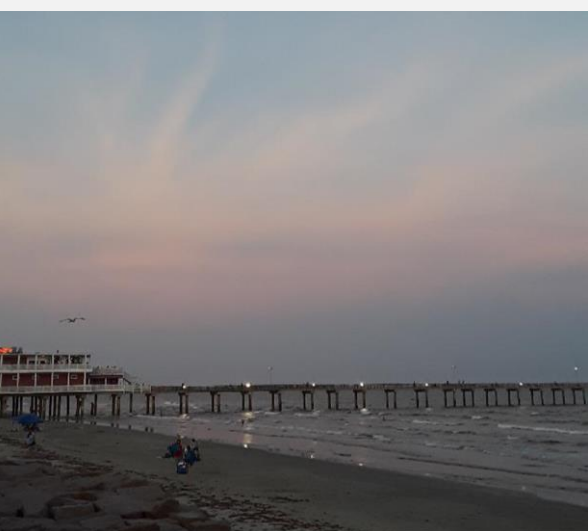
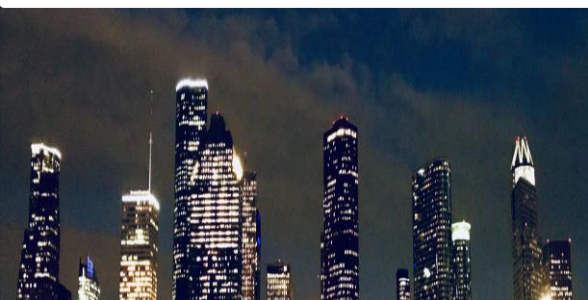


# NWS Houston, Texas

## 2018 Annual SE TX Regional Climate Summary

### *Year in Review*

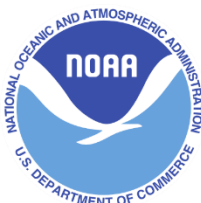
**Produced by Nikki Hathaway, Josh Lichter, and Charles Roeseler**



# Cover Page Photo Credit

*The photographs used on the cover of this Annual SE TX Regional Climate Summary, were all taken within the HGX County Warning area during each month of the year. The top left picture on row one starts January and then from left to right we move through the calendar year with the last photograph on the bottom right representing December. NWS Houston Galveston was given permission by the following photographers to use these pictures.*

Month	Photographer
January	Nikki Hathaway
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May	Nikki Hathaway
June	Nikki Hathaway
July	Wendy Wong
August	Katie French
September	Wendy Wong
October	Nikki Hathaway
November	Billy Forney
December	Wendy Wong



# Overview: 2018 – Year In Review

When taking a look back through the past year, a few climate related items stand out making 2018 another interesting year for both weather and climate. The city of Galveston (6<sup>th</sup>) and Houston Hobby (9<sup>th</sup> tying with other years) both ranked in the top ten for warmest annual average temperatures. In terms of annual rainfall, both the city of Galveston (14<sup>th</sup>) and city of College Station (15<sup>th</sup>) ranked in the top fifteen.

To start the year, January had two rounds of wintry precipitation, one on January 2<sup>nd</sup>, when very light sleet was reported in the Houston Heights area, as well as light snow flurries across the southern portion of Montgomery County and northern Harris County. Later that month, a Winter Weather Advisory was issued for coastal counties, while a Winter Storm Warning was in effect across the remainder of SE TX on January 16<sup>th</sup>. Various types of frozen precipitation occurred including freezing rain, sleet, and snow from January 15<sup>th</sup> into the 16<sup>th</sup>. Reports of accumulation occurred in Walker County and northwest Harris County. Treacherous driving conditions commenced as bridges and roadways iced over, allowing black ice to form. High temperatures finally reached back into the 70s on January 20<sup>th</sup>. There were 28 consecutive days where the maximum temperature was at or below 70 degrees at Houston Hobby, which ranked 5<sup>th</sup> in terms of the longest run length while the city of Houston, had a 28 day run length which tied for the 12<sup>th</sup> longest set of consecutive days with maximum temperatures at or below 70 degrees.

March recorded it's wettest calendar year day on record for the city of College Station, on March 28<sup>th</sup> with a daily rainfall total of 4.52". The previous wettest day during March was 4.20" set on March 27<sup>th</sup> in 1980. Average monthly temperatures for May ranked in the top five for three of the primary climate sites: city of Galveston (1<sup>st</sup>), city of Houston (3<sup>th</sup>), and city of College Station (5<sup>th</sup>). Spring was near normal in terms of temperatures, but the months of May, June and July were unseasonably warm. When considering the warmest average temperatures beginning on May 1<sup>st</sup> through July 31<sup>st</sup>, the city of Houston (83.5°), Houston Hobby (82.9°) and the city of Galveston (83.1°) all ranked 4<sup>th</sup> warmest on record, while the city of College Station came in 9<sup>th</sup> warmest (83.1°).

When taking a look at the year-to-date average temperatures from January 1<sup>st</sup> through August 31<sup>st</sup>, the city of Houston ranked 8<sup>th</sup> warmest (72.8°), city of Galveston ranked 4<sup>th</sup> warmest (74.0°), Houston Hobby ranked 10<sup>th</sup> warmest (72.9°) and finally the city of College Station ranked 13<sup>th</sup> warmest (71.5°). When considering August average temperatures, Houston Hobby came in 5<sup>th</sup> warmest (85.9°) and the city of Galveston ranked 7<sup>th</sup> warmest (85.8°).

Snowfall records were recorded at the city of Houston (IAH), Houston Hobby (HOU), and the city of College Station (CLL) on November 13<sup>th</sup> as a wintry mix fell at isolated locations. Finally, the year ended rather wet, with the 4<sup>th</sup> wettest December recorded at the city of College Station and the 8<sup>th</sup> wettest December on record for the city of Houston. Additionally, the city of College Station had it's 4<sup>th</sup> and 11<sup>th</sup> wettest calendar days ever recorded in December, while the city of Houston had it's 5<sup>th</sup> wettest calendar day. The wet trend continued into the new year as well. When considering the period from December 4<sup>th</sup>, 2018 through January 4<sup>th</sup>, 2019, the city of College Station had its wettest on record and the city of Houston the 4<sup>th</sup> wettest on record.

The year also ended in an El Niño watch. ENSO-neutral conditions were present, but according to the Climate Prediction Center (CPC), El Niño conditions are expected to form and continue through the northern Hemisphere winter 2018-2019 (~90% chance) and through spring (~60% chance). The latest outlook from CPC for the next three months (including January, February, and March) calls for a 33.3% chance of above normal temperatures, a 33.3% chance of near normal temperatures and a 33.3% chance of below normal temperatures across Southeast Texas. The "EC" labeled on the temperature outlook stands for "equal chances." The precipitation outlook calls for a 40% chance of above normal rainfalls, a 33.3% chance of near normal rainfall and a 26.7% chance of below normal rainfall.

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# Site References

## Site Identifier

## City

IAH	City of Houston
GLS	City of Galveston
CLL	College Station
HOU	Houston Hobby
UTS	Huntsville
CXO	Conroe
DWH	Tomball
SGR	Sugar Land
LVJ	Pearland
HGX	National Weather Service Houston
LBX	Angleton
PSX	Palacios

# Climate Definitions

**Low Min:** The lowest minimum temperature recorded within a day.

**High Min:** The warmest minimum temperature recorded within a day.

**Low Max:** The coldest maximum temperature recorded within a day.

**High Max:** The warmest maximum temperature recorded within a day.

**Daily Rainfall:** The highest rainfall value measured within a day.

Note: Climate data is PRELIMINARY (unofficial). CERTIFIED (official) climate data is available from the [National Centers for Environmental Information \(NCEI\)](https://www.noaa.gov/ncei).



# Significant Annual Statistics

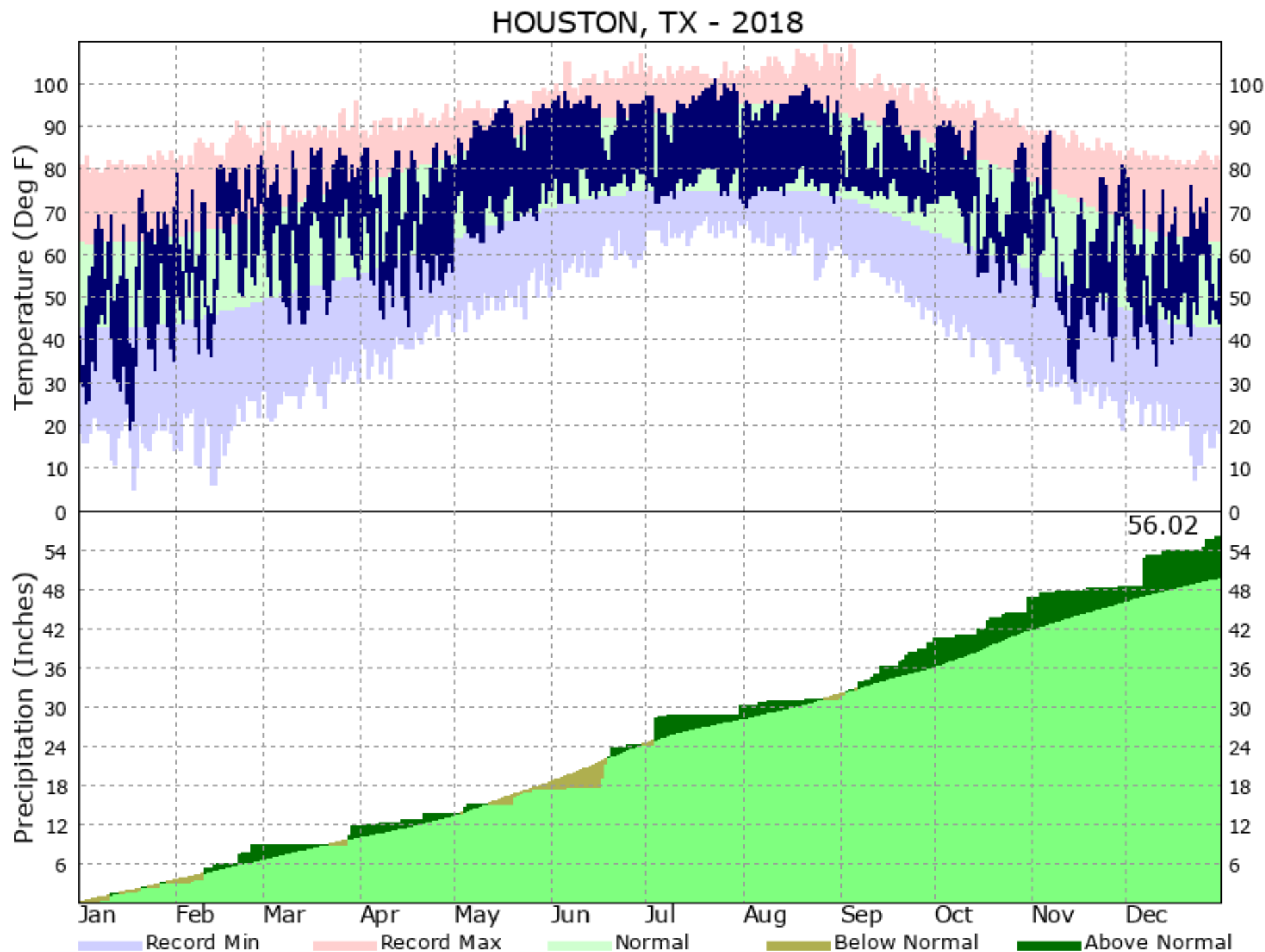
*The city of Galveston (6<sup>th</sup>) and Houston Hobby (9<sup>th</sup> tying with other years) both ranked in the top ten for warmest annual average temperatures. In terms of annual rainfall, both the city of Galveston (14<sup>th</sup>) and city of College Station (15<sup>th</sup>) ranked in the top fifteen.*

Warmest Annual Average Temperatures			Warmest Annual Average Temperatures		
City of Galveston			Houston Hobby		
1	74.4°	2017	1	73.3°	2017
2	74.0°	2012	2	72.9°	2016
3	73.2°	2016	3	72.6°	2012
4	72.7°	2006	4	72.4°	1998& 2011
5	72.5°	2011	5	71.6°	1999
6	72.4°	2018	6	71.5°	2006
			7	71.4°	2005
			8	71.3°	2008 & 2015
			9	71.1°	2000, 2009, & 2018
Maximum One Year Total Precipitation			Maximum One Year Total Precipitation		
City of Galveston			City of College Station		
1	78.39"	1900	1	61.04"	1968
2	70.59"	1941	2	59.81"	1973
3	67.21"	1946	3	58.31"	2015
4	66.88"	1877	4	57.62"	1991
5	65.88"	1888	5	57.44"	1994
14	61.20"	1961	15	50.00"	2018



