

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

CLIMATOGRAPHY OF THE UNITED STATES NO. 20 - 40

CLIMATOLOGICAL SUMMARY

STATION PALMETTO, TENNESSEE

LATITUDE 35° 39' N
LONGITUDE 86° 35' W
LEV. (GROUND) 770 Feet

MEANS AND EXTREMES FOR PERIOD 1931-1965

| Month | Temperature (°F) | | | | | | | Mean degree days | Precipitation Totals (Inches) | | | | | | | Mean number of days | | | | | Month | | | | | |
|-------|------------------|---------------|---------|----------------|-----------|---------------|-----------|------------------|-------------------------------|----------------|-----------|--------------------------|---------------|---------------|---------------|---------------------|--------------|------|-----------------|------|-------|----------------|------|------|------|------|
| | Means | | | Extremes | | | | | Mean | Greatest daily | Year | Snow, Sleet | | | | | Temperatures | | | | | | | | | |
| | Daily maximum | Daily minimum | Monthly | Record highest | Year | Record lowest | Year | | | | | Precip. .10 inch or more | 90° and above | 32° and below | 32° and below | 20° and below | 0° and below | Max. | | Min. | | | | | | |
| | | | | | | | | | | | | | | | | | | Mean | Maximum monthly | Year | | Greatest daily | Year | Max. | Min. | Min. |
| (a) | 35 | 35 | 35 | 35 | | 35 | | 30 | 35 | 35 | | 35 | 35 | | 35 | 35 | 35 | 35 | 35 | 35 | | | | | | |
| J | 50.4 | 31.0 | 40.7 | 77 | 1949 | -20 | 1940 | 738 | 5.36 | 3.80 | 1937 | 2.7 | 12.8 | 1948 | 10.0 | 1964 | 8 | 0 | 2 | 17 | 1 | | | | | J |
| F | 53.3 | 32.7 | 43.0 | 76 | 1945+ | -12 | 1951 | 616 | 5.61 | 4.35 | 1948 | 1.4 | 7.0 | 1964 | 5.0 | 1964 | 8 | 0 | 1 | 14 | * | | | | | F |
| M | 60.4 | 39.2 | 49.8 | 84 | 1935 | 6 | 1960 | 487 | 5.55 | 6.50 | 1955 | 0.9 | 9.0 | 1960 | 8.0 | 1951 | 9 | 0 | * | 10 | 0 | | | | | M |
| A | 70.7 | 47.9 | 59.3 | 89 | 1965 | 24 | 1950+ | 192 | 4.44 | 4.00 | 1965 | T | T | 1951+ | T | 1951+ | 7 | 0 | 0 | 2 | 0 | | | | | A |
| M | 79.6 | 55.7 | 67.7 | 96 | 1962+ | 32 | 1963 | 47 | 3.89 | 3.57 | 1954 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 0 | * | 0 | | | | M |
| J | 87.2 | 64.3 | 75.8 | 105 | 1936 | 43 | 1946+ | 0 | 3.65 | 4.94 | 1939 | 0 | 0 | 0 | 0 | 0 | 7 | 11 | 0 | 0 | 0 | | | | | J |
| J | 89.4 | 67.5 | 78.5 | 109 | 1952 | 47 | 1947 | 0 | 4.87 | 3.90 | 1949 | 0 | 0 | 0 | 0 | 0 | 8 | 16 | 0 | 0 | 0 | | | | | J |
| A | 89.2 | 66.2 | 77.7 | 105 | 1954+ | 43 | 1964+ | 0 | 3.56 | 6.40 | 1963 | 0 | 0 | 0 | 0 | 0 | 6 | 16 | 0 | 0 | 0 | | | | | A |
| S | 84.3 | 59.6 | 72.0 | 106 | 1954 | 32 | 1949+ | 27 | 3.12 | 5.50 | 1944 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 0 | * | 0 | | | | | S |
| O | 74.6 | 48.3 | 61.5 | 93 | 1954+ | 24 | 1952+ | 164 | 2.59 | 4.30 | 1932 | 0.1 | 2.0 | 1954 | 2.0 | 1954 | 4 | 1 | 0 | 2 | 0 | | | | | O |
| N | 60.3 | 38.1 | 49.2 | 84 | 1935 | -3 | 1950 | 480 | 3.92 | 4.72 | 1936 | 0.3 | 5.0 | 1938 | 5.0 | 1938 | 6 | 0 | * | 10 | * | | | | | N |
| D | 51.6 | 32.5 | 42.1 | 78 | 1964 | -5 | 1962 | 701 | 4.39 | 4.00 | 1936 | 1.2 | 10.0 | 1945 | 8.0 | 1963 | 6 | 0 | 1 | 17 | * | | | | | D |
| Year | 70.9 | 48.6 | 59.8 | 109 | July 1952 | -20 | Jan. 1940 | 3452 | 50.95 | 6.50 | Mar. 1955 | 6.6 | 12.8 | Jan. 1948 | 10.0 | Jan. 1964 | 82 | 54 | 5 | 72 | 1 | | | | Year | |

(a) Average length of record, years.

