

2

Table of Contents

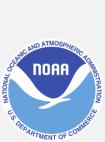
Page Number	Page Title
1	Cover
2	Table of Contents
3	By the Numbers
4	Precipitation Summary
5	Precipitation Graph
6	Precipitation Imagery
7	Temperature Summary
8	Temperature Charts
9 – 11	Daily Record Reports
12	Drought Monitor
13	ENSO
14 – 15	Winter Storm and Extreme Cold Review
16	March Outlook
17 – 19	Spring Outlook
20	Climate Primary Site History





By the Numbers: February 2021

	Location (records started)	Average Temp	Ranking	Total Rainfall	Ranking
	City of Houston, TX (1888)	51.7°F	20 th Coolest	1.66"	34 st Driest
	Houston Hobby, TX (1930)	53.7°F	19 th Coolest	1.90"	28 th Driest
	City of Galveston, TX (1871)	53.9°F	35 th Coolest	1.07"	28 th Driest
\	City of College Station, TX (1882)	48.2°F	12 th Coolest	1.85"	46 th Driest
1	Conroe, TX (1997)	49.3°F	3 rd Coolest	1.66"	11 th Driest
	Huntsville, TX (1997)	48.7°F	2 nd Coolest	2.02"	10 th Driest
	Sugar Land, TX (2000)	53.7°F	5 th Coolest	1.86"	11 th Driest
	Palacios, TX (1943)	52.8°F	11 th Coolest	0.40"	7 th Driest
	Clover Field (Pearland), TX (1997)	53.2°F	3 rd Coolest	0.83"	5 th Driest
	David Wayne Hooks (Tomball), TX (1998)	47.1°F	3 rd Coolest	1.64"	10 th Driest
MSTR	Angleton, TX (1998)	53.0°F	4 th Coolest	0.62"	5 th Driest
ATION	League City, TX (1990)	52.8°F	4 th Coolest	1.38"	8 th Driest

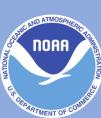




Precipitation

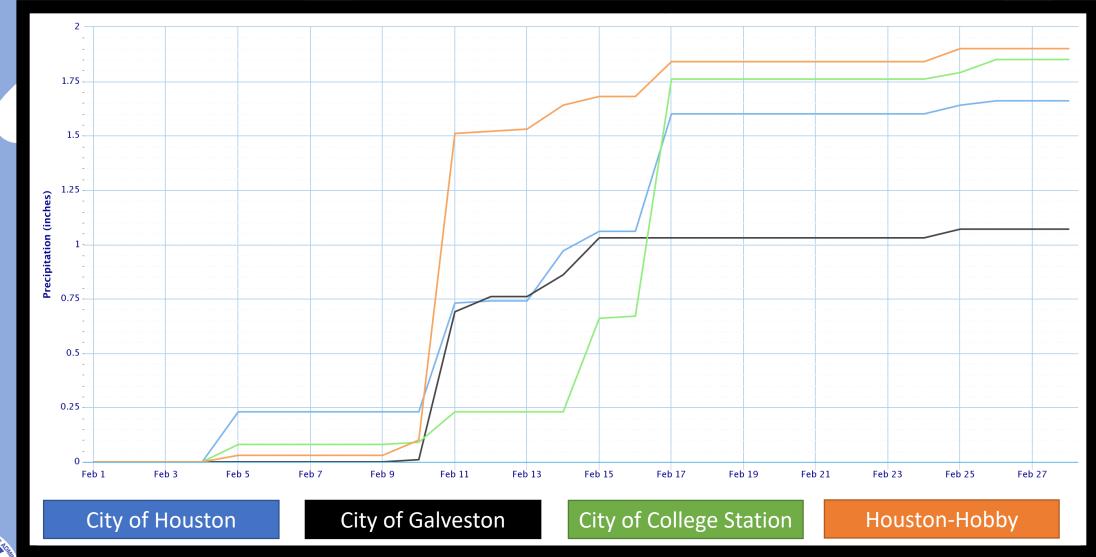
Location	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days		y Precipitation date)
Galveston (GLS)	1.07	-1.50	3	0.68	11 th
Houston Hobby (HOU)	1.90	-1.31	1	1.41	11 th
City of Houston (IAH)	1.66	-1.54	2	0.54	17 th
College Station (CLL)	1.85	-1.00	1	1.09	17 th

Unseasonably dry conditions continued into February with most of the region experiencing around one to two inches below normal. There were multiple days of wintry precipitation experienced in the middle of the month — College Station saw the highest amount of snow with a total of three inches, but experienced ice or snow for a total of five days. Accumulating snow was seen at Houston, Hobby, and Galveston on February 15th.