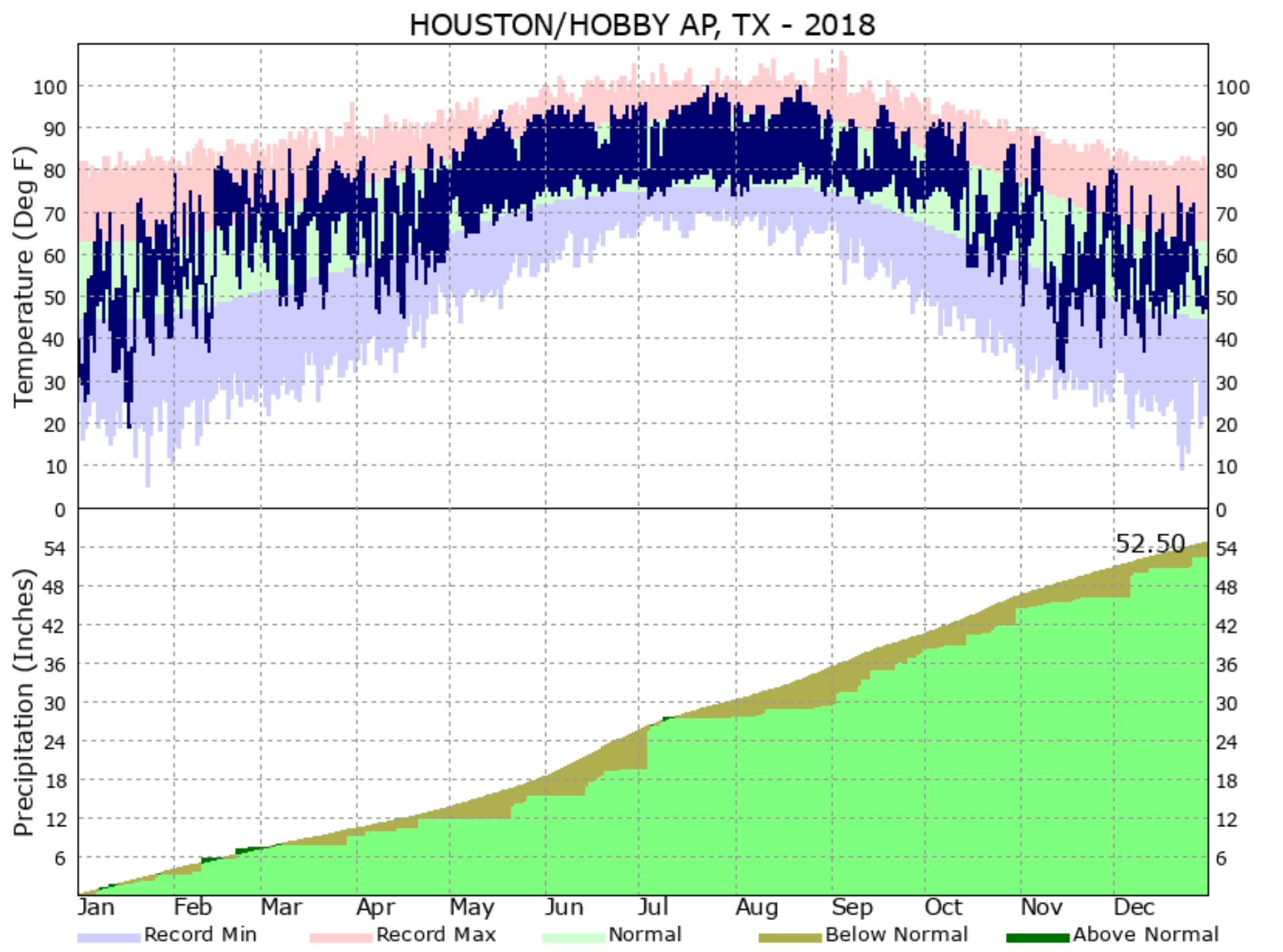
# Annual Statistics: City of Houston

*The graph below represents the year of 2018 temperature and precipitation data for the City of Houston.*



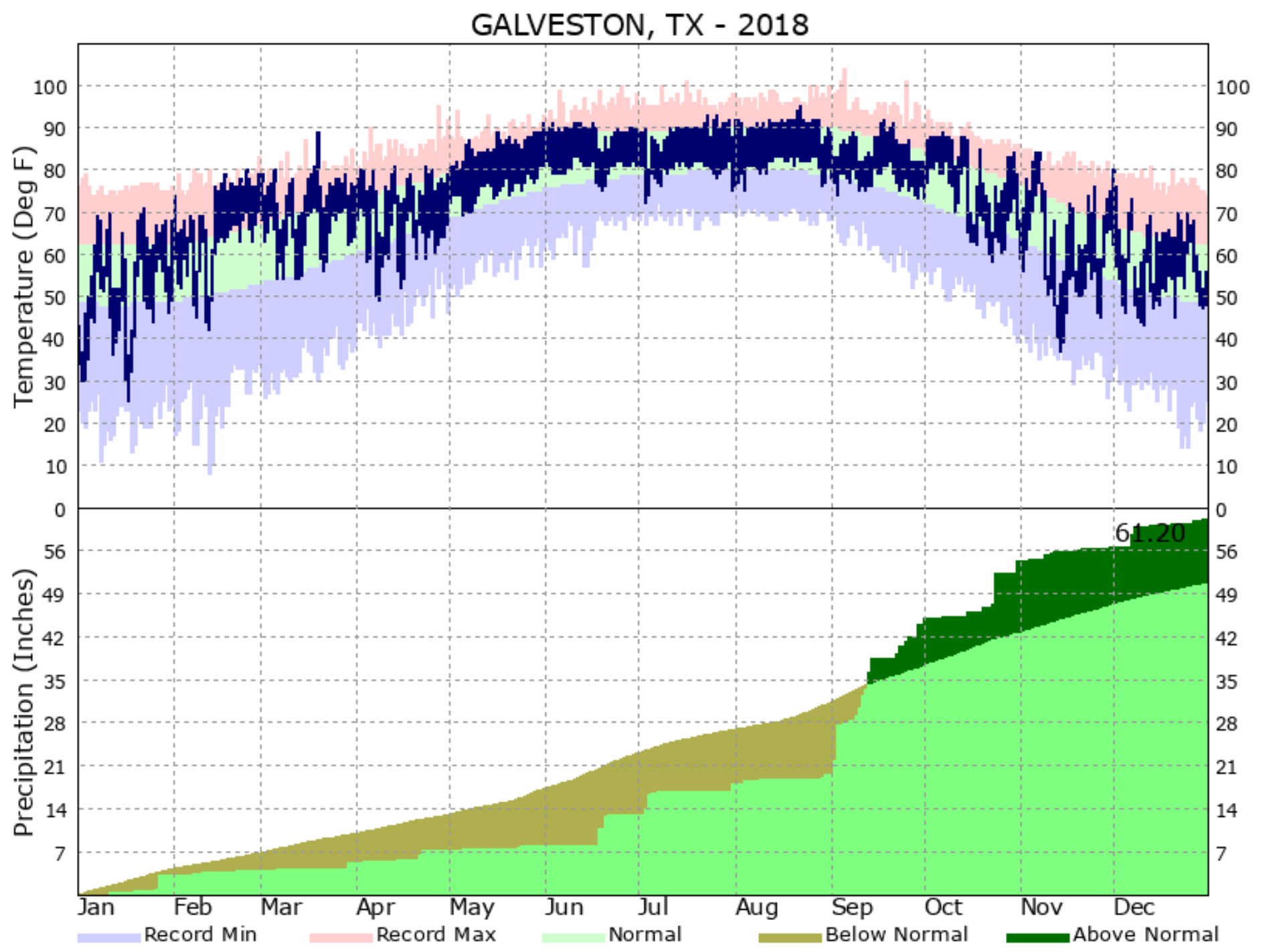
# Annual Statistics: Houston Hobby

*The graph below represents the year of 2018 temperature and precipitation data for the Houston Hobby.*



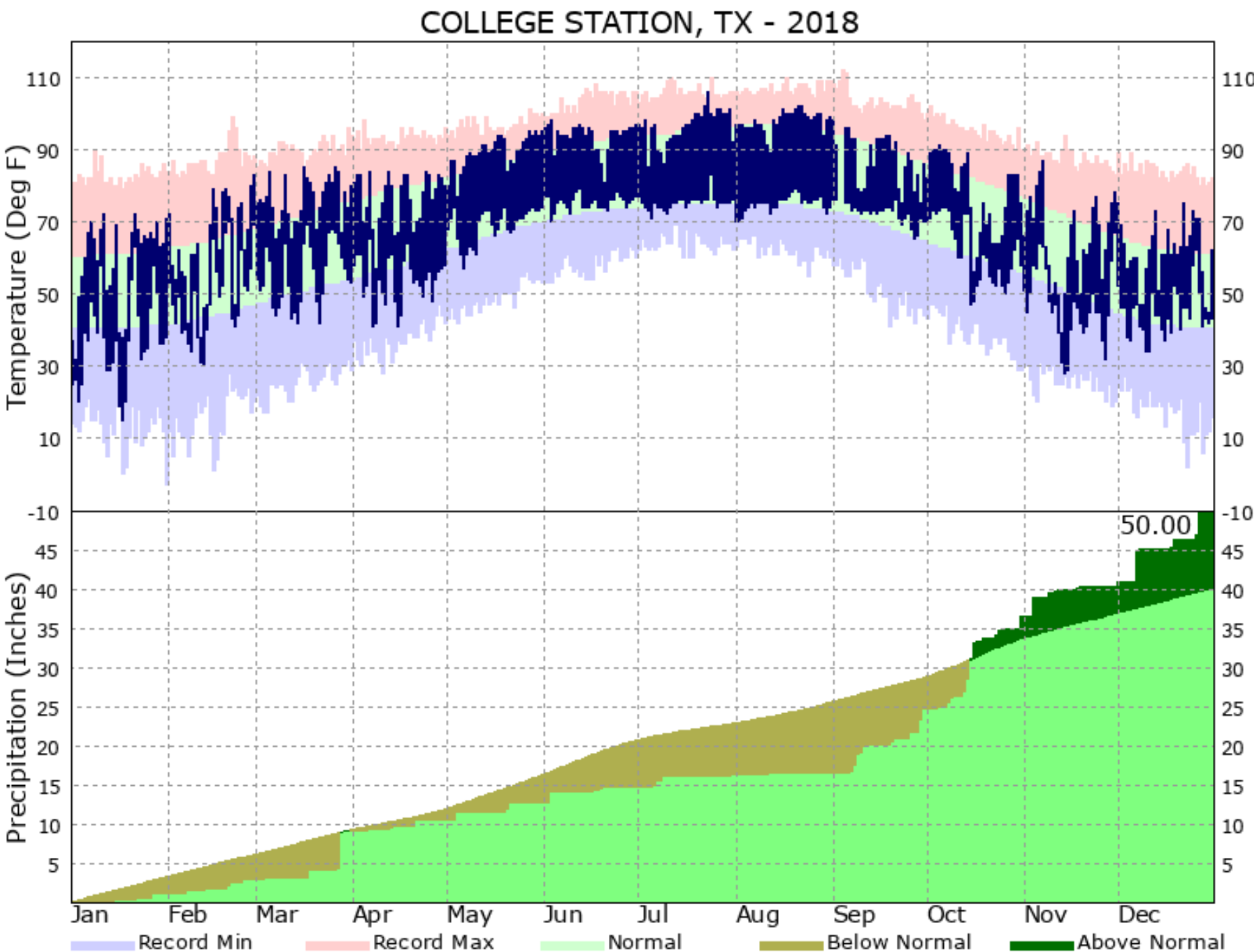
# Annual Statistics: City of Galveston

*The graph below represents the year of 2018 temperature and precipitation data for the City of Galveston.*



# Annual Statistics: City of College Station

*The graph below represents the year of 2018 temperature and precipitation data for the City of College Station.*



# January

. . . Abnormally Chilly January . . .

*Another month filled with below normal temperatures and wintry precipitation. There were 28 consecutive days where the maximum temperature was at or below 70 degrees at Houston Hobby and the city of Houston. This 28 day run length is tied for the 12th longest set of consecutive days with maximum temperatures at or below 70 degrees at the city of Houston, and ranks 5th for Houston Hobby. For the city of Houston, there were also two rounds of wintry precipitation on the 2<sup>nd</sup>, and two weeks later beginning on the 15<sup>th</sup> and continuing into the 16<sup>th</sup>. Temperatures were not the only ones below normal either. Total monthly precipitation was also below normal, with a deficit of 0.5 to 2.5 inches at the primary climate sites. Overall, this lack of rainfall across the region throughout the month was the primary contender behind the expansion of drought conditions across portions of Southeast Texas.*

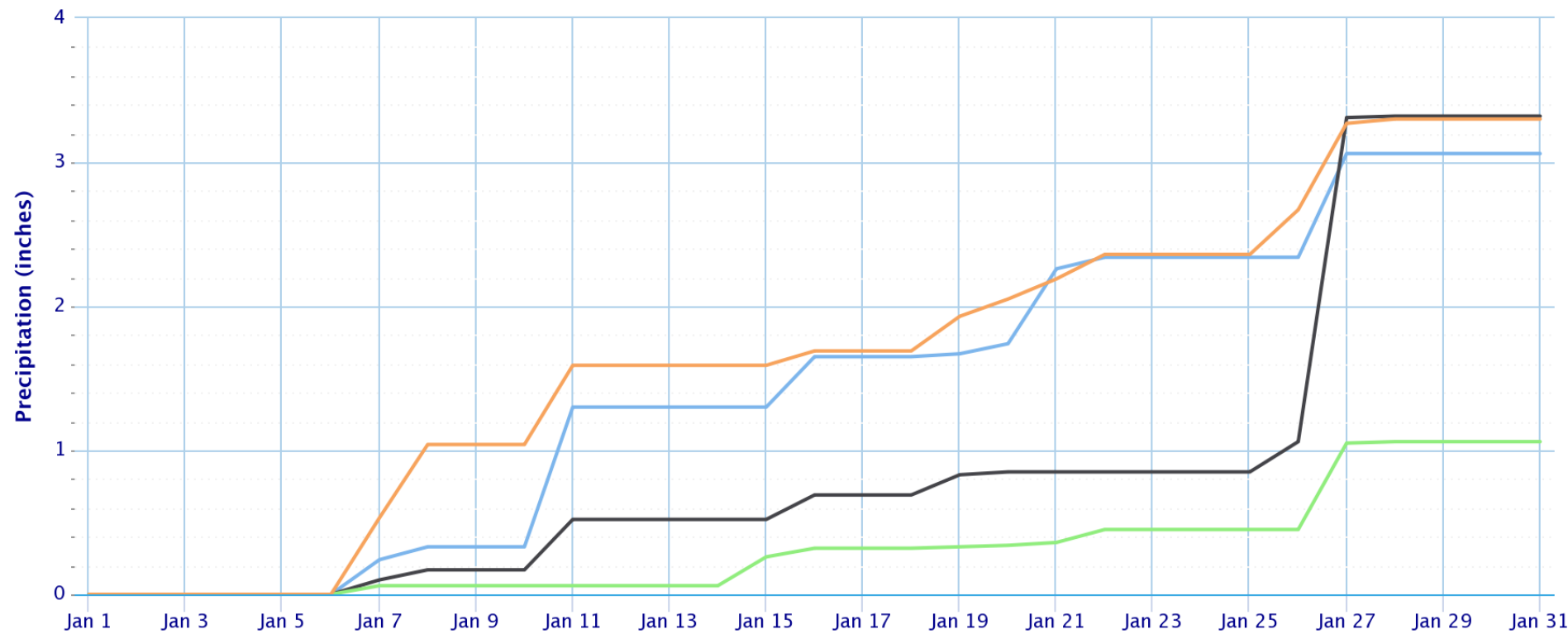
Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	51.9	58.9	44.8	55.2	-3.3	71 on Jan. 22	25 on Jan. 17
Houston Hobby (HOU)	49.2	58.8	39.5	54.2	-5.0	73 on Jan. 21	19 on Jan. 17
City of Houston (IAH)	48.7	59.7	37.6	53.2	-4.5	75 on Jan. 21	19 on Jan. 17
College Station (CLL)	48.1	59.4	36.8	51.1	-3.0	72 on Jan. 21 & Jan. 11	15 on Jan. 17

