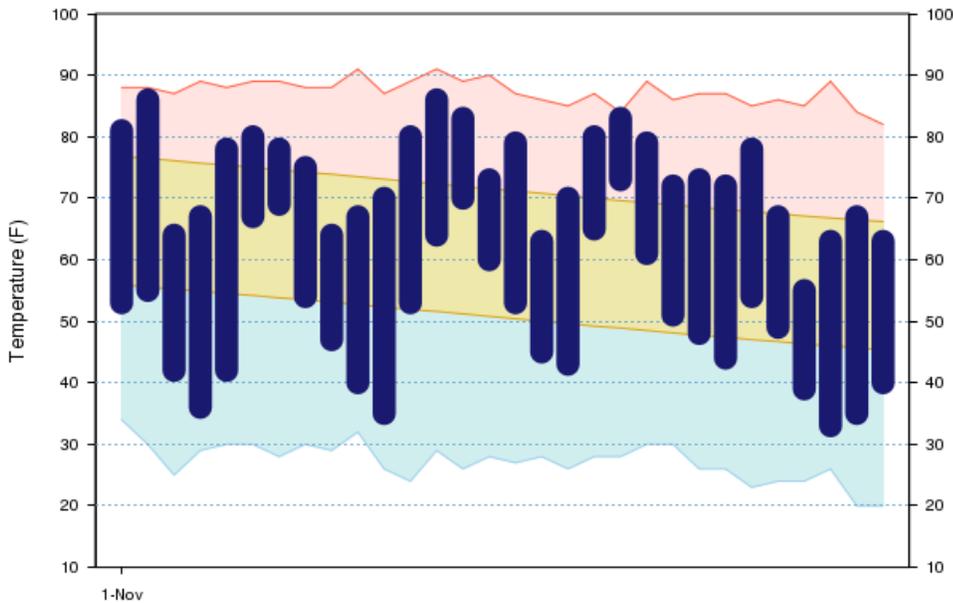


November 2011 Weather in Review

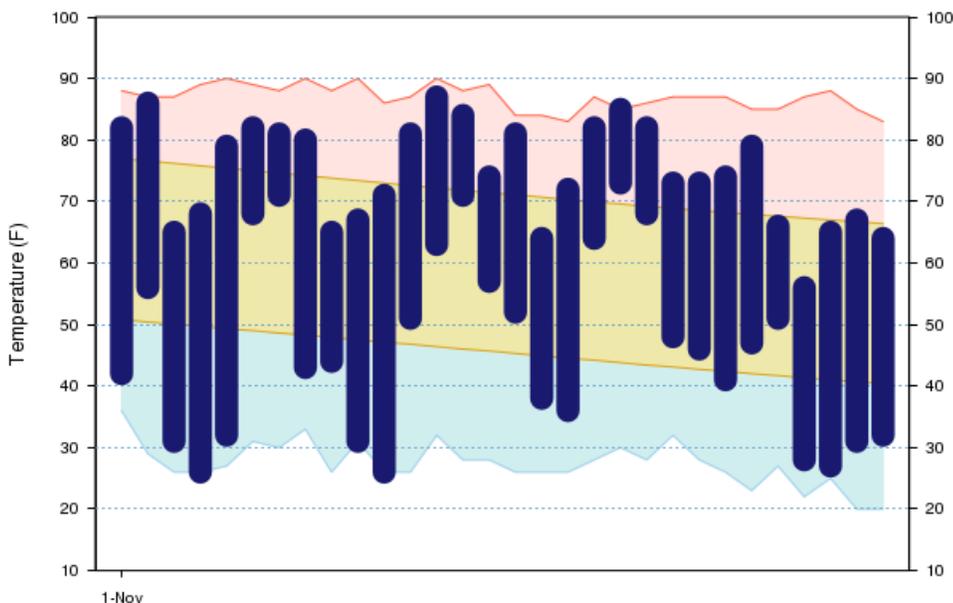
November 2011 continued the trend from October, with cooler days, yet above normal temperatures for November. A few brief outbreaks of cold air in the month came and brought more contrasts between warm and cold days. The rainfall in November was slightly less than average at most locations across South Central Texas. The charts below illustrate the daily highs and lows for November 2011.

