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SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING APRIL, 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 April at all three stations.

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

Skylight polarization measurements made on 8 days at Washington give a mean of 58 per cent, with a maximum of 62 per cent on the 23d. Measurements obtained on 2 days at Madison give a mean of 64 per cent, with a maximum of 69 per cent on the 18th. These are slightly above the average April values at the respective stations.

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

[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]1.0	2.0	3.0	4.0	5.0	e
	mm.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*mm.*
Apr. 2	2.74					1.41	1.09	0.80			2.87
3	3.45		0.61	0.80	1.01	1.33	1.20	0.98	0.75	0.54	2.74
5	5.36				1.01						5.79
7	3.81	0.75	0.83	0.93							3.81
8	4.57	0.67	0.80	0.98	1.13	1.41					3.45
11	3.63				0.96						3.45
19	4.37		0.60	0.75	0.99						4.57
21	3.99	0.73	0.86	1.01	1.18						8.48
22	9.47					1.40	1.18	0.90			3.30
23	3.81	0.69	0.80	0.96	1.16	1.39	0.74				3.63
24	4.75			0.77	0.96	1.34	0.96				5.79
25	7.04					1.39	1.16	0.99	0.82	0.71	4.57
26	4.75		0.71	0.85	1.11	1.35	1.11				4.17
Means		0.71	0.74	0.88	1.06	1.38	1.06	0.92	(0.78)	(0.62)	
Departures		+0.01	−0.01	±0.00	−0.01	+0.02	−0.02	+0.02	+0.04	+0.03	

TABLE 1.—*Solar radiation intensities during April, 1924*—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.									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*
Apr. 2	2.74				1.29						3.99
9	4.17			1.20	1.34	1.49	1.33				4.37
10	3.45			1.03	1.21	1.52					3.63
18	4.75				1.28						3.45
23	5.36					1.25					5.79
29	6.76				1.15						6.76
Means				(1.12)	1.25	1.42	(1.33)				
Departures				+0.03	+0.02	±0.00	+0.09				

Lincoln, Nebr.

Apr. 1	2.26			1.17	1.32	1.51	1.24	1.07	0.94	0.84	2.87
2	4.17		0.69	0.98	1.20	1.52					5.56
7	5.56	0.64	0.73	0.94							6.27
9	3.63			1.13	1.28	1.52					2.62
14	9.83	0.77	0.88	1.03	1.21	1.44	1.12	0.93	0.78	0.65	8.18
15	9.83		0.88	1.02	1.18						9.14
17	3.81		0.77	1.03	1.31						2.06
18	4.17	0.86	0.97	1.18	1.33	1.51					3.00
22	3.81			0.89							3.63
23	4.37			0.65	0.87	1.29					7.57
24	11.38			0.82							12.68
28	6.02	0.71	0.79	0.95	1.13	1.40					7.57
30	6.02					1.40	1.24	1.07	0.93	0.83	3.81
Means		0.74	0.82	0.98	1.20	1.45	1.20	1.02	0.88	0.77	
Departures		−0.02	−0.02	−0.02	−0.02	±0.00	+0.02	+0.05	+0.04	+0.07	

[1] Extrapolated.

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

Week beginning—	Average daily radiation					Average daily departure from normal		
	Washington	Madison	Lincoln	Chicago	New York	Washington	Madison	Lincoln
1924	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*
Apr. 2	458	383	525	340		+67	+5	+88
9	381	479	560	335		−36	+86	+126
16	356	289	561	232	[1] 250	−67	−123	+120
23	560	301	424	237	506	+122	−132	−33
Excess or deficiency since first of year on Apr. 29						+1,410	−3,592	+846

[1] Six days only.