# January

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunderstorm Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	3.32	-0.88	4	2.25	Dec. 27
Houston Hobby (HOU)	3.30	-0.57	5	0.60	Dec. 27
City of Houston (IAH)	3.06	-0.32	3	0.97	Dec. 11
College Station (CLL)	1.06	-2.18	1	0.60	Dec. 27

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

— Houston Area, TX (ThreadEx):Precip

— Galveston Area, TX (ThreadEx):Precip

— College Station Area, TX (ThreadEx):Precip

— HOUSTON WILLIAM P HOBBY AP, TX:Precip



# January: Two Rounds of Wintry Precipitation

*On the 2<sup>nd</sup>, a Hard Freeze Warning was in effect for the entire region of SE TX as temperatures were forecast to fall below 25 degrees for two hours or longer. Very light sleet was reported in the Houston Heights area, as well as light snow flurries across the southern portion of Montgomery County and northern Harris County.*

*Later that month, a Winter Weather Advisory was issued for coastal counties, while a Winter Storm Warning was in effect across the remainder of SE TX on the 16<sup>th</sup>. A Wind Chill Advisory was also in effect across all of SE TX. Various types of frozen precipitation occurred including freezing rain, sleet, and snow from the 15<sup>th</sup> into the 16<sup>th</sup>. Reports of accumulation occurred in Walker County and northwest Harris County. Treacherous driving conditions commenced as bridges and roadways iced over, allowing black ice to form.*

Site	Date	Total Snowfall
City of Houston	Jan. 2 <sup>nd</sup>	T
City of Galveston	Jan. 2 <sup>nd</sup>	T
Houston Hobby	Jan. 2 <sup>nd</sup>	T
Houston Hobby	Jan. 15 <sup>th</sup>	T
City of Houston	Jan. 15 <sup>th</sup>	T
City of Houston	Jan. 16 <sup>th</sup>	0.1
City of Galveston	Jan. 16 <sup>th</sup>	T
Houston Hobby	Jan. 16 <sup>th</sup>	T
City of College Station	Jan. 16 <sup>th</sup>	T



# January Temperatures: Consecutive Days Max Temperature at or Below 70 Degrees

High temperatures finally reached back into the 70s on the 20th. There were been 28 consecutive days where the maximum temperature was at or below 70 degrees at Houston Hobby, also ranking 5<sup>th</sup> in terms of the longest run length with these conditions. For the city of Houston, this 28 day run length is tied for the 12<sup>th</sup> longest set of consecutive days with maximum temperatures at or below 70 degrees, tying with the years of 2010, 1960, 1924, and 1893.

## Houston Hobby

Rank	Run Length	Ending Date
1	48	1978-02-24
2	41	1991-02-09
3	33	1976-12-29
-	33	1931-01-06
5	28	2018-01-19
-	28	2010-02-20
-	28	1960-03-08
8	27	1987-01-05
-	27	1977-01-26
-	27	1961-01-15
-	27	1944-01-20
12	25	2010-01-18
-	25	2001-01-05
-	25	1984-01-05
-	25	1970-01-23

## City of Houston

Rank	Run Length	Ending Date
1	49	1926-02-01
2	48	1966-03-01
3	47	1978-02-23
4	41	1961-01-16
5	34	1991-02-02
-	34	1968-01-24
7	33	1976-12-29
-	33	1914-01-07
9	32	1905-02-23
10	30	1992-01-21
11	29	1944-01-20
12	28	2018-01-19
-	28	2010-02-20
-	28	1960-03-08
-	28	1924-01-28
-	28	1893-01-10



# February

## . . . Warm and Soggy February . . .

*The month of February brought well above normal temperatures along with above normal rainfall totals across much of Southeast Texas. The coastal counties really felt the heat, with twenty-four of the twenty-eight days of February experiencing above normal temperatures for the city of Galveston. Based on the monthly average temperatures, this was the 7<sup>th</sup> warmest February for the city of Houston, the 3<sup>rd</sup> warmest February for Houston Hobby Airport, and the 2<sup>nd</sup> warmest February for the city of Galveston! The month of February was also fairly wet. The city of Houston recorded the most in terms of monthly rainfall out of the four primary climate sites, ringing in with a total of 5.73 inches. Therefore, this was the 12<sup>th</sup> wettest February on record for the city of Houston. The coastal counties did not see as much rainfall, resulting in a below normal monthly rainfall total for the city of Galveston.*

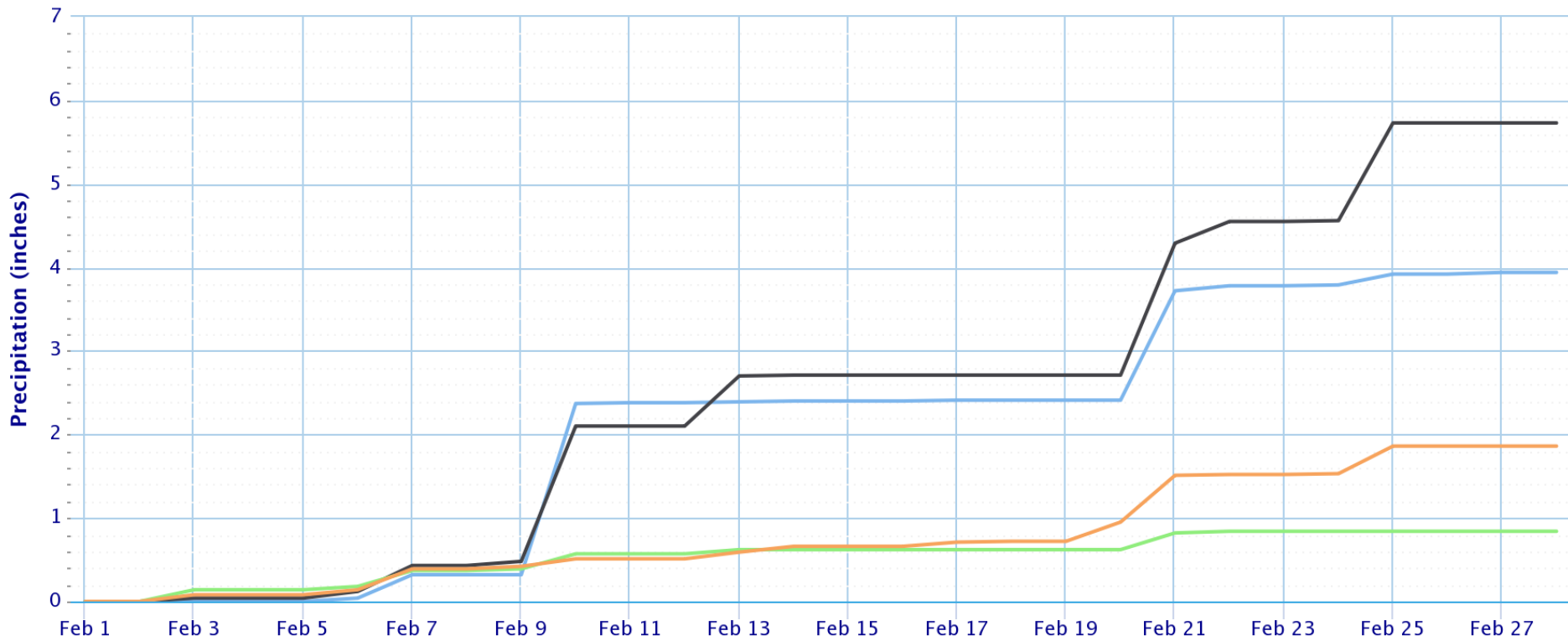
Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	65.5	71.4	59.6	57.6	+7.9	80 on Feb. 24th	42 on Feb. 12th
Houston Hobby (HOU)	63.6	71.7	55.5	57.3	+6.3	83 on Feb. 16th	37 on Feb. 12th
City of Houston (IAH)	62.5	70.8	54.2	56.4	+6.1	83 on Feb. 28th	36 on Feb. 12th
College Station (CLL)	56.2	64.1	48.4	54.6	+1.6	83 on Feb. 28th	30 on Feb. 12th

# February

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunderstorm Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	0.84	-1.73	3	0.20	Feb. 21st
Houston Hobby (HOU)	3.94	+0.73	4	2.05	Feb. 10th
City of Houston (IAH)	5.73	+2.53	6	1.62	Feb. 10th
College Station (CLL)	1.86	-0.99	5	0.56	Feb. 21st

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

[HOUSTON WILLIAM P HOBBY AP, TX:Precip](#)  
[College Station Area, TX \(ThreadEx\):Precip](#)

[Houston Area, TX \(ThreadEx\):Precip](#)

[Galveston Area, TX \(ThreadEx\):Precip](#)



# March

## . . . Rain on One Day Did Not Keep the Drought Away . . .

*The month of March was rather dry with three of the primary climate sites reporting below normal rainfall totals. With most of the rainfall occurring on the 29<sup>th</sup> over SE TX, drought conditions expanded and worsened across the western reaches of the forecast area and coastal counties. On the contrary, the northern counties mainly north of I-10 saw above normal rainfall totals also due to the rainfall that fell towards the end of the month. Above normal temperatures were also felt, and the feeling of Spring like weather began to settle in across SE TX.*

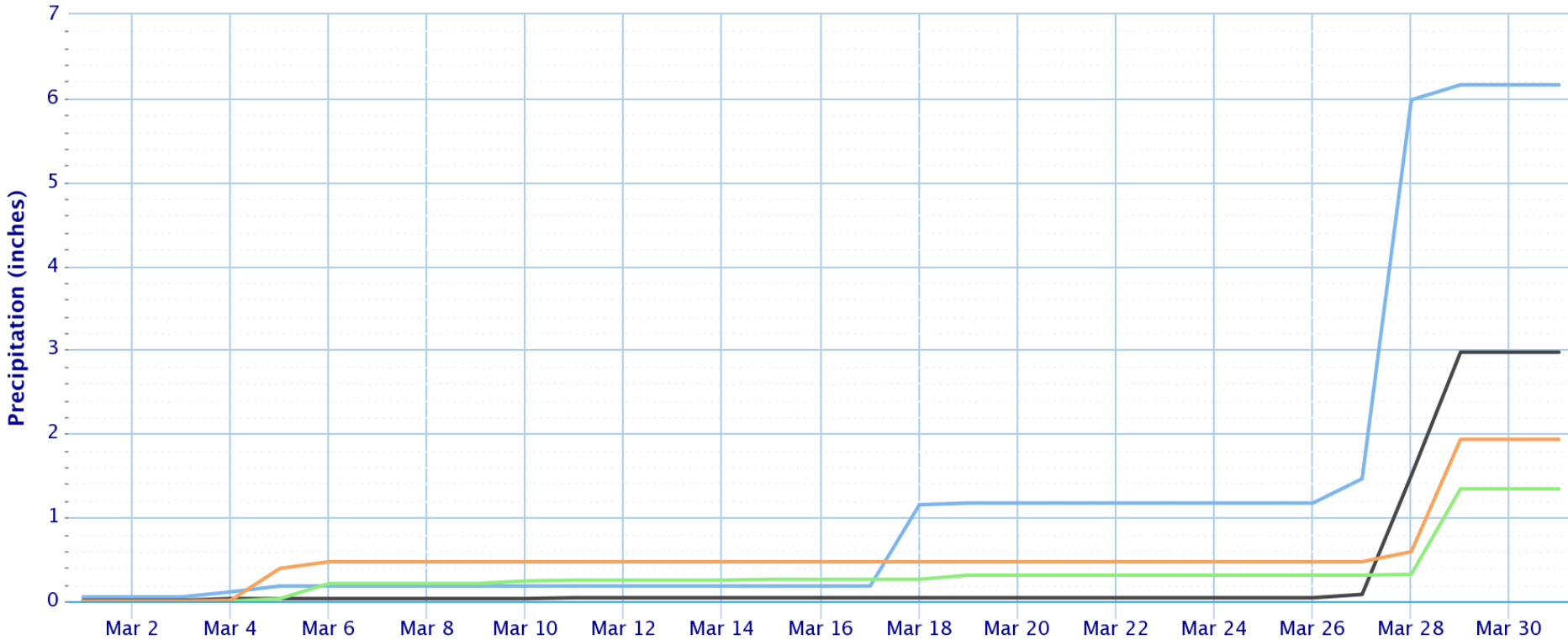
Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	69.6	75.5	63.6	63.5	+6.1	89 on Mar. 19th	54 on Mar. 12th & 13th
Houston Hobby (HOU)	67.5	76.3	58.7	63.3	+4.2	85 on Mar. 10th & 19th	44 on Mar. 13th & 21st
City of Houston (IAH)	67.6	77.7	57.4	62.7	+4.9	85 on Mar. 19th & 25th	44 on Mar. 14th & 13th
College Station (CLL)	65.5	76.1	54.8	61.4	+4.1	85 on Mar. 16th & 26th	42 on Mar. 14th & 21st

# March

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunderstorm Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	1.34	-1.65	5	1.02	Mar 29th
Houston Hobby (HOU)	1.93	-1.27	5	1.34	Mar 29th
City of Houston (IAH)	2.97	-0.44	4	1.47	Mar 29th
College Station (CLL)	6.16	+2.99	5	4.52	Mar 28th

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

- College Station Area, TX (ThreadEx):Precip
- HOUSTON WILLIAM P HOBBY AP, TX:Precip
- Houston Area, TX (ThreadEx):Precip
- Galveston Area, TX (ThreadEx):Precip



# April

... A Near Normal April. ...