+ Also on earlier dates, months, or years.

T Trace, an amount too small to measure.

* Less than one half.

** Base 65°F Climatology of the United States, No. 83-35, Tennessee

NARRATIVE CLIMATOLOGICAL SUMMARY

Palmetto is located in the southern sector of the Central Basin of Middle Tennessee. The Basin is elliptical in shape, with an average altitude 400 feet lower than the Highland Rim which forms a rough circle around the mid-state area. The Rim merges into the Cumberland Plateau on the east and is bounded by the Western Valley of the Tennessee River on the west. The metropolitan area of Nashville is located 50 miles north of Palmetto.

The prevailing climate is temperate continental with pronounced seasonal variations in both temperature and precipitation. All seasons are marked by weather changes which come from passing weather fronts and associated centers of high and low pressure. This activity is least in the spring and summer months, somewhat greater in the fall, and greatest in the winter and early spring.

Palmetto summers are characterized by moderately warm humid days and mild nights with not much variation in temperature, as a rule, from day to day. The temperature rises to 90° or higher on about four out of five days from June through August and on three days during an average summer it will reach or exceed 100°. Early morning minimum temperatures usually drop to the mid-sixties and sometimes below sixty. The average minimum for the three summer months is 66°. There were 10 days in July 1952 when the temperature reached or exceeded 100° and the average maximum for the month was a warm 96°.

Typical of most locations in the Central Basin, winters are not severe in Palmetto and normal outside activities can be carried on with little interruption due to cold weather. The winter cold spells that drop early morning temperatures to freezing or lower, are of short duration and alternate with longer periods of mild weather. On the average there will be only 12 days during the winter with a minimum temperature of 20° or below. Even during the coldest weather, daytime temperatures almost always rise to well above the freezing mark.

The seasonal distribution of Palmetto's average annual rainfall of 51 inches is such as to be of greatest value to the diversified agricultural activities of the area. The slight summer maximum is beneficial to the growing crops and the autumn minimum usually results in ideal maturing and harvesting weather. Much of the warm season rainfall occurs in connection with afternoon thunderstorms which can be expected on about one-third of the days, during the summer months. In spite of an ample supply of rainfall, damaging dry spells sometimes occur at critical times during the growing season.

A statistical study of heavy precipitation in just a few hours in this area indicates the probability of occurrence of totals at least as great as those listed below:

| Frequency in 100 years | Inches in 1 hour | 6 hours | 12 hours |
|------------------------|------------------|---------|----------|
| 1 | 3.0 | 5.0 | 6.0 |
| 4 | 2.6 | 4.2 | 5.0 |
| 20 | 2.0 | 3.3 | 3.9 |
| 90 | 1.3 | 2.3 | 2.7 |

Snowfall is quite variable from year to year. Some winters have little or none. The average year has about three days with snow on the ground of 1 inch or more in depth. Palmetto's greatest snowfall occurred during the 1963-1964 winter season when 26 inches were measured. Heavy snowstorms are infrequent and snow seldom remains on the ground for more than a few days. It is estimated that in the course of the average winter, freezing extends into the ground to a depth of about 4 inches.

Relative humidity records are not available for Palmetto but average values at Nashville are near representative of conditions at Palmetto. Early morning averages range from 73 percent in March to 92 percent in August and September. In early afternoon the range is from 46 percent in March to 67 percent in December.

Heating degree-days in the summary table provide a basis for computing heating requirements, fuel consumption being proportional to degree-day totals. Degree-days for any one day are obtained by subtracting the mean temperature for that day from 65 degrees.

This area has a favorable and moderate climate, with many days of the year being nearly ideal in temperature. On the whole, the fall season is the most pleasant time of the year. Rainfall is at a minimum, sunshine at a relative maximum and temperature extremes are practically non-existent.

