

# CLIMATOLOGICAL SUMMARY

STATION: Circleville, Ohio

LATITUDE 39° 37' N  
 LONGITUDE 82° 57' W  
 ELEV. (GROUND) 670 Ft.

MEANS AND EXTREMES FOR PERIOD 1942-1965

| MONTH | TEMPERATURE (° F) |               |         |                |          |     |               |      |                    |                     |              | PRECIPITATION TOTALS (INCHES) |               |              |       |                  |      |                |      |     |                     |                 | MONTH |      |                |      |     |             |             |             |              |      |
|-------|-------------------|---------------|---------|----------------|----------|-----|---------------|------|--------------------|---------------------|--------------|-------------------------------|---------------|--------------|-------|------------------|------|----------------|------|-----|---------------------|-----------------|-------|------|----------------|------|-----|-------------|-------------|-------------|--------------|------|
|       | MEANS             |               |         |                | EXTREMES |     |               |      | MEAN DEGREE DAYS** | MEAN NUMBER OF DAYS |              |                               |               | SNOW, SLEET  |       |                  |      |                |      |     | MEAN NUMBER OF DAYS |                 |       |      |                |      |     |             |             |             |              |      |
|       | DAILY MAXIMUM     | DAILY MINIMUM | MONTHLY | RECORD HIGHEST | YEAR     | DAY | RECORD LOWEST | YEAR |                    | DAY                 | 9° AND ABOVE | 32° AND BELOW                 | 32° AND BELOW | 0° AND BELOW | MEAN  | GREATEST MONTHLY | YEAR | GREATEST DAILY | YEAR | DAY | MEAN                | MAXIMUM MONTHLY |       | YEAR | GREATEST DAILY | YEAR | DAY | .01 or MORE | .10 or MORE | .50 or MORE | 1.00 or MORE |      |
|       |                   |               |         |                |          |     |               |      | MAX.               |                     |              |                               |               |              |       |                  |      |                |      |     |                     |                 |       |      |                |      |     |             |             |             |              | MIN. |
| JAN   | 40.2              | 22.7          | 31.4    | 77             | 50       | 26  | -18*          | 46   | 28                 | 1056                | 0            | 7                             | 24            | 2.94         | 10.16 | 45.8             | 2.50 | 5.0            | 6    | 6.6 | 15.0                | 21.4            | 7.3   | 61   | 11             | 11   | 1.0 | 1.0         | 1.0         | 1.0         | JAN          |      |
| FEB   | 43.3              | 24.1          | 33.7    | 73*            | 61       | 24  | -13           | 31   | 3                  | 830                 | 0            | 4                             | 24            | 2.63         | 4.99  | 35.8             | 1.68 | 5.1            | 1    | 5.7 | 15.0                | 21.4            | 7.3   | 61   | 11             | 11   | 1.0 | 1.0         | 1.0         | 1.0         | FEB          |      |
| MAR   | 52.5              | 31.2          | 41.6    | 35             | 50       | 27  | -14           | 64   | 14                 | 715                 | 0            | 0                             | 18            | 4.21         | 11.20 | 45.8             | 3.57 | 6.4            | 1    | 3.0 | 10.5                | 21.4            | 7.3   | 61   | 11             | 11   | 1.0 | 1.0         | 1.0         | 1.0         | MAR          |      |
| APR   | 64.5              | 41.1          | 53.0    | 90             | 42       | 30  | 18            | 30   | 14                 | 373                 | 0            | 0                             | 6             | 4.03         | 7.37  | 45.8             | 2.60 | 4.7            | 1    | 3.0 | 6.3                 | 21.4            | 7.3   | 61   | 11             | 11   | 1.0 | 1.0         | 1.0         | 1.0         | APR          |      |