*The month of April was rather dry with below normal rainfall totals reported across SE TX, allowing drought conditions to hold steady along the western coastal counties. In terms of temperatures, all of the primary climate sites reported near normal to below normal conditions. None of the four major climate had yet reached 90 degrees for the year. On average, the first 90 degree day is April 30th at College Station, May 7th for both the city of Houston and Houston Hobby Airport, and June 22nd for the city of Galveston.*

Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	69.2	76.0	62.4	70.1	-0.9	81 on Apr. 23rd & 13th	49 on Apr. 8th
Houston Hobby (HOU)	67.2	77.2	57.3	69.8	-2.6	86 on Apr. 24th	45 on Apr. 16th
City of Houston (IAH)	66.9	77.9	55.9	69.5	-2.6	86 on Apr. 25th	43 on Apr. 16th
College Station (CLL)	65.1	76.6	53.5	68.2	-3.4	84 on Apr. 24th & 12th	41 on Apr. 15th & 7th

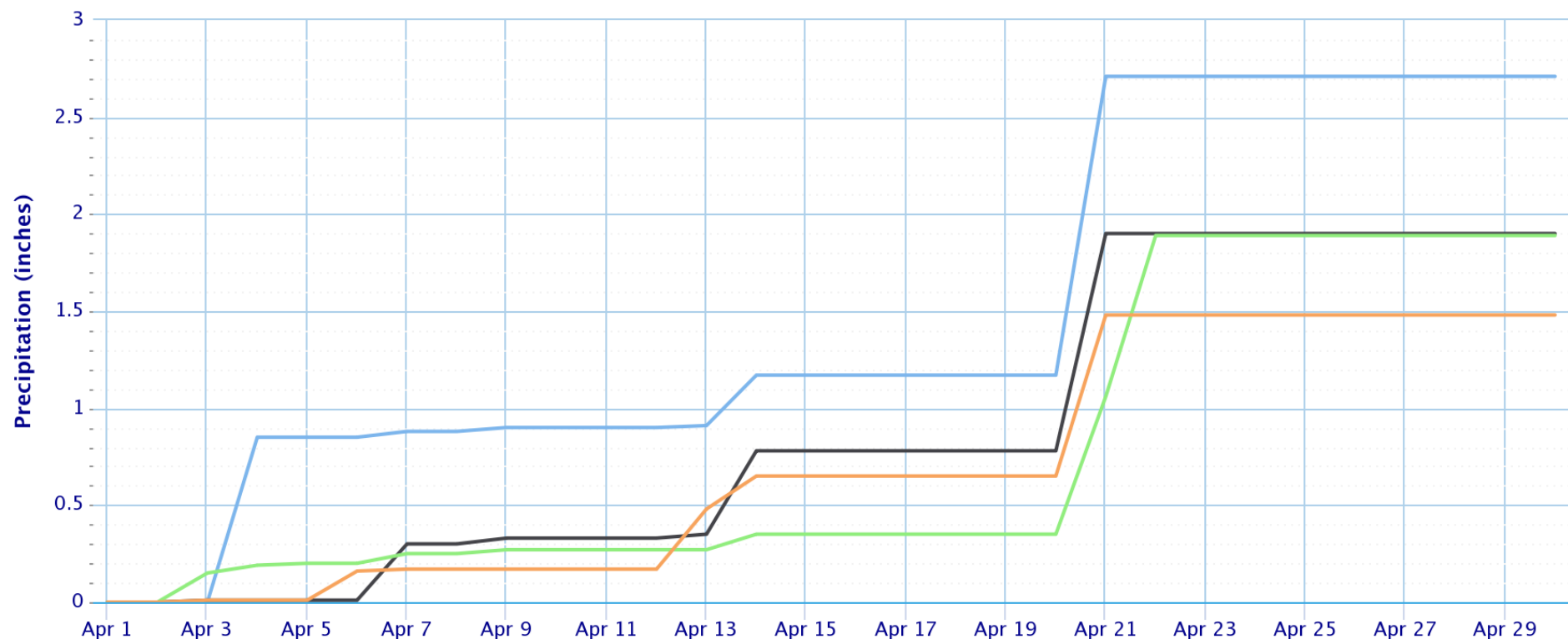


# April

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunderstorm Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	1.89	-1.16	6	0.83	Apr 22nd
Houston Hobby (HOU)	2.70	-0.54	6	1.54	Apr 21st
City of Houston (IAH)	1.90	-1.41	5	1.12	Apr 21st
College Station (CLL)	1.48	-1.18	6	0.83	Apr on 21st

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

HOUSTON WILLIAM P HOBBY AP, TX:Precip

Houston Area, TX (ThreadEx):Precip

Galveston Area, TX (ThreadEx):Precip

College Station Area, TX (ThreadEx):Precip



# May

**. . . Record Breaking Hot May. . .**

*The month of May was sizzling with average temperatures ranging between 3 and 5 degrees above normal. Average monthly temperatures for May ranked in the top five for three of the primary climate sites: city of Galveston (1st), city of Houston (3th), and city of College Station (5th). Rainfall totals were lacking throughout the month with high pressure parked over the region, and as a result monthly rainfall totals were well below normal. Drought conditions expanded drastically south of I-45, ending May with moderate to severe drought conditions along the western coastal counties such as Matagorda, Jackson and Wharton.*

Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	80.4	85.7	75.1	77.6	+2.8	91 on May 31st	69 on May 5th
Houston Hobby (HOU)	79.3	88.6	70.0	77.0	+2.3	94 on May 17th	64 on May 6th
City of Houston (IAH)	79.8	90.1	69.6	76.9	+2.9	96 on May 17th	63 on May 10th and 9th
College Station (CLL)	79.1	89.4	68.8	76.2	+2.9	95 on May 31st and 29th	57 on May 6th

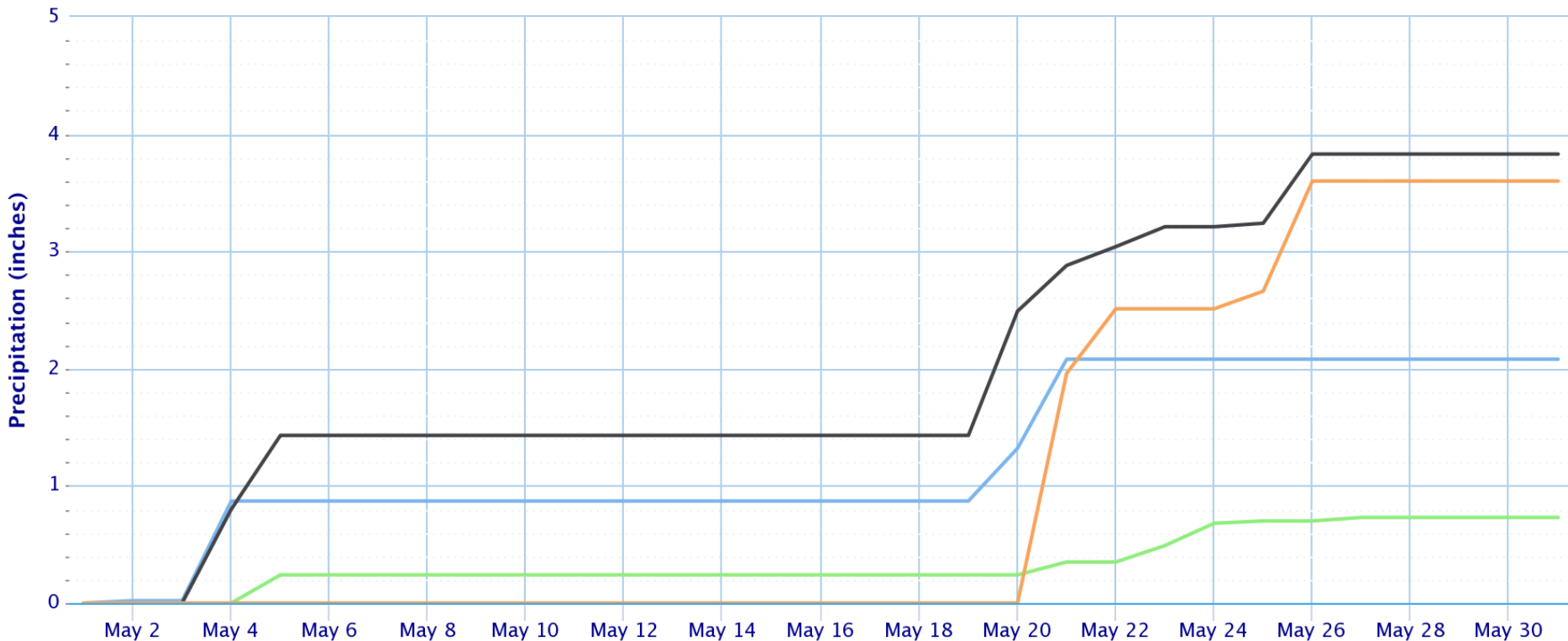


# May

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunderstorm Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	0.73	-3.59	3	0.24	May 5th
Houston Hobby (HOU)	3.60	-1.15	5	1.96	May 21st
City of Houston (IAH)	3.83	-1.26	5	1.06	May 20th
College Station (CLL)	2.08	-2.25	3	0.85	May 4th

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

College Station Area, TX (ThreadEx):Precip  
HOUSTON WILLIAM P HOBBY AP, TX:Precip

Houston Area, TX (ThreadEx):Precip

Galveston Area, TX (ThreadEx):Precip



# Top Five Warmest May's On Record

*Average monthly temperatures for May ranked in the top five for three of the primary climate sites: city of Galveston (1st), city of Houston (3th), and city of College Station (5th).*

## City of Galveston

Rank	May Average Temperature Value	Ending Date
1	80.4°	2018-05-31
2	80.0°	2012-05-31
3	79.6°	2003-05-31
4	79.1°	1996-05-31
5	79.0°	1933-05-31

## City of Houston

Rank	May Average Temperature Value	Ending Date
1	81.4°	1996-05-31
2	80.7°	2003-05-31
3	79.8°	2018-05-31
4	79.4°	2010-05-31
5	79.3°	1962-25-31

## City of College Station

Rank	May Average Temperature Value	Ending Date
1	81.6°	1996-05-31
2	79.4°	2010-05-31
3	79.3°	1998-05-31
4	79.2°	1927-05-31
5	79.1°	2018-05-31

# June

## . . . June 2018 Was Warmer Than Normal . . .

The average monthly temperature in June was between 2 and 3 degrees warmer than normal across Southeast Texas. Upper level ridging brought very warm temperatures during the first two weeks of the month. A break in the heat occurred toward the middle of the month and some much needed rainfall and associated cloud cover kept high temperatures in the 80's. Upper level ridging reasserted itself toward the end of the month and temperatures again warmed back into the middle 90's.

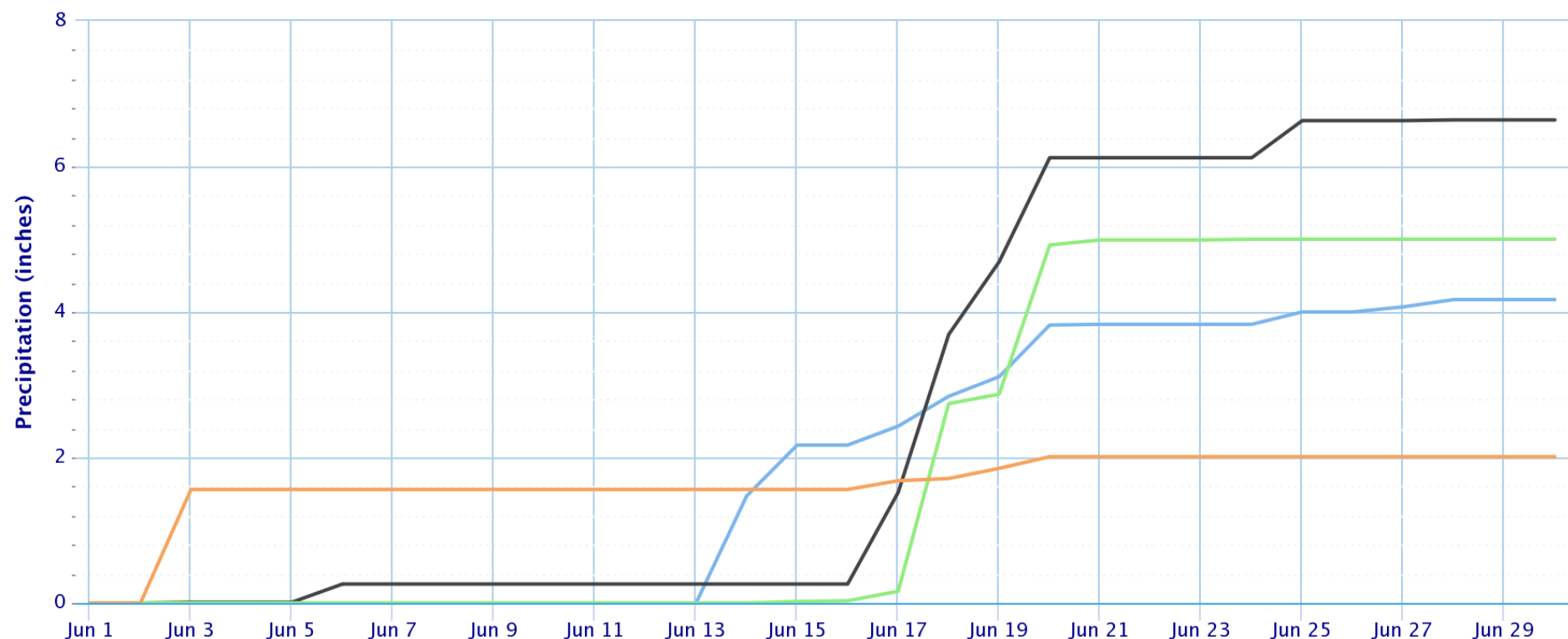
Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	84.7	89.3	80.2	82.9	+1.8	91 on June 12th & 16th	75 on June 19th
Houston Hobby (HOU)	84.1	92.2	76.1	82.0	+2.1	95 on June 27th & 29th	73 on June 14th
City of Houston (IAH)	84.9	93.7	76.1	82.4	+2.5	98 on June 5th	72 on June 4th and 9th
College Station (CLL)	84.5	93.8	75.1	82.2	+2.3	98 on June 3rd	70 on June 3rd

