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# Local Climatological Data for Oregon State University 1979

## With Normals, Means, and Extremes

Special Report 585  
May 1980



Agricultural Experiment Station  
Oregon State University, Corvallis

## PREFACE

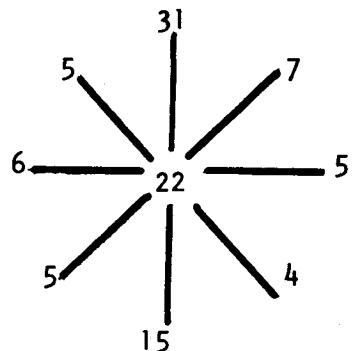
Climatological observations for Oregon State University or the Corvallis, Oregon, area have been made at several locations on the campus (formerly Oregon State College) or at the Hyslop Agronomy Farm. There have been several publications of these data. Miscellaneous Paper 105, Agricultural Experiment Station, Oregon State University, "A Summary of Climate and Weather for Corvallis, Oregon, 1899 Through 1960" by Wheeler Calhoun, was published in March 1961. Jointly, the National Weather Service (or former Weather Bureau) and the Agricultural Experiment Station published Special Report 193 in May 1955, Special Report 277 in June 1969 and revisions of Special Report 277 each year beginning in 1970.

In September 1979, the National Weather Service closed its office at Oregon State University. Climatological observations are being continued by the Crop Science Department at the Hyslop Field Laboratory. Annual publications by the Crop Science Department and the Agricultural Experiment Station are planned.

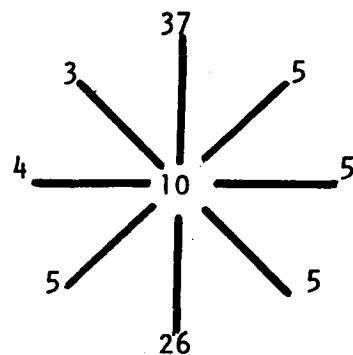
Earl M. Bates  
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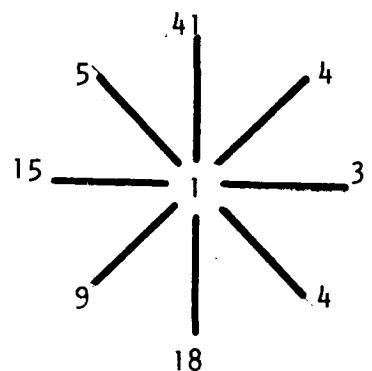
### WIND DIRECTIONS



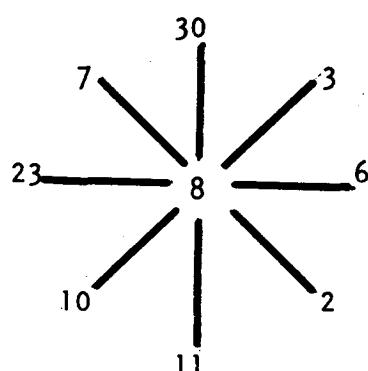
Time: 10PM to 5AM PST



Time: 6AM to 10AM PST



Time: 11AM to 5PM PST



Time: 6PM to 9PM PST

Wind roses for four different time periods of the day at the Hyslop Field Lab.

The number in the center of the wind roses is the percent of time the wind was calm. Numbers at each of the compass points indicate the percentage of time the wind was from that direction.

## WIND VELOCITIES

The Monthly Frequency of Duration of Consecutive Hours of Wind  
in Ranges of 15 to 19 MPH and 20 MPH and Above for April Through October

Hyslop Field Lab

| Month     | Range of<br>Wind in MPH | Number of Consecutive Hours |   |   |   |   |                |
|-----------|-------------------------|-----------------------------|---|---|---|---|----------------|
|           |                         | 1                           | 2 | 3 | 4 | 5 | greater than 5 |
| April     | 15 to 19                | 11                          | 5 | 1 |   |   |                |
|           | 20 or greater           | 1                           |   |   |   |   |                |
| May       | 15 to 19                | 2                           | 0 | 1 | 1 | 0 | 1              |
|           | 20 or greater           | 0                           |   |   |   |   |                |
| June      | 15 to 19                | 8                           |   |   |   |   |                |
|           | 20 or greater           | 0                           |   |   |   |   |                |
| July      | 15 to 19                | 2                           |   |   |   |   |                |
|           | 20 or greater           | 0                           |   |   |   |   |                |
| August    | 15 to 19                | 3                           | 1 | 0 | 3 |   |                |
|           | 20 or greater           | 0                           |   |   |   |   |                |
| September | 15 to 19                | 11                          | 5 | 4 | 1 | 1 |                |
|           | 20 or greater           | 0                           |   |   |   |   |                |
| October   | 15 to 19                | 8                           | 3 | 0 | 1 | 1 | 1              |
|           | 20 or greater           | 0                           | 1 |   |   |   |                |

This table shows the number of times (frequency) per month that wind at velocities of 15 to 19 MPH and 20 MPH and greater are likely to occur for periods of 1, 2, 3, 4, 5, or more than 5 consecutive hours (duration) at a time.

MONTHLY EVAPORATION FOR CROP SEASON

From Standard Weather Bureau  
Open Pan (1953-1978)  
(inches)

| Year | Apr  | May  | Jun  | Jul   | Aug  | Sept | Oct  |
|------|------|------|------|-------|------|------|------|
| 1953 | .73  | 2.64 | 3.43 | 6.77  | 5.48 | 4.13 | 1.65 |
| 1954 | 3.01 | 4.19 | 3.43 | 5.06  | 3.77 | 2.70 | 1.34 |
| 1955 | 1.16 | 4.44 | 5.04 | 5.30  | 6.72 | 4.25 | 1.30 |
| 1956 | 2.99 | 4.52 | 4.53 | 7.74  | 5.72 | 4.26 | 1.66 |
| 1957 | 2.71 | 3.43 | 4.62 | 7.05  | 5.87 | 5.07 | 1.55 |
| 1958 | 1.11 | 5.20 | 4.51 | 8.29  | 8.31 | 4.80 | 2.54 |
| 1959 | 2.80 | 3.27 | 5.00 | 9.13  | 8.11 | 3.57 | 1.84 |
| 1960 | 2.37 | 2.90 | 7.27 | 9.89  | 6.87 | 4.72 | 2.30 |
| 1961 | 2.01 | 2.33 | 6.97 | 8.53  | 7.06 | 4.55 | 1.97 |
| 1962 | 3.24 | 3.26 | 6.87 | 8.13  | 6.74 | 5.01 | 1.05 |
| 1963 | 2.61 | 4.31 | 5.20 | 6.52  | 8.16 | 4.68 | 1.63 |
| 1964 | 2.75 | 4.25 | 4.75 | 6.77  | 6.20 | 4.56 | 2.26 |
| 1965 | 2.86 | 4.96 | 6.31 | 8.96  | 6.35 | 6.57 | 2.04 |
| 1966 | 3.99 | 6.16 | 7.49 | 8.31  | 8.77 | 4.69 | 2.62 |
| 1967 | 2.61 | 5.61 | 6.69 | 9.08  | 8.69 | 6.49 | 2.18 |
| 1968 | **   | 3.83 | 6.17 | 8.35  | 5.39 | 3.96 | 1.61 |
| 1969 | 2.73 | 5.83 | 5.36 | 7.61  | 8.31 | 4.34 | 1.25 |
| 1970 | 3.21 | 4.87 | 7.08 | 9.36  | 8.19 | 4.86 | 2.81 |
| 1971 | 3.33 | 5.48 | 4.91 | 7.82  | 6.99 | 5.22 | 2.28 |
| 1972 | 2.23 | 5.58 | 6.00 | 10.27 | 8.42 | 5.40 | 3.15 |
| 1973 | 4.41 | 6.10 | 6.50 | 9.48  | 6.88 | 5.54 | 2.11 |
| 1974 | 2.70 | 4.16 | 6.99 | 6.82  | 8.92 | 6.97 | 3.22 |
| 1975 | 2.55 | 5.12 | 6.05 | 7.09  | 6.16 | 6.96 | 1.55 |
| 1976 | 2.64 | 4.85 | 5.97 | 7.61  | 5.58 | 5.03 | 2.71 |
| 1977 | 3.55 | 4.47 | 6.70 | 7.68  | 7.95 | 3.32 | **   |
| 1978 | 2.63 | 3.55 | 5.41 | 6.57  | 5.82 | 2.70 | 2.10 |
| 1979 | 2.33 | 4.86 | 6.42 | 7.47  | 5.89 | 3.92 | 2.58 |
| MEAN | 2.66 | 4.46 | 5.77 | 7.85  | 6.94 | 4.75 | 2.05 |