| MAY   | 75.7              | 51.1          | 62.4    | 94             | 62       | 18  | 27            | 47   | 10                 | 126                 | 0            | 0                             | 1             | 3.55         | 6.70  | 45.8             | 2.20 | 3.6            | 1    | 3.0 | 6.3                 | 21.4            | 7.3   | 61   | 11             | 11   | 1.0 | 1.0         | 1.0         | 1.0         | MAY          |      |
| JUNE  | 84.1              | 59.6          | 71.8    | 100*           | 52       | 39  | 35            | 64   | 1                  | 16                  | 0            | 0                             | 0             | 3.55         | 6.41  | 45.8             | 2.10 | 3.6            | 1    | 3.0 | 6.3                 | 21.4            | 7.3   | 61   | 11             | 11   | 1.0 | 1.0         | 1.0         | 1.0         | JUNE         |      |
| JULY  | 87.1              | 62.3          | 75.0    | 105            | 54       | 14  | 38            | 68   | 1                  | 1                   | 0            | 0                             | 0             | 4.41         | 10.24 | 45.8             | 2.63 | 4.7            | 1    | 3.0 | 6.3                 | 21.4            | 7.3   | 61   | 11             | 11   | 1.0 | 1.0         | 1.0         | 1.0         | JULY         |      |
| AUG   | 86.2              | 60.3          | 72.5    | 102            | 53       | 11  | 38            | 65   | 2                  | 6                   | 0            | 0                             | 0             | 4.21         | 9.83  | 45.8             | 2.57 | 4.7            | 1    | 3.0 | 6.3                 | 21.4            | 7.3   | 61   | 11             | 11   | 1.0 | 1.0         | 1.0         | 1.0         | AUG          |      |
| SEPT  | 80.4              | 53.6          | 67.1    | 102*           | 55       | 2   | 26            | 53   | 30                 | 71                  | 0            | 0                             | 0             | 3.99         | 7.37  | 45.8             | 2.57 | 4.7            | 1    | 3.0 | 6.3                 | 21.4            | 7.3   | 61   | 11             | 11   | 1.0 | 1.0         | 1.0         | 1.0         | SEPT         |      |
| OCT   | 69.9              | 52.8          | 56.3    | 91*            | 51       | 5   | 17            | 32   | 21                 | 254                 | 0            | 0                             | 0             | 4.16         | 9.22  | 45.8             | 2.57 | 4.7            | 1    | 3.0 | 6.3                 | 21.4            | 7.3   | 61   | 11             | 11   | 1.0 | 1.0         | 1.0         | 1.0         | OCT          |      |
| NOV   | 54.0              | 33.3          | 43.6    | 82             | 50       | 1   | -16           | 56   | 30                 | 635                 | 0            | 0                             | 14            | 4.54         | 9.22  | 45.8             | 2.57 | 4.7            | 1    | 3.0 | 6.3                 | 21.4            | 7.3   | 61   | 11             | 11   | 1.0 | 1.0         | 1.0         | 1.0         | NOV          |      |
| DEC   | 41.6              | 23.2          | 32.7    | 72             | 51       | 31  | -12           | 42   | 21                 | 976                 | 0            | 6                             | 24            | 2.53         | 5.26  | 45.8             | 1.78 | 4.7            | 1    | 3.0 | 6.3                 | 21.4            | 7.3   | 61   | 11             | 11   | 1.0 | 1.0         | 1.0         | 1.0         | DEC          |      |
| YEAR  | 64.9              | 42.2          | 52.6    | 103            | 54       | 14  | -18           | 46   | 26                 | 9145                | 31           | 18                            | 112           | 2            | 30.20 | 11.20            | 45.8 | 3.28           | 4.7  | 14  | 23.0*               | 17.5            | 20    | 10.0 | 20             | 11   | 7   | 4.5         | 7           | 1.0         | 7            | YEAR |

