The Oklahoma Climatological Survey was established with its own budget and offices in the spring of 1980. The mission of the Survey is to provide a climatological archive and information service to the State of Oklahoma. Although as many as 160 stations may appear in any one Summary, it may not be possible to list every station report received at the Survey as we plan to have the summaries in the mail before the middle of each month. If you would like information about a station that does appear, please feel free to contact the Climate Survey. If you would like to know more about the services we offer or our plans for the future, please let us hear from you. You can help us by contributing to our newspaper clipping file. If you see an article in your local newspaper dealing with some impact of climate on your community, please clip it and send it to us along with the name of the newspaper and the date the article appeared.

OKLAHOMA CLIMATE SUMMARY DECEMBER 1985

A dry December concluded a series of 12 months during which near record precipitation totals were reported across much of the State. In December, only two areas, east central and northeastern Oklahoma, received normal or above normal precipitation. Other regions of the State received from 49.7% to 62.7% of normal December precipitation. Brief episodes of sub-freezing temperatures also dominated December 1985. Mean monthly December temperatures averaged 4 to 6 degrees below normal throughout the State, with northeastern Oklahoma’s monthly temperatures averaging 4.8 degrees below normal (see table of temperature ranks).

The bitter cold at the beginning of December resulted in several new daily temperature records. Those recorded for Oklahoma City are given below.

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<tr>
<th>Day</th>
<th>Record</th>
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<th>New Year</th>
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</tr>
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</tr>
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</tr>
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<td>*3</td>
<td>lowest Tmin</td>
<td>17 1978</td>
<td>17 1985</td>
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</table>

*indicates a tie with a previous record

Early December temperatures continued the frigid trend which began in late November. These cold conditions persisted until December 3rd, when daily high temperatures finally rose above the freezing mark. Violent weather marked the close of November and the beginning of December as well. Snow fell in the Oklahoma Panhandle, freezing sleet in the middle of the State and strong thunderstorms pounded the south on November 30. Reports of hail in Jefferson and
Stephens Counties and damage in Carter and Marshall Counties from winds with speeds estimated to be 80 mph were received. Only one tornado was confirmed for November 30. It occurred at Bentley, in Atoka County at 7:30 p.m. and cut a path through the area approximately 4 miles long and 300 yards wide. Property damage was estimated to be between $50,000 and $500,000. Winds with speeds up to 90 mph caused $250,000 damage to homes, mobile homes, barns, and outbuildings in Pittsburg and Blanco in Pittsburg County.

Icy road conditions were blamed for 8 of the 21 traffic deaths recorded during the official Thanksgiving holiday. The holiday count ended on midnight on Sunday, Dec 1. Several new low temperature records for that date were set Sunday night.

After a seven-day warming trend ending December 10, cooler temperatures were reported across Oklahoma. At this time, freezing rain was reported in the northwestern one-third of the State. Ahead of the cold front, thick fog limited visibility to one-quarter of a mile. Thunderstorms also developed in southern and eastern Oklahoma. Heavy rainfall was reported in northeastern Oklahoma. As usual, the wet and icy conditions resulted in many traffic accidents. On the 10th, a travelers’ advisory was issued for much of the State for Wednesday, December 11. By Wednesday, roads were snow-packed and rain, sleet and snow were continuing in much of the State. Several additional inches of snow fell Thursday night, December 12. Total snowfall accumulations for the storms which occurred between December 10 and 14 ranged from 0 to 5 inches (see special map). Brisk winds which followed the snow produced wind chill factors of 25 to 35 degrees below zero on Friday, December 13.

Temperatures remained below freezing for four consecutive days. A warming trend then began on December 14 which continued through the remainder of the month. This pleasant weather was interrupted by only two sub-freezing days. Spotty precipitation was reported with these late December cold temperatures, but no wide-spread snow accumulations were recorded.