\*\*Missing data

AVERAGE MONTHLY MAXIMUM TEMPERATURES  
1931-1975

| Year | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1931 | 50.2 | 52.9 | 57.5 | 67.3 | 75.2 | 73.5 | 84.8 | 83.6 | 73.1  | 65.0 | 51.5 | 45.4 |
| 1932 | 46.0 | 49.2 | 55.1 | 61.6 | 66.7 | 78.5 | 76.5 | 79.9 | 79.5  | 67.5 | 55.3 | 43.6 |
| 1933 | 44.1 | 45.9 | 54.6 | 63.5 | 60.4 | 71.3 | 81.9 | 83.0 | 68.6  | 67.5 | 52.9 | 51.2 |
| 1934 | 51.6 | 56.6 | 63.2 | 66.8 | 68.3 | 72.4 | 76.8 | 80.5 | 73.7  | 65.7 | 53.1 | 46.6 |
| 1935 | 44.6 | 50.5 | 49.7 | 59.8 | 69.6 | 76.2 | 79.9 | 83.7 | 81.7  | 63.3 | 49.9 | 46.8 |
| 1936 | 49.9 | 44.6 | 54.8 | 65.9 | 71.2 | 75.2 | 80.2 | 82.4 | 77.5  | 72.1 | 55.3 | 48.3 |
| 1937 | 38.3 | 47.8 | 57.6 | 58.3 | 70.1 | 74.6 | 81.5 | 80.2 | 76.3  | 69.5 | 54.8 | 49.0 |
| 1938 | 46.8 | 51.0 | 55.6 | 64.3 | 71.5 | 77.9 | 86.2 | 79.7 | 79.5  | 64.7 | 50.9 | 50.3 |
| 1939 | 49.1 | 47.4 | 58.5 | 67.6 | 71.6 | 72.9 | 83.0 | 84.5 | 77.6  | 65.4 | 56.7 | 51.9 |
| 1940 | 49.1 | 53.1 | 60.5 | 65.1 | 74.5 | 81.0 | 80.1 | 84.2 | 75.4  | 66.7 | 51.7 | 50.4 |
| 1941 | 49.4 | 56.5 | 65.1 | 66.1 | 68.5 | 73.0 | 86.7 | 79.1 | 70.7  | 63.7 | 54.0 | 48.0 |
| 1942 | 43.5 | 51.6 | 57.0 | 64.8 | 66.9 | 72.4 | 83.0 | 84.1 | 79.7  | 68.8 | 53.5 | 50.0 |
| 1943 | 42.1 | 55.9 | 56.2 | 66.3 | 67.1 | 71.9 | 82.1 | 78.4 | 81.5  | 63.9 | 54.6 | 47.3 |
| 1944 | 47.3 | 52.0 | 57.5 | 60.8 | 68.8 | 73.8 | 81.5 | 82.2 | 81.1  | 70.5 | 52.3 | 46.4 |
| 1945 | 49.8 | 52.9 | 53.6 | 59.6 | 69.5 | 75.4 | 84.6 | 83.0 | 75.5  | 68.3 | 51.6 | 48.0 |
| 1946 | 47.3 | 50.4 | 56.2 | 63.1 | 72.8 | 71.4 | 74.8 | 83.2 | 74.5  | 60.5 | 52.1 | 47.9 |
| 1947 | 43.7 | 56.1 | 61.4 | 65.4 | 74.8 | 71.1 | 77.3 | 80.2 | 79.1  | 62.7 | 55.1 | 49.7 |
| 1948 | 49.5 | 48.9 | 53.9 | 56.1 | 66.2 | 78.1 | 78.8 | 77.0 | 75.6  | 62.7 | 51.0 | 43.1 |
| 1949 | 38.6 | 48.8 | 55.9 | 66.2 | 72.0 | 76.8 | 79.4 | 79.1 | 76.4  | 61.1 | 58.2 | 47.1 |
| 1950 | 36.8 | 49.5 | 53.0 | 60.6 | 68.8 | 74.1 | 82.9 | 85.9 | 78.3  | 60.3 | 54.6 | 53.7 |
| 1951 | 46.2 | 52.4 | 51.6 | 68.2 | 69.3 | 80.2 | 81.4 | 84.3 | 78.9  | 63.2 | 53.7 | 44.9 |
| 1952 | 45.0 | 50.9 | 53.3 | 65.6 | 65.6 | 69.8 | 84.0 | 81.1 | 80.6  | 71.9 | 46.3 | 48.0 |
| 1953 | 51.5 | 51.4 | 53.3 | 58.8 | 62.3 | 66.2 | 79.7 | 77.5 | 76.6  | 64.8 | 54.3 | 47.7 |
| 1954 | 45.6 | 50.8 | 53.6 | 59.4 | 68.2 | 66.9 | 76.1 | 76.0 | 72.4  | 63.3 | 55.9 | 46.8 |
| 1955 | 43.7 | 48.3 | 48.9 | 53.1 | 64.5 | 71.9 | 73.6 | 80.7 | 74.1  | 62.3 | 48.3 | 46.5 |
| 1956 | 46.4 | 41.6 | 51.3 | 62.2 | 69.9 | 68.6 | 82.8 | 79.7 | 76.5  | 61.2 | 50.5 | 45.0 |
| 1957 | 37.6 | 49.3 | 53.1 | 61.1 | 67.5 | 72.9 | 78.1 | 77.5 | 79.9  | 63.1 | 52.6 | 48.6 |
| 1958 | 47.2 | 54.4 | 53.9 | 58.6 | 73.0 | 73.7 | 86.0 | 86.7 | 75.4  | 67.5 | 53.5 | 51.0 |
| 1959 | 47.6 | 48.8 | 54.3 | 61.2 | 63.5 | 71.4 | 83.7 | 81.2 | 70.0  | 64.0 | 53.6 | 45.4 |
| 1960 | 41.3 | 49.1 | 53.3 | 59.3 | 62.0 | 75.2 | 85.2 | 78.0 | 75.7  | 65.3 | 52.8 | 45.6 |
| 1961 | 50.2 | 52.7 | 53.4 | 59.0 | 63.5 | 77.3 | 81.7 | 84.8 | 72.1  | 63.6 | 49.8 | 47.0 |
| 1962 | 43.8 | 48.8 | 51.4 | 62.5 | 59.5 | 72.6 | 80.5 | 78.2 | 76.1  | 61.7 | 54.4 | 47.3 |
| 1963 | 41.5 | 56.1 | 53.8 | 54.6 | 66.7 | 70.3 | 74.0 | 78.7 | 77.4  | 64.3 | 52.4 | 45.4 |
| 1964 | 47.0 | 49.9 | 51.7 | 57.0 | 63.0 | 69.0 | 78.5 | 77.2 | 73.3  | 66.3 | 48.1 | 45.6 |
| 1965 | 44.1 | 50.5 | 59.0 | 61.3 | 64.6 | 72.3 | 82.6 | 79.9 | 74.9  | 65.8 | 54.2 | 43.6 |
| 1966 | 45.0 | 48.9 | 52.5 | 63.0 | 69.3 | 73.7 | 78.5 | 81.6 | 76.0  | 64.2 | 54.3 | 49.1 |
| 1967 | 48.8 | 52.6 | 52.0 | 54.7 | 68.2 | 76.9 | 84.1 | 88.9 | 82.1  | 63.1 | 54.0 | 46.5 |
| 1968 | 45.5 | 56.5 | 56.5 | 58.9 | 64.8 | 72.8 | 81.4 | 76.2 | 72.7  | 61.8 | 52.9 | 44.0 |
| 1969 | 39.9 | 46.5 | 57.3 | 58.7 | 70.0 | 74.5 | 78.9 | 79.0 | 74.8  | 60.4 | 52.6 | 46.9 |
| 1970 | 45.7 | 54.3 | 55.6 | 55.9 | 66.6 | 77.4 | 82.2 | 81.9 | 71.9  | 63.1 | 54.0 | 45.1 |
| 1971 | 44.1 | 48.5 | 50.2 | 58.0 | 66.5 | 67.5 | 80.9 | 83.1 | 72.0  | 61.0 | 50.5 | 44.5 |
| 1972 | 44.5 | 50.6 | 56.7 | 55.4 | 69.0 | 73.1 | 84.8 | 85.0 | 72.7  | 65.2 | 53.6 | 43.0 |
| 1973 | 44.8 | 52.6 | 53.3 | 60.9 | 70.1 | 73.4 | 82.9 | 78.9 | 75.1  | 62.0 | 49.3 | 48.9 |
| 1974 | 43.5 | 47.3 | 54.0 | 57.5 | 63.6 | 74.6 | 77.5 | 82.2 | 83.6  | 68.1 | 53.4 | 49.3 |
| 1975 | 48.0 | 48.1 | 52.1 | 54.5 | 65.9 | 71.6 | 79.8 | 76.0 | 80.6  | 60.5 | 51.9 | 48.4 |

Station moved from O.S.U. Campus to Hyslop Agronomy Farm, May 1952.