\*\* BASE 65° F \*Also on earlier dates, months, or years  
 #Snowfall means estimated from broken record

## NARRATIVE CLIMATOLOGICAL SUMMARY

Circleville is located in the east central portion of Pickaway County in central Ohio about 60 miles north of the Ohio River near the southeastern limit of a large plains area (the Scioto Valley). Terrain becomes more rolling to hilly east of the Scioto Valley. Elevation above mean sea level within Pickaway County ranges from about 650 feet near the Scioto River to about 1100 feet in the vicinity Tarlton. The more rugged terrain lies just to the east of Circleville while to the west the terrain rises so gradually that it gives the appearance of being nearly level. Valley areas in the hilly region of Pickaway County are subject to extended periods of atmospheric stagnation. During such periods, the ability of the atmosphere to transport and diffuse pollutants emitted into the air is reduced.

The climate of Pickaway County is marked by large annual, daily, and day to day ranges of temperature. Such a climate is characteristic of a land mass the size of North America and is classified as continental. In the Circleville area, summers are moderately warm and humid with several days when temperatures exceed 89° F. Winters are reasonably cold and cloudy but days with subzero temperatures are rare. Weather changes occur every few days from the passing of cold or warm fronts and their associated centers of high and low pressures.

Circleville's normal average annual temperature is about one degree above the average for central Ohio. In 8 of 10 years the average annual temperature is in the 52.0° F range. On nights with clear skies and light winds there is often a large variation in observed surface temperatures within Pickaway County. This is especially true in the vicinity of hills. On such nights, the air near the tops of hills becomes cooler and denser than air at the same heights over the valleys. These air temperature and density differences cause the cool air to drain down the slopes and into the valleys. This drainage often results in large differences in surface temperatures between valley floors and the tops of hills. The daily range in temperature is usually greatest in late summer and early fall and least in winter. Annual extremes in temperature normally occur soon after June 21 and December 22. The highest temperature during the year is equal to or greater than 93° F in 9 of 10 years, 97° F in 5 of 10 years, and 101° F in 1 of 10 years. Lowest temperature during the year is equal to or less than 2° F in 9 of 10 years, -5° F in 5 of 10 years, and -13° F in 1 of 10 years.

Heating degree days (mean degree days) as shown in the above table are a measure of the departure of the average daily temperature from 65° F. When the average daily temperature is above 65° F, the degree day value for that day is zero. The daily totals are accumulated from July 1 through June 30. At any point during the year, the accumulated degree days can be used as an index of past temperature effect upon power consumption and fuel consumption for heating of homes and businesses.

Taking the number of days between the last freezing temperature (32° F) of spring and the first freezing temperature in fall as the crop-growing season, this season

PROBABILITY OF FREEZES OCCURRING AS LATE IN THE SPRING OR AS EARLY IN THE FALL AS DATES SHOWN IN THE FOLLOWING TABLE

| PERCENT CHANCE OF LATER DATE IN SPRING | TEMPERATURE LEVELS |        |        |         |         |         |         |         |        |        |
|--|--------------------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
|  | 16°                | 20°    | 24°    | 28°     | 32°     | 36°     | 40°     | 44°     | 48°    | 52°    |
| 90                                     | FEB 12             | FEB 21 | MAR 12 | MAR 29  | APR 11  | APR 25  | MAY 8   | MAY 22  | JUN 5  | JUN 19 |
| 70                                     | FEB 20             | MAR 6  | MAR 21 | APR 5   | APR 21  | MAY 3   | MAY 17  | MAY 31  | JUN 14 | JUN 28 |
| 50                                     | MAR 1              | MAR 15 | MAR 29 | APR 10  | APR 24  | MAY 6   | MAY 20  | MAY 34  | JUN 7  | JUN 21 |
| 30                                     | MAR 9              | MAR 24 | APR 4  | APR 15  | MAY 5   | MAY 19  | MAY 33  | JUN 6   | JUN 20 | JUL 4  |
| 10                                     | MAR 17             | APR 5  | APR 14 | APR 23  | MAY 15  | MAY 29  | JUN 2   | JUN 16  | JUN 30 | JUL 14 |
| PERCENT CHANCE OF EARLIER DATE IN FALL |                    |        |        |         |         |         |         |         |        |        |
| 10                                     | NOV 2              | OCT 20 | OCT 13 | SEPT 25 | SEPT 19 | SEPT 13 | SEPT 7  | SEPT 1  | AUG 25 | AUG 19 |
| 30                                     | NOV 12             | OCT 29 | OCT 31 | OCT 3   | SEPT 26 | SEPT 20 | SEPT 14 | SEPT 8  | AUG 2  | AUG 26 |
| 50                                     | NOV 19             | NOV 4  | OCT 26 | OCT 9   | SEPT 30 | SEPT 24 | SEPT 18 | SEPT 12 | AUG 6  | AUG 30 |
| 70                                     | NOV 26             | NOV 11 | OCT 31 | OCT 15  | OCT 5   | SEPT 29 | SEPT 23 | SEPT 17 | AUG 11 | AUG 31 |
| 90                                     | OCT 8              | NOV 19 | NOV 8  | OCT 23  | OCT 11  | SEPT 31 | SEPT 25 | SEPT 19 | AUG 13 | AUG 31 |

averages 164 days at Circleville. The growing season is longer than 185 days in 10% of the years and shorter than 142 days in 1 of 10 years. Similar information for other locations within Pickaway County may differ significantly from the Circleville data due to variations in topography especially east of Circleville.

Generally, humidity rises and falls inversely with the daily temperature and is lowest in summer and highest in winter. For the year, relative humidity averages about 80% at 1 and 7 AM, 60% at 1 PM, and 70% at 7 PM. During summer afternoons, the relative humidity is often in the 50-60% range. Cloudiness is greatest in winter and least in summer. This seasonal variation in cloudiness is most clearly illustrated by the percentage of possible sunshine which is about 70% in July and 35% in December. Fog that reduces visibility to less than 1/4 mile is most frequent during the cold half of the year. Damaging winds of 35 to 85 mph occur most often during spring and summer. Such storms are usually associated with migrating thunderstorms.

