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SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING JUNE, 1926

By HERBERT H. KIMBALL, Solar Radiation Investigations

For a description of instruments and exposures and an account of the method of obtaining and reducing the measurements, the reader is referred to the REVIEW for January, 1924, **52**: 42, January, 1925, **53**: 29, and July, 1925, **53**: 318.

From Table 1, it is seen that solar radiation intensities averaged above the normal for June at all three stations.

Table 2 shows a decided excess in the amount of radiation received on a horizontal surface from the sun and sky at Madison, a slight excess at Lincoln, and a pronounced deficiency at Washington.

Skylight polarization measurements made on four days at Washington give a mean of 54 per cent, with a maximum of 56 per cent on the 28th. Measurements made on six days at Madison give a mean of 60 per cent, with a maximum of 64 per cent on the 8th. These are close to the corresponding averages for June for the respective stations.

TABLE 1.—*Solar radiation intensities during June, 1926*

[Gram-calories per minute per square centimeter of normal surface]

WASHINGTON, D. C.

Date	Sun's zenith distance										
	8 a.m.	78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	Noon
	75th mer. time	Air mass									Local mean solar time
		A. M.					P. M.				
	e.	5.0	4.0	3.0	2.0	*1.0	2.0	3.0	4.0	5.0	e.
	mm.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*mm.*
June 2	10.97			0.41	0.71						7.87
8	10.59					1.14					11.81
9	8.81		0.59	0.81	1.03	1.32					8.18
10	9.83					1.24					8.48
11	7.29				1.16						8.48
17	8.48			0.92							8.18
21	9.14		0.77	0.90	1.05	1.20					9.47
25	11.81			0.72	0.90	1.17					12.24
28	9.14		0.80	0.96	1.16	1.45	1.01				7.04
29	12.24					1.22					11.38
30	13.61			0.84	0.94	1.05					12.68
Means			**0.72**	**0.79**	**0.99**	**1.22 (1.01)**					
Departures			**+0.10**	**+0.07**	**+0.10**	**+0.01**	**+0.09**				

* Extrapolated.

TABLE 1.—*Solar radiation intensities during June, 1926*—Contd.

MADISON, WIS.

Date	Sun's zenith distance										
	8 a.m.	78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	Noon
	75th mer. time	Air mass									solar time
		A.M.					P. M.				
	e.	5.0	4.0	3.0	2.0	1.0	2.0	3.0	4.0	5.0	e.
	mm.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*mm.*
June 1	7.57					1.33					8.81
3	6.76				1.09	1.38					8.18
4	6.76					1.35					6.50
5	7.04		0.88	1.00							6.76
8	8.18		0.93	1.05	1.19						8.18
9	9.47				1.21	1.37					8.81
15	7.29				1.14	1.37					8.18
19	6.27					1.37					7.29
23	9.14				1.21	1.44					9.14
26	7.57		0.86	0.97	1.15						9.47
30	9.14					1.39					7.29
Means			**0.89**	**1.01**	**1.16**	**1.38**					
Departures			**+0.01**	**+0.04**	**+0.06**	**+0.06**					

LINCOLN, NEB.

June 1	6.27		0.71	0.98	1.23	1.43					4.95
2	7.29		0.80	0.95	1.12	1.37					7.29
4	9.83					1.43	1.18	1.00	0.89		8.81
6	8.48						1.08	0.81			5.56
7	8.18						1.11	0.93	0.79		6.02
16	14.10						1.13				16.79
17	9.14			1.07	1.26	1.48	1.13	0.97			7.87
23	9.14		0.78	0.94	1.19	1.36					7.57
26	7.04			0.93	1.19	1.28	1.10	0.92			6.50
27	8.48		0.95	1.02	1.27						8.48
Means			**0.81**	**0.98**	**1.21**	**1.39**	**1.12**	**0.93**	**0.84**		
Departures			**+0.04**	**+0.05**	**+0.11**	**+0.04**	**+0.03**	**+0.03**	**+0.07**		

TABLE 2.—*Solar and sky radiation received on a horizontal surface*

[Gram-calories per square centimeter of horizontal surface]

Week beginning—	Average daily radiation					Average daily departure from normal		
	Washington	Madison	Lincoln	Chicago	New York	Washington	Madison	Lincoln
1926	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*
June 4	393	638	630	463	358	−101	+141	+90
11	427	412	480	314	369	−67	−98	−73
18	425	585	530	508	377	−69	+62	−43
25	575	538	639	468	460	+84	+4	+52
Excess since first of year on July 1						+1,694	+3,521	+756