Temperature Summary for Austin Area
Nov 1, 2011 - Nov 30, 2011



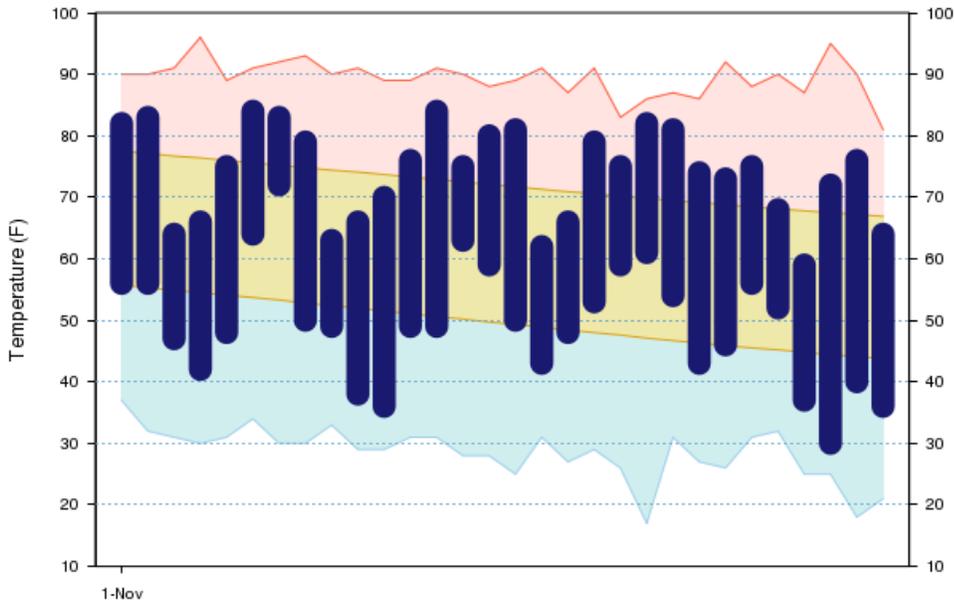
Observed daily maximum and minimum temperatures are connected by dark blue bars.
Area between normal maximum and minimum temperatures has tan shading.
Red line connects record high temperatures. Light blue line connects record low temperatures.

Temperature Summary for Austin-Bergstrom Airport Area
Nov 1, 2011 - Nov 30, 2011



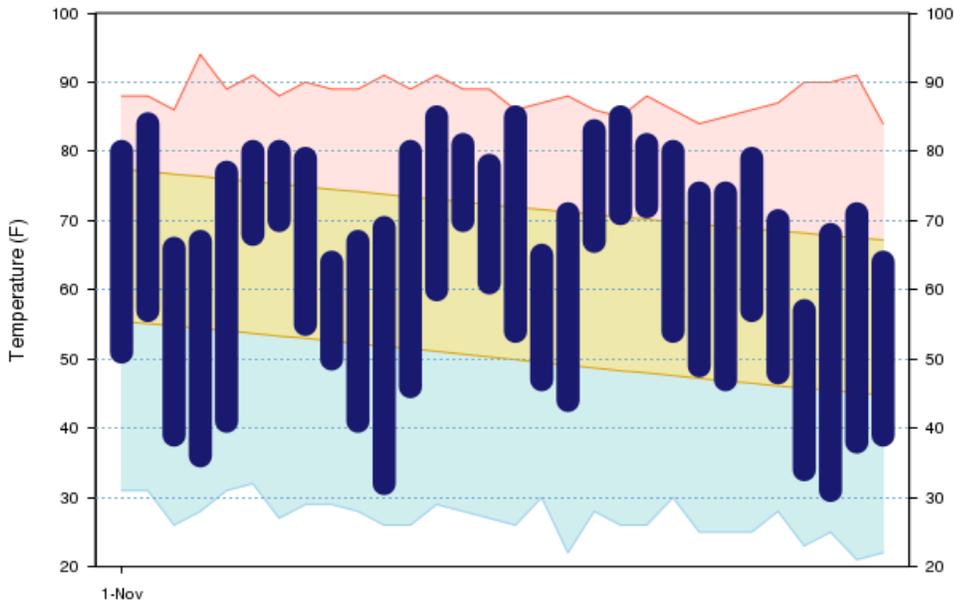
Observed daily maximum and minimum temperatures are connected by dark blue bars.
Area between normal maximum and minimum temperatures has tan shading.
Red line connects record high temperatures. Light blue line connects record low temperatures.