The tornado, one of the most destructive of all atmospheric storms, is characterized by a violently rotating column of air which is nearly always observable as a "funnel cloud". It frequently leaves great destruction along a narrow path and is usually accompanied by heavy rain and hail and often by lightning and thunder. Since 1900, 6 such storms have been reported in Pickaway County.

As is characteristic of continental climates, precipitation in the Circleville area varies widely from year to year, however, it is normally abundant and well distributed throughout the year with fall being the driest season. Showers and thunderstorms account for most of the rainfall during the growing season. Heavy rains of 2.2, 3.1, 3.7, 4.5, 5.1, and 5.7 inches in 24-hours can be expected to occur at least once in 2, 5, 10, 25, 50, and 100 years respectively. As is typical of much of Ohio, most precipitation during the winter months comes in the form of rain. During any year, snowfall may fluctuate widely from the means as given in the above table.

Evaporation is greatest during the warm months and is then most critical for agriculture. When evaporation greatly exceeds precipitation for prolonged periods a drought may occur. Since 1929, extended periods of moderate to extreme drought in central Ohio, as determined from the Palmer Drought Severity Index, have occurred during the 1930, 1931, 1934, 1936, 1953, 1954, 1955, and 1962 growing seasons. The longest continuing period of moderate to extreme drought within central Ohio is 21 months (November 1952-July 1954).

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### STATION HISTORY

| DATE            | LOCATION                    | ELEVATION           | OBSERVER  |
|-----------------|-----------------------------|---------------------|---|
| Date            | Location (From Post Office) | Elevation (Ft. MSL) | Observer  |
| 7/1888-11/1890  | Unknown                     | Unknown             | H. Reneck   |
| 11/1894-9/1911  | 0.1 mile W                  | 720                 | S. W. Courtwright   |
| 10/1911-4/1939  | 0.2 mile W                  | 694                 | H. R. Clarke  |
| 4/1939-3/1941   | 0.2 mile W                  | 694                 | A. M. Clarke  |
| 4/1941-7/1942   | 0.5 mile WSW                | 694                 | E. F. Leist   |
| 7/1942-9/1946   | 0.5 mile WSW                | 694                 | R. Horoks   |
| 10/1946-3/1947  | 0.8 mile N                  | 718                 | A. W. Phillips  |
| 4/1947-4/1949   | 0.8 mile N                  | 718                 | C. T. Carter  |
| 4/1949-10/1950  | 0.8 mile N                  | 718                 | J. W. Smith   |
| 10/1950-11/1963 | 0.2 mile W                  | 690                 | Winorr Canning Co.  |
| 11/1963-5/1964  | 0.3 mile NW                 | 681                 | Pickaway Grain Co.  |
| 5/1964-Present  | 0.9 mile NW                 | 670                 | Employees of Treatment Plant under direction of E. F. Leist |

AVERAGE TEMPERATURE (°F)

