

office of the
state climatologist



TEXAS CLIMATIC BULLETIN

Office of the Texas State Climatologist
College of Geosciences
Department of Atmospheric Sciences
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June 2007 picked up where May left off across much of the state. A series of upper level disturbances moved over Texas and pulled abundant tropical moisture off the Gulf of Mexico. This set the stage for prolonged periods of excessive rainfall, particularly across portions of North Texas and the Hill Country, causing widespread flash flooding. Numerous creeks and rivers spilled over their banks resulting in extensive property damage to homes and businesses. The rain did not let up at the end of the month. The rainy pattern shifted to portions of southeast Texas and continued into the beginning of July.

For the month, only six of the first order stations recorded below average rainfall totals. Dallas-Forth Worth recorded over 11 inches of rain, more than twice the average monthly rainfall. A record 2.54 inches fell on the 27th. Waco recorded 8.76 inches for the month, including 3.37 inches on the 17th. While Austin officially received 5.41 inches for the month, numerous locations across the hill country saw much higher amounts resulting in the widespread flooding events. The only regions of the state that saw below average rainfall were Amarillo, El Paso, and portions of southeast Texas and the Coastal Bend. While Houston recorded 16 precipitation days, only 3.07 inches of rain fell, a little more than half the monthly average. Overall it was a wet month across almost the entire state with most stations recording above average rainfall.

The heavy rainfall and extensive cloud cover helped prolonged excessive heat. 14 of the first order stations recorded below average mean temperatures for the month. West Texas recorded the largest departures from average. Abilene,

Amarillo, Del Rio, and Lubbock were all 2 degrees cooler than normal for the month. Stations experiencing above average temperatures were generally confined to southeast Texas, although Dallas/Fort Worth was above average as well.

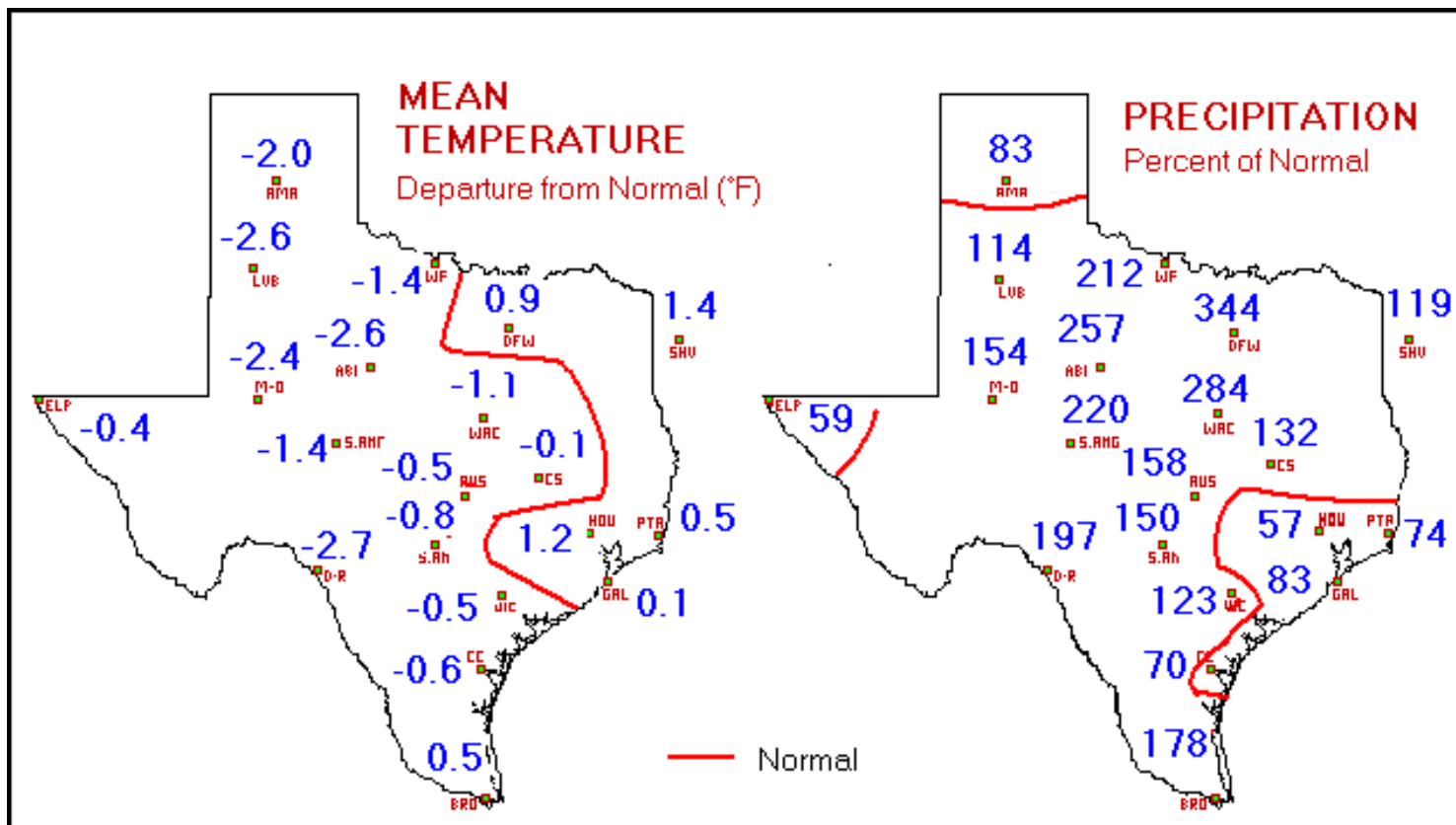
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*HDD - Heating degree-day: Refer to the Monthly Average chart for a definition

