0	0	3574

Daylight Data Recovery: 0.0% missing; 2.0% exceed the 15% QC threshold -- 3646 total daylight measurements.

Instrument: Eppley PSP Serial Number: 25821F3 Calibration Factor: 9.020 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

November 2001

Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Instrument: Eppley NIP
Watt-Hours per Square Meter

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	384	728	869	889	878	859	633	530	288	236	0	0	0	0	0	0	0	6293
2	0	0	0	0	0	0	0	16	288	219	766	550	663	145	183	28	31	17	0	0	0	0	0	0	2905
3	0	0	0	0	0	0	0	0	0	1	576	938	956	936	907	810	577	140	0	0	0	0	0	0	5840
4	0	0	0	0	0	0	0	346	756	878	915	948	943	911	801	721	422	66	0	0	0	0	0	0	7708
5	0	0	0	0	0	0	0	232	795	910	962	981	970	966	926	824	554	127	0	0	0	0	0	0	8248
6	0	0	0	0	0	0	0	318	777	914	972	997	997	982	927	816	570	159	0	0	0	0	0	0	8431
7	0	0	0	0	0	0	1	310	745	?	960	987	986	966	874	678	435	121	0	0	0	0	0	0	7063 ?
8	0	0	0	0	0	0	0	260	705	826	862	905	944	921	874	760	466	108	0	0	0	0	0	0	7631
9	0	0	0	0	0	0	0	40	450	874	944	975	979	962	897	732	482	138	0	0	0	0	0	0	7473
10	0	0	0	0	0	0	0	277	755	869	948	963	887	846	562	469	355	29	0	0	0	0	0	0	6960
11	0	0	0	0	0	0	0	0	20	223	650	736	860	839	783	674	439	77	0	0	0	0	0	0	5301
12	0	0	0	0	0	0	0	260	781	904	957	985	987	971	918	818	546	120	0	0	0	0	0	0	8248
13	0	0	0	0	0	0	0	256	783	909	967	989	992	968	914	789	489	150	0	0	0	0	0	0	8205
14	0	0	0	0	0	0	0	171	609	772	837	836	839	852	792	656	369	74	0	0	0	0	0	0	6807
15	0	0	0	0	0	0	0	162	606	765	835	843	878	850	801	687	392	57	0	0	0	0	0	0	6876
16	0	0	0	0	0	0	0	130	514	711	813	842	828	757	448	281	183	0	0	0	0	0	0	0	5509
17	0	0	0	0	0	0	0	44	50	291	653	801	742	702	686	619	343	54	0	0	0	0	0	0	4986
18	0	0	0	0	0	0	0	133	544	730	827	823	836	784	638	607	172	2	0	0	0	0	0	0	6097
19	0	0	0	0	0	0	0	97	408	557	683	734	777	730	518	510	270	9	0	0	0	0	0	0	5292
20	0	0	0	0	0	0	0	0	7	24	392	698	788	441	748	727	482	89	0	0	0	0	0	0	4395
21	0	0	0	0	0	0	0	201	765 ?	897	952	975	986	972	924	813	524	199	0	0	0	0	0	0	8207
22	0	0	0	0	0	0	0	2	251	834	834	736	795	448	274	488	41	0	0	0	0	0	0	0	4703
23	0	0	0	0	0	0	0	39	232	527	858	718	947	856	467	103	4	0	0	0	0	0	0	0	4749
24	0	0	0	0	0	0	0	0	0	0	2	1	36	122	109	47	4	0	0	0	0	0	0	0	321
25	0	0	0	0	0	0	0	2	46	39	89	30	5	291	68	476	399	95	0	0	0	0	0	0	1541
26	0	0	0	0	0	0	0	82	603 ?	?	900 ?	930	762	611	750	681	395	77	0	0	0	0	0	0	5790 ?
27	0	0	0	0	0	0	0	28	38	162	334	743	253	7	218	214	61	0	0	0	0	0	0	0	2058
28	0	0	0	0	0	0	0	31	378	718	390	244	279	216	444	522	131	23	0	0	0	0	0	0	3375
29	0	0	0	0	0	0	0	0	43	23	14	9	27	213	43	199	37	0	0	0	0	0	0	0	607
30	0	0	0	0	0	0	0	0	1	29	641	909	889	915	877	770	378	47	0	0	0	0	0	0	5456
Avg	0	0	0	0	0	0	0	127	423	553	714	757	756	694	630	560	326	66	0	0	0	0	0	0	5569
S D	0	0	0	0	0	0	0	126	310	361	292	297	306	307	290	249	189	59	0	0	0	0	0	0	2298
S/A	0	0	0	0	0	0	3.28	0.99	0.73	0.65	0.41	0.39	0.4	0.44	0.46	0.44	0.58	0.9	0	0	0	0	0	0	0.41
Min	0	0	0	0	0	0	0	0	0	0	2	1	5	7	43	28	4	0	0	0	0	0	0	0	321
Max	0	0	0	0	0	0	1	384	795	914	972	997	997	982	927	824	577	199	0	0	0	0	0	0	8431
n	0	0	0	0	0	0	13	324	346	336	356	360	360	360	360	360	360	69	0	0	0	0	0	0	3604

Daylight Data Recovery: 0.0% missing; 1.2% exceed the 15% QC threshold -- 3646 total daylight measurements.