| YEAR | JAN  | FEB  | MAR  | APR  | MAY  | JUNE | JULY | AUG  | SEPT | OCT  | NOV  | DEC  | ANNUAL |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 42   | 30.1 | 33.0 | 45.5 | 59.2 | 64.0 | 73.6 | 76.6 | 73.3 | 63.9 | 57.4 | 45.9 | 29.4 | 54.1   |
| 43   | 32.9 | 33.0 | 41.1 | 53.1 | 63.1 | 70.0 | 73.4 | 72.9 | 63.2 | 52.2 | 35.4 | 29.2 | 52.0   |
| 44   | 32.5 | 34.6 | 37.7 | 50.0 | 60.0 | 68.1 | 74.1 | 73.3 | 72.2 | 62.0 | 33.6 | 42.6 | 53.2   |
| 45   | 32.5 | 32.1 | 38.9 | 53.1 | 63.1 | 69.4 | 73.0 | 72.4 | 62.0 | 53.3 | 42.1 | 26.0 | 52.4   |
| 46   | 32.2 | 34.9 | 31.0 | 41.0 | 50.1 | 60.0 | 70.0 | 73.2 | 61.0 | 53.0 | 40.7 | 33.8 | 54.2   |
| 47   | 31.6 | 31.7 | 38.4 | 53.4 | 63.4 | 70.1 | 70.4 | 78.0 | 66.0 | 63.5 | 41.6 | 33.1 | 53.0   |
| 48   | 31.5 | 31.7 | 41.2 | 55.2 | 65.2 | 71.7 | 76.2 | 73.0 | 68.0 | 51.2 | 47.6 | 35.1 | 52.1   |
| 49   | 31.5 | 30.2 | 41.2 | 52.3 | 62.3 | 74.1 | 79.0 | 74.4 | 62.1 | 60.2 | 43.3 | 36.7 | 54.8   |
| 50   | 42.2 | 37.0 | 40.4 | 48.5 | 54.0 | 69.6 | 76.2 | 70.7 | 66.1 | 60.4 | 38.4 | 27.3 | 52.9   |
| 51   | 31.6 | 34.0 | 43.5 | 51.9 | 64.9 | 72.9 | 76.0 | 73.7 | 63.9 | 52.5 | 28.4 | 34.0 | 54.1   |
| 52   | 35.2 | 37.2 | 42.3 | 53.0 | 63.3 | 70.8 | 76.0 | 73.1 | 69.7 | 50.9 | 44.7 | 36.0 | 55.1   |
| 53   | 31.1 | 41.1 | 44.5 | 50.4 | 66.9 | 75.0 | 75.7 | 72.2 | 68.4 | 59.0 | 44.7 | 35.7 | 55.6   |
| 54   | 33.7 | 41.1 | 40.0 | 53.5 | 67.9 | 73.2 | 74.2 | 78.2 | 68.4 | 59.0 | 42.8 | 31.4 | 54.7   |
| 55   | 30.2 | 34.5 | 43.0 | 58.0 | 65.2 | 67.5 | 75.8 | 78.1 | 70.0 | 56.6 | 41.8 | 31.9 | 54.8   |
| 56   | 28.2 | 37.4 | 42.3 | 59.8 | 63.7 | 72.0 | 74.7 | 73.8 | 64.1 | 59.6 | 44.0 | 42.9 | 54.6   |
| 57   | 31.0 | 38.5 | 44.5 | 54.5 | 64.5 | 73.4 | 76.0 | 73.0 | 68.1 | 52.7 | 44.6 | 38.4 | 54.8   |
| 58   | 33.0 | 36.4 | 46.7 | 57.2 | 67.2 | 74.6 | 77.0 | 81.0 | 67.0 | 52.5 | 48.5 | 23.4 | 51.9   |
| 59   | 31.6 | 30.4 | 40.7 | 51.2 | 61.2 | 72.2 | 74.6 | 77.0 | 67.0 | 52.5 | 42.0 | 25.7 | 52.1   |
| 60   | 31.6 | 30.6 | 29.6 | 58.4 | 68.4 | 71.4 | 73.2 | 76.0 | 69.7 | 55.2 | 42.0 | 25.7 | 52.1   |
| 61   | 28.2 | 37.6 | 43.6 | 46.3 | 57.9 | 68.2 | 73.5 | 73.2 | 70.4 | 57.4 | 43.4 | 32.1 | 52.4   |
| 62   | 28.9 | 31.9 | 35.2 | 49.2 | 67.0 | 70.9 | 72.8 | 73.4 | 63.0 | 57.3 | 42.7 | 26.1 | 51.6   |
| 63   | 23.1 | 26.4 | 42.0 | 53.9 | 61.0 | 71.3 | 73.7 | 70.3 | 64.0 | 60.3 | 46.0 | 23.9 | 51.7   |
| 64   | 31.4 | 31.6 | 42.9 | 53.9 | 67.2 | 71.9 | 73.7 | 72.9 | 67.2 | 52.6 | 47.4 | 36.8 | 54.7   |
| 65   | 31.2 | 32.3 | 37.6 | 53.0 | 66.5 | 71.2 | 73.0 | 71.8 | 68.5 | 53.6 | 45.5 | 39.4 | 53.8   |
| 66   | 25.7 | 32.3 | 44.8 | 50.1 | 58.7 | 72.1 | 76.3 | 74.9 | 64.0 | 52.1 | 44.9 | 33.5 | 52.3   |
| 67   | 36.3 | 29.8 | 44.2 | 56.4 | 58.6 | 73.1 | 73.1 | 70.3 | 62.9 | 56.3 | 40.2 | 32.5 | 53.2   |
| 68   | 28.0 | 27.2 | 44.9 | 54.9 | 60.5 | 73.9 | 74.6 | 74.6 | 67.0 | 56.3 | 40.2 | 37.5 | 53.1   |
| 69   | 28.4 | 33.1 | 35.1 |      |      |      |      |      |      |      |      |      |        |