T = Trace (<0.005")

*CDD - Cooling degree-day: Refer to the Monthly Average chart for a definition

M: Information not available.



CLIMATIC AVERAGES FOR JULY

Records are at the current site, other records may have occurred at previous sites.

*CDD - Cooling degree-day: The difference between the mean individual daily temperature and 65°F, with one

CDD resulting for each degree above the standard 65°F during one day.

*HDD - Heating degree-day: The difference between the mean individual daily temperature and 65°F, with one

HDD resulting for each degree below the standard 65°F during one day.

All times given for sunrise, sunset, and moon phase times are calculated for the intersection of Meridian 99°10' W and parallel 31°23' N, which is the approximate geographic center of the state.

Climate-related Agricultural Information

<http://agnews.tamu.edu/dailynews/stories/CROP/>

Past Weather Events in July

July 21, 1909: Hurricane. Velasco, Brazoria County. One-half of town destroyed, 41 lives lost; damage \$2,000,000.

July 22-25, 1933: Tropical Storm. One of the greatest U.S. storms in area and general rainfall. The storm reached the vicinity of Freeport late on July 22 and moved very slowly overland across eastern Texas, July 22-25. The storm center moved into northern Louisiana on the 25th. Rainfall averaged 12.50 inches over an area of about 25,000 square miles. Twenty inches or more fell in a small area of eastern Texas and western Louisiana surrounding Logansport, LA. The 4-day total at Logansport was 22.30 inches. Property damage was estimated at \$1,114,790.

July 30, 1933: Tornado. Oak Cliff section of Dallas, Dallas County. Five killed, 30 injured; damage \$500,000.

July 25, 1934: Hurricane. Near Seadrift, Calhoun County. Nineteen lives lost, many minor injuries; damage \$4.5 million. About 85 percent of damage was in crops.

July 27, 1943: Hurricane. Near Galveston. Center moved inland across Bolivar Peninsula and Trinity Bar. A wind gust of 104 mph was recorded and Texas City; 19 lives lost; damage estimated at \$16,550,000.

July 24-25, 1979: Tropical Storm Claudette caused over \$750 million in property and crop damages, but fortunately only few injuries. Near Alvin, 43 inches of rain fell, a new state record for 24 hours.

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