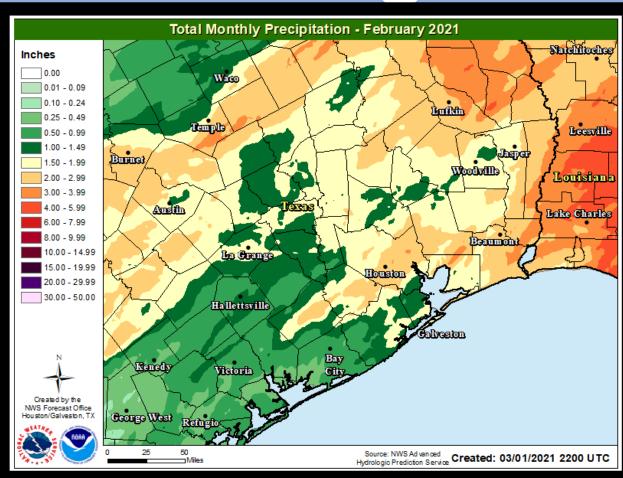


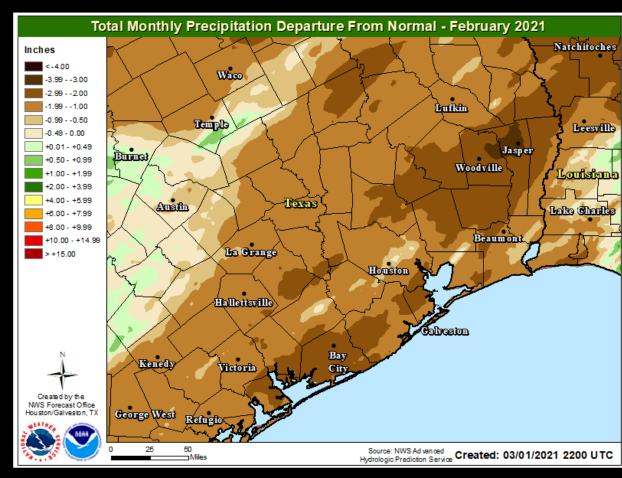
Precipitation Accumulation Graph





Precipitation Maps









Temperature

Location	Average High Temp (F)	Average Low Temp (F)	Average Temp (F)	Normal Average Temp (F)	Departure From Normal Average (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	60.1	47.7	53.9	57.6	-3.7	74 on the 10 th & 28 th	20 on the 16 th
Houston Hobby (HOU)	62.2	45.2	53.7	57.3	-3.6	82 on the 28 th	15 on the 16 th
City of Houston (IAH)	61.2	42.3	51.7	56.4	-4.7	82 on the 28 th	13 on the 16 th
College Station (CLL)	58.0	38.4	48.2	54.6	-6.4	83 on the 28 th	5 on the 16 th

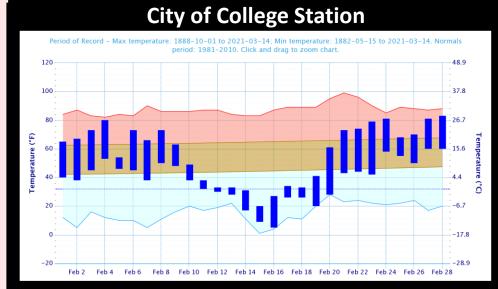
The arctic cold front ushered in a prolonged period of extremely cold air between the 14th and 20th with multiple record low minimum and maximum temperatures experienced across the area. While there was some warmer conditions at the end of the month, most of the area ended the month between three and six degrees below normal.