AVERAGE MONTHLY MINIMUM TEMPERATURES  
1931-1975

| Year | Jan. | Feb. | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|------|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1931 | 37.0 | 34.5 | 39.8 | 43.3 | 47.4 | 50.6 | 53.8 | 52.6 | 50.0  | 44.8 | 36.3 | 35.3 |
| 1932 | 34.3 | 35.5 | 40.8 | 41.0 | 45.5 | 51.1 | 51.1 | 55.2 | 48.5  | 46.2 | 41.5 | 30.9 |
| 1933 | 33.9 | 32.0 | 38.2 | 39.6 | 43.7 | 50.3 | 52.5 | 53.6 | 48.6  | 38.5 | 37.5 | 42.4 |
| 1934 | 40.8 | 39.3 | 44.0 | 44.9 | 48.3 | 50.4 | 53.0 | 53.0 | 48.2  | 46.9 | 44.2 | 37.1 |
| 1935 | 32.7 | 36.2 | 35.3 | 41.2 | 42.2 | 50.5 | 52.5 | 53.0 | 51.3  | 42.6 | 35.5 | 34.3 |
| 1936 | 38.1 | 31.1 | 37.4 | 43.6 | 49.0 | 53.1 | 54.5 | 53.8 | 48.8  | 43.7 | 32.6 | 37.9 |
| 1937 | 25.9 | 35.1 | 40.8 | 40.1 | 45.9 | 53.3 | 54.7 | 52.2 | 51.5  | 47.6 | 44.0 | 37.7 |
| 1938 | 35.0 | 35.8 | 38.0 | 42.8 | 46.3 | 50.6 | 54.5 | 51.2 | 53.2  | 45.7 | 35.8 | 36.0 |
| 1939 | 36.7 | 34.1 | 38.7 | 42.5 | 46.0 | 48.9 | 53.0 | 53.0 | 51.1  | 45.9 | 40.6 | 40.4 |
| 1940 | 34.8 | 40.0 | 41.8 | 42.9 | 47.6 | 50.7 | 54.1 | 54.1 | 53.9  | 49.6 | 37.1 | 37.7 |
| 1941 | 37.2 | 37.6 | 40.6 | 42.0 | 46.3 | 51.2 | 56.2 | 55.2 | 50.4  | 44.8 | 40.6 | 38.0 |
| 1942 | 30.7 | 33.7 | 36.3 | 42.3 | 44.6 | 50.0 | 55.3 | 53.8 | 48.3  | 43.5 | 39.5 | 39.0 |
| 1943 | 29.0 | 36.0 | 37.3 | 42.3 | 43.7 | 48.6 | 51.8 | 51.6 | 50.6  | 46.2 | 38.2 | 32.5 |
| 1944 | 32.5 | 35.5 | 35.8 | 40.4 | 43.6 | 48.1 | 52.1 | 51.7 | 50.0  | 46.5 | 36.5 | 30.7 |
| 1945 | 34.0 | 37.5 | 36.4 | 39.9 | 46.6 | 49.2 | 51.7 | 50.6 | 46.9  | 41.1 | 40.0 | 35.4 |
| 1946 | 34.0 | 35.4 | 37.1 | 39.1 | 45.1 | 47.0 | 51.5 | 50.9 | 46.1  | 40.3 | 35.2 | 36.6 |
| 1947 | 30.5 | 35.7 | 39.5 | 41.6 | 45.8 | 49.3 | 51.0 | 49.0 | 48.6  | 46.1 | 39.5 | 35.5 |
| 1948 | 31.1 | 33.7 | 35.5 | 38.4 | 44.9 | 52.2 | 51.3 | 51.8 | 47.3  | 41.8 | 37.1 | 31.0 |
| 1949 | 22.0 | 33.5 | 39.7 | 41.7 | 46.6 | 49.2 | 50.9 | 52.0 | 50.4  | 38.7 | 41.2 | 35.6 |
| 1950 | 25.9 | 34.3 | 37.5 | 39.5 | 42.6 | 50.0 | 52.4 | 52.1 | 48.6  | 46.1 | 40.9 | 42.5 |
| 1951 | 34.7 | 36.9 | 34.0 | 39.2 | 44.6 | 48.5 | 50.2 | 49.5 | 48.3  | 44.9 | 39.5 | 33.5 |
| 1952 | 33.9 | 35.9 | 37.8 | 40.5 | 40.9 | 46.0 | 49.6 | 48.6 | 46.5  | 51.6 | 30.5 | 34.8 |
| 1953 | 41.0 | 35.1 | 35.6 | 39.4 | 43.6 | 46.9 | 49.3 | 52.3 | 49.8  | 41.2 | 39.8 | 35.8 |
| 1954 | 33.0 | 32.6 | 31.7 | 38.5 | 43.4 | 47.4 | 49.4 | 50.1 | 46.2  | 38.6 | 41.1 | 32.7 |
| 1955 | 32.1 | 31.1 | 32.8 | 35.6 | 39.9 | 47.1 | 48.7 | 47.1 | 45.5  | 43.0 | 36.3 | 34.9 |
| 1956 | 35.4 | 30.2 | 35.7 | 39.0 | 46.0 | 46.6 | 50.8 | 50.6 | 47.1  | 40.8 | 32.7 | 33.8 |
| 1957 | 25.8 | 34.5 | 39.5 | 40.8 | 47.5 | 49.5 | 49.1 | 48.4 | 48.8  | 42.3 | 31.2 | 36.7 |
| 1958 | 34.7 | 41.2 | 34.6 | 40.9 | 46.7 | 53.6 | 54.5 | 52.7 | 48.6  | 41.5 | 38.9 | 38.2 |
| 1959 | 35.9 | 33.6 | 35.8 | 39.1 | 42.7 | 49.0 | 51.4 | 49.2 | 47.8  | 43.9 | 34.1 | 33.5 |
| 1960 | 29.7 | 34.4 | 35.8 | 39.7 | 42.7 | 47.9 | 49.2 | 49.2 | 46.9  | 41.7 | 37.2 | 31.8 |
| 1961 | 36.1 | 39.2 | 38.2 | 40.2 | 44.9 | 49.6 | 50.9 | 52.6 | 45.1  | 40.6 | 33.5 | 35.1 |
| 1962 | 29.5 | 33.8 | 35.2 | 40.6 | 42.4 | 45.5 | 48.7 | 50.0 | 48.5  | 43.5 | 39.3 | 35.9 |
| 1963 | 26.7 | 39.0 | 35.5 | 38.9 | 43.8 | 48.1 | 50.0 | 51.6 | 51.1  | 43.0 | 39.7 | 32.2 |
| 1964 | 34.6 | 31.9 | 34.9 | 37.8 | 40.3 | 47.5 | 50.7 | 50.4 | 43.9  | 40.7 | 35.6 | 34.8 |
| 1965 | 35.0 | 35.9 | 35.9 | 40.7 | 40.8 | 46.2 | 50.5 | 53.1 | 46.1  | 43.8 | 41.4 | 32.6 |
| 1966 | 34.2 | 32.6 | 36.6 | 39.3 | 42.2 | 48.3 | 50.9 | 50.7 | 49.7  | 40.9 | 39.7 | 38.5 |
| 1967 | 37.5 | 33.6 | 35.3 | 34.8 | 41.8 | 49.9 | 50.4 | 52.9 | 48.8  | 42.6 | 39.7 | 35.4 |
| 1968 | 33.9 | 39.6 | 37.7 | 35.8 | 42.7 | 48.1 | 50.0 | 51.9 | 48.0  | 40.1 | 38.3 | 32.4 |
| 1969 | 28.4 | 32.1 | 34.1 | 37.6 | 45.8 | 53.6 | 49.7 | 47.9 | 48.9  | 41.3 | 37.2 | 35.9 |
| 1970 | 36.2 | 35.4 | 36.5 | 36.9 | 42.0 | 50.2 | 50.2 | 48.9 | 45.4  | 39.4 | 37.8 | 34.0 |
| 1971 | 34.9 | 33.3 | 34.6 | 37.8 | 42.9 | 46.5 | 50.6 | 52.0 | 46.0  | 39.7 | 37.4 | 33.4 |
| 1972 | 32.4 | 35.2 | 40.2 | 37.1 | 44.2 | 49.9 | 52.8 | 52.6 | 46.2  | 40.6 | 40.8 | 27.2 |
| 1973 | 31.3 | 36.8 | 36.3 | 39.1 | 43.5 | 49.6 | 51.0 | 48.6 | 50.5  | 43.6 | 38.3 | 38.5 |
| 1974 | 29.9 | 35.0 | 37.2 | 40.7 | 42.4 | 48.4 | 49.5 | 51.8 | 48.2  | 37.4 | 38.5 | 37.1 |
| 1975 | 36.8 | 34.0 | 35.8 | 35.1 | 42.4 | 46.7 | 51.1 | 50.4 | 46.6  | 43.7 | 35.5 | 36.0 |