Temperature Summary for Del Rio Area
Nov 1, 2011 - Nov 30, 2011



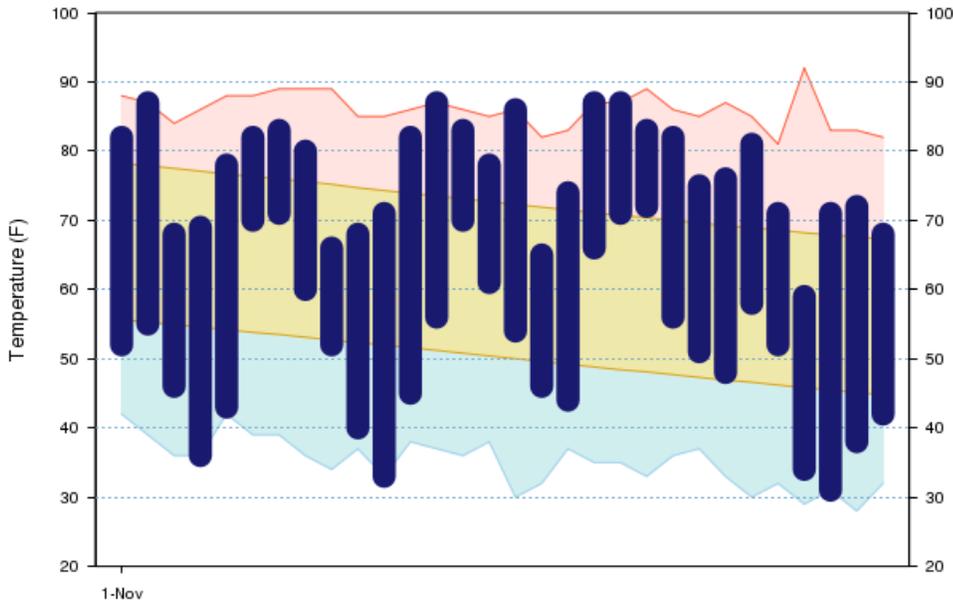
Observed daily maximum and minimum temperatures are connected by dark blue bars.
 Area between normal maximum and minimum temperatures has tan shading.
 Red line connects record high temperatures. Light blue line connects record low temperatures.

Temperature Summary for San Antonio Area
Nov 1, 2011 - Nov 30, 2011



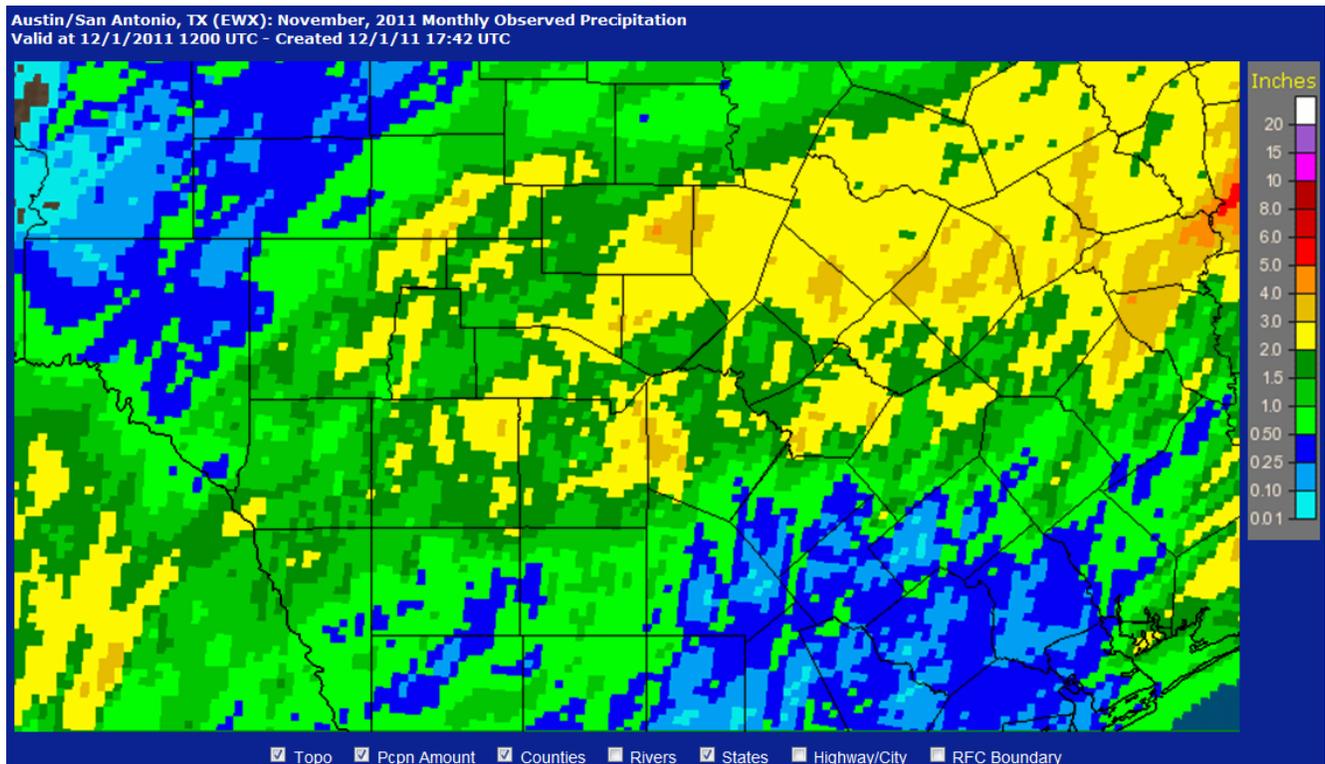
Observed daily maximum and minimum temperatures are connected by dark blue bars.
 Area between normal maximum and minimum temperatures has tan shading.
 Red line connects record high temperatures. Light blue line connects record low temperatures.