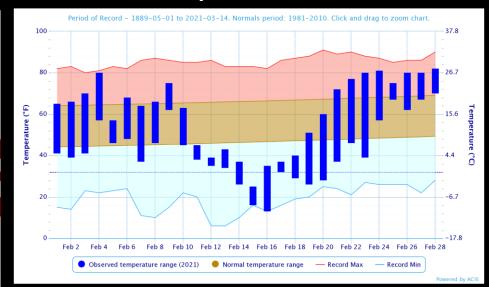


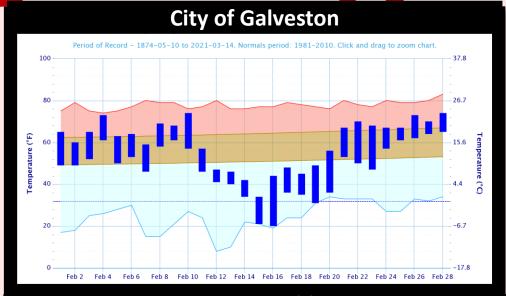


Temperature Charts

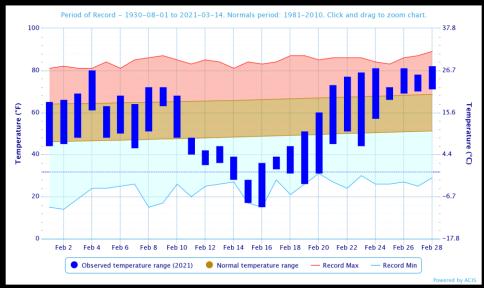


City of Houston





Houston-Hobby







Daily Record Reports

Site	Date	Record Type	New Record	Previous Record
City of Galveston	February 15 th	Low Minimum Temp	21°	24° in 1909
City of Galveston	February 19 th	Low Minimum Temp	31°	32° in 1978
Houston-Hobby	February 13 th	Low Maximum Temp	44°	45° in 2004
Houston-Hobby	February 14 th	Daily Snowfall	Trace	No Snowfall on Record
Houston-Hobby	February 15 th	Low Maximum Temp	28°	35° in 1951
Houston-Hobby	February 15 th	Low Minimum Temp	17°	31° in 1951
Houston-Hobby	February 15 th	Daily Snowfall	0.5"	No Snowfall on Record
Houston-Hobby	February 16 th	Low Maximum Temp	36°	50° in 2007
Houston-Hobby	February 16 th	Low Minimum Temp	15°	28° in 1951
Houston-Hobby	February 19 th	Low Minimum Temp	26° - T	26° in 1978

There were 30 daily records set during the month of February.



Key

Precip

Snow

High Min



Daily Record Reports

Site	Date	Record Type	New Record	Previous Record
Houston-Hobby	February 20 th	Low Minimum Temp	31°	32° in 1978
Houston-Hobby	February 26 th	High Minimum Temp	69° - T	69° in 1944
Houston-Hobby	February 27 th	High Minimum Temp	70°	69° in 2017
Houston-Hobby	February 28 th	High Minimum Temp	71°	45° in 2017
City of Houston	February 15 th	Low Maximum Temp	25°	32° on 1909
City of Houston	February 15 th	Low Minimum Temp	16°	18° in 1905
City of Houston	February 15 th	Daily Snowfall	1.0"	No Snowfall on Record
City of Houston	February 16 th	Low Maximum Temp	35°	36° in 1895
City of Houston	February 16 th	Low Minimum Temp	13° - T	13° in 1895
City of College Station	February 12 th	Low Maximum Temp	33°	34° in 1895

There were
30 daily
records set
during the
month of
February.



High Max

Key

Precip

Snow

High Min

Low Min



Daily Record Reports

Site	Date	Record Type	New Record	Previous Record
City of College Station	February 14 th	Low Maximum Temp	31° - T	31° in 1895
City of College Station	February 14 th	Daily Snowfall	Trace	No Snowfall on Record
City of College Station	February 15 th	Daily Snowfall	3.0	No Snowfall on Record
City of College Station	February 16 th	Low Maximum Temp	71°	45° in 2017
City of College Station	February 16 th	Daily Snowfall	Trace	No Snowfall on Record
City of College Station	February 17 th	Daily Snowfall	Trace	No Snowfall on Record
City of College Station	February 18 th	Low Maximum Temp	25°	32° on 1909
City of College Station	February 18 th	Daily Snowfall	Trace	No Snowfall on Record
City of College Station	February 19 th	Low Minimum Temp	20°	22° in 1978
City of College Station	February 20 th	Low Minimum Temp	28° - T	28° in 1929

There were 30 daily records set during the month of February.