Station moved from O.S.U. Campus to Hyslop Agronomy Farm, May 1952.

Latitude 44° 38'  
Longitude 123° 12'  
Elevation (ground) 225 ft.

# METEOROLOGICAL DATA

| Month | Temperature   |               |         |          |        |        |                 | Degree days | Precipitation |                     |       |             |                     |        |  |
|-------|---------------|---------------|---------|----------|--------|--------|-----------------|-------------|---------------|---------------------|-------|-------------|---------------------|--------|--|
|       | Averages      |               |         | Extremes |        |        |                 |             | Total         | Greatest in 24 hrs. | Date  | Snow, Sleet |                     |        |  |
|       | Daily maximum | Daily minimum | Monthly | Highest  | Date   | Lowest | Date            |             |               |                     |       | Total       | Greatest in 24 hrs. | Date   |  |
| J     | 37.5          | 25.7          | 31.6    | 53       | 21     | 12     | 1               |             | 25.7          | 1.06                | 10    | .8          | .5                  | 28     |  |
| F     | 47.1          | 36.0          | 41.6    | 56       | 13     | 13     | 2               |             | 8.35          | 1.80                | 7     | .3          | .3                  | 3      |  |
| M     | 58.3          | 38.6          | 48.5    | 70       | 14     | 32     | 22              |             | 2.89          | .64                 | 5     | 0           | 0                   | -      |  |
| A     | 59.2          | 41.3          | 50.3    | 77       | 27     | 33     | 19              |             | 2.93          | .36                 | 6     | 0           | 0                   | -      |  |
| M     | 68.0          | 43.5          | 55.7    | 85       | 26     | 33     | 29              |             | 2.11          | .64                 | 5     | 0           | 0                   | -      |  |
| J     | 75.7          | 46.4          | 61.1    | 91       | 3      | 36     | 7               |             | .38           | .25                 | 17    | 0           | 0                   | -      |  |
| J     | 82.0          | 50.9          | 66.5    | 102      | 17     | 43     | 4               |             | .43           | .23                 | 10    | 0           | 0                   | -      |  |
| A     | 78.8          | 50.8          | 64.8    | 93       | 1      | 44     | 6               |             | 2.67          | 1.24                | 22    | 0           | 0                   | -      |  |
| S     | 76.5          | 50.0          | 63.3    | 92       | 14     | 39     | 29              |             | 2.15          | .95                 | 2     | 0           | 0                   | -      |  |
| O     | 67.4          | 45.9          | 56.7    | 86       | 4      | 36     | 17              |             | 7.21          | 1.53                | 19    | 0           | 0                   | -      |  |
| N     | 51.2          | 36.1          | 43.7    | 63       | 8      | 36     | 15              |             | 4.11          | .73                 | 23    | 0           | 0                   | -      |  |
| D     | 49.9          | 37.1          | 43.5    | 63       | 18     | 29     | 12 <sup>φ</sup> |             | 6.26          | 1.49                | 2     | 0           | 0                   | -      |  |
| Year  | 62.6          | 42.7          | 52.3    | 102      | Jul 17 | 12     | Jan 1           |             | 42.06         | 1.80                | Feb 1 | 1.1         | .5                  | Jan 28 |  |

## NORMALS, MEANS

| Month | Temperature   |               |         |                |                   |               |                   | Normal degree days | Precipitation |                 |          |                 |                   |  |
|-------|---------------|---------------|---------|----------------|-------------------|---------------|-------------------|--------------------|---------------|-----------------|----------|-----------------|-------------------|--|
|       | Normal        |               |         | Extremes       |                   |               |                   |                    | Normal total  | Maximum monthly | Year     | Minimum monthly | Year              |  |
|       | Daily maximum | Daily minimum | Monthly | Record highest | Year              | Record lowest | Year              |                    |               |                 |          |                 |                   |  |
| (a)   | 30e           | 30e           | 30+     | 90             | 1940 <sup>φ</sup> | -1            | 1950              | 30e                | 30+           | 90              | 90       | 69              | 34                |  |
| J     | 44.4          | 32.1          | 38.8    | 64             | 1940 <sup>φ</sup> | -1            | 1950              | 830                | 7.06          | 15.51           | 1970     | .96             | 1977              |  |
| F     | 49.5          | 34.7          | 43.1    | 69             | 1916 <sup>φ</sup> | -5            |                   | 658                | 4.63          | 15.23           | 1904     | .12             | 1920              |  |
| M     | 54.0          | 36.8          | 45.5    | 78             | 1947 <sup>φ</sup> | 12            | 1971              | 597                | 4.20          | 11.70           | 1904     | .43             | 1926              |  |
| A     | 61.0          | 40.5          | 50.1    | 91             | 1926              | 24            | 1968 <sup>φ</sup> | 423                | 2.05          | 7.99            | 1937     | .22             | 1939              |  |
| M     | 67.7          | 45.5          | 55.7    | 99             | 1922              | 28            | 1915 <sup>φ</sup> | 279                | 1.77          | 5.71            | 1896     | .16             | 1947              |  |
| J     | 72.9          | 49.2          | 61.0    | 102            | 1925              | 32            | 1929 <sup>φ</sup> | 126                | 1.15          | 3.84            | 1952     | 0               | 1918              |  |
| J     | 81.2          | 51.6          | 65.9    | 107            | 1946              | 36            | 1921 <sup>φ</sup> | 0                  | .33           | 2.72            | 1947     | 0               | 1967              |  |
| A     | 81.1          | 51.2          | 65.8    | 105            | 1972              | 35            | 1910              | 0                  | .55           | 5.24            | 1968     | 0               | 1955              |  |
| S     | 75.8          | 48.3          | 62.0    | 103            | 1944              | 26            | 1919              | 86                 | 1.31          | 5.40            | 1920     | 0               | 1975              |  |
| O     | 64.2          | 43.0          | 53.2    | 90             | 1936 <sup>φ</sup> | 13            | 1919              | 349                | 3.78          | 9.70            | 1950     | T               | 1918 <sup>φ</sup> |  |
| N     | 52.2          | 37.2          | 45.3    | 73             | 1890              | 10            | 1896              | 598                | 6.04          | 18.28           | 1973     | .22             | 1890              |  |
| D     | 46.8          | 35.1          | 41.0    | 66             | 1950 <sup>φ</sup> | -14           | 1919              | 739                | 6.83          | 14.47           | 1968     | 1.47            | 1976              |  |
| Yr.   | 62.6          | 42.1          | 52.3    | 107            | Jul 1946          | -14           | Dec 1919          | 4685               | 39.70         | 18.28           | Nov 1973 | 0               | Sep 1975          |  |
|       |               |               |         |                |                   |               |                   |                    |               |                 |          | 4.28            | Jan 1941          |  |
|       |               |               |         |                |                   |               |                   |                    |               |                 |          | 7.5             | Jan 1965          |  |

### (a) Length of record, years.

- e 1931-1960 (adjusted to present location)
- + 1941-1970
- \* 12 year mean
- φ Also earlier dates, months or years
- # Less than one

