Table 1. Frequency of Daily Maximum Temperatures at Portland, Oregon, as Days in 100 Days.

| Period | Temperature, degrees $F$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | $99+$ |
| 1-10 |  | 3 | 20 | 61 | 16 |  |  |  |  |  |
| Jan. 11-20 |  | 7 | 22 | 49 | 20 | 2 |  |  |  |  |
| 21-31 | 1 | 12 | 26 | 40 | 20 | 1 |  |  |  |  |
| $1-10$ | 1 | 4 | 14 | 44 | 36 | 1 |  |  |  |  |
| Feb. 11-20 |  |  | 10 | 47 | 39 | 4 |  |  |  |  |
| 21-29 |  |  | 2 | 45 | 42 | 11 |  |  |  |  |
| 1-10 |  |  | 5 | 40 | 49 | 5 | 1 |  |  |  |
| Mar. 11-20 |  |  |  | 36 | 55 | 8 | 1 |  |  |  |
| 21-31 |  |  | 1 | 11 | 70 | 17 | 1 |  |  |  |
| 1-10 |  |  |  | 5 | 55 | 26 | 14 |  |  |  |
| Apr. $11-20$ |  |  |  | 4 | 43 | 33 | 17 | 3 |  |  |
| 21-30 |  |  |  | 5 | 45 | 35 | 13 | 2 |  |  |
| 1-10 |  |  |  |  | 26 | 51 | 16 | 7 |  |  |
| May 11-20 |  |  |  |  | 19 | 40 | 24 | 17 |  |  |
| 21-31 |  |  |  |  | 15 | 45 | 29 | 11 |  |  |
| 1-10 |  |  |  |  | 8 | 38 | 41 | 8 | 5 |  |
| June 11-20 |  |  |  |  | 5 | 43 | 39 | 11 | 2 |  |
| 21-30 |  |  |  |  |  | 49 | 35 | 11 | 5 |  |
| 1-10 |  |  |  |  |  | 21 | 45 | 27 | 7 |  |
| July 11-20 |  |  |  |  |  | 6 | 52 | 34 | 7 | 1 |
| 21-31 |  |  |  |  |  | 12 | 46 | 37 | 4 | 1 |
| $1-10$ |  |  |  |  | 1 | 10 | 57 | 25 | 7 |  |
| Aug. 11-20 |  |  |  |  |  | 7 | 52 | 29 | 12 |  |
| 21-31 |  |  |  |  |  | 20 | 53 | 22 | 5 |  |
| 1-10 |  |  |  |  |  | 18 | 39 | 35 | 8 |  |
| Sept. 11-20 |  |  |  |  | 1 | 29 | 47 | 19 | 4 |  |
| 21-30 |  |  |  |  | 4 | 44 | 35 | 12 | 5 |  |
| 1-10 |  |  |  |  | 20 | 54 | 19 | 7 |  |  |
| Oct. 11-20 |  |  |  |  | 31 | 53 | 16 |  |  |  |
| 21-31 |  |  |  |  | 7 | 51 | 39 | 3 |  |  |
| 1-10 |  |  |  |  | 7 | 73 | 20 |  |  |  |
| Nov. $11-20$ |  |  | 5 | 2 | 34 | 54 | 5 |  |  |  |
| 21-30 |  |  |  | 4 | 39 | 51 | 6 |  |  |  |
| 1-10 |  |  | 1 | 8 | 54 | 37 |  |  |  |  |
| Dec. $11-20$ |  |  |  | 10 | 56 | 33 | 1 |  |  |  |
| 21-31 |  |  |  | 18 | 55 | 25 | 2 |  |  |  |

Table 2. Frequency of Daily Minimum Temperatures at Portland, Oregon, as Days in 100 Days.


Table 3. Occurrence of Extremes in High and Low Temperatures at Portland.

| Frequency | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Days with maximum temperatures 90 F or above |  |  |  |  |  |  |  |  |  |  |  |  |
| Most in a year | 0 | 0 | 0 | 0 | 0 | 4 | 8 | 8 | 4 | 0 | 0 | 0 |
| Mean | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 1 | 0 | 0 | 0 |
| Fewest in a year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Days with minimum temperatures 32 F or below |  |  |  |  |  |  |  |  |  |  |  |  |
| Most in a year | 31 | 17 | 14 | 3 | 1 | 0 | 0 | 0 | 0 | 4 | 14 | 16 |
| Mean | 13 | 10 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 7 |
| Fewest in a year | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |

Question: "In a given month at Portland, what is the greatest frequency of high daily temperature maxima observed, and how does it compare with the average frequency?"
Table 3: To give the reader an idea of the variability of temperature extremes in a given period from one year to another, data on the range of frequencies of high and low temperatures together with average frequencies are presented in Table 3. This Table is developed from the same observations as the other Tables of this Note, but presents them differently. Interpretation of data such as in Table 3 is considered in some detail on page 15 of Note 22, "Putting Weather Records to Work."
The data: One must keep in mind that the observations of temperature summarized in these Tables were made about five feet above a grassy plot in the official U.S. Weather Bureau instrument shelter at Portland International Airport. Not only will temperatures vary from place to place at a given time, but also they will be different nearer the earth's surface or farther from it than in the official shelter. In short, values presented here cannot be considered more than a suggestion of the patterns in time and space of temperature occurring on a given day.

Even with these various restrictions on interpreting the data, they will give the reader a rough idea of the levels of temperature extreme likely at different times of the year in the Portland area.

For detailed information on dates of last freeze in the spring and first freeze in the fall at various locations in Oregon, the reader may wish to refer to a publication soon to be made available by the Oregon Agricultural Experiment Station, Corvallis.

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