



STUDIES OF OREGON'S CLIMATE FOR THE FOREST INDUSTRY

CLIMATOLOGICAL NOTE NUMBER 33

SEPTEMBER 1960

FREQUENCIES OF AMOUNT OF DAILY PRECIPITATION IN THE NORTHEAST RANGELANDS (CONDON, DAYVILLE, ONTARIO)

Question: "During a given 10-day period in the Northeast Rangelands of Oregon, what is the likelihood that precipitation during a day will be light, medium, or heavy?"

Table: As an example of how to read the Table, look at the top row of numbers for the period 1-10 January. The values tabulated are based on actual observations made at the stations indicated during the years 1949-58, and are presented on the basis of "days in 100 days". The numbers 0, 1, 2, and 3 above the columns stand for amount of precipitation as follows:

- | | | |
|---|----------------------|-------------------------|
| 0 | no precipitation | |
| 1 | light precipitation | Trace through 0.09 inch |
| 2 | medium precipitation | 0.1 through 0.49 inch |
| 3 | heavy precipitation | more than 0.49 inch |

That is, during the first third of January at Condon, rainless days have occurred at the rate of 50 days in 100 days, and light precipitation has fallen at the rate of 41 days in 100 days. Combining these two statements, precipitation at Condon during the period has been either absent or light on 50+41, or 91 days in 100 days. This last value for Dayville is 69+15, or 84 days in 100 days, and at Ontario, it is 54+38, or 92 days in 100 days. Conversely, at Ontario precipitation rate has been medium or heavy on 100 - 92, or 8 days in 100 days during the first third of January. Similar combinations of data may be made with respect to various intensities of precipitation at other times of the year.

The data: Because of the nature of precipitation, tabulations here cannot be considered any more than a suggestion of patterns in time and space of precipitation occurring on a given day in the Northeast Rangelands of Oregon. Note that "precipitation" includes rain, snow, hail, and sleet expressed in terms of water equivalent. Similar data for Pendleton and Burns are available in detail as Climatological Notes 9 and 11 of this series.

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CORVALLIS

Daily Frequencies of Precipitation as Days in 100 Days in the Northeast Rangelands

Period		Condon				Dayville				Ontario			
		0*	1	2	3	0	1	2	3	0	1	2	3
Jan.	1 - 10	50	41	8	1	69	15	14	2	54	38	8	
	11 - 20	34	39	27		57	28	14	1	32	49	16	3
	21 - 31	35	45	19	1	56	30	12	2	38	46	15	1
Feb.	1 - 10	48	36	15	1	73	12	14	1	48	36	14	2
	11 - 20	49	35	12	4	61	22	17		45	41	11	3
	21 - 29	56	28	15	1	77	13	10		62	31	7	
Mar.	1 - 10	52	31	17		68	20	11	1	54	35	11	
	11 - 20	44	37	19		61	23	15	1	49	42	9	
	21 - 31	46	38	15	1	62	22	15	1	64	27	9	
Apr.	1 - 10	63	28	9		74	14	12		72	21	7	
	11 - 20	70	21	9		68	14	17	1	77	13	10	
	21 - 30	68	20	12		63	28	8	1	73	18	6	3
May	1 - 10	59	23	13	5	60	20	17	3	61	29	9	1
	11 - 20	69	15	13	3	65	19	12	4	68	18	11	3
	21 - 31	72	19	7	2	71	11	18		72	13	13	2
June	1 - 10	62	23	13	2	65	16	19		64	23	13	
	11 - 20	76	16	8		69	12	17	2	62	32	6	
	21 - 30	76	15	8	1	78	14	8		80	17	3	
July	1 - 10	79	12	8	1	84	10	4	2	88	11	1	
	11 - 20	92	3	5		95	1	4		93	6	1	
	21 - 31	96	2	2		93	4	3		94	4	2	
Aug.	1 - 10	87	12	1		87	9	3	1	84	15	1	
	11 - 20	92	3	5		91	8	1		93	5	2	
	21 - 31	80	13	6	1	84	10	4	2	83	14	3	
Sept.	1 - 10	91	6	2	1	94	4	2		90	8	1	1
	11 - 20	79	14	7		88	5	7		87	11	2	
	21 - 30	84	11	5		86	9	5		83	15	2	
Oct.	1 - 10	70	12	16	2	71	13	14	2	65	16	9	10
	11 - 20	69	22	9		76	15	6	3	65	18	6	11
	21 - 31	64	21	13	2	83	9	6	2	71	21	4	4
Nov.	1 - 10	62	25	5	8	80	13	7		73	22	4	1
	11 - 20	52	25	21	2	58	27	15		56	31	12	1
	21 - 30	55	32	12	1	71	17	11	1	62	31	7	
Dec.	1 - 10	32	46	22		48	33	19		38	45	17	
	11 - 20	41	38	19	2	64	16	20		46	39	15	
	21 - 31	47	37	14	2	66	19	13	2	50	42	7	1

* 0, no precipitation; 1, through 0.09 inch; 2, 0.1 through 0.49 inch; 3, more than 0.49 inch.