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SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING NOVEMBER, 1925

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 and January, 1925, **53**: 29.

From Table 1 it is seen that solar radiation intensities averaged above the normal for November at Washington, D. C., and slightly below at Madison, Wis., and Lincoln, Nebr.

Table 2 shows that the solar and sky radiation received on a horizontal surface averaged slightly below the normal for November at Washington and above normal at Madison and Lincoln.

At Washington skylight polarization measurements made on four days give a mean of 63 per cent, with a maximum of 66 per cent on the 9th. At Madison, measurements made on five days give a mean of 61 per cent with a maximum of 66 per cent on the 20th. The values for Washington are close to the November averages, while those for Madison are somewhat below.

TABLE 1.—*Solar radiation intensities during November, 1925*

Washington, D. C.

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

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.*
Nov. 9	3.30		0.81	1.02	1.26	1.49	1.18	1.05	0.92	0.80	2.36
10	3.30	0.71	0.84	1.00	1.13	1.41	1.21				3.15
11	4.75	0.55	0.73	0.91	1.14		1.11	0.94	0.83	0.76	4.57
13	7.29	0.71			1.18						6.50
14	4.75	0.92	1.06	1.19	1.40	1.56	1.37	1.18	1.06	0.97	3.63
18	3.30	1.01	1.08	1.19	1.33						3.63
21	4.37	0.63	0.76	0.93	1.16	1.43	1.18	1.02	0.86	0.77	4.57
23	2.36				1.30						1.96
24	1.68		0.81	0.96	1.21		1.21				2.16
Means		0.76	0.87	1.03	1.23	1.47	1.21	1.05	0.92	0.82	
Departures		+0.01	+0.02	+0.04	+0.05		+0.04	+0.07	+0.10	+0.09	

TABLE 1.—*Solar radiation intensities during November, 1925*—Con.

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] 1.0	2.0	3.0	4.0	5.0	e.
	mm.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*mm.*
Nov. 5	4.17							1.22			4.72
6	3.45			0.82	1.31						4.37
11	4.75							0.95			6.50
13	6.02				1.22			1.08			6.76
17	2.62			1.09	1.24						3.81
20	3.63	0.87	1.00	1.08	1.28			1.21	0.96		5.16
21	4.37	0.85	0.97	1.11	1.28	1.47					4.57
23	1.88		0.91	1.16							2.16
25	3.63	0.83									3.63
28	1.19	1.09	1.19	1.31							1.19
Means		0.91	1.02	1.10	1.27	)		1.12	(0.96)		
Departures		+0.03	+0.01	−0.05	−0.03			−0.04	−0.10		

Lincoln, Nebr.

Nov. 2	3.99		0.99	1.12	1.32		1.20				4.57
5	3.81		0.87	1.21			1.31	1.13			4.57
8	1.88		1.02	1.17	1.34	1.52	1.31	1.17	1.02	0.91	2.87
9	3.30	0.74	0.87	1.15	1.37						5.36
10	3.30	0.79	0.83	0.98	1.13		1.28	1.05	0.92	0.80	7.04
11	4.75	0.92	1.03	1.14	1.27						6.76
12	4.75						1.26	1.15			7.04
16	2.74						1.23	1.19	1.05	0.98	3.99
18	4.17				1.35	1.56	1.41	1.26	1.10		4.75
19	3.45	0.94	1.09	1.18	1.41	1.60	1.40	1.27	1.13	1.02	4.95
20	3.30	0.90	0.96	1.22	1.41	1.63		1.26	1.13	1.02	5.36
21	3.45		0.76	1.26							4.17
30	3.99			1.26	1.40						4.17
Means		0.86	0.94	1.17	1.33	1.58	1.30	1.18	1.06	0.95	
Departures		−0.07	−0.09	−0.02	−0.02		−0.06	−0.02	+0.01	+0.01	

[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
1925	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*
Oct. 29	208	212	261	161	152	−37	+25	+13
Nov. 5	206	183	251	151	134	−17	+14	+19
12	188	129	226	87	140	−11	−19	+11
19	229	152	228	147	114	+53	+18	+26
26	145	117	180	75	98	−13	−8	−8
Excess or deficiency since first of year on Dec. 2						−987	+21	−2,072