MONTHLY AND SEASONAL SNOWFALL

| YEAR | JAN  | FEB  | MAR   | APR  | MAY   | JUNE | JULY  | AUG  | SEPT | OCT  | NOV  | DEC   | ANNUAL |
|------|------|------|-------|------|-------|------|-------|------|------|------|------|-------|--------|
| 42   | 1.26 | 2.19 | 2.66  | 2.65 | 2.71  | 4.29 | 5.35  | 1.99 | 2.90 | 1.66 | 3.55 | 4.01  | 35.28  |
| 43   | 1.53 | 1.36 | 5.22  | 2.84 | 6.09  | 4.11 | 7.77  | 3.35 | 1.81 | 3.98 | 2.86 | 1.28  | 26.24  |
| 44   | 6.1  | 3.06 | 5.61  | 4.55 | 2.38  | 5.01 | 1.81  | 0.95 | 1.86 | 2.11 | 2.35 | 4.51  | 40.60  |
| 45   | 9.8  | 3.06 | 1.20  | 4.57 | 2.38  | 2.53 | 2.80  | 1.77 | 1.82 | 2.06 | 1.45 | 4.06  | 26.60  |
| 46   | 7.8  | 3.46 | 4.79  | 2.28 | 6.70  | 6.11 | 2.81  | 1.91 | 1.50 | 3.10 | 3.54 | 1.99  | 38.45  |
| 47   | 5.26 | 7.3  | 1.21  | 7.54 | 4.78  | 6.11 | 10.24 | 5.31 | 5.04 | 4.01 | 1.91 | 2.32  | 49.76  |
| 48   | 2.1  | 2.45 | 3.70  | 2.07 | 2.72  | 6.82 | 4.56  | 3.20 | 2.42 | 1.70 | 1.41 | 2.94  | 40.25  |
| 49   | 10.1 | 3.93 | 1.40  | 4.10 | 2.45  | 2.92 | 4.02  | 1.12 | 6.12 | 1.99 | 5.24 | 2.03  | 45.48  |
| 50   | 5.44 | 4.37 | 4.47  | 2.59 | 3.16  | 4.38 | 5.52  | 4.97 | 3.54 | 1.29 | 3.81 | 5.17  | 45.19  |
| 51   | 3.85 | 2.42 | 4.59  | 4.50 | 3.62  | 2.17 | 3.16  | 1.67 | 1.78 | 4.93 | 1.15 | 2.41  | 32.25  |
| 52   | 1.54 | 1.54 | 2.16  | 2.49 | 3.35  | 1.97 | 3.07  | 1.50 | 1.22 | 1.13 | 1.28 | 2.05  | 25.95  |
| 53   | 2.30 | 1.09 | 2.93  | 2.90 | 3.08  | 2.79 | 2.41  | 5.66 | 1.33 | 4.83 | 1.01 | 2.59  | 33.92  |
| 54   | 1.03 | 4.52 | 5.20  | 2.42 | 1.90  | 4.59 | 3.75  | 7.77 | 5.10 | 2.68 | 3.12 | 4.46  | 33.64  |
| 55   | 2.12 | 4.99 | 4.97  | 4.38 | 5.15  | 2.14 | 5.20  | 3.82 | 4.30 | 1.31 | 3.53 | 43.14 |        |
| 56   | 2.03 | 2.15 | 1.66  | 4.20 | 3.43  | 6.06 | 3.04  | 4.7  | 3.62 | 1.81 | 3.48 | 5.26  | 39.25  |
| 57   | 2.00 | 2.66 | 1.33  | 4.50 | 3.30  | 2.52 | 4.15  | 1.88 | 2.78 | 5.22 | 3.05 | 1.82  | 37.10  |
| 58   | 4.04 | 2.88 | 2.15  | 2.93 | 2.20  | 1.59 | 3.77  | 2.86 | 2.37 | 1.35 | 2.37 | 1.73  | 30.64  |
| 59   | 2.00 | 2.66 | 3.52  | 6.09 | 4.67  | 4.57 | 5.36  | 5.89 | 1.17 | 1.99 | 5.31 | 2.75  | 43.15  |
| 60   | 2.68 | 4.12 | 3.00  | 1.53 | 3.25  | 1.11 | 6.10  | 4.53 | 3.63 | 2.68 | 2.96 | 1.76  | 33.25  |
| 61   | 1.74 | 1.27 | 9.04  | 3.92 | 2.47  | 2.72 | 3.59  | 3.51 | 1.77 | 1.12 | 1.16 | 7.9   | 32.11  |
| 62   | 2.82 | 1.85 | 10.61 | 6.51 | 1.97  | 3.86 | 1.28  | 2.27 | 2.31 | 1.86 | 2.24 | 4.94  | 41.03  |
| 63   | 2.28 | 2.82 | 3.65  | 5.76 | 2.16  | 1.70 | 4.20  | 5.01 | 7.19 | 3.60 | 1.62 | 5.7   | 40.56  |
| 64   | 4.00 | 2.25 | 1.72  | 4.01 | 2.93  | 1.04 | 5.78  | 2.62 | 3.68 | 1.21 | 5.54 | 3.19  | 38.33  |
| 65   | 1.86 | 4.20 | 4.33  | 6.55 | 3.94  | 2.34 | 1.72  | 4.54 | 1.89 | 3.25 | 2.15 | 2.63  | 36.30  |
| 66   | 2.33 | 3.7  | 4.90  | 2.43 | 32.52 | 1.62 | 8.29  | 2.54 | 2.58 | 3.84 | 3.08 | 2.15  | 38.82  |
| 67   | 3.17 | 1.06 |       |      |       |      |       |      |      |      |      |       |        |