# June

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunderstorm Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	5.00	-0.69	4	2.58	June 18th
Houston Hobby (HOU)	4.17	-2.93	11	1.47	June 14th
City of Houston (IAH)	6.64	+0.71	8	2.17	June 18th
College Station (CLL)	2.01	-2.44	4	1.56	June 3rd

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

HOUSTON WILLIAM P HOBBY AP, TX:Precip  
College Station Area, TX (ThreadEx):Precip

Houston Area, TX (ThreadEx):Precip

Galveston Area, TX (ThreadEx):Precip



# July

## . . . The Month of July Brought the Summer Heat. . .

*Summer was in full swing throughout the month with average temperatures approximately 1 to 3 degrees above normal. A total of four heat advisories were issued throughout the month, from the 24<sup>th</sup> through the 27<sup>th</sup>. A heat advisory for Southeast Texas is defined as heat indices greater than or equal to 108 degrees or a temperature greater than or equal to 103 degrees. A total of 13 records were also recorded across the primary climate sites. Precipitation values were above normal across most of Southeast Texas.*

Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	84.4	89.2	79.5	84.5	-0.1	93 on July 23rd & 26th	72 on July 3rd
Houston Hobby (HOU)	85.4	94.0	76.8	83.8	+1.6	100 on July 23rd	73 on July 4th
City of Houston (IAH)	85.8	95.3	76.3	84.4	+1.4	101 on July 23rd	72 on July 4th & 5 <sup>th</sup>
College Station (CLL)	85.8	96.5	75.1	84.7	+1.1	106 on July 23rd	71 on July 5 <sup>th</sup>

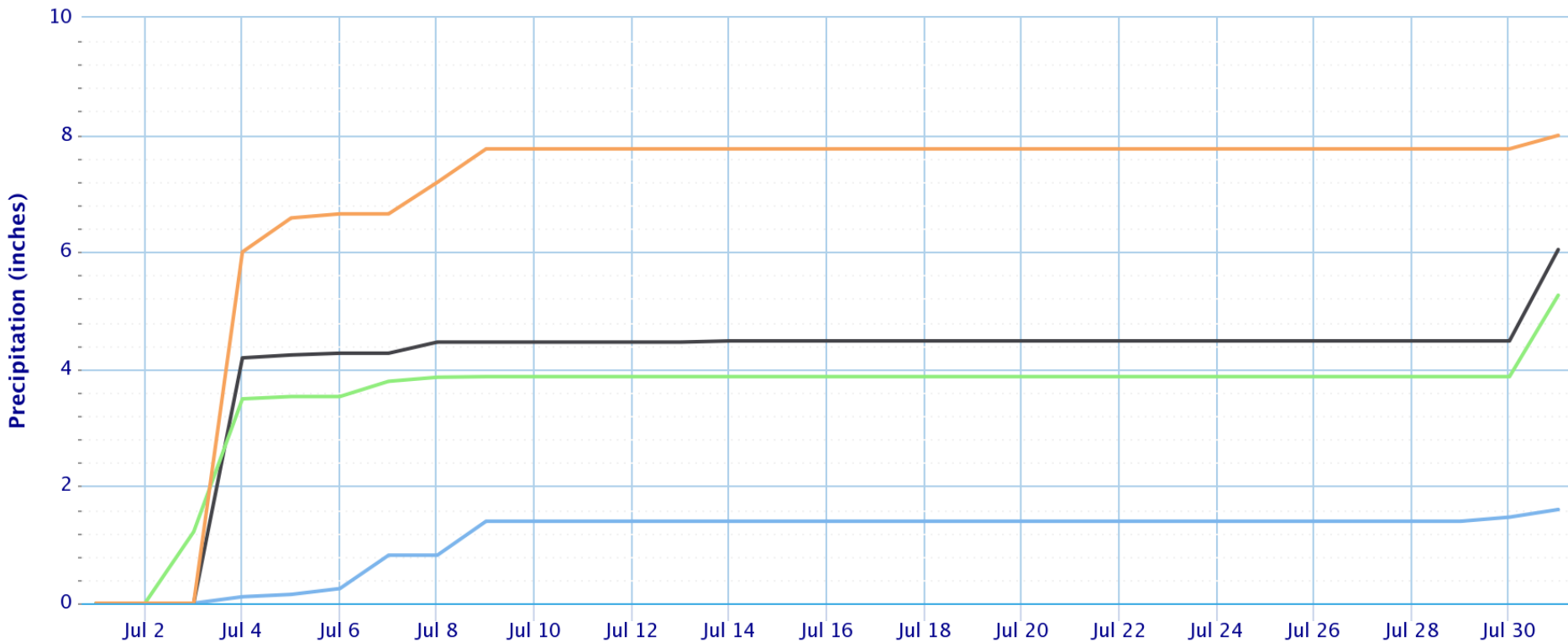


# July

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunderstorm Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	5.26	+1.46	12	2.27	July 4th
Houston Hobby (HOU)	7.99	+3.33	12	6.00	July 4th
City of Houston (IAH)	6.04	+2.25	10	4.19	July 4th
College Station (CLL)	1.06	-0.54	7	0.58	July 9th

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

College Station Area, TX (ThreadEx):Precip  
HOUSTON WILLIAM P HOBBY AP, TX:Precip

Houston Area, TX (ThreadEx):Precip

Galveston Area, TX (ThreadEx):Precip



# July: 100+ Degree Day Climatology

*Below are the dates in which both the city of Houston, Houston Hobby Airport, and the city of College Station recorded max temperatures of 100+ degrees.*

## Dates of 100+ Degree Days for July 2018

City of Houston	City of College Station
07-22-2018, Max Temp: 100°	07-19-2018, Max Temp: 100°
07-23-2018, Max Temp: 101°	07-20-2018, Max Temp: 100°
07-26-2018, Max Temp: 100°	07-22-2018, Max Temp: 102°
7-29-2018, Max Temp: 100°	07-23-2018, Max Temp: 106°
	07-24-2018, Max Temp: 100°
City of Houston	07-26-2018, Max Temp: 101°
7-23-2018, Max Temp: 100°	07-27-2018, Max Temp: 101°
	07-28-2018, Max Temp: 100°
	7-29-2018, Max Temp: 100°
	7-30-2018, Max Temp: 101°

*The following tables show the both the first and last 100+ degree days ranked by date given its earliest, average, and across both the city of Houston and city of College Station.*

	City of Houston	City of College Station
Earliest First 100+ Degree Day	6-02-2011	5-27-1906
Average First 100+ Degree Day	7-19	7-10
Latest First 100+ Degree Day	9-01-1985	9-02-1989

	City of Houston	City of College Station
Earliest Last 100+ Degree Day	6-13-2006	7-26-1994
Average Last 100+ Degree Day	8-09	8-28
Latest Last 100+ Degree Day	9-27-2005	10-06-1892



# July: Warm Summer Temperatures

*Last year (2017) was the warmest on record for much of Southeast Texas, with both winter and spring being unusually warm. In 2018, the spring was near normal in terms of temperatures, but the months of May, June and July were unseasonably warm.*

## Year-To Date Average Temperature Jan 1<sup>st</sup> through July 31<sup>st</sup>

City of Houston	City of Galveston	College Station	Houston Hobby
72.9° 2017	74.6° 2017	71.7° 2017	73.5° 2017
72.5° 2012	73.8° 2012	71.7° 2012	72.8° 2012
71.8° 1911	72.5° 2000	71.4° 2011	72.3° 2000
71.5° 2011	72.3° 2018 4th	71.4° 1911	72.1° 2011
71.4° 1953	-	71.3° 1925	72.1° 1998
70.8° 2018 13th	-	69.3° 2018 24th	71.0° 2018 11th

*When considering the warmest average temperatures beginning on May 1<sup>st</sup> through July 31<sup>st</sup>, the following records were recorded.*

## Average Temperatures May 1<sup>st</sup> through July 31<sup>st</sup>

City of Houston	City of Galveston	College Station	Houston Hobby
84.0° 2011	83.9° 2011	84.9° 1998	84.6° 1998
83.7° 2009	83.6° 1875	84.4° 1996	83.6° 2011
83.6° 1998	83.2° 2012	84.3° 2011	83.4° 2009
83.5° 2018 4th	83.1° 2018 4th	84.2° 2009	82.9° 2018 4th
83.3° 1980	83.1° 2009	...	82.9° 2008
-	-	83.1° 2018 9th	-

# August

**. . . The Month of August left SE TX Feeling Warm and Dry. . .**

*Average temperatures for the month were the 5<sup>th</sup> warmest at Houston Hobby and the 7<sup>th</sup> warmest at the city of Galveston. Temperatures for the first half of the month were near to slightly below normal but towards the later half of the month, six records were broken in total at both the city of Houston and Houston Hobby. Rainfall was 2 to 3 inches below normal during the month and many locations failed to tally even an inch of rain. The city of College Station recorded 0.21 inches of rain and this ties for the 8<sup>th</sup> driest August on record. The month ended with severe drought conditions in Madison, Brazos, and Houston counties, and roughly 63% of Southeast Texas was experiencing drought conditions.*

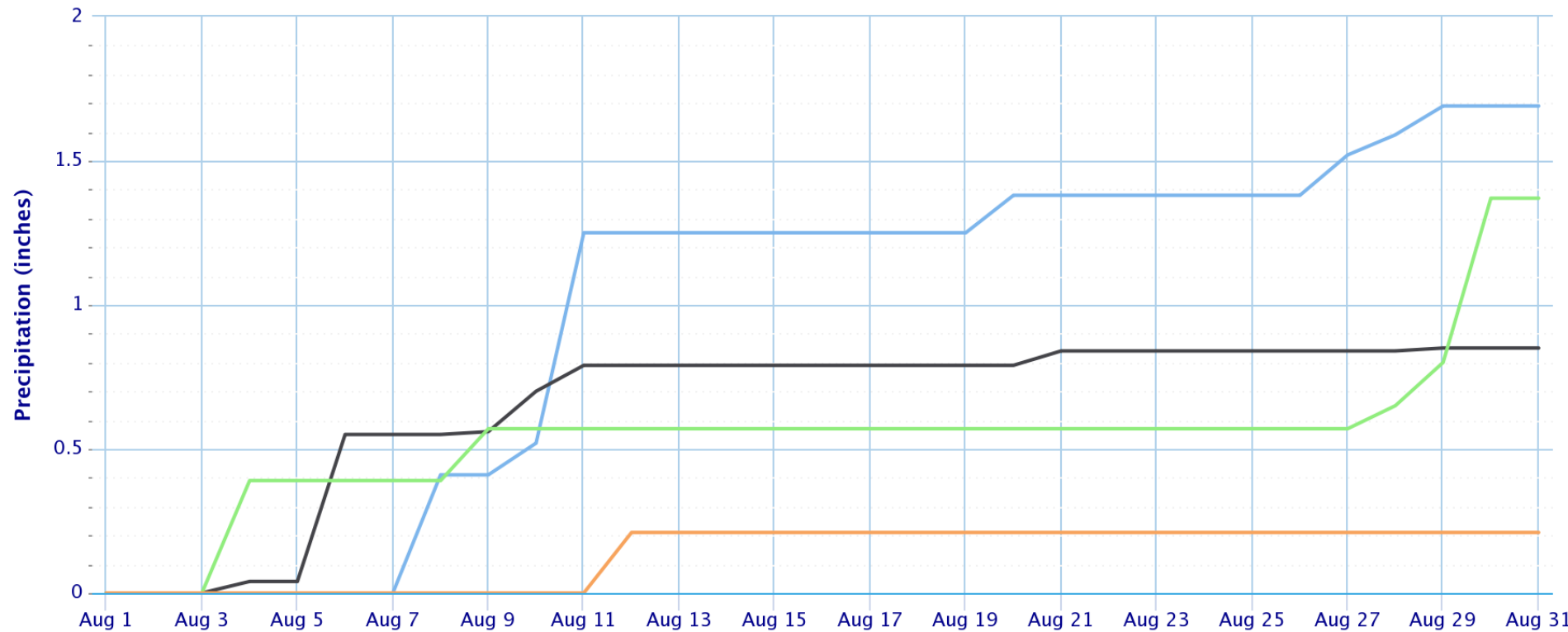
Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	85.8	91.0	80.6	85.0	+0.8	95 on August 22nd	74 on August 4th
Houston Hobby (HOU)	85.9	94.4	77.4	84.2	+1.7	100 on August 22nd	74 on August 30th & 3rd
City of Houston (IAH)	85.3	95.0	75.7	84.6	+0.7	100 on August 21st	71 on August 2nd
College Station (CLL)	86.3	97.8	74.7	85.3	+1.0	102 on August 22nd and 21st	70 on August 2nd and 1st

# August

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	1.37	-3.02	9	1.39	August 31 <sup>st</sup> to 1 <sup>st</sup>
Houston Hobby (HOU)	1.69	-3.37	18	0.73	August 11th
City of Houston (IAH)	0.85	-2.91	13	1.56	August 31 <sup>st</sup> to 1 <sup>st</sup>
College Station (CLL)	0.21	-2.47	6	0.21	August 12th

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values

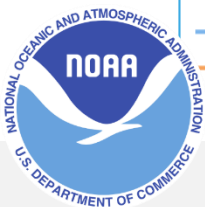


(Click to hide/show lines)

— HOUSTON WILLIAM P HOBBY AP, TX:Precip  
— College Station Area, TX (ThreadEx):Precip

— Houston Area, TX (ThreadEx):Precip

— Galveston Area, TX (ThreadEx):Precip



# August: 100+ Degree Day Climatology

*Below are the dates in which both the city of Houston, Houston Hobby Airport, and the city of College Station recorded max temperatures of 100+ degrees.*

## Dates of 100+ Degree Days for August 2018

City of Houston	City of College Station
08-21-2018, Max Temp: 100°	08-16-2018, Max Temp: 101°
	08-17-2018, Max Temp: 100°
City of Houston	08-18-2018, Max Temp: 100°
08-22-2018, Max Temp: 100°	08-19-2018, Max Temp: 100°
	08-20-2018, Max Temp: 101°
	08-21-2018, Max Temp: 102°
	08-22-2018, Max Temp: 102°
	08-23-2018, Max Temp: 100°
	08-27-2018, Max Temp: 100°
	08-28-2018, Max Temp: 100°

*The following tables show both the first and last 100+ degree days ranked by date given its earliest, average, for both the city of Houston and city of College Station. Interesting to note, both Houston Hobby and the city of Houston recorded 100+ degree days later this year than their average last 100+ degree day (Houston Hobby on the 8<sup>th</sup> and the city of Houston on the 9<sup>th</sup>)*

	City of Houston	City of College Station
Earliest First 100+ Degree Day	6-02-2011	5-27-1906
Average First 100+ Degree Day	7-19	7-10
Latest First 100+ Degree Day	9-01-1985	9-02-1989

	City of Houston	City of College Station
Earliest Last 100+ Degree Day	6-13-2006	7-26-1994
Average Last 100+ Degree Day	8-09	8-28
Latest Last 100+ Degree Day	9-27-2005	10-06-1892



# August Heat

January through August 2018, for the city of Galveston was the 4th warmest year on record. The remaining three locations also all rose in ranking.