Temperature Summary for SAN ANTONIO STINSON AP
Nov 1, 2011 - Nov 30, 2011



Observed daily maximum and minimum temperatures are connected by dark blue bars.
 Area between normal maximum and minimum temperatures has tan shading.
 Red line connects record high temperatures. Light blue line connects record low temperatures.

The chart below shows November 2011 rainfall across South Central Texas.



November 2011 Summary

The month began with mild conditions, followed by cooler weather late in the day on the 2nd. Cooler conditions continued the 3rd and 4th, with a freeze affecting parts of the area on Friday the 4th. A warming trend followed the weekend of the 5th and 6th, ahead of a disturbance and cold front that brought scattered rains on the night of the 7th and morning of the 8th. A second and weaker disturbance came across the area on Wednesday November 9th, bringing cloudiness

and isolated showers in the afternoon. After this weak disturbance moved east, an additional wave of cooler air came across the region. This set up conditions for another freeze for parts of the area on Friday, November 11th. On the weekend of the 12th and 13th conditions warmed up quickly, ahead of a strong disturbance and low pressure system aloft, that developed over the Southwest U.S. and Northern Mexico. As this low pressure system moved from the Big Bend to Central Texas the night of the 14th to the day of the 15th, scattered showers and thunderstorms developed rapidly around and after midnight on November 15th. The thunderstorms brought rain, along with strong wind gusts. After this disturbance moved east, a warm day followed the 16th, followed by cooler conditions on Thursday the 17th.

After cool temperatures in the morning of November 18th, a quick warming trend followed late in the day, as a warm front moved north of South Central Texas in the late afternoon and evening. The highs at many locations came during the evening hours. The warming trend continued November 19th through the 21st, bringing mild nights to warm days, along with breezy south and southeast winds during the day. South and southeast winds the 21st gusted to between 30 and 40 mph in the day, in advance of a disturbance that brought another round of scattered rain and showers the night of the 21st to the morning of November 22nd. Sunny and pleasant days, followed by clear and cool nights, followed the 23rd and 24th. More clouds and warmer conditions returned Friday the 25th, ahead of another disturbance, that brought an area of rain, with showers and a few thunderstorms the night of the 25th to the morning of the 26th. A wave of colder and drier air came the night of the 26th, bringing a colder day on Sunday the 27th. This was followed by a widespread freeze the night of the 27th to the early morning of Monday the 28th. Sunny and mild days, with clear and cold nights, ended the month on the 29th and 30th.

January to November 2011 Rainfall Rankings

The rainfall rankings for the driest January to November periods are listed below.

January to November 2011 was the 3rd driest January to November multi-month period at Austin Mabry, with 14.75 inches of rain; the 2nd driest January to November at Austin Bergstrom with 12.01 inches of rain, the 9th driest January to November period at San Antonio with 14.74 inches of rain, and the 10th driest January to November period at Del Rio with 8.94 inches of rain.

The driest January to November multi-month periods at Austin Mabry from 1856 to 2011 are listed below.

- 1. January to November 1954 - 10.81**
- 2. January to November 1956 - 12.65**
- 3. January to November 2011 - 14.75**
- 4. January to November 1917 - 15.56**
- 5. January to November 2008 - 15.67**
- 6. January to November 1963 - 15.88**
- 7. January to November 1879 - 16.56**
- 8. January to November 1906 - 17.54**
- 9. January to November 1912 - 17.77**
- 10. January to November 1988 - 18.07**

The driest January to November multi-month periods at Austin Bergstrom from 1943 to 2011 are listed below.

- 1. January to November 1954 - 9.64**
- 2. January to November 2011 - 12.01**
- 3. January to November 1956 - 13.31**
- 4. January to November 1948 - 13.60**
- 5. January to November 1963 - 14.37**
- 6. January to November 2008 - 15.60**
- 7. January to November 1943 - 17.31**
- 8. January to November 1955 - 18.05**
- 9. January to November 1989 - 20.86**
- 10. January to November 1977 - 21.09**

The driest January to November multi-month periods at San Antonio from 1871 to 2011 are listed below.