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(Summary prepared February 1969)

Average Temperature (°F)

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|------|-------|-------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1931 | 40.3 | 43.8 | 43.8 | 56.7 | 64.4 | 77.5 | 79.8 | 75.8 | 78.0 | 65.7 | 58.1 | 50.2 | 61.2 |
| 1932 | 46.6 | 50.4 | 45.0 | 56.5 | 65.6 | 76.5 | 80.4 | 78.3 | 71.0 | 57.8+ | 44.4 | 41.6 | 59.5 |
| 1933 | 46.7 | 49.8 | 46.6 | 57.4 | 67.1 | 75.0 | 77.0 | 75.6 | 76.0 | 60.3 | 49.8 | 49.1 | 60.6 |
| 1934 | 43.2 | 36.5 | 47.4 | 58.8 | 69.1 | 76.4 | 80.9 | 79.2 | 71.2 | 62.2 | 52.2 | 38.9 | 59.7 |
| 1935 | 39.8 | 42.7 | 57.7 | 58.3 | 67.3+ | 72.4+ | 78.9 | 80.6 | 71.2 | 61.6 | 49.8 | 33.4 | 59.5 |
| 1936 | 34.2 | 36.3 | 53.8 | 55.8 | 69.8 | 76.6 | 80.0 | 80.6 | 61.0 | 45.3 | 43.7+ | 59.7 | 59.7 |
| 1937 | 49.4* | 41.1 | 46.2 | 59.0* | 68.0 | 76.2 | 75.5+ | 79.6 | 66.8 | 45.8 | 45.8 | 42.8* | 59.0 |
| 1938 | 40.0 | 49.4 | 58.0 | 60.6 | 68.2 | 72.6 | 78.5 | 79.3 | 68.2 | 52.2 | 49.9 | 41.4 | 61.0 |
| 1939 | 43.2 | 47.0 | 52.4 | 56.0 | 66.6 | 75.6 | 78.1 | 79.3 | 67.6 | 45.6* | 43.2 | 38.2 | 60.2 |
| 1940 | 24.2 | 39.5 | 48.4 | 57.0 | 64.0 | 71.8 | 76.4 | 77.9 | 69.6 | 62.4 | 48.6* | 45.7 | 51.4 |
| 1941 | 41.2 | 37.2 | 46.3 | 62.2 | 69.9 | 77.1* | 79.2* | 78.5 | 75.3 | 48.8 | 45.2 | 45.2 | 60.6 |
| 1942 | 36.7 | 38.2 | 51.3 | 62.2 | 68.2 | 80.3 | 80.6 | 70.1 | 61.8 | 53.0 | 41.6 | 40.1 | 59.5 |
| 1943 | 41.6 | 44.8 | 46.3 | 58.6 | 70.8 | 80.3 | 79.9 | 79.8 | 67.6 | 47.0 | 40.1 | 38.2 | 60.1 |
| 1944 | 40.4 | 47.1 | 51.1 | 57.3 | 71.6 | 80.6 | 77.9 | 77.2 | 72.4 | 49.2 | 38.2 | 35.4 | 59.6 |
| 1945 | 38.2 | 43.0 | 50.8 | 61.0 | 64.0 | 73.6 | 77.5 | 77.0 | 72.5 | 51.4 | 35.4 | 35.4 | 59.6 |
| 1946 | 40.7 | 44.6 | 57.6 | 62.3 | 65.2 | 73.6 | 77.8 | 73.4 | 69.8 | 61.1 | 44.4 | 46.2 | 60.5 |
| 1947 | 44.5 | 43.7 | 54.0 | 63.6 | 64.5 | 73.8 | 79.2 | 74.0 | 71.2 | 48.4 | 42.8 | 42.8 | 58.7 |
| 1948 | 31.4 | 43.7 | 51.4 | 57.3 | 66.8 | 76.2 | 79.3 | 76.2 | 72.0 | 58.1 | 44.0 | 44.0 | 59.8 |
| 1949 | 48.0 | 46.5 | 48.4 | 55.4 | 70.6 | 74.2 | 75.7 | 73.3 | 69.4 | 62.4 | 44.4 | 44.4 | 59.3 |
| 1950 | 52.2 | 46.5 | 48.4 | 55.4 | 70.6 | 74.2 | 75.7 | 73.3 | 69.4 | 62.4 | 44.4 | 44.4 | 59.3 |
| 1951 | 42.2 | 44.1 | 51.1 | 56.8 | 66.5 | 75.6 | 79.2 | 80.2 | 72.3 | 62.4 | 44.1 | 44.1 | 60.1 |
| 1952 | 47.4 | 46.3 | 49.1 | 58.1 | 68.8 | 82.1 | 81.9 | 81.2 | 68.9 | 53.1 | 48.8 | 42.4 | 60.6 |
| 1953 | 46.6 | 44.4 | 53.0 | 63.6 | 70.4 | 80.0 | 77.3 | 77.3 | 71.8 | 62.6 | 48.0 | 40.5 | 61.1 |
| 1954 | 42.0 | 48.9 | 49.4 | 50.0 | 62.1 | 76.3 | 81.7 | 82.0 | 61.7 | 48.5 | 40.5 | 40.5 | 61.1 |
| 1955 | 42.0 | 43.2 | 51.6 | 62.8 | 69.5 | 70.4 | 79.8 | 79.6 | 75.6 | 47.2 | 40.3 | 40.3 | 59.9 |
| 1956 | 40.7 | 44.6 | 57.6 | 62.3 | 65.2 | 73.6 | 77.8 | 73.4 | 69.8 | 61.1 | 44.4 | 46.2 | 60.5 |
| 1957 | 44.5 | 43.7 | 54.0 | 63.6 | 64.5 | 73.8 | 79.2 | 74.0 | 71.2 | 48.4 | 42.8 | 42.8 | 58.7 |
| 1958 | 31.4 | 43.7 | 51.4 | 57.3 | 66.8 | 76.2 | 79.3 | 76.2 | 72.0 | 58.1 | 44.0 | 44.0 | 59.8 |
| 1959 | 48.0 | 46.5 | 48.4 | 55.4 | 70.6 | 74.2 | 75.7 | 73.3 | 69.4 | 62.4 | 44.4 | 44.4 | 59.3 |
| 1960 | 40.8 | 46.5 | 48.4 | 55.4 | 70.6 | 74.2 | 75.7 | 73.3 | 69.4 | 62.4 | 44.4 | 44.4 | 59.3 |
| 1961 | 35.3 | 49.5 | 53.4 | 55.8 | 63.9 | 71.2 | 75.5 | 74.7 | 71.8 | 60.8 | 51.0 | 42.7 | 58.7 |
| 1962 | 37.8 | 48.5 | 55.7 | 61.9 | 71.4 | 74.2 | 77.7 | 78.3 | 70.8 | 48.7 | 37.6 | 37.6 | 59.6 |
| 1963 | 34.2 | 38.2* | 55.6 | 61.9 | 69.4 | 74.4 | 77.7 | 76.3 | 69.2 | 65.7 | 31.7* | 31.7* | 59.6 |
| 1964 | 41.0 | 38.2* | 51.0 | 63.3 | 66.9* | 76.5 | 77.5 | 74.8 | 71.4 | 57.8 | 44.5 | 44.5 | 59.9 |
| 1965 | 41.1* | 42.1 | 51.0 | 63.1 | 70.9 | 74.2 | 76.7 | 76.8 | 73.8 | 59.3 | 53.1 | 45.5 | 60.1 |