Year-To Date Average Temperature Jan 1<sup>st</sup> through August 31<sup>st</sup>

City of Houston			City of Galveston			City of College Station			Houston Hobby		
1 <sup>st</sup>	74.3°	2017	1 <sup>st</sup>	75.8°	2017	1 <sup>st</sup>	73.9°	2011	1 <sup>st</sup>	75.1°	2017
2 <sup>nd</sup>	74.2°	2012	2 <sup>nd</sup>	75.4°	2012	2 <sup>nd</sup>	73.7°	2012	2 <sup>nd</sup>	74.5°	2012
3 <sup>rd</sup>	73.9°	2011	3 <sup>rd</sup>	74.1°	2000	3 <sup>rd</sup>	73.3°	2017	3 <sup>rd</sup>	74.3°	2011
4 <sup>th</sup>	73.3°	1962	4 <sup>th</sup>	74.0°	2018	-	73.3°	1911	4 <sup>th</sup>	74.0°	2000
-	73.3°	1911	-	74.0°	2006	4 <sup>th</sup>	73.1°	1925	5 <sup>th</sup>	73.8°	1998
8 <sup>th</sup>	72.8°	2018	5 <sup>th</sup>	73.7°	1999	13 <sup>th</sup>	71.5°	2018	10 <sup>th</sup>	72.9°	2018

The following table shows the significant warmest average temperatures for the month of August.

August Average Temperatures					
Houston Hobby			City of Galveston		
1 <sup>st</sup>	89.1°	2011	1 <sup>st</sup>	88.5°	2011
2 <sup>nd</sup>	86.9°	2010	2 <sup>nd</sup>	87.3°	2010
3 <sup>rd</sup>	86.4°	1999	3 <sup>rd</sup>	86.6°	2012
4 <sup>th</sup>	86.2°	2009	-	86.6°	2005
5 <sup>th</sup>	85.9°	2018	4 <sup>th</sup>	86.5°	2009
-	85.9°	2012	5 <sup>th</sup>	86.1°	2015
-	85.9°	1962	6 <sup>th</sup>	85.9°	1999
6 <sup>th</sup>	85.8°	1951	7 <sup>th</sup>	85.8°	2018
7 <sup>th</sup>	85.7°	2017	-	85.8°	1995



# September

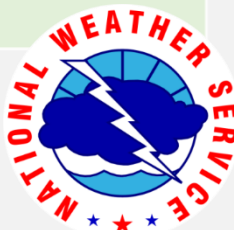
## ... Soggy September in SE TX. ...

*Temperatures remained near normal to slightly above normal across the area throughout the month. Only two daily records were broken, both of which were high minimum temperatures at Houston Hobby Airport. Above normal monthly rainfall helped to improve drought conditions throughout the month. The city of Galveston recorded its second wettest September on record with a total of 24.32 inches of rain.*

Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	81.7	86.1	77.3	81.6	+0.1	92 on Sept 18th	74 on Sept 29th
Houston Hobby (HOU)	81.0	87.4	74.6	80.1	+0.9	95 on Sept 17th and 18th	70 on Sept 24th and 28th
City of Houston (IAH)	80.7	87.4	74.0	79.8	+0.9	96 on Sept 17th & 18th	69 on Sept 28th
College Station (CLL)	79.9	87.5	72.3	80.0	-0.1	98 on Sept 1st	65 on Sept 27th

### Galveston's Top 5 Wettest Septembers

Rank	Total Precipitation	Year
1	26.01	1885
2	24.32	2018
3	18.68	1913
4	18.41	1875
5	15.41	1961

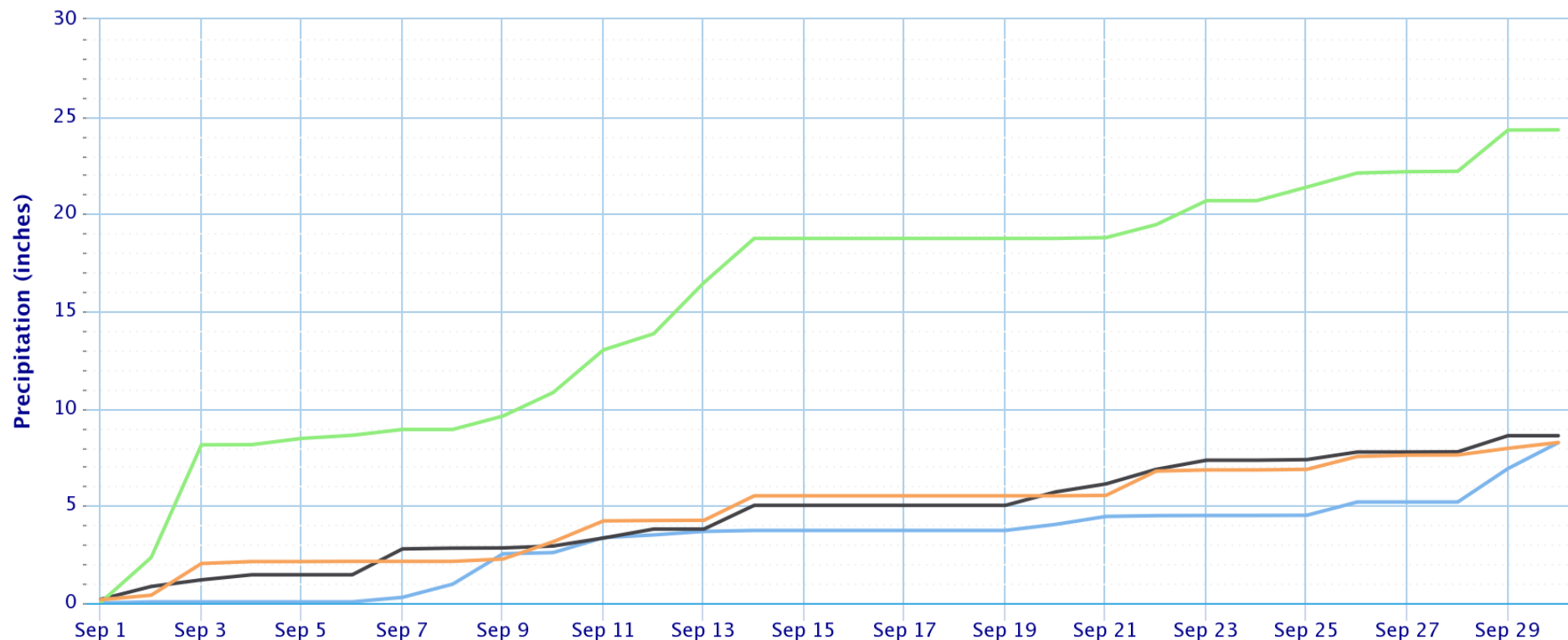


# September

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunderstorm Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	24.32	+18.29	16	5.79	Sept 3rd
Houston Hobby (HOU)	8.25	+3.04	19	1.63	Sept 3rd
City of Houston (IAH)	8.60	+4.48	13	1.33	Sept. 7th
College Station (CLL)	8.24	+5.06	13	1.72	Sept. 29th

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

College Station Area, TX (ThreadEx):Precip  
HOUSTON WILLIAM P HOBBY AP, TX:Precip

Houston Area, TX (ThreadEx):Precip

Galveston Area, TX (ThreadEx):Precip



# October

## ... A Warm and Soggy October...

*Average temperatures for the month of October were above normal at all primary climate sites. Thirteen daily temperature records were broken in total, with one daily rainfall record also broken at the city of Galveston. Rainfall totals were nearly an inch to seven inches above normal at all climate sites. Additionally, both the city of Galveston and College Station ranked in the top three for the wettest two-month rainfall totals for September and October. This much-needed rainfall eliminated all drought conditions across Southeast Texas.*

Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	75.8	81.1	70.5	74.3	+1.5	89 on October 7th	58 on October 23rd
Houston Hobby (HOU)	73.4	81.2	65.6	72.1	+1.3	92 on October 6th	53 on October 26th
City of Houston (IAH)	72.3	80.5	64.0	71.5	+0.8	91 on October 14th and 6th	51 on October 22nd
College Station (CLL)	70.0	78.3	61.7	70.8	-0.8	91 on October 5th	47 on October 15th

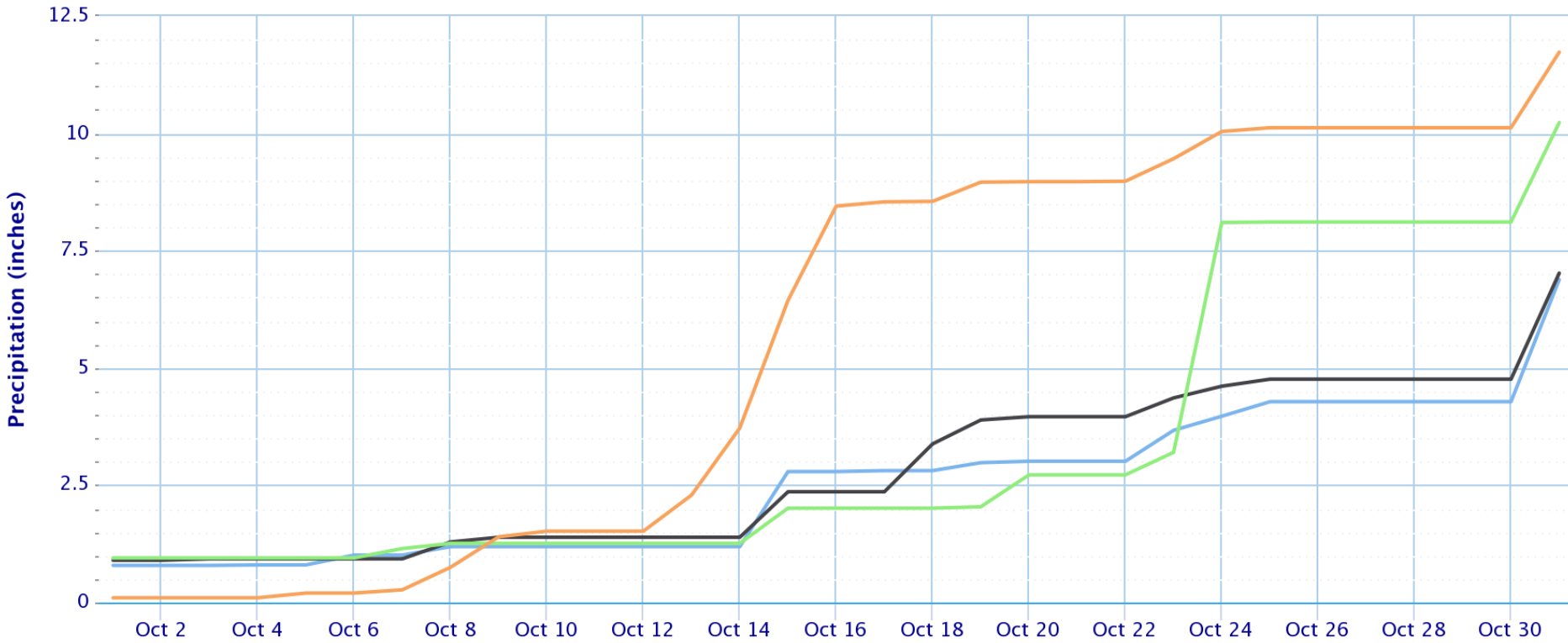


# October

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	10.23	+4.71	6	4.90	October 24th
Houston Hobby (HOU)	6.88	+0.89	6	2.60	October 31st
City of Houston (IAH)	7.02	+1.32	8	2.26	October 31st
College Station (CLL)	11.73	+6.82	9	2.72	October 15th

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

HOUSTON WILLIAM P HOBBY AP, TX:Precip  
College Station Area, TX (ThreadEx):Precip

Houston Area, TX (ThreadEx):Precip

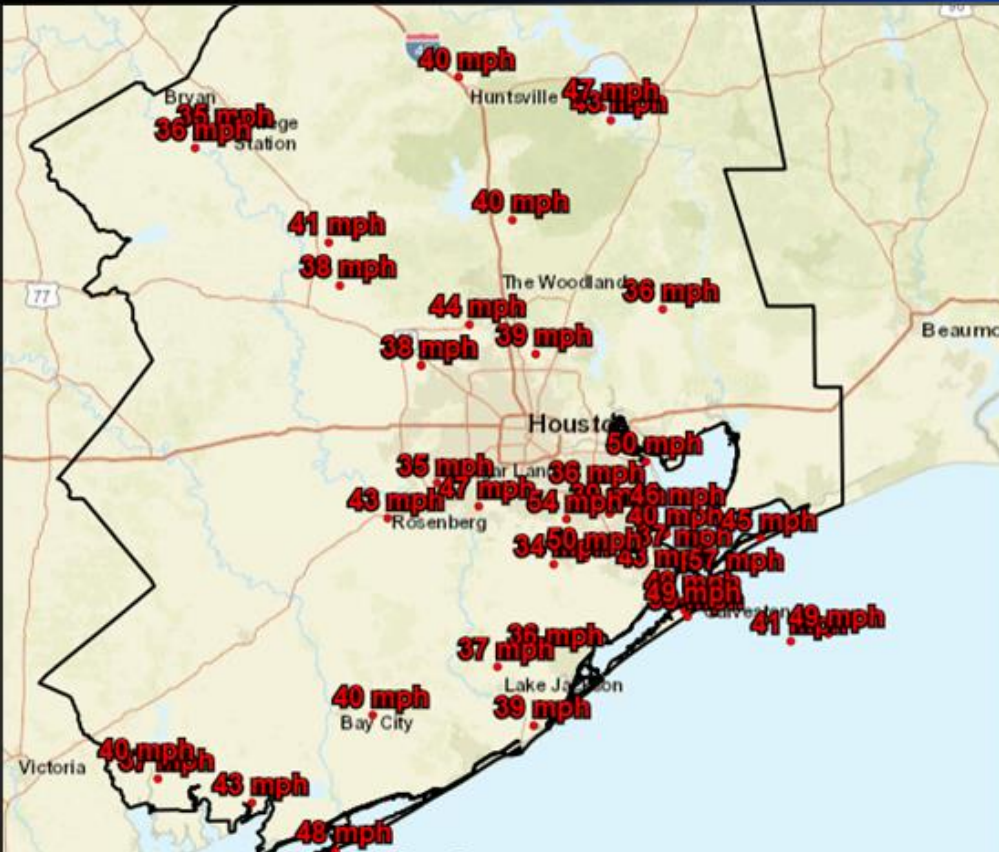
Galveston Area, TX (ThreadEx):Precip



# October: Halloween Severe Weather

## Wind Gust Reports From Halloween Storms

Weather Forecast Office  
Houston/Galveston, TX  
Issued November 1, 2018 6:18 AM CT



Strong and gusty winds associated with Halloween's storm system.