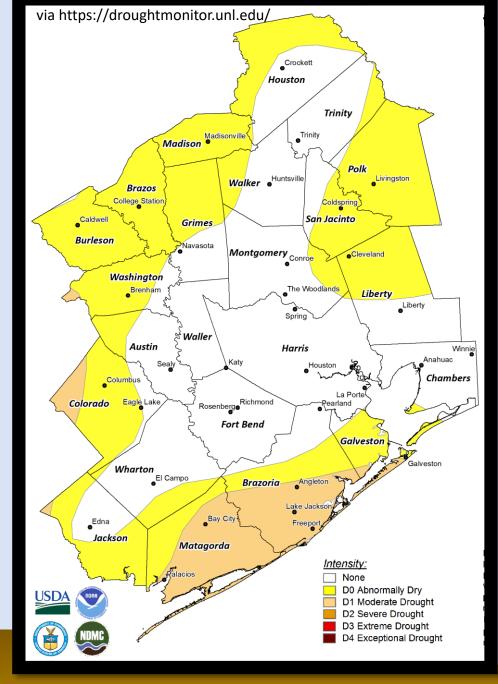


Key



Drought Monitor As of February 23rd

The continued dryer than normal conditions expanded the drought across the coastal, western, and northern portions of the region during the month of February. By the end of February, there was D1-Moderate Drought conditions experienced across western Washington, Colorado, and Jackson counties and down along coastal Galveston, Brazoria, and Matagorda counties. Drought conditions are expected to continue and expand during the month of March.







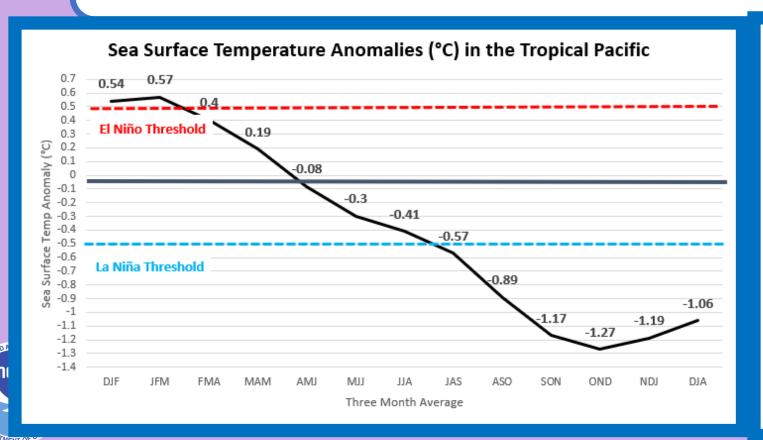


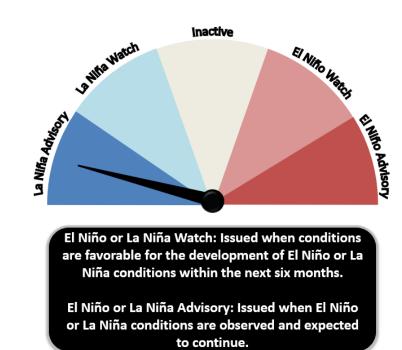
Current ENSO Phase: La Niña

The Climate Prediction Center's ENSO Forecast:

La Niña Advisory

- La Niña conditions are present
- 60% chance of ENSO-Neutral conditions forming in the Spring





Winter Outbreak

The Winter Outbreak that occurred on Valentine's Week 2021 brought not only snow, sleet, and freezing rain to Southeast Texas, but also extreme cold temperatures that lasted for several days. This was one of the most impactful winter events in recent history that brought multiday road closures, power outages, loss of heat, broken pipes, and other societal impacts for the region. While the damage is still being assessed, this will likely go down as the first billion dollar disaster of 2021 globally, and potentially the most costly weather disaster for the state of Texas in history, surpassing even Hurricane Harvey from 2017.