* Days Missing. - No Record.
+ Interpolated or partly interpolated.

STATION HISTORY

Palmetto is one of the oldest weather stations in the State of Tennessee.

The present observer, Mrs. Gertrude Woods succeeded her father, Mr. R. S. Montgomery, in 1905, as the official weather observer. Records of temperature and precipitation are continuous from March 1883.

The station has been located continuously at the residence of the observer. Palmetto is in Bedford County, 7 miles east-northeast of Lewisburg on Route 64.

Mrs. Woods is the recipient of the Weather Bureau's John Campanius Holm Award in 1960 and Thomas Jefferson Award in 1965 for unusual and outstanding work in the field of meteorological observations.

Total Precipitation (Inches)

| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Ann'l |
|------|-------|-------|-------|-------|------|-------|------|------|-------|------|-------|-------|-------|
| 1931 | 1.98 | 4.63 | 3.79 | 2.40 | 2.07 | 2.30 | 5.95 | 1.09 | 1.14 | 1.66 | 3.18 | 9.52 | 39.71 |
| 1932 | 6.01 | 6.58 | 3.75 | 5.85 | 1.85 | 3.39 | 5.19 | 4.26 | 2.26 | 7.76 | 3.26 | 7.65 | 57.81 |
| 1933 | 2.73 | 6.32 | 7.20 | 2.98 | 9.54 | 6.15 | 6.15 | 3.78 | 2.39 | 5.87 | 3.11 | 7.65 | 53.38 |
| 1934 | 3.28 | 10.78 | 10.78 | 3.08 | 6.21 | 5.89 | 3.56 | 3.56 | 1.15 | 2.02 | 3.12 | 3.12 | 48.77 |
| 1935 | 3.80 | 4.69 | 5.99 | 5.52 | 3.08 | 2.61 | 2.92 | 1.64 | 4.37 | 5.32 | 1.53 | 4.67 | 46.79 |
| 1936 | 3.58 | 3.11 | 7.03 | 5.06 | .58 | 2.7 | 7.30 | .33 | 2.84 | 5.78 | 5.05 | 7.42 | 48.35 |
| 1937 | 12.42 | 3.35 | 2.02 | 3.58 | 7.18 | 3.23 | 3.68 | 7.71 | 3.60 | 6.44 | 1.63 | 3.07 | 57.93 |
| 1938 | 6.32 | 1.09 | 4.78 | 4.00 | 4.08 | 3.53 | 7.08 | 3.11 | 3.11 | .80 | 5.61 | 4.17 | 45.69 |
| 1939 | 6.41 | 11.31 | 5.36 | 4.76 | 3.69 | 11.71 | 2.18 | 3.03 | .76 | .62 | 3.16 | 3.16 | 54.84 |
| 1940 | 2.15 | 5.29 | 5.12 | 5.12 | 3.71 | 2.14 | 2.94 | 4.06 | .54 | 3.22 | 3.37 | 2.81 | 41.26 |
| 1941 | 2.36 | .74 | 2.32 | 4.09 | 1.49 | 1.92 | 8.12 | 5.81 | .47 | 3.04 | 3.03 | 7.42 | 37.03 |
| 1942 | 2.75 | 4.03 | 3.66 | 2.73 | 2.73 | 3.98 | 6.08 | 2.68 | 2.20 | 2.00 | 1.58 | 3.07 | 40.47 |
| 1943 | 1.39 | 2.37 | 4.98 | 5.39 | 4.72 | 3.47 | 6.58 | 2.75 | 3.84 | 1.26 | 1.88 | 7.17 | 41.98 |