The highest winds were reported near the coast as the squall line passed through the area.

Ship Channel Entrance: 57 mph  
Galveston: 49 mph  
Morgan's Point: 50 mph  
Matagorda Beach: 48 mph

NATIONAL WEATHER SERVICE  
OCEANIC AND ATMOSPHERIC ADMINISTRATION

## Preliminary Damage Survey Results

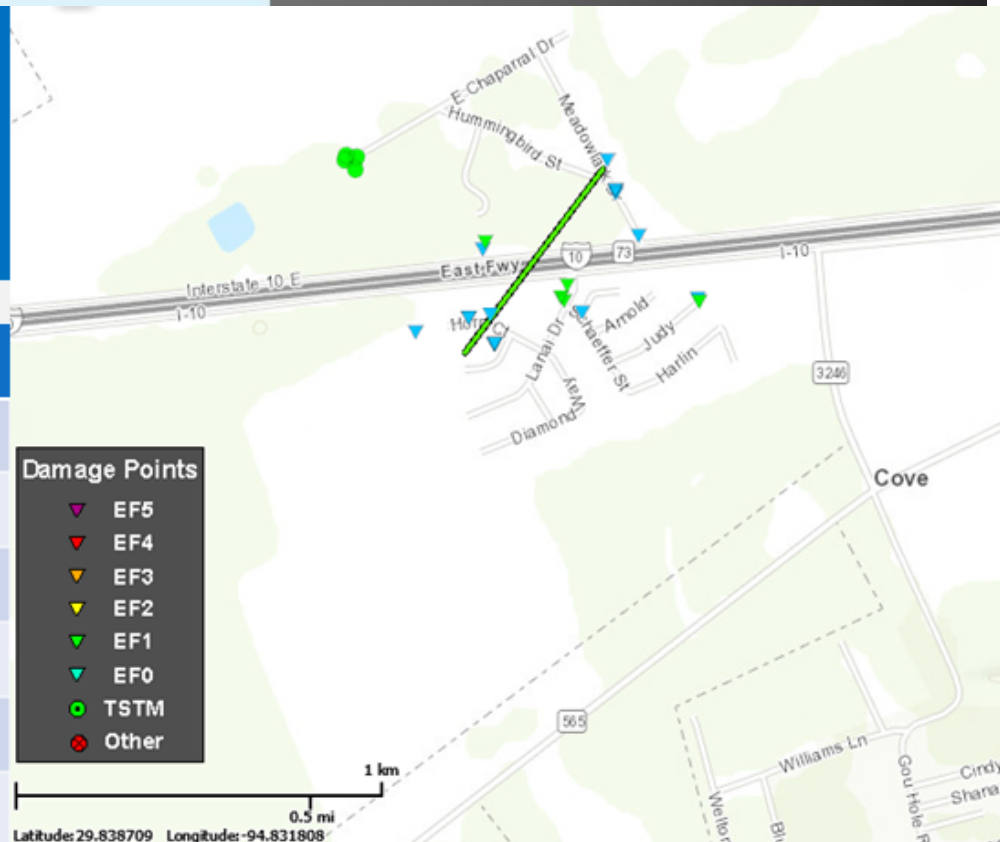
### Chambers County – Cove TX Tornado

Date	10/31/2018
Time (Local)	9:57 PM CDT
EF Rating	EF-1
Est. Peak Winds	90 MPH
Path Length	0.38 miles
Max Width	100 yards
Injuries/Deaths	0/0

#### Damage Points

- EF5
- EF4
- EF3
- EF2
- EF1
- EF0
- TSTM
- Other

1 km  
0.5 mi  
Latitude: 29.838709 Longitude: -94.831808



NWS Houston/Galveston

ISSUED: 4:43 PM - Thursday, November 1, 2018



# October: Halloween Severe Weather (continued)



NATIONAL WEATHER SERVICE  
OCEANIC AND ATMOSPHERIC ADMINISTRATION



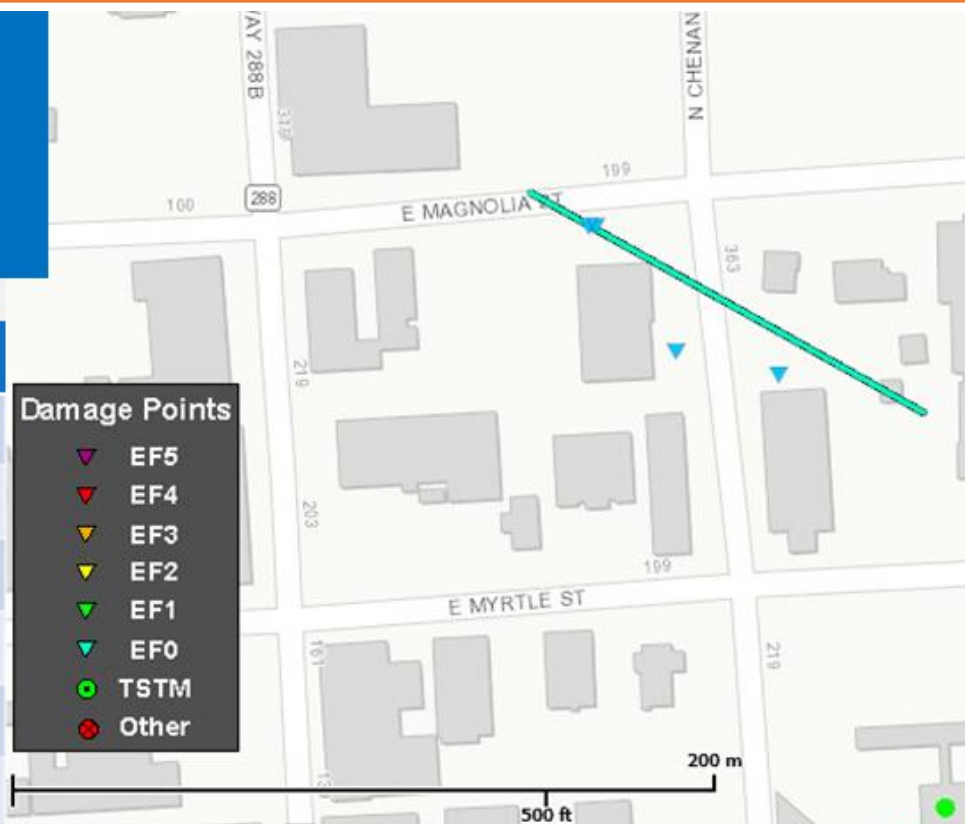
## Preliminary Damage Survey Results

### Brazoria County – Angleton, TX Tornado

Date	10/31/2018
Time (Local)	9:54 PM CDT
EF Rating	EF-0
Est. Peak Winds	80 MPH
Path Length	0.08 miles
Max Width	30 yards
Injuries/Deaths	0/0

#### Damage Points

- EF5
- EF4
- EF3
- EF2
- EF1
- EF0
- TSTM
- Other



NWS Houston/Galveston

ISSUED: 2:12 PM - Friday, November 2, 2018



NATIONAL WEATHER SERVICE  
OCEANIC AND ATMOSPHERIC ADMINISTRATION



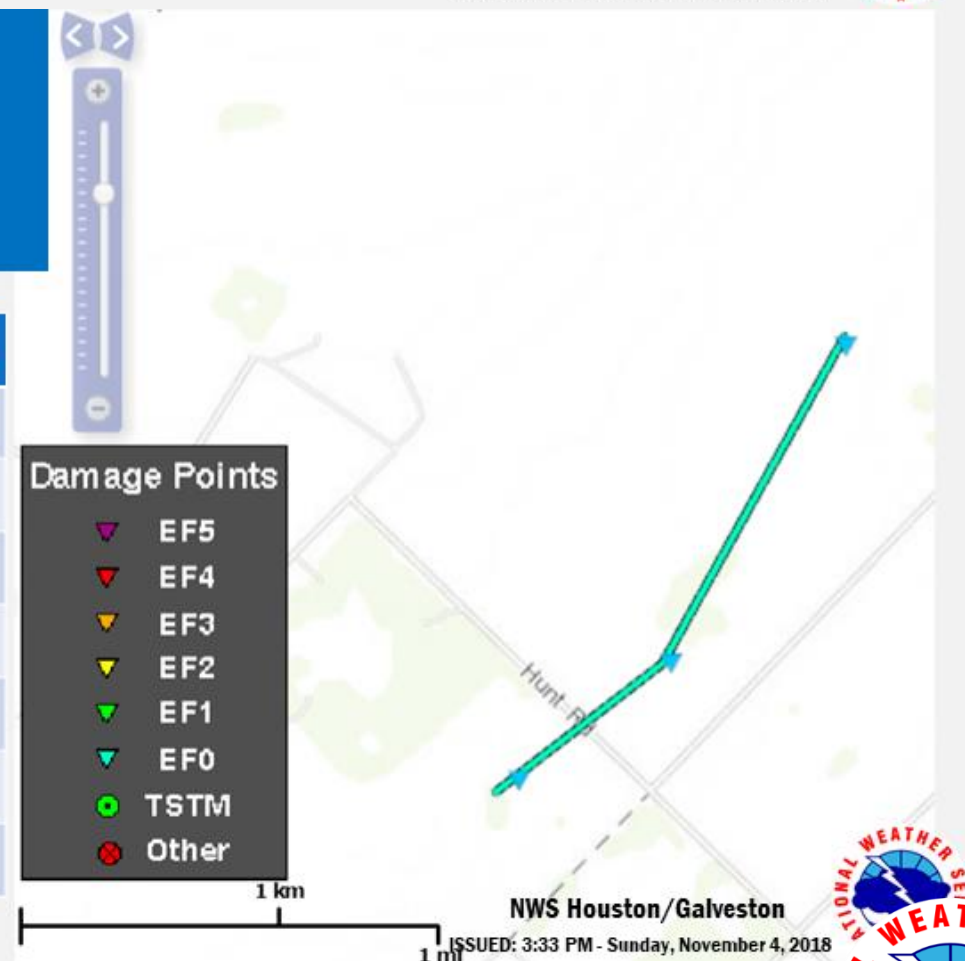
## Preliminary Damage Survey Results

### Colorado County – Eagle Lake, TX Tornado

Date	10/31/2018
Time (Local)	3:00 PM CDT
EF Rating	EF-0
Est. Peak Winds	80 MPH
Path Length	1.4 miles
Max Width	100 yards
Injuries/Deaths	0/0

#### Damage Points

- EF5
- EF4
- EF3
- EF2
- EF1
- EF0
- TSTM
- Other



NWS Houston/Galveston

ISSUED: 3:33 PM - Sunday, November 4, 2018



# November

**. . . A Chilly November Brought Record Breaking Snowfall . . .**

*Below normal temperatures kept the month of November on the chilly side, although the first week of the month brought above normal temperatures. Twelve daily temperature records were broken in total, with three daily snowfall records broken specifically at the city of Houston, College Station, and Houston Hobby on the 13<sup>th</sup>. Below normal rainfall totals also occurred across much of the region with monthly deficits between one and three inches.*

Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	61.7	68.1	55.3	65.1	-3.4	84 on November 7th and 6th	37 on November 14th
Houston Hobby (HOU)	59.5	68.2	50.8	63.2	-3.7	88 on November 7th and 6th	32 on November 15th
City of Houston (IAH)	58.7	68.2	49.1	62.3	-3.6	89 on November 7th	30 on November 15th
College Station (CLL)	55.8	65.3	46.4	60.8	-5.0	87 on November 7th	28 on November 14th

