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SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING JUNE, 1924

By HERBERT H. KIMBALL, In Charge, 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 and February, 1924, **53:** 42 and 113.

From Table 1 it is seen that solar radiation intensities averaged close to normal values for June at all three stations.

Table 2 shows that the total solar and sky radiation received on a horizontal surface averaged decidedly below normal at Washington and Madison and close to normal at Lincoln.

Skylight polarization measurements made on three days at Washington give a mean of 38 per cent, with a maximum of 55 per cent on the 26th. Measurements obtained on five days at Madison give a mean of 60 per cent, with a maximum of 71 per cent on the 30th. The values for Washington are below the average June values, and for Madison they are considerably above.

TABLE 1.—*Solar radiation intensities during June, 1924*

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

Washington, D. C.

Date	8 a.m.	Sun's zenith distance									Noon
		78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	
	75th mer. time	Air mass									Local mean solar time
		A. M.					P. M.				
	e	5.0	4.0	3.0	2.0	[1] 1.0	2.0	3.0	4.0	5.0	e
	mm.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*mm.*
June 5	8.48				0.85		0.97	0.71			7.87
7	9.83		0.53	0.71	0.94	1.26					9.14
15	12.24			0.82		1.30					10.21
20	22.00				0.73	1.16					21.28
24	17.37					1.28					16.20
25	18.59					1.31					19.89
26	11.38					1.35	0.95	0.71			9.83
30	9.47					1.33					8.48
Means			(0.53)	(0.76)	0.84	1.28	(0.96)	(0.71)			
Departures			−0.08	+0.05	−0.04	+0.08	+0.05	−0.01			

[1] Extrapolated.

TABLE 1.—*Solar radiation intensities during June, 1924*—Con.

Madison, Wis.

Date	8 a.m.	Sun's zenith distance									Noon
		78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	
	75th mer. time	Air mass									Local mean solar time
		A. M.					P. M.				
	e	5.0	4.0	3.0	2.0	[1] 1.0	.0	3.0	4.0	5.0	e
	mm.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*mm.*
June 4	7.29					1.17					7.04
6	6.50			1.06							6.78
10	10.21			0.88	1.06						8.81
14	10.59				0.84						13.13
21	12.24				1.15	1.37					8.81
25	10.21				1.06	1.35					9.14
27	13.61		0.77	0.85							13.13
30	8.18		0.95	1.09	1.23	1.40					10.59
Means			(0.86)	0.97	1.07	1.32					
Departures			−0.01	+0.01	−0.02	+0.01					

Lincoln, Nebr.

June 4	9.47		0.77	0.94	1.13	1.38					9.83
10	10.21			0.96							9.83
13	15.11					1.31	1.05				16.79
19	14.10			0.70	0.82		1.06	0.75			13.13
20	13.13						1.16	0.88	0.68		13.61
21	12.24			1.04	1.20	1.42					10.59
23	13.13		0.78		1.01						16.20
27	15.11			0.81							19.23
28	13.61						1.08	0.83	0.68	0.58	10.97
30	9.47		0.85	1.01	1.21	1.42					7.87
Means			0.80	0.91	1.07	1.38	1.09	0.82	(0.68)	(0.58)	
Departures			+0.05	−0.01	−0.01	+0.03	±0.00	−0.07	−0.08		

[1] Extrapolated.

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
	cal.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*
May 28	438	549	503	379	428	−51	+63	−22
June 5	465	411	515	308	433	−31	−87	−27
11	382	390	611	375	368	−111	−121	+56
19	500	404	586	357	411	+6	−121	+9
25	410	497	564			−80	−38	−22
						[1] −1,223	[1] −6,866	[1] +1,977

[1] Excess or deficiency since first of year on July 1.