| 1944 | 3.58 | 9.57 | 9.51 | 3.74 | 4.73 | 3.50 | 3.50 | 4.23 | 3.11 | 1.77 | 7.33 | 7.33 | 50.88 |
| 1945 | 3.40 | 10.99 | 3.51 | 5.02 | 5.51 | 3.44 | 4.11 | 2.20 | 2.05 | 3.46 | 8.39 | 4.59 | 56.67 |
| 1946 | 8.35 | 7.79 | 5.18 | 2.15 | 4.80 | 3.32 | 6.26 | 1.58 | 4.80 | 1.89 | 6.00 | 3.36 | 55.48 |
| 1947 | 7.17 | 2.03 | 2.65 | 4.11 | 5.16 | 8.26 | 2.00 | 2.00 | 4.94 | 3.70 | 10.49 | 6.23 | 63.18 |
| 1948 | 4.48 | 13.01 | 7.25 | 2.83 | 2.83 | 5.63 | 3.84 | 3.84 | 1.68 | 1.68 | 4.01 | 51.73 | 66.30 |
| 1949 | 8.48 | 3.07 | 4.83 | 3.63 | 3.86 | 9.40 | 4.10 | 1.11 | 1.28 | .35 | 4.01 | 4.01 | 51.73 |
| 1950 | 17.69 | 8.24 | 6.36 | 1.32 | 7.52 | 3.96 | 3.30 | 4.38 | 3.92 | .49 | 7.16 | 1.96 | 66.30 |
| 1951 | 6.16 | 7.77 | 5.30 | 5.01 | 1.54 | 1.88 | 1.88 | 1.72 | 4.21 | 1.37 | 4.78 | 9.02 | 55.18 |
| 1952 | 7.57 | 4.12 | 6.31 | 1.98 | 1.87 | 2.04 | 1.21 | 6.35 | 2.87 | 2.87 | 3.56 | 4.17 | 44.36 |
| 1953 | 7.49 | 7.49 | 5.32 | 6.64 | 4.85 | 1.74 | 6.74 | .56 | 2.09 | .41 | 4.17 | 4.17 | 47.54 |
| 1954 | 10.02 | 4.24 | 3.62 | 5.34 | 5.85 | 2.12 | 2.00 | 2.00 | 3.11 | 2.21 | 2.29 | 6.83 | 51.62 |
| 1955 | 1.64 | 7.45 | 9.69 | 6.62 | 5.20 | 1.89 | 2.49 | 2.32 | 1.97 | 2.11 | 8.26 | 8.26 | 50.51 |
| 1956 | 4.96 | 7.89 | 3.51 | 4.73 | 2.23 | 2.51 | 4.47 | 4.81 | 2.57 | 3.29 | 1.32 | 4.13 | 50.81 |
| 1957 | 11.75 | 6.47 | 3.15 | 4.63 | 3.15 | 1.27 | 2.21 | 2.21 | 0.61 | 2.81 | 8.35 | 4.13 | 60.72 |
| 1958 | 2.69 | 1.82 | 2.45 | 7.17 | 4.63 | 2.33 | 3.52 | 4.03 | 6.17 | .37 | 4.10 | 5.56 | 38.95 |
| 1959 | 4.09 | 5.11 | 5.03 | 5.03 | 4.44 | 5.16 | 4.31 | 4.31 | 2.31 | 3.40 | 5.56 | 58.64 | 58.64 |
| 1960 | 3.23 | 3.74 | 4.00 | 1.97 | 3.37 | 3.12 | 3.53 | 3.10 | 5.65 | 3.50 | 3.04 | 3.57 | 41.82 |
| 1961 | 2.22 | 6.83 | 9.50 | 3.25 | 4.25 | 6.23 | 5.00 | 4.67 | .79 | .94 | 8.23 | 8.23 | 56.19 |
| 1962 | 9.07 | 4.99 | 7.28 | 4.13 | 5.37 | 4.49 | 4.49 | 2.17 | 5.67 | 1.18 | 4.13 | 4.13 | 61.92 |
| 1963 | 1.80 | 2.21 | 9.12 | 2.62 | 3.29 | 5.14 | 8.16 | 8.16 | .73 | 3.30 | 1.25 | 4.13 | 42.84 |
| 1964 | 4.19 | 4.55 | 10.30 | 10.30 | 4.19 | 1.33 | 4.80 | 7.53 | 3.80 | 5.33 | 3.16 | 3.89 | 59.65 |
| 1965 | 3.00 | 5.07 | 9.20 | 8.92 | 4.97 | 5.23 | 5.43 | 2.76 | 3.04 | 1.18 | 3.05 | 3.05 | 52.47 |