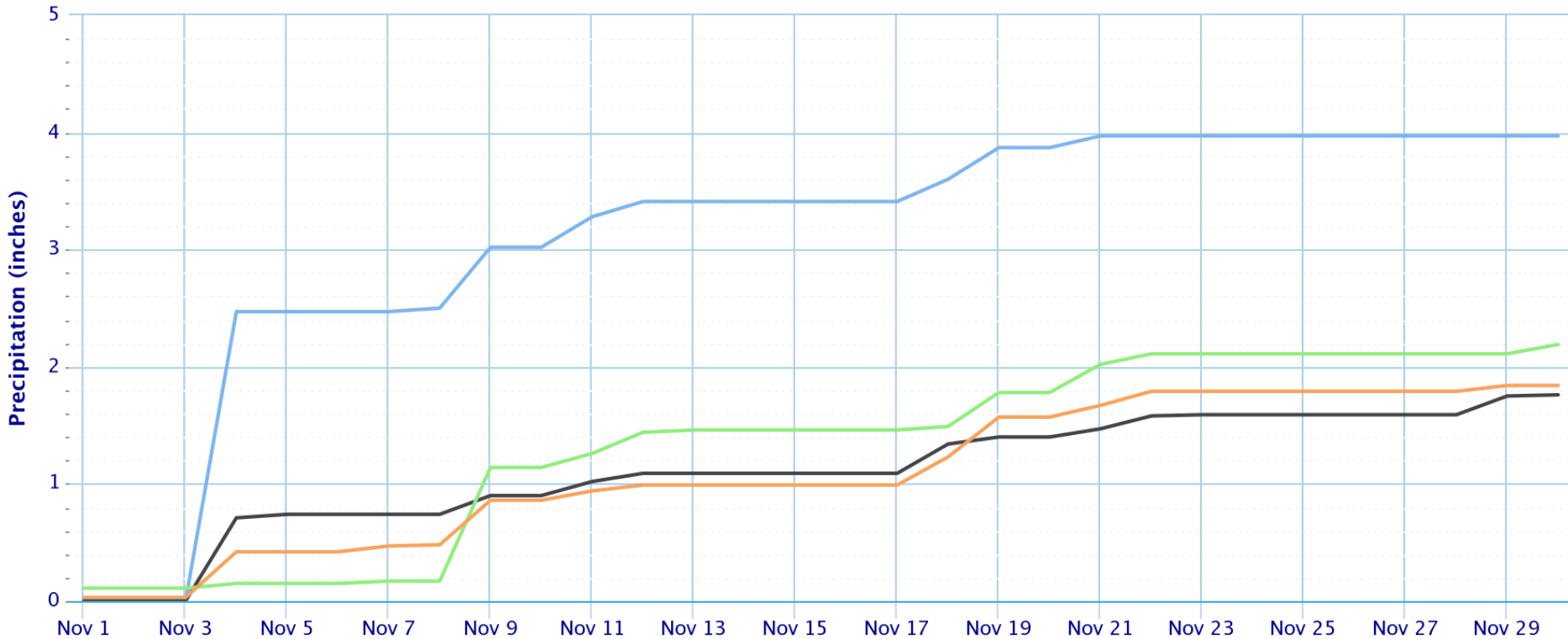


# November

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	2.19	-2.32	5	2.12	Oct 31 into Nov 1st
Houston Hobby (HOU)	1.84	-2.48	5	2.60	Oct 31 into Nov 1st
City of Houston (IAH)	1.76	-2.58	3	2.26	Oct 31 into Nov 1st
College Station (CLL)	3.97	0.75	4	2.47	Nov 4th

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



(Click to hide/show lines)

College Station Area, TX (ThreadEx):Precip   Houston Area, TX (ThreadEx):Precip   Galveston Area, TX (ThreadEx):Precip  
HOUSTON WILLIAM P HOBBY AP, TX:Precip



# Wintry Precipitation: November 13<sup>th</sup>

Site	Snowfall	Wintry Precipitation Recorded
IAH	T	Light Snow & Ice Pellets
GLS	0.00"	None
CLL	T	Light Snow
HOU	T	Graupel
CXO	T	Light Snow
HGX	T	Light Snow
UTS	0.00"	None
DWH	0.00"	None
SGR	0.00"	None
LBX	0.00"	None
PSX	0.00"	None
LVJ	0.00"	None

Snowfall records were recorded at the City of Houston (IAH), Houston Hobby (HOU), and the City of College Station (CLL).



# December

... A Record Breaking Wet December ...

Monthly rainfall totals were well above normal across the area, though the month ended with slightly above normal average monthly temperatures. Six daily temperature records were broken in total, with five of these daily rainfall records. Additionally, the month turned out to be the 4<sup>th</sup> wettest December on record for the city of College Station and the 8<sup>th</sup> wettest December on record for the city of Houston. The extra rain helped to keep drought conditions out of the area once more, leaving the entire month of December drought free.

Site	Average Temp (F)	Average High Temp (F)	Average Low Temp (F)	Normal Average Temp (F)	Departure From Normal (F)	Maximum Temperature (F)	Minimum Temperature (F)
Galveston (GLS)	58.1	64.0	52.1	57.4	+0.7	80 on December 1st	43 on December 11th
Houston Hobby (HOU)	56.7	65.0	48.4	55.6	+1.1	80 on December 1st	37 on December 11th
City of Houston (IAH)	55.6	64.7	46.4	54.4	+1.2	80 on December 1st	34 on December 11th
College Station (CLL)	53.0	61.7	44.3	52.2	+0.8	75 on December 1st & 22nd	34 on December 10th & 11th

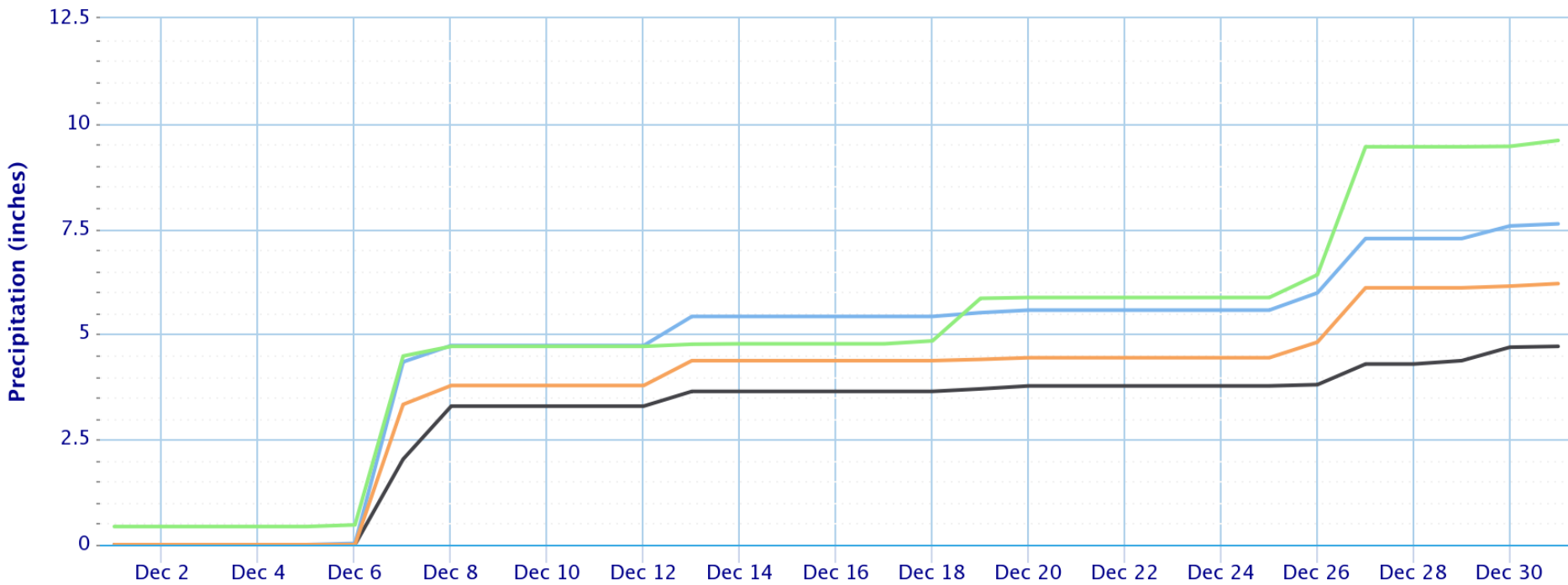


# December

Site	Total Precipitation (in.)	Departure from Normal (in.)	Number of Thunder Days	Maximum Daily Precipitation (in./date)	
Galveston (GLS)	4.17	+1.19	4	2.03	Dec. 7th
Houston Hobby (HOU)	6.20	+2.17	5	3.33	Dec. 7th
City of Houston (IAH)	7.62	+3.88	5	4.31	Dec. 7th
College Station (CLL)	9.60	+6.37	6	4.01	Dec. 7th

## Accumulated Precipitation

Green/black diamonds represent subsequent/missing values



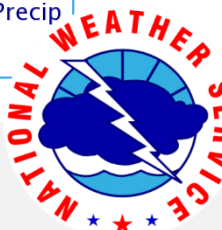
(Click to hide/show lines)

— Houston Area, TX (ThreadEx):Precip

— Galveston Area, TX (ThreadEx):Precip

— College Station Area, TX (ThreadEx):Precip

— HOUSTON WILLIAM P HOBBY AP, TX:Precip



# Abnormally Wet December (2018)

December 2018 was the 4<sup>th</sup> wettest December on record for the city of College Station and the 8<sup>th</sup> wettest December on record for the city of Houston. Additionally, the city of College Station had it's 4<sup>th</sup> and 11<sup>th</sup> wettest calendar days ever recorded in December, and the city of Houston had it's 5<sup>th</sup> wettest calendar day. When considering the period from December 4<sup>th</sup>, 2018 through January 4<sup>th</sup>, 2019, the city of College station is the wettest on record and the city of Houston the 4<sup>th</sup> wettest on record.

## City of College Station December 2018 Precipitation (inches)

Wettest December	Wettest Calendar Day In December	Wettest December 4th through January 3rd
12.66 1913	7.54 12/04/1913	<b>11.64 2018-2019</b>
11.03 1892	5.79 12/15/1994	11.07 1913-1914
10.72 1994	4.93 12/02/1965	11.03 1892-1893
<b>9.60 2018</b>	<b>4.01 12/07/2018</b>	10.09 1931-1932
9.24 1891	3.95 12/12/1891	9.98 1994-1995
	<b>3.04 12/27/2018 11th</b>	

## City of Houston December 2018 Precipitation (inches)

Wettest December	Wettest Calendar Day In December	Wettest December 4th through January 3rd
14.38 1923	5.80 12/01/1914	11.61 1911-1912
11.55 1911	5.64 12/14/2005	11.55 1923-1924
11.43 1914	4.95 12/07/1935	10.23 1949-1950
10.09 1912	4.41 12/10/1923	<b>9.25 2018-2019</b>
9.62 1949	<b>4.31 12/07/2018</b>	8.97 1991-1992
<b>7.62 2018 8th</b>		

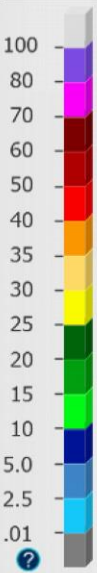
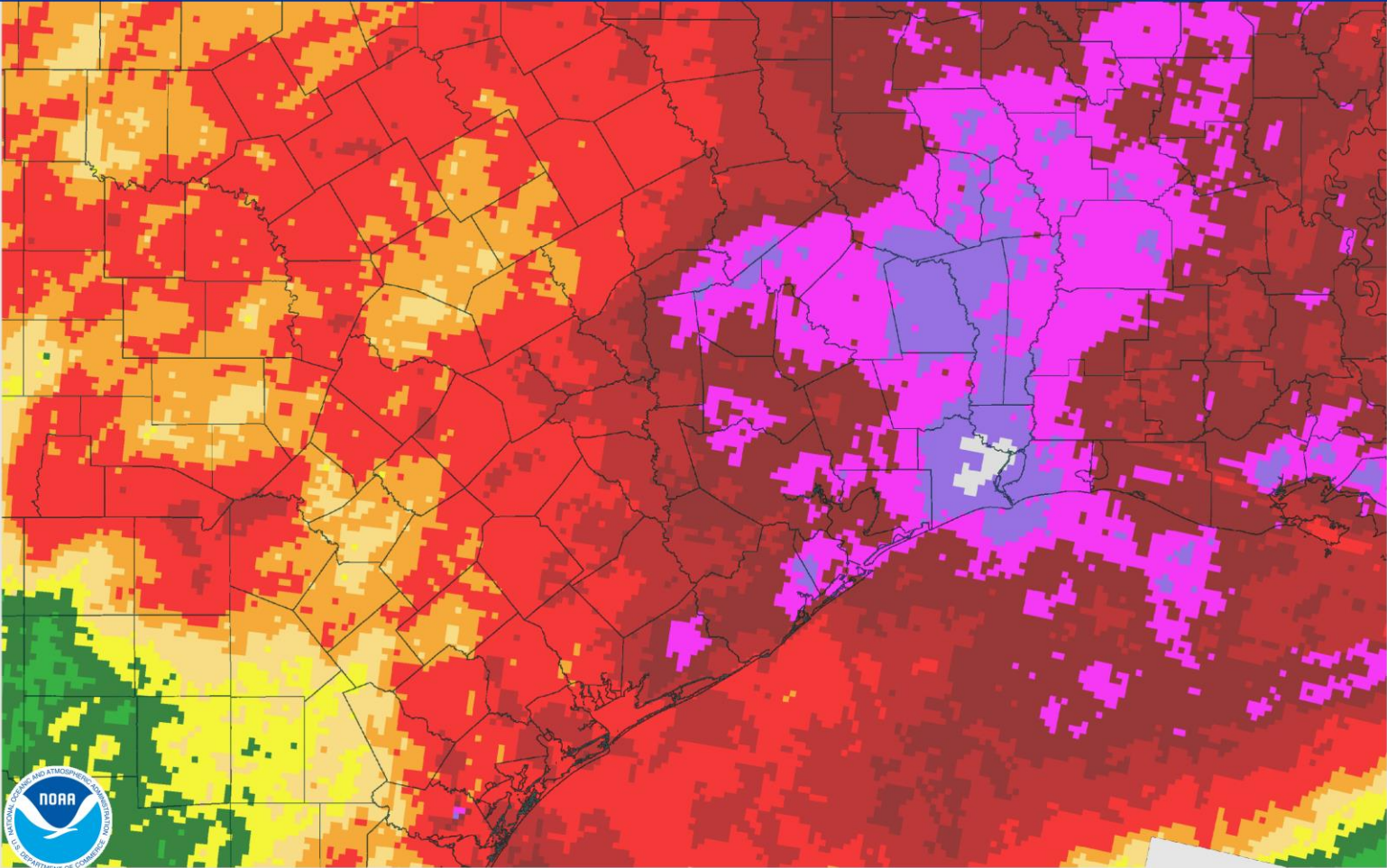


# 2018 Annual Precipitation Totals

January 01, 2018 Annual Observed Precipitation

Created on: January 05, 2019 - 23:49 UTC

Valid on: January 01, 2019 12:00 UTC