# FOR THE CURRENT YEAR

Hyslop Field Laboratory  
Corvallis, Oregon 1977

| Year | Wind                 |                      |       |           | Number of days        |               |        |                                  |        |               |       |               |        |  |                                |                          |               |           |               |               |            |            |   |   |   |
|------|----------------------|----------------------|-------|-----------|-----------------------|---------------|--------|----------------------------------|--------|---------------|-------|---------------|--------|--|--------------------------------|--------------------------|---------------|-----------|---------------|---------------|------------|------------|---|---|---|
|      | Fastest mile         |                      | Speed | Direction | EVAPORATION IN INCHES |               |        | MEAN DAILY RADIATION IN LANGLEYS |        |               | Clear | 8:00 A.M. Sky |        |  | Precipitation .01 inch or more | Snow, Sleet, 1.0 or more | Thunderstorms | Heavy fog | 90° and above | 32° and below | Max. temp. | Min. temp. |   |   |   |
|      | Prevailing direction | Average hourly speed |       |           | Date                  | Partly cloudy | Cloudy | Partly cloudy                    | Cloudy | Partly cloudy |       | Partly cloudy | Cloudy |  |                                |                          |               |           |               |               |            |            |   |   |   |
| 5    | N                    | 24                   |       |           |                       | 9             | 16     | 16                               | 24     |               |       |               |        |  |                                |                          |               |           |               |               |            |            |   |   |   |
| 4    | S                    | 20                   |       |           |                       | 2             | 4      | 22                               | 24     |               |       |               |        |  |                                |                          |               |           |               |               |            |            |   |   |   |
| 4    | N                    | 17                   |       |           |                       | 11            | 8      | 12                               | 17     |               |       |               |        |  |                                |                          |               |           |               |               |            |            |   |   |   |
| 4    | N                    | 17                   | 2.33  |           |                       | 5             | 10     | 15                               | 19     |               |       |               |        |  |                                |                          |               |           |               |               |            |            |   |   |   |
| 4    | N                    | 13                   | 4.86  |           |                       | 13            | 8      | 10                               | 9      |               |       |               |        |  |                                |                          |               |           |               |               |            |            |   |   |   |
| 4    | N                    | 14                   | 6.42  |           |                       | 19            | 1      | 10                               | 2      |               |       |               |        |  |                                |                          |               |           |               |               |            |            |   |   |   |
| 4    | N                    | 13                   | 7.47  |           |                       | 20            | 5      | 6                                | 4      |               |       |               |        |  |                                |                          |               |           |               |               |            |            |   |   |   |
| 3    | N                    | 11                   | 5.89  |           |                       | 13            | 2      | 16                               | 8      |               |       |               |        |  |                                |                          |               |           |               |               |            |            |   |   |   |
| 4    | N                    | 16                   | 3.92  |           |                       | -             | -      | -                                | 8      |               |       |               |        |  |                                |                          |               |           |               |               |            |            |   |   |   |
| 4    | S                    | 16                   | 2.58  |           |                       | 12            | 3      | 16                               | 16     |               |       |               |        |  |                                |                          |               |           |               |               |            |            |   |   |   |
| 3    | N                    | 16                   |       |           |                       | -             | -      | -                                | 18     |               |       |               |        |  |                                |                          |               |           |               |               |            |            | 0 | 6 | 0 |
| 3    | S                    | 17                   |       |           |                       | 4             | 1      | 26                               | 24     |               |       |               |        |  |                                |                          |               |           |               |               |            |            | 0 | 7 | 0 |

## AND EXTREMES

| Maximum<br>in 24 hrs.<br>Year | Relative humidity |          |         |          | Mean number of days  |                         |                 |       |           |                                     |                                      |                                       |       |                  |        |                        |                                   |                             |               |           |                  |                  |               |               |
|-------------------------------|-------------------|----------|---------|----------|----------------------|-------------------------|-----------------|-------|-----------|-------------------------------------|--------------------------------------|---------------------------------------|-------|------------------|--------|------------------------|-----------------------------------|-----------------------------|---------------|-----------|------------------|------------------|---------------|---------------|
|                               | Wind              |          |         |          | Mean number of days  |                         |                 |       |           |                                     |                                      |                                       |       |                  |        |                        |                                   |                             |               |           |                  |                  |               |               |
|                               | 4:00 AM           | 10:00 AM | 4:00 PM | 10:00 PM | Mean<br>hourly speed | Prevailing<br>direction | Fastest<br>mile | Speed | Direction | MEAN DAILY RADIATION<br>IN LANGLEYS | AVERAGE DAYTIME<br>SKY COVER, TENTHS | MEAN MONTHLY<br>EVAPORATION IN INCHES | Clear | Partly<br>cloudy | Cloudy | 8:00 A.M. Sky<br>Cover | Precipitation<br>.01 inch or more | Snow, Sleet,<br>1.0 or more | Thunderstorms | Heavy fog | 90° and<br>above | 32° and<br>below | Max.<br>temp. | Min.<br>temp. |
| 12                            | 12                | 12       | 12      | 12       | 14                   | 15                      |                 |       |           | 13                                  | 15                                   | 27                                    | 34    | 34               | 34     | 34                     | 34                                | 34                          | 8             | 0         | 35               | 35               | 35            | 35            |
| 90                            | 84                | 79       | 89      | 4        | S                    |                         |                 |       |           | 93                                  | .8                                   |                                       | 3     | 9                | 19     | 19                     | 19                                | 19                          | 0             | 0         | 1                | 13               | #             |               |
| 92                            | 80                | 68       | 88      | 4        | S                    |                         |                 |       |           | 143                                 | .7                                   |                                       | 5     | 10               | 13     | 17                     | 17                                | 17                          | #             | 0         | #                | 7                | #             |               |
| 90                            | 71                | 58       | 84      | 4        | S                    |                         |                 |       |           | 240                                 | .7                                   |                                       | 7     | 12               | 12     | 19                     | 19                                | 19                          | #             | 0         | 0                | 7                | 0             |               |
| 91                            | 63                | 49       | 81      | 4        | S                    |                         |                 |       |           | 332                                 | .7                                   | 2.66                                  | 9     | 12               | 9      | 13                     | 13                                | 13                          | #             | #         | 0                | #                | 0             |               |
| 93                            | 55                | 44       | 79      | 4        | N                    |                         |                 |       |           | 449                                 | .6                                   | 4.46                                  | 10    | 13               | 8      | 11                     | 11                                | 11                          | #             | #         | 0                | 0                | #             | 0             |
| 93                            | 53                | 39       | 78      | 4        | N                    |                         |                 |       |           | 509                                 | .5                                   | 5.77                                  | 10    | 12               | 8      | 8                      | 8                                 | 8                           | 1             | 1         | 1                | 0                | 0             | 0             |
| 92                            | 45                | 31       | 75      | 4        | N                    |                         |                 |       |           | 560                                 | .3                                   | 7.85                                  | 17    | 11               | 3      | 2                      | 2                                 | 2                           | 1             | 1         | 4                | 0                | 0             | 0             |
| 92                            | 50                | 31       | 72      | 4        | N                    |                         |                 |       |           | 454                                 | .3                                   | 6.94                                  | 16    | 10               | 5      | 3                      | 3                                 | 3                           | 1             | 1         | 3                | 0                | 0             | 0             |
| 87                            | 59                | 48       | 73      | 4        | N                    |                         |                 |       |           | 348                                 | .4                                   | 4.75                                  | 14    | 11               | 5      | 6                      | 6                                 | 6                           | #             | 2         | 0                | #                | 0             |               |
| 93                            | 78                | 54       | 85      | 4        | N                    |                         |                 |       |           | 216                                 | .6                                   | 2.05                                  | 8     | 12               | 11     | 13                     | 13                                | 13                          | #             | 0         | 0                | 1                | 0             |               |
| 93                            | 84                | 80       | 91      | 3        | S                    |                         |                 |       |           | 104                                 | .7                                   |                                       | 4     | 10               | 16     | 17                     | 17                                | 17                          | #             | 0         | #                | 6                | 0             |               |
| 93                            | 88                | 85       | 92      | 4        | S                    |                         |                 |       |           | 70*                                 | .8                                   |                                       | 3     | 8                | 20     | 20                     | 20                                | 20                          | #             | 0         | #                | 9                | #             |               |
| 92                            | 68                | 56       | 82      |          |                      |                         |                 |       |           |                                     |                                      |                                       | 106   | 130              | 129    | 148                    | 148                               | 148                         | 3             | 10        | 1                | 52               | #             |               |