Visit

www.weather.gov/hgx/2021ValentineStorm for more information.



Frigid Temperatures

15

College Station

Coldest Temperature:

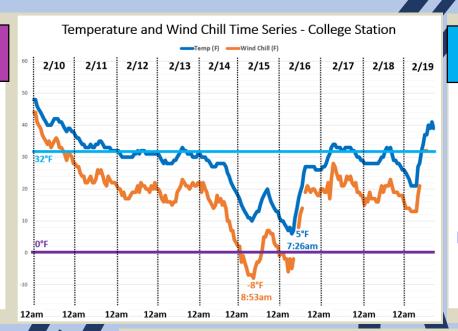
5°F at 7:26am on the 16th

Coldest Wind Chill:

-8°F at 8:53am on the 15th

Longest Stretch of Freezing Temperatures:

86 consecutive hours from 3:53pm on 2/13 to 5:53am on 2/17



Houston

Coldest Temperature:

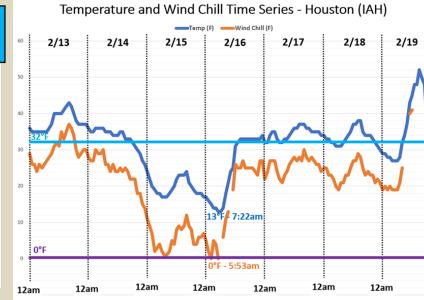
13°F at 7:22am on the 16th

Coldest Wind Chill:

0°F at 5:53am on the 16th

Longest Stretch of Freezing Temperatures:

44 consecutive hours from 6:53pm on 2/14 to 1:53pm on 2/16



Galveston

Coldest Temperature:

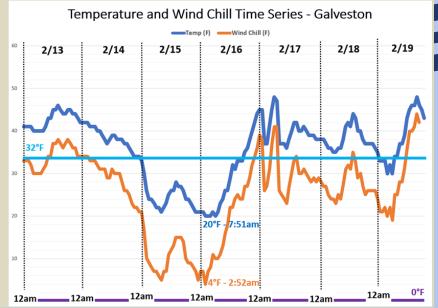
20°F at 7:51am on the 16th

Coldest Wind Chill:

4°F at 2:52am on the 16th

Longest Stretch of Freezing Temperatures:

37 consecutive hours from 1:52am on 2/15 to 2:52pm on 2/16

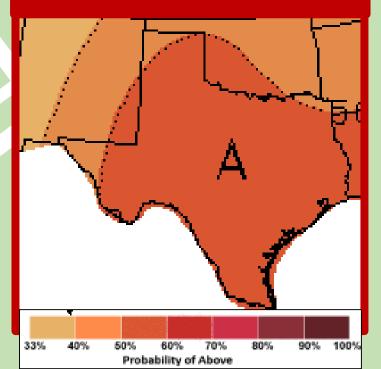




March Outlook

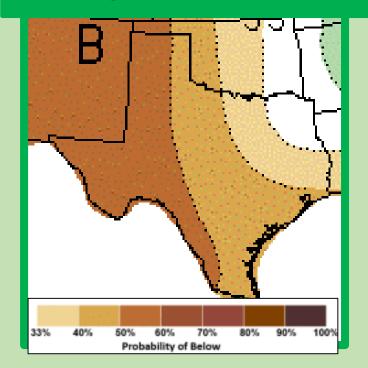
Location	Average Temp(°F)	Normal High (°F)	Normal Low (°F)
Galveston	63.4	70.2	56.6
Houston Hobby	63.3	72.4	54.3
City of Houston	62.7	73.0	52.5
College Station	61.4	71.7	51.0