The impact of a hail storm which hit the Tulsa and Broken Arrow areas on November 13 was still felt in December. Insurance service firms estimated $37 million in damage claims for autos had been filed. The National Weather Service reported that this damage resulted from a 15-minute storm about 3 p.m. which dumped golf-ball size hail and almost 1-1/2 inches of rain on these locations.
OKLAHOMA SNOWFALL, DECEMBER 10-14, 1985 (inches)

NOTE: totals do not include freezing rain or ice.
### Table of 1984/1985 December Comparisons

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<th>December Precipitation (in.)</th>
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*Ranked coldest to warmest, 4=4th coldest
+1983 missing*
EXPLANATION OF TABLES

Two kinds of tables appear in this summary. The first is a set of tables containing all reporting stations grouped by climate division. The figure above provides the general station distribution and the locations of the climate divisions. Each station table contains the following:

station name:
station identification number: These are usually assigned by the National Climatic Data Center.
climate division: See the figure above.
mean monthly temperature:
number of temperature observations: These are the actual number of temperature reports recorded at the station during the current month. Missing observations may result in artificially high or low mean monthly temperatures.
deviation from normal: The deviation of the observed mean monthly temperature from the monthly station normal. A positive value indicates the month was warmer than normal. A negative value indicates the month was cooler than normal. Normal monthly temperatures may be calculated by subtracting the deviation from the observed temperature.
maximum daily maximum: The maximum daily maximum temperature observed during the current month and year and the day which it occurred.
minimum daily minimum: The minimum daily minimum temperature observed during the current month and year and the day which it occurred.
heating degree days: HDD are calculated each day of the month for which there is a temperature report and summed. They are a qualitative measure of how much heat was required to maintain an indoor temperature of 65 degrees. Missing observations may result in an artificially high or low value. For February 1984 HDD would be calculated as:

\[ \sum_{i=1}^{29} \left( 65 - \frac{TH_{MAX_i} + TH_{MIN_i}}{2} \right) \]
deviation from normal heating degree days: A positive value indicates higher than normal heating requirements for the month as a whole. A negative value indicates lower than normal heating requirements for the month as a whole. Normal HDD may be calculated by subtracting the deviation from observed HDD.

cooling degree days: CDD are calculated each day of the month for which there is a temperature report and summed. They are a proxy measure of how much cooling was required to maintain an indoor temperature of 65 degree. Missing observations may result in an artificially high or low value. For June, CDD would be calculated as:

$$\sum_{i=1}^{30} \left( (\text{TMAX}_i + \text{TMIN}_i)/2 - 65 \right)$$

deviation from normal cooling degree days: A positive value indicates higher than normal cooling requirements for the month as a whole. A negative value indicates lower than normal cooling requirements for the month as a whole. Normal cooling degree days may be found by subtracting the deviation from observed cooling degree days.

total precipitation: Often incorrectly referred to as mean precipitation this value is the sum of all precipitation reported during the month at a station. If snow occurred, it is to be melted and its water equivalent recorded.

number of precipitation observations: The number of days a rain or no-rain observation was reported. Missing observations frequently result in artificially low total precipitation values.

deviation from normal precipitation: A positive value indicates more rain than normal was received. A negative valued indicates less than was expected rainfall was received. Normal rainfall may be calculated by subtracting the deviation from monthly total.

maximum 24-hour report and day: The maximum amount of precipitation recorded during the station's 24-hour observation period for the current month and year and the day on which it was recorded.

The second set of tables contain similar information but are the average or extreme over all the stations reporting in each climate division.

EXPLANATION OF MAPS

To give a statewide perspective, a series of maps is produced each month from the information contained in the station tables. Each map is calculated using between 50 and 200 observations. Only station with complete monthly records are used. Each observation is put into one of three categories and assigned a plus (+), minus(−), or a dot (.). The minus is the lowest numeric category, the dot is the middle and the plus the highest numeric category. If a map location has no report, a value is estimated. Each map is accompanied by its own legend. The categories will vary from month to month throughout the year. The categories for the deviations from normal maps will always remain constant. This is to facilitate comparisons between months and across years.
## DECEMBER 1985 SUMMARY FOR NORTHWEST DIVISION (CD1)

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DECEMBER 1985 TOTAL PRECIPITATION (INCHES)

--- 0.00 to 1.00
.. 1.00 to 3.00
++ 3.00 to 5.61

DECEMBER 1985 DEVIATION FROM NORMAL PRECIPITATION

--- Below normal
   (less than -2.0)
.. Normal
   (-2.0 to 2.0)
++ Above normal
   (greater than 2.0)