MONTHLY PRECIPITATION  
1931-1975  
(inches)

| Year | Jan.  | Feb.  | Mar. | Apr. | May  | June | July | Aug. | Sept. | Oct. | Nov.  | Dec.  | Total |
|------|-------|-------|------|------|------|------|------|------|-------|------|-------|-------|-------|
| 1931 | 4.72  | 2.83  | 5.72 | 1.28 | .19  | 3.35 | T    | 0    | 1.52  | 3.82 | 6.58  | 9.12  | 39.13 |
| 1932 | 6.55  | 2.08  | 5.06 | 2.36 | 2.24 | .24  | .61  | .83  | T     | 3.99 | 4.89  | 8.09  | 36.94 |
| 1933 | 7.93  | 5.14  | 4.03 | .76  | 3.70 | .84  | 0    | .69  | 1.68  | 2.67 | 1.00  | 14.15 | 42.59 |
| 1934 | 5.55  | .98   | 2.12 | 1.94 | 1.28 | .24  | .26  | .10  | .57   | 4.57 | 9.71  | 8.10  | 35.42 |
| 1935 | 4.21  | 3.37  | 4.52 | 2.00 | .52  | .21  | .51  | .10  | 1.28  | 2.61 | 2.26  | 4.76  | 26.35 |
| 1936 | 10.82 | 5.35  | 1.97 | 1.43 | 3.41 | 1.70 | .32  | T    | .89   | .16  | .24   | 5.82  | 32.11 |
| 1937 | 7.61  | 7.55  | 3.95 | 7.99 | 2.32 | 3.58 | .08  | .45  | 1.06  | 2.59 | 9.71  | 11.17 | 58.06 |
| 1938 | 4.03  | 6.33  | 7.42 | 1.51 | .64  | .08  | .17  | T    | 1.35  | 2.92 | 4.10  | 3.49  | 32.04 |
| 1939 | 3.92  | 3.60  | 2.44 | .22  | 1.71 | .70  | .43  | 1.14 | .43   | 2.90 | .31   | 8.53  | 26.33 |
| 1940 | 4.41  | 9.80  | 4.93 | 2.26 | 2.62 | .12  | .16  | T    | 2.75  | 4.14 | 4.46  | 4.71  | 40.36 |
| 1941 | 4.38  | 1.65  | 1.22 | 2.01 | 2.42 | 1.03 | 0    | 1.09 | 3.96  | 1.64 | 5.56  | 7.99  | 32.95 |
| 1942 | 4.95  | 3.36  | 1.04 | 1.62 | 2.56 | 1.11 | .28  | T    | T     | 1.22 | 12.69 | 10.37 | 39.20 |
| 1943 | 5.09  | 3.78  | 5.60 | 2.01 | 1.16 | 1.32 | .22  | 1.62 | .02   | 5.54 | 2.51  | 2.66  | 31.53 |
| 1944 | 3.06  | 2.25  | 2.23 | 2.93 | .85  | .62  | .14  | T    | 2.18  | 1.36 | 4.63  | 2.74  | 22.99 |
| 1945 | 4.34  | 5.04  | 5.60 | 2.33 | 3.10 | .22  | .14  | .08  | .94   | .89  | 10.08 | 5.03  | 37.79 |
| 1946 | 4.79  | 4.28  | 4.59 | .68  | .59  | .98  | .57  | .01  | 2.17  | 4.22 | 6.78  | 3.76  | 33.42 |
| 1947 | 2.26  | 2.97  | 4.86 | 1.67 | .16  | 2.55 | 2.72 | .46  | .61   | 9.05 | 3.10  | 3.45  | 33.86 |
| 1948 | 7.08  | 5.10  | 3.86 | 3.64 | 2.67 | .39  | .70  | .06  | 1.87  | 2.34 | 5.97  | 7.46  | 41.14 |
| 1949 | 1.74  | 10.58 | 2.19 | .55  | 2.06 | .68  | .03  | .27  | 1.56  | 1.72 | 4.89  | 4.19  | 30.46 |
| 1950 | 12.17 | 5.23  | 4.16 | .99  | .65  | .88  | .21  | .76  | .97   | 9.70 | 7.73  | 5.13  | 48.58 |
| 1951 | 7.36  | 4.62  | 4.16 | .65  | 1.40 | .02  | .11  | .08  | 1.23  | 6.78 | 5.84  | 6.13  | 38.38 |
| 1952 | 5.08  | 4.17  | 1.75 | .92  | .35  | 3.84 | 0    | .16  | .40   | 1.02 | 1.55  | 7.13  | 26.37 |
| 1953 | 12.40 | 5.14  | 4.50 | 1.97 | 3.31 | 1.83 | T    | 1.74 | .49   | 3.12 | 6.96  | 7.81  | 49.27 |
| 1954 | 8.04  | 5.25  | 2.96 | 2.71 | .90  | 3.11 | .53  | .64  | 1.60  | 3.56 | 5.86  | 6.92  | 42.08 |
| 1955 | 3.09  | 2.29  | 5.51 | 4.58 | .91  | .85  | .62  | 0    | 1.97  | 7.58 | 7.32  | 12.64 | 47.36 |
| 1956 | 11.89 | 5.48  | 5.89 | .93  | 1.98 | 1.14 | .02  | .34  | 1.12  | 5.96 | 1.38  | 4.56  | 40.59 |
| 1957 | 2.78  | 4.89  | 7.01 | 2.11 | 3.21 | 1.07 | .17  | .22  | 1.50  | 3.14 | 2.81  | 10.38 | 39.29 |
| 1958 | 8.15  | 7.81  | 2.55 | 3.66 | 1.12 | 2.91 | .02  | .02  | 1.30  | 2.68 | 8.49  | 4.15  | 42.86 |
| 1959 | 10.52 | 4.56  | 3.99 | .84  | 2.20 | 1.31 | .32  | T    | 1.60  | 1.57 | 2.58  | 3.35  | 32.84 |
| 1960 | 4.38  | 6.49  | 7.18 | 3.29 | 3.92 | .22  | T    | .64  | .52   | 2.52 | 10.49 | 4.15  | 43.80 |
| 1961 | 4.80  | 10.12 | 7.46 | 2.23 | 2.05 | .40  | .59  | .33  | 1.18  | 3.73 | 6.79  | 6.21  | 45.89 |
| 1962 | 1.21  | 3.82  | 6.37 | 2.90 | 2.31 | .39  | 0    | .51  | 1.60  | 4.62 | 7.89  | 2.90  | 34.58 |
| 1963 | 1.64  | 5.23  | 6.30 | 4.64 | 3.94 | .98  | .52  | .65  | .94   | 2.77 | 7.04  | 3.91  | 38.56 |
| 1964 | 11.68 | .79   | 4.33 | 1.61 | .55  | .88  | .57  | .23  | .31   | 1.25 | 9.23  | 13.27 | 44.70 |
| 1965 | 11.45 | 1.56  | .59  | 2.00 | 1.08 | .52  | .39  | .98  | .04   | 2.12 | 8.70  | 7.69  | 37.12 |
| 1966 | 10.21 | 1.78  | 7.21 | .95  | .49  | .76  | .49  | .27  | 1.71  | 3.18 | 5.27  | 7.67  | 39.99 |
| 1967 | 9.50  | 1.78  | 4.23 | 1.60 | .85  | .77  | 0    | T    | .84   | 6.19 | 3.46  | 6.32  | 35.54 |
| 1968 | 7.14  | 7.11  | 3.85 | 1.51 | 3.45 | .79  | .34  | 5.24 | 1.99  | 6.32 | 6.52  | 14.47 | 58.73 |
| 1969 | 9.35  | 4.27  | 1.81 | 1.94 | 1.64 | 2.46 | .05  | T    | 3.62  | 3.91 | 2.86  | 11.05 | 42.96 |
| 1970 | 15.51 | 5.97  | 2.29 | 2.66 | 1.12 | .53  | .12  | T    | 1.06  | 4.03 | 7.30  | 12.47 | 53.06 |
| 1971 | 10.71 | 5.35  | 6.16 | 4.38 | 2.33 | 2.48 | .02  | .48  | 3.10  | 2.80 | 9.21  | 10.13 | 57.15 |
| 1972 | 10.10 | 5.13  | 6.46 | 4.27 | 2.36 | 1.01 | .08  | .24  | 2.28  | .88  | 4.92  | 9.33  | 47.06 |
| 1973 | 5.56  | 1.65  | 3.63 | 1.75 | .85  | 1.38 | .02  | .70  | 2.52  | 2.70 | 18.28 | 12.40 | 51.44 |
| 1974 | 11.59 | 7.52  | 8.87 | 2.39 | 1.46 | .61  | 1.81 | 0    | .07   | 1.41 | 6.88  | 8.15  | 50.76 |
| 1975 | 4.66  | 5.48  | 4.64 | 2.40 | 2.07 | 1.14 | .62  | 1.68 | 0     | 4.30 | 5.51  | 6.83  | 39.33 |