TOTAL PRECIPITATION (INCHES)

| YEAR | JAN  | FEB  | MAR   | APR  | MAY   | JUNE | JULY  | AUG  | SEPT | OCT  | NOV  | DEC   | ANNUAL |
|------|------|------|-------|------|-------|------|-------|------|------|------|------|-------|--------|
| 42   | 1.26 | 2.19 | 2.66  | 2.65 | 2.71  | 4.29 | 5.35  | 1.99 | 2.90 | 1.66 | 3.55 | 4.01  | 35.28  |
| 43   | 1.53 | 1.36 | 5.22  | 2.84 | 6.09  | 4.11 | 7.77  | 3.35 | 1.81 | 3.98 | 2.86 | 1.28  | 26.24  |
| 44   | 6.1  | 3.06 | 5.61  | 4.55 | 2.38  | 5.01 | 1.81  | 0.95 | 1.86 | 2.11 | 2.35 | 4.51  | 40.60  |
| 45   | 9.8  | 3.06 | 1.20  | 4.57 | 2.38  | 2.53 | 2.80  | 1.77 | 1.82 | 2.06 | 1.45 | 4.06  | 26.60  |
| 46   | 7.8  | 3.46 | 4.79  | 2.28 | 6.70  | 6.11 | 2.81  | 1.91 | 1.50 | 3.10 | 3.54 | 1.99  | 38.45  |
| 47   | 5.26 | 7.3  | 1.21  | 7.54 | 4.78  | 6.11 | 10.24 | 5.31 | 5.04 | 4.01 | 1.91 | 2.32  | 49.76  |
| 48   | 2.1  | 2.45 | 3.70  | 2.07 | 2.72  | 6.82 | 4.56  | 3.20 | 2.42 | 1.70 | 1.41 | 2.94  | 40.25  |
| 49   | 10.1 | 3.93 | 1.40  | 4.10 | 2.45  | 2.92 | 4.02  | 1.12 | 6.12 | 1.99 | 5.24 | 2.03  | 45.48  |
| 50   | 5.44 | 4.37 | 4.47  | 2.59 | 3.16  | 4.38 | 5.52  | 4.97 | 3.54 | 1.29 | 3.81 | 5.17  | 45.19  |
| 51   | 3.85 | 2.42 | 4.59  | 4.50 | 3.62  | 2.17 | 3.16  | 1.67 | 1.78 | 4.93 | 1.15 | 2.41  | 32.25  |
| 52   | 1.54 | 1.54 | 2.16  | 2.49 | 3.35  | 1.97 | 3.07  | 1.50 | 1.22 | 1.13 | 1.28 | 2.05  | 25.95  |
| 53   | 2.30 | 1.09 | 2.93  | 2.90 | 3.08  | 2.79 | 2.41  | 5.66 | 1.33 | 4.83 | 1.01 | 2.59  | 33.92  |
| 54   | 1.03 | 4.52 | 5.20  | 2.42 | 1.90  | 4.59 | 3.75  | 7.77 | 5.10 | 2.68 | 3.12 | 4.46  | 33.64  |
| 55   | 2.12 | 4.99 | 4.97  | 4.38 | 5.15  | 2.14 | 5.20  | 3.82 | 4.30 | 1.31 | 3.53 | 43.14 |        |
| 56   | 2.03 | 2.15 | 1.66  | 4.20 | 3.43  | 6.06 | 3.04  | 4.7  | 3.62 | 1.81 | 3.48 | 5.26  | 39.25  |
| 57   | 2.00 | 2.66 | 1.33  | 4.50 | 3.30  | 2.52 | 4.15  | 1.88 | 2.78 | 5.22 | 3.05 | 1.82  | 37.10  |
| 58   | 4.04 | 2.88 | 2.15  | 2.93 | 2.20  | 1.59 | 3.77  | 2.86 | 2.37 | 1.35 | 2.37 | 1.73  | 30.64  |
| 59   | 2.00 | 2.66 | 3.52  | 6.09 | 4.67  | 4.57 | 5.36  | 5.89 | 1.17 | 1.99 | 5.31 | 2.75  | 43.15  |
| 60   | 2.68 | 4.12 | 3.00  | 1.53 | 3.25  | 1.11 | 6.10  | 4.53 | 3.63 | 2.68 | 2.96 | 1.76  | 33.25  |
| 61   | 1.74 | 1.27 | 9.04  | 3.92 | 2.47  | 2.72 | 3.59  | 3.51 | 1.77 | 1.12 | 1.16 | 7.9   | 32.11  |
| 62   | 2.82 | 1.85 | 10.61 | 6.51 | 1.97  | 3.86 | 1.28  | 2.27 | 2.31 | 1.86 | 2.24 | 4.94  | 41.03  |
| 63   | 2.28 | 2.82 | 3.65  | 5.76 | 2.16  | 1.70 | 4.20  | 5.01 | 7.19 | 3.60 | 1.62 | 5.7   | 40.56  |
| 64   | 4.00 | 2.25 | 1.72  | 4.01 | 2.93  | 1.04 | 5.78  | 2.62 | 3.68 | 1.21 | 5.54 | 3.19  | 38.33  |
| 65   | 1.86 | 4.20 | 4.33  | 6.55 | 3.94  | 2.34 | 1.72  | 4.54 | 1.89 | 3.25 | 2.15 | 2.63  | 36.30  |
| 66   | 2.33 | 3.7  | 4.90  | 2.43 | 32.52 | 1.62 | 8.29  | 2.54 | 2.58 | 3.84 | 3.08 | 2.15  | 38.82  |
| 67   | 3.17 | 1.06 |       |      |       |      |       |      |      |      |      |       |        |

