



STUDIES OF OREGON'S CLIMATE FOR THE FOREST INDUSTRY

CLIMATOLOGICAL NOTE NUMBER 3

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FREQUENCIES OF VARIOUS FORMS OF PRECIPITATION AND RESTRICTIONS TO VISIBILITY AT EUGENE, OREGON

Question: "During a given 10-day period at Eugene, what is the likelihood that visibility will be restricted by smoke and/or haze some time during the day?"

Table: As an example of how to read the table, look at the row of figures for the period 1-10 January. The figures tabulated are based on the actual observations made at Eugene during the years 1948-54 and 1956-58 and are presented on the basis of "days per 100 days". That is, during the first third of January smoke and/or haze has been observed at the rate of 33 days per 100 days, or 33%. The likelihood that smoke and/or haze will be observed during this period on a given day in the future, therefore, is about 3 chances in 10.

Similar interpretations can be placed on the data for other periods and for the other weather variables shown.

The data: One must keep in mind that the data in the table summarize observations made at the U. S. Weather Bureau Station at Eugene Airport. This means that, for example, sleet in the general vicinity of Eugene would not necessarily have been counted as a day of sleet in these records. The sleet must actually have been observed to fall at the station itself. Similarly, an observer may not have heard a roll of distant thunder even though it did occur. These circumstances, therefore, must be kept in mind when drawing conclusions from or applying the data presented. Even so, the tabulations presented will give the user a good idea of roughly when and to what degree various weather variables may be expected to occur in the Eugene area.

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PRECIPITATION AND RESTRICTIONS TO VISIBILITY AT EUGENE FREQUENCIES IN DAYS/100 DAYS

		Fog	Thunder	Sleet	Hail	Rain	Snow	Glaze	Dust storm	Smoke, haze	Blowing Snow
January	1 - 10	58	2			71	23			33	
	11 - 20	49		4	1	62	24	3		30	
	21 - 31	40	2			60	24	2		27	1
February	1 - 10	49	1	2		69	14	2		4	
	11 - 20	40			1	78	17			32	
	21 - 29	54	1		3	61	3	1		39	
March	1 - 10	31			1	62	18			34	
	11 - 20	21			3	74	13			16	
	21 - 31	24	1		3	68	2			13	
April	1 - 10	14	2		1	53	3			17	
	11 - 20	16	1		1	55				16	
	21 - 30	20	2		5	57	1			22	
May	1 - 10	16	4		3	56				16	
	11 - 20	18	4			47				18	
	21 - 31	14	6		1	44				3	
June	1 - 10	19	10			47				4	
	11 - 20	19	1		1	43				3	
	21 - 30	10	2			31				8	
July	1 - 10	7				19				4	
	11 - 20	7				10				7	
	21 - 31	6				12				4	
August	1 - 10	6	1			18				3	
	11 - 20	15	1			17				22	
	21 - 31	22	1		1	31				18	
September	1 - 10	26	4			24				27	
	11 - 20	38	2			24				51	
	21 - 31	48	22			41				68	
October	1 - 10	59	3		3	50				48	
	11 - 20	70				51				61	
	21 - 30	69			1	54	1			72	
November	1 - 10	79	1			48				69	
	11 - 20	65		1		69	1			46	
	21 - 30	64				59				43	
December	1 - 10	46			3	79	14			32	
	11 - 20	64			4	73	6			38	
	21 - 31	44	1	1	2	68	10	1		24	