E Estimated. In some cases precipitation values were estimated from snowfall or were interpolated from nearby stations.
T Trace, an amount too small to measure.

PROBABILITY OF LOW TEMPERATURES IN SPRING AND FALL

| Minimum Temp. (°F) | Percent of occurrence after the date in spring | | | | | Percent of occurrence before the date in fall | | | | |
|--------------------|--|------|------|------|------|---|-------|-------|-------|-------|
| | 90% | 75% | 50% | 25% | 10% | 10% | 25% | 50% | 75% | 90% |
| 32 | 3/27 | 4/3 | 4/10 | 4/17 | 4/24 | 10/6 | 10/14 | 10/24 | 11/3 | 11/11 |
| 28 | 3/27 | 3/16 | 3/27 | 4/7 | 4/16 | 10/26 | 10/30 | 11/6 | 11/13 | 11/19 |
| 24 | 2/18 | 2/28 | 3/11 | 3/22 | 4/1 | 11/8 | 11/14 | 11/20 | 11/28 | 12/5 |
| 20 | 2/9 | 2/22 | 3/7 | 3/18 | 4/1 | 11/2 | 11/7 | 11/29 | 12/9 | - |
| 16 | 1/1 | 1/28 | 2/13 | 2/28 | 3/12 | 11/24 | 12/5 | 12/18 | - | - |

This table summarizes for a 30-year period, the dates when low temperatures last occurred in the spring and first occurred in the fall at Palmetto. The average date is given in the 50% column. In the spring the table shows that for a temperature 32° or lower, there is a 90% chance (9) chances out of 10) after March 27, a 10% chance (1) chance out of 10) after April 24. In the fall, there is a 10% chance of a freeze, 32° or lower before October 6, a 90% chance, before November 11. It should be noted that all freeze data are based on temperatures in a standard U. S. weather Bureau thermometer shelter at a height of approximately 5 feet above ground and in a representative exposure. Lower temperatures will exist at times nearer the ground and/or in local areas subject to extreme air drainage.