- 1. January to November 1917 - 10.11**
- 2. January to November 1956 - 13.21**
- 3. January to November 1954 - 13.50**
- 4. January to November 2008 - 13.51**
- 5. January to November 1909 - 13.54**
- 6. January to November 1925 - 13.70**
- 7. January to November 1910 - 14.53**
- 8. January to November 1897 - 14.58**
- 9. January to November 2011 - 14.74**
- 10. January to November 1947 - 15.42**

The driest January to November multi-month periods at Del Rio from 1906 to 2011 are listed below.

- 1. January to November 1956 - 4.27**
- 2. January to November 1933 - 6.58**
- 3. January to November 1937 - 6.84**
- 4. January to November 1952 - 7.11**
- 5. January to November 1917 - 7.62**
- 6. January to November 1938 - 8.02**
- 7. January to November 2001 - 8.34**
- 8. January to November 1951 - 8.42**
- 9. January to November 1910 - 8.77**
- 10. January to November 2011 - 8.94**
January to November 1989 - 8.94

The rainfall in October and November this year follows one of the driest one year non overlapping periods at Austin, Del Rio, and San Antonio.

October 2010 to September 2011 was the driest 1 year non-overlapping period at Austin Mabry since 1856, and the 5th driest 1 year non-overlapping period at San Antonio since 1871. At Del Rio August 2010 to July 2011 was the 3rd driest 1 year non-overlapping period since 1906.

The driest 1 year non-overlapping periods at Austin, Del Rio, and San Antonio are listed below.

At Austin Mabry, the driest 1 year non-overlapping periods from 1856 to September 2011 follow. The latest 30 year 1981 to 2010 normal for one year at Austin Mabry is 34.24 inches.

- 1. Oct. 2010 to Sep. 2011 11.20**
- 2. Jan. 1954 to Dec. 1954 11.42**
- 3. Oct. 1924 to Sep. 1925 11.83**
- 4. Oct. 1955 to Sep. 1956 12.18**
- 5. May 1977 to Apr. 1978 14.44**
Nov. 1916 to Oct. 1917 14.44
- 6. Jun. 1970 to May 1971 15.06**
- 7. Sep. 2008 to Aug. 2009 15.38**
- 8. Sep. 1878 to Aug. 1879 15.52**
- 9. Oct. 1983 to Sep. 1984 16.86**
- 10. Jul. 1993 to Jun. 1994 17.01**

At Del Rio, the driest non-overlapping 1 year periods from 1906 to September 2011 follow. The latest 30 year 1981 to 2010 normal for One year at Del Rio is 19.52 inches.

- 1. Oct. 1955 to Sep. 1956 3.60**
- 2. Aug. 1952 to Jul. 1953 4.22**
- 3. Aug. 2010 to Jul. 2011 4.84**
- 4. May 1917 to Apr. 1918 5.78**
- 5. Nov. 1936 to Oct. 1937 5.87**
- 6. Apr. 2001 to Mar. 2002 6.30**
- 7. Oct. 1950 to Sep. 1951 6.32**
- 8. Mar. 1933 to Feb. 1934 6.60**
- 9. Sep. 1966 to Aug. 1967 6.88**
- 10. Oct. 1988 to Sep. 1989 7.78**

At San Antonio, the driest non-overlapping 1 year periods from 1871 to September 2011 follow. The latest 30 year 1981 to 2010 normal for one year at San Antonio is 32.27 inches.

- 1. Feb. 1917 to Jan. 1918 9.26**
- 2. Sep. 2008 to Aug. 2009 9.41**
- 3. Jul. 1924 to Jun. 1925 9.84**
- 4. Aug. 1955 to Jul. 1956 10.51**
- 5. Oct. 2010 to Sep. 2011 10.71**
- 6. Apr. 2005 to Mar. 2006 12.27**
- 7. Jun. 1970 to Aug. 1971 12.37**
- 8. Jul. 1938 to Jun. 1939 12.95**
- 9. Jun. 1897 to May 1898 13.21**
- 10. Oct. 1909 to Sep. 1910 and Sep. 1909 to Aug. 1910 13.26 ***
Nov. 1953 to Oct. 1954 13.26

***Note, The same period, Oct. 1909 to Sep. 1910 and Sep. 1909 to Aug. 1910 are listed because they tied with Nov. 1953 to Oct. 1954 for 13.26 inches of rain.**