Station moved from O.S.U. Campus to Hyslop Agronomy Farm, May 1952

## Soil Temperature at 4-inch Level

Hyslop Field Lab, Corvallis, Oregon

Average for 11 years - 1960-1971

| Date | Jan | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec |
|------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|
|      | max | min | max | min | max | min  | max  | min | max | min | max | min |
| 1    | 42  | 39  | 42  | 39  | 44  | 41   | 53   | 45  | 59  | 49  | 70  | 58  |
| 2    | 41  | 39  | 42  | 38  | 45  | 41   | 52   | 45  | 60  | 49  | 72  | 59  |
| 3    | 40  | 39  | 42  | 38  | 46  | 40   | 54   | 43  | 61  | 50  | 74  | 59  |
| 4    | 40  | 38  | 44  | 40  | 46  | 40   | 55   | 44  | 63  | 55  | 73  | 60  |
| 5    | 39  | 37  | 43  | 40  | 47  | 41   | 54   | 46  | 63  | 52  | 73  | 60  |
| 6    | 38  | 37  | 43  | 39  | 46  | 40   | 55   | 47  | 62  | 51  | 74  | 60  |
| 7    | 38  | 37  | 43  | 39  | 47  | 41   | 55   | 45  | 63  | 51  | 72  | 61  |
| 8    | 38  | 36  | 43  | 39  | 48  | 41   | 57   | 46  | 66  | 53  | 73  | 61  |
| 9    | 38  | 36  | 44  | 38  | 48  | 41   | 55   | 48  | 67  | 53  | 71  | 61  |
| 10   | 38  | 37  | 44  | 40  | 47  | 42   | 53   | 47  | 65  | 43  | 73  | 60  |
| 11   | 38  | 36  | 44  | 40  | 49  | 44   | 55   | 46  | 65  | 54  | 71  | 60  |
| 12   | 39  | 36  | 44  | 41  | 49  | 43   | 56   | 45  | 68  | 54  | 72  | 60  |
| 13   | 38  | 36  | 45  | 41  | 48  | 42   | 54   | 45  | 65  | 54  | 74  | 60  |
| 14   | 40  | 37  | 45  | 41  | 48  | 42   | 56   | 46  | 65  | 54  | 75  | 61  |
| 15   | 41  | 39  | 44  | 41  | 48  | 43   | 55   | 46  | 66  | 54  | 75  | 62  |
| 16   | 41  | 39  | 45  | 42  | 50  | 43   | 56   | 47  | 67  | 54  | 75  | 62  |
| 17   | 42  | 40  | 45  | 42  | 50  | 47   | 54   | 46  | 68  | 55  | 77  | 63  |
| 18   | 42  | 40  | 46  | 43  | 49  | 43   | 55   | 45  | 69  | 55  | 76  | 63  |
| 19   | 43  | 41  | 46  | 42  | 50  | 42   | 43   | 46  | 70  | 56  | 79  | 63  |
| 20   | 43  | 40  | 46  | 42  | 49  | 41   | 55   | 45  | 68  | 57  | 78  | 63  |
| 21   | 43  | 40  | 47  | 41  | 50  | 43   | 55   | 46  | 69  | 57  | 77  | 63  |
| 22   | 42  | 41  | 46  | 41  | 52  | 43   | 57   | 46  | 70  | 57  | 78  | 64  |
| 23   | 42  | 40  | 46  | 40  | 51  | 44   | 57   | 49  | 68  | 57  | 76  | 63  |
| 24   | 41  | 39  | 47  | 41  | 51  | 44   | 57   | 49  | 69  | 56  | 75  | 62  |
| 25   | 42  | 40  | 47  | 41  | 52  | 43   | 57   | 49  | 69  | 56  | 74  | 62  |
| 26   | 42  | 40  | 47  | 42  | 50  | 44   | 58   | 50  | 71  | 57  | 76  | 63  |
| 27   | 42  | 42  | 39  | 46  | 42  | 52   | 44   | 59  | 49  | 71  | 57  | 75  |
| 28   | 41  | 39  | 41  | 37  | 52  | 45   | 59   | 49  | 71  | 57  | 74  | 62  |
| 29   | 41  | 39  | 41  | 37  | 52  | 45   | 60   | 48  | 72  | 58  | 74  | 61  |
| 30   | 42  | 39  | 42  | 37  | 52  | 45   | 60   | 48  | 71  | 58  | 75  | 62  |
| 31   | 41  | 39  | 41  | 37  | 53  | 45   | 58   | 71  | 58  | 84  | 70  | 75  |

Average Daily Radiation in Langleys

National Weather Service - Hyslop Field Laboratory, Corvallis, Oregon

Eleven Year Average\*

| Date | Jan. | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sep.  | Oct.  | Nov.  | Dec. |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1    | 88   | 128   | 177   | 231   | 395   | 544   | 525   | 479   | 377   | 314   | 144   | 74   |
| 2    | 84   | 139   | 185   | 305   | 443   | 491   | 642   | 521   | 454   | 279   | 155   | 90   |
| 3    | 103  | 105   | 173   | 375   | 422   | 446   | 638   | 544   | 431   | 283   | 161   | 89   |
| 4    | 101  | 120   | 179   | 314   | 368   | 553   | 573   | 444   | 416   | 281   | 145   | 83   |
| 5    | 80   | 106   | 196   | 324   | 382   | 492   | 586   | 474   | 359   | 281   | 140   | 62   |
| 6    | 75   | 116   | 217   | 309   | 308   | 427   | 531   | 465   | 396   | 248   | 138   | 89   |
| 7    | 74   | 167   | 243   | 299   | 442   | 518   | 527   | 485   | 407   | 247   | 107   | 89   |
| 8    | 71   | 136   | 256   | 293   | 460   | 462   | 516   | 527   | 417   | 245   | 108   | 73   |
| 9    | 80   | 120   | 221   | 252   | 398   | 484   | 492   | 540   | 415   | 203   | 114   | 82   |
| 10   | 94   | 141   | 171   | 341   | 407   | 487   | 516   | 565   | 366   | 202   | 104   | 80   |
| 11   | 66   | 129   | 230   | 394   | 469   | 443   | 562   | 529   | 416   | 198   | 138   | 81   |
| 12   | 62   | 114   | 213   | 307   | 491   | 569   | 607   | 469   | 382   | 200   | 119   | 79   |
| 13   | 66   | 140   | 219   | 331   | 518   | 564   | 611   | 462   | 388   | 215   | 118   | 66   |
| 14   | 94   | 125   | 192   | 311   | 488   | 520   | 617   | 499   | 345   | 268   | 99    | 58   |
| 15   | 49   | 127   | 240   | 330   | 447   | 496   | 626   | 458   | 363   | 240   | 96    | 58   |
| 16   | 69   | 138   | 239   | 319   | 503   | 530   | 548   | 409   | 362   | 243   | 110   | 56   |
| 17   | 86   | 114   | 309   | 275   | 497   | 531   | 576   | 481   | 345   | 218   | 68    | 85   |
| 18   | 94   | 120   | 277   | 262   | 494   | 592   | 561   | 488   | 336   | 212   | 94    | 46   |
| 19   | 88   | 137   | 271   | 288   | 463   | 565   | 601   | 424   | 329   | 168   | 75    | 42   |
| 20   | 117  | 199   | 313   | 300   | 435   | 559   | 571   | 471   | 303   | 182   | 74    | 39   |
| 21   | 106  | 177   | 257   | 358   | 543   | 538   | 605   | 417   | 293   | 175   | 75    | 57   |
| 22   | 93   | 185   | 204   | 391   | 498   | 522   | 588   | 434   | 295   | 124   | 65    | 52   |
| 23   | 80   | 191   | 246   | 338   | 459   | 479   | 598   | 407   | 334   | 150   | 51    | 53   |
| 24   | 101  | 188   | 237   | 313   | 431   | 430   | 604   | 375   | 335   | 184   | 71    | 58   |
| 25   | 83   | 212   | 276   | 378   | 475   | 511   | 583   | 461   | 346   | 172   | 76    | 85   |
| 26   | 113  | 175   | 217   | 381   | 502   | 506   | 587   | 466   | 341   | 173   | 83    | 75   |
| 27   | 96   | 185   | 252   | 341   | 530   | 521   | 565   | 429   | 354   | 123   | 110   | 79   |
| 28   | 134  | 159   | 292   | 431   | 554   | 538   | 582   | 448   | 329   | 157   | 127   | 63   |
| 29   | 100  | 296   | 417   | 517   | 523   | 546   | 457   | 307   | 185   | 115   | 74    | 72   |
| 30   | 107  | 338   | 445   | 524   | 546   | 554   | 358   | 348   | 143   | 75    | 72    | 79   |
| 31   | 113  | 275   | 574   | 543   | 343   | 343   | 543   | 343   | 343   | 343   | 343   | 79   |
| AVE. | 86.6 | 146.2 | 239.1 | 333.4 | 462.8 | 512.9 | 573.6 | 467.2 | 363.0 | 208.3 | 104.8 | 69.9 |