PRECIPITATION WITH PROBABILITY EQUAL OR LESS THAN

|     | .05  | .10  | .20  | .30  | .40  | .50  | .60  | .70  | .80  | .90  |      |
|-----|------|------|------|------|------|------|------|------|------|------|------|
| JAN | .60  | .87  | 1.31 | 1.70 | 2.10 | 2.52 | 3.00 | 3.58 | 4.34 | 5.26 | 6.72 |
| FEB | .92  | 1.17 | 1.54 | 1.86 | 2.16 | 2.47 | 2.81 | 3.20 | 3.76 | 4.49 | 5.40 |
| MAR | .98  | 1.39 | 2.00 | 2.55 | 3.10 | 3.69 | 4.34 | 5.12 | 6.15 | 7.19 | 8.51 |
| APR | 1.75 | 2.11 | 2.62 | 3.03 | 3.41 | 3.90 | 4.21 | 4.69 | 5.29 | 6.14 | 7.03 |
| MAY | 1.44 | 1.75 | 2.24 | 2.63 | 2.99 | 3.36 | 3.76 | 4.22 | 4.80 | 5.69 | 6.90 |
| JUN | 1.42 | 1.75 | 2.24 | 2.63 | 2.99 | 3.36 | 3.76 | 4.22 | 4.80 | 5.69 | 6.90 |
| JUL | 1.42 | 1.75 | 2.24 | 2.63 | 2.99 | 3.36 | 3.76 | 4.22 | 4.80 | 5.69 | 6.90 |
| AUG | 1.42 | 1.75 | 2.24 | 2.63 | 2.99 | 3.36 | 3.76 | 4.22 | 4.80 | 5.69 | 6.90 |
| SEP | 1.42 | 1.75 | 2.24 | 2.63 | 2.99 | 3.36 | 3.76 | 4.22 | 4.80 | 5.69 | 6.90 |
| OCT | 1.42 | 1.75 | 2.24 | 2.63 | 2.99 | 3.36 | 3.76 | 4.22 | 4.80 | 5.69 | 6.90 |
| NOV | 1.42 | 1.75 | 2.24 | 2.63 | 2.99 | 3.36 | 3.76 | 4.22 | 4.80 | 5.69 | 6.90 |
| DEC | 1.42 | 1.75 | 2.24 | 2.63 | 2.99 | 3.36 | 3.76 | 4.22 | 4.80 | 5.69 | 6.90 |

ANN 29.54 31.30 32.51 33