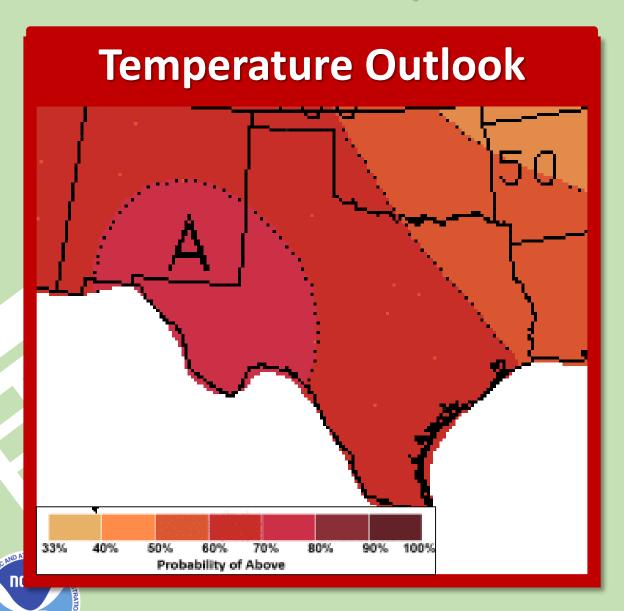
Location	Normal Monthly Precipitation (in.)
Galveston	3.16
Houston Hobby	3.20
City of Houston	3.41
College Station	3.17

Precipitation Outlook

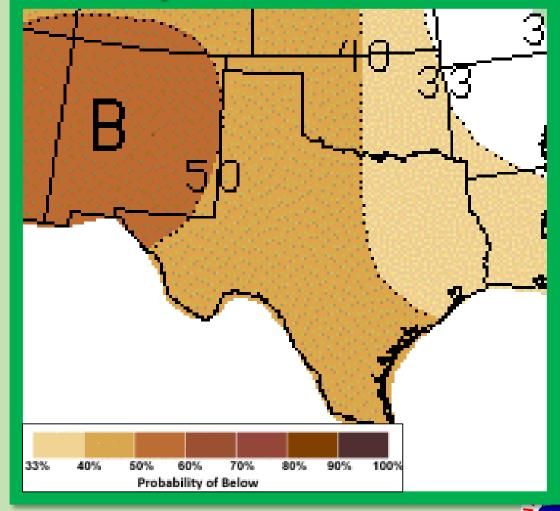




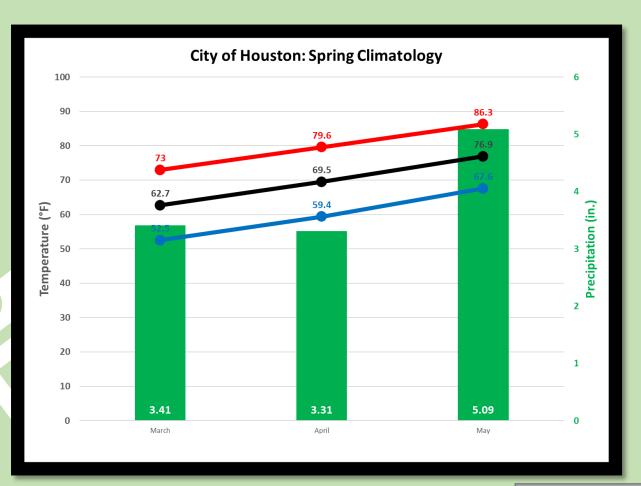
Spring Outlook (March – May)

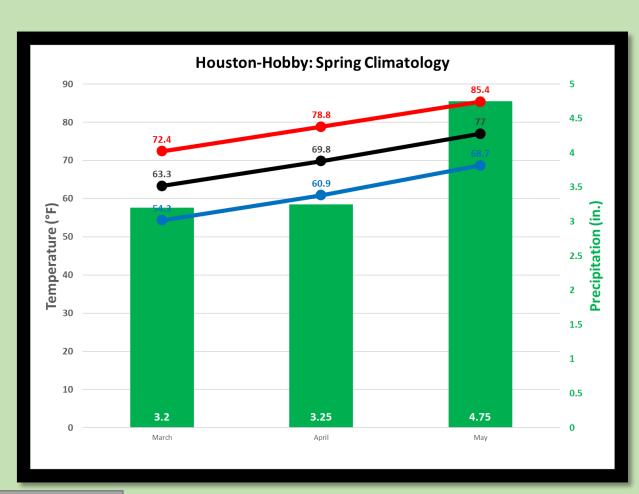






Spring Climatology (March - May)