\*1960-1963, 1970-1976

PROBABILITY DATES OF  
FIRST FALL OCCURRENCE OF VARIOUS FREEZING  
TEMPERATURES

Ten Per Cent Chance Of:

|              | 32°          | 28°        | 24°         |
|--------------|--------------|------------|-------------|
| Albany       | October 13   | October 31 | November 9  |
| Corvallis    | October 11   | October 25 | November 12 |
| Eugene       | October 9    | October 25 | November 7  |
| Forest Grove | September 25 | October 19 | November 4  |
| Portland     | November 3   | December 2 | December 9  |
| Salem        | October 9    | October 22 | November 7  |

Twenty Per Cent Chance Of:

|              | 32°         | 28°        | 24°         |
|--------------|-------------|------------|-------------|
| Albany       | October 20  | November 6 | November 20 |
| Corvallis    | October 18  | November 1 | November 23 |
| Eugene       | October 16  | November 1 | November 18 |
| Forest Grove | October 3   | October 26 | November 15 |
| Portland     | November 10 | December 9 | December 20 |
| Salem        | October 16  | October 29 | November 18 |

Fifty Per Cent Chance Of:

|              | 32°         | 28°         | 24°         |
|--------------|-------------|-------------|-------------|
| Albany       | November 3  | November 22 | December 14 |
| Corvallis    | November 1  | November 17 | December 17 |
| Eugene       | October 30  | November 17 | December 12 |
| Forest Grove | October 17  | November 11 | December 9  |
| Portland     | November 24 | December 25 | January 13  |
| Salem        | October 30  | November 14 | December 12 |

Data for these tables extracted from OAES, Station Bulletin 581

PROBABILITY DATES OF  
LAST SPRING OCCURRENCE OF VARIOUS FREEZING  
TEMPERATURES

WILLAMETTE VALLEY

Fifty Per Cent Chance Of:

|              | 24°         | 28°         | 32°         |
|--------------|-------------|-------------|-------------|
| Albany       | January 21  | February 20 | April 2     |
| Corvallis    | January 28  | February 27 | April 15    |
| Eugene       | January 21  | March 6     | April 8     |
| Forest Grove | February 10 | March 29    | April 26    |
| Portland     | January 15  | January 24  | February 28 |
| Salem        | February 1  | March 9     | April 19    |

Twenty Per Cent Chance Of:

|              | 24°         | 28°         | 32°      |
|--------------|-------------|-------------|----------|
| Albany       | February 13 | March 12    | April 17 |
| Corvallis    | February 20 | March 19    | April 30 |
| Eugene       | February 13 | March 28    | April 23 |
| Forest Grove | March 5     | April 18    | May 11   |
| Portland     | February 7  | February 13 | March 15 |
| Salem        | February 24 | March 28    | May 4    |

Ten Per Cent Chance Of:

|              | 24°         | 28°         | 32°      |
|--------------|-------------|-------------|----------|
| Albany       | February 25 | March 21    | April 26 |
| Corvallis    | March 4     | March 28    | May 9    |
| Eugene       | February 25 | April 6     | May 2    |
| Forest Grove | March 17    | April 27    | May 20   |
| Portland     | February 19 | February 22 | March 24 |
| Salem        | March 8     | April 7     | May 13   |

Data for these tables extracted from OAES, Station Bulletin 581

NORMAL DEGREE DAYS  
Corvallis, Oregon

| Day   | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1     | 26  | 26  | 21  | 17  | 11  | 7   | 0   | 0   | 0   | 7   | 17  | 22  |
| 2     | 26  | 26  | 21  | 17  | 11  | 7   | 0   | 0   | 0   | 7   | 17  | 22  |
| 3     | 26  | 26  | 21  | 17  | 11  | 7   | 0   | 0   | 0   | 7   | 17  | 22  |
| 4     | 27  | 26  | 20  | 17  | 11  | 6   | 0   | 0   | 0   | 7   | 18  | 22  |
| 5     | 27  | 25  | 20  | 17  | 11  | 6   | 0   | 0   | 1   | 8   | 18  | 22  |
| 6     | 27  | 25  | 20  | 16  | 10  | 6   | 0   | 0   | 1   | 8   | 18  | 23  |
| 7     | 27  | 25  | 20  | 16  | 10  | 6   | 0   | 0   | 1   | 8   | 18  | 23  |
| 8     | 27  | 25  | 20  | 16  | 10  | 6   | 0   | 0   | 1   | 8   | 19  | 23  |
| 9     | 27  | 25  | 20  | 16  | 10  | 6   | 0   | 0   | 2   | 9   | 19  | 23  |
| 10    | 27  | 25  | 20  | 16  | 10  | 5   | 0   | 0   | 2   | 9   | 19  | 23  |
| 11    | 27  | 24  | 20  | 15  | 10  | 5   | 0   | 0   | 2   | 10  | 19  | 24  |
| 12    | 27  | 24  | 19  | 15  | 10  | 5   | 0   | 0   | 2   | 10  | 19  | 24  |
| 13    | 27  | 23  | 19  | 15  | 9   | 4   | 0   | 0   | 2   | 10  | 20  | 24  |
| 14    | 27  | 23  | 19  | 14  | 9   | 4   | 0   | 0   | 3   | 11  | 20  | 24  |
| 15    | 27  | 23  | 19  | 14  | 9   | 4   | 0   | 0   | 3   | 11  | 202 | 24  |
| 16    | 27  | 23  | 19  | 14  | 9   | 4   | 0   | 0   | 3   | 11  | 20  | 24  |
| 17    | 27  | 23  | 19  | 13  | 9   | 4   | 0   | 0   | 3   | 11  | 20  | 24  |
| 18    | 27  | 23  | 19  | 13  | 9   | 4   | 0   | 0   | 3   | 12  | 20  | 24  |
| 19    | 27  | 23  | 19  | 13  | 9   | 4   | 0   | 0   | 3   | 12  | 21  | 24  |
| 20    | 27  | 22  | 19  | 13  | 8   | 4   | 0   | 0   | 4   | 13  | 21  | 24  |
| 21    | 27  | 22  | 19  | 13  | 8   | 3   | 0   | 0   | 4   | 13  | 21  | 24  |
| 22    | 27  | 22  | 19  | 13  | 8   | 3   | 0   | 0   | 4   | 13  | 21  | 24  |
| 23    | 27  | 22  | 19  | 12  | 8   | 3   | 0   | 0   | 4   | 14  | 22  | 24  |
| 24    | 27  | 22  | 19  | 12  | 8   | 2   | 0   | 0   | 4   | 14  | 22  | 25  |
| 25    | 27  | 22  | 19  | 12  | 8   | 2   | 0   | 0   | 5   | 14  | 22  | 25  |
| 26    | 27  | 21  | 18  | 12  | 8   | 2   | 0   | 0   | 5   | 14  | 22  | 25  |
| 27    | 27  | 21  | 18  | 12  | 7   | 2   | 0   | 0   | 6   | 15  | 22  | 25  |
| 28    | 26  | 21  | 18  | 11  | 7   | 2   | 0   | 0   | 6   | 15  | 22  | 25  |
| 29    | 26  | 21  | 18  | 11  | 7   | 2   | 0   | 0   | 6   | 16  | 22  | 25  |
| 30    | 26  |     | 18  | 11  | 7   | 1   | 0   | 0   | 6   | 16  | 22  | 26  |
| 31    | 26  |     | 18  |     | 7   |     | 0   | 0   |     | 16  |     | 26  |
| Total | 830 | 658 | 597 | 423 | 279 | 107 | 0   | 0   | 86  | 349 | 682 | 739 |

annual - 4750

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