Instrument: Eppley NIP Serial Number: 17664E6 Calibration Factor: 8.480 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

November 2001

Diffuse Solar Radiation (Shadow Band) on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

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	29	42	51	74	83	104	155	166	126	67	7	0	0	0	0	0	0	909
2	0	0	0	0	0	0	6	54	135	165	126	261	224	228	234	137	59	14	0	0	0	0	0	0	1641
3	0	0	0	0	0	0	0	4	17	78	151	68	67	63	51	41	25	5	0	0	0	0	0	0	569
4	0	0	0	0	0	0	3	23	40	49	63	65	69	70	76	55	31	5	0	0	0	0	0	0	549
5	0	0	0	0	0	0	1	21	40	50	57	61	66	60	49	39	24	5	0	0	0	0	0	0	475
6	0	0	0	0	0	0	2	25	47	47	47	51	52	50	46	40	22	2	0	0	0	0	0	0	429
7	0	0	0	0	0	0	4	21	37	?	54	52	56	54	58	58	28	4	0	0	0	0	0	0	427 ?
8	0	0	0	0	0	0	3	22	43	54	72	73	66	63	55	45	26	6	0	0	0	0	0	0	529
9	0	0	0	0	0	0	1	25	52	53	57	57	59	56	51	50	26	4	0	0	0	0	0	0	492
10	0	0	0	0	0	0	0	19	42	57	61	73	89	86	99	60	26	3	0	0	0	0	0	0	615
11	0	0	0	0	0	0	0	13	87	185	146	138	98	87	74	57	26	2	0	0	0	0	0	0	912
12	0	0	0	0	0	0	0	21	51	47	48	48	46	46	42	31	17	1	0	0	0	0	0	0	398
13	0	0	0	0	0	0	0	16	35	43	48	51	52	49	45	38	21	3	0	0	0	0	0	0	401
14	0	0	0	0	0	0	0	21	55	70	82	96	92	80	67	54	24	1	0	0	0	0	0	0	642
15	0	0	0	0	0	0	0	22	53	68	81	89	84	79	65	49	25	1	0	0	0	0	0	0	616
16	0	0	0	0	0	0	0	24	65	75	85	86	94	100	141	105	38	1	0	0	0	0	0	0	815
17	0	0	0	0	0	0	0	26	111	155	129	116	122	117	83	54	23	1	0	0	0	0	0	0	939
18	0	0	0	0	0	0	0	20	55	72	77	91	89	94	88	67	25	2	0	0	0	0	0	0	678
19	0	0	0	0	0	0	0	20	70	105	120	137	124	110	103	73	32	1	0	0	0	0	0	0	895
20	0	0	0	0	0	0	0	9	52	91	169	125	115	84	61	44	21	2	0	0	0	0	0	0	771
21	0	0	0	0	0	0	0	15	41 ?	43	47	51	51	47	41	33	16	1	0	0	0	0	0	0	385
22	0	0	0	0	0	0	0	23	74	48	75	73	113	156	203	118	27	2	0	0	0	0	0	0	912
23	0	0	0	0	0	0	0	28	99	90	63	92	59	65	96	104	28	1	0	0	0	0	0	0	725
24	0	0	0	0	0	0	0	6	29	104	172	101	183	202	122	90	24	3	0	0	0	0	0	0	1036
25	0	0	0	0	0	0	0	10	62	128	204	190	185	168	161	70	24	1	0	0	0	0	0	0	1204
26	0	0	0	0	0	0	0	11	29	44	53	63	108	160	88	36	21	0	0	0	0	0	0	0	613
27	0	0	0	0	0	0	0	14	74	162	124	114	193	230	178	112	36	1	0	0	0	0	0	0	1239
28	0	0	0	0	0	0	0	23	71	83	156	201	222	213	157	74	25	0	0	0	0	0	0	0	1225
29	0	0	0	0	0	0	0	22	93	137	181	160	253	260	169	87	29	0	0	0	0	0	0	0	1391
30	0	0	0	0	0	0	0	9	71	103	92	69	80	52	44	34	18	2	0	0	0	0	0	0	575
Avg	0	0	0	0	0	0	1	20	59	85	97	98	107	109	97	66	28	3	0	0	0	0	0	0	767
S D	0	0	0	0	0	0	2	9	26	42	47	51	58	64	54	30	11	3	0	0	0	0	0	0	324
S/A	0	0	0	0	0	0	1.93	0.46	0.44	0.5	0.49	0.52	0.54	0.59	0.56	0.46	0.38	0.99	0	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	0	4	17	43	47	48	46	41	31	16	0	0	0	0	0	0	0	0	385
Max	0	0	0	0	0	0	6	54	135	185	204	261	253	260	234	137	67	14	0	0	0	0	0	0	1641
n	0	0	0	0	0	0	13	322	353	348	359	360	360	360	360	360	360	69	0	0	0	0	0	0	3624

Daylight Data Recovery: 0.0% missing; 0.6% exceed the 15% QC threshold -- 3646 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17860F3 Calibration Factor: 7.010 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.