Green Bar: Average Precipitation

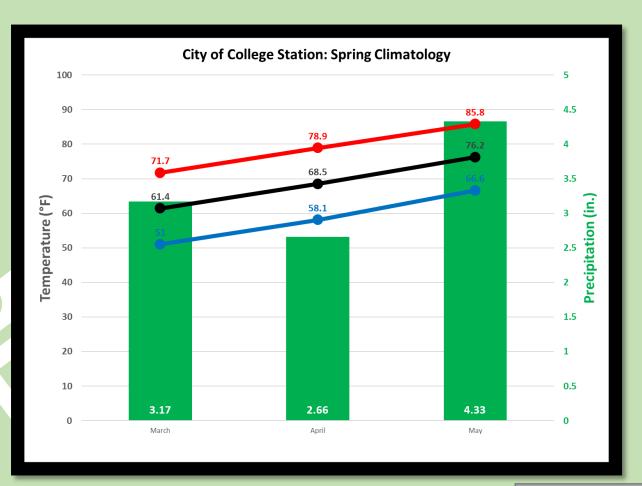
Red Line: Average Max Temperature

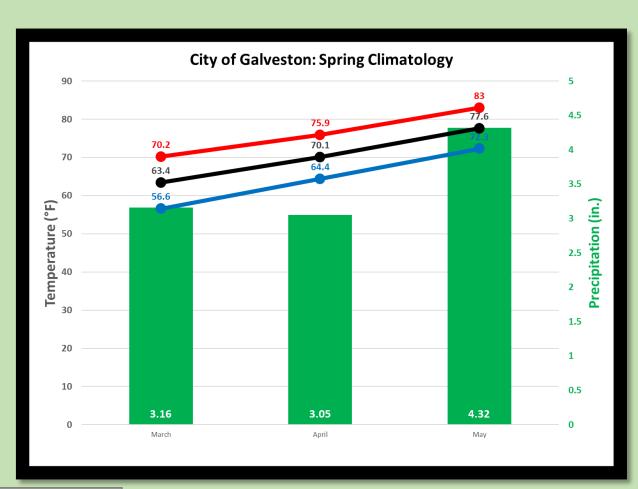
Black Line: Average Temperature

Blue Line: Average Min Temperature



Spring Climatology (March - May)









Green Bar: Average Precipitation

Red Line: Average Max Temperature

Black Line: Average Temperature

Blue Line: Average Min Temperature



Climate Primary Site History

Galveston (GLS)

College Station (CLL)

Records for Galveston are from observations at the following locations: 67-69 Strand (April 1, 1871 - Aug 31, 1874); 23rd and the Strand (Sep 1, 1874 - July 29, 1878), 1.75 miles WSW of the previous location; the Custom House at Bath Street and the Strand (July 30, 1878 - May 8, 1882); Colorado and Santa Fe Railroad Building at 25th and the Strand (May 9, 1882 - March 14, 1883); back to the Custom House which later became the Cotton Exchange Building (March 15, 1883 - June 24, 1898), about a 1/3 of a mile E of the previous Custom House location; The Levy Building at 2223 Market Street (June 25, 1898 - Nov 26, 1900); the Trust Building at Tremont and Post Office Streets (Nov 27, 1900 - June 24, 1946), one-quarter mile south of the Levy Building; the U.S. Post Office Building at 601 Rosenberg (June 25, 1946 - 1994); Scholes Field (January 1995 to present).

Records from 1893 through July 1951 are based on observations taken at the Texas Agriculture Experiment COOP Station main farm located 6 miles southwest of College Station. Records from August 1951 through the present are based on observations taken at Easterwood Field. Normal temperatures are calculated from 1981 to 2000 period.

City of Houston (IAH)

Houston Hobby (HOU)

Records for the City of Houston are from observations at the following locations: Cotton Station from July 1881 through September 1909, Stewart Building at Preston and Fannin from September 1909 through February 1926, Shell Building at Texas and Fannin from March 1926 through August 1938, Federal Building at Franklin and Fannin from August 1938 through May 1969, Intercontinental Airport from June 1969 to the present.

Records are based upon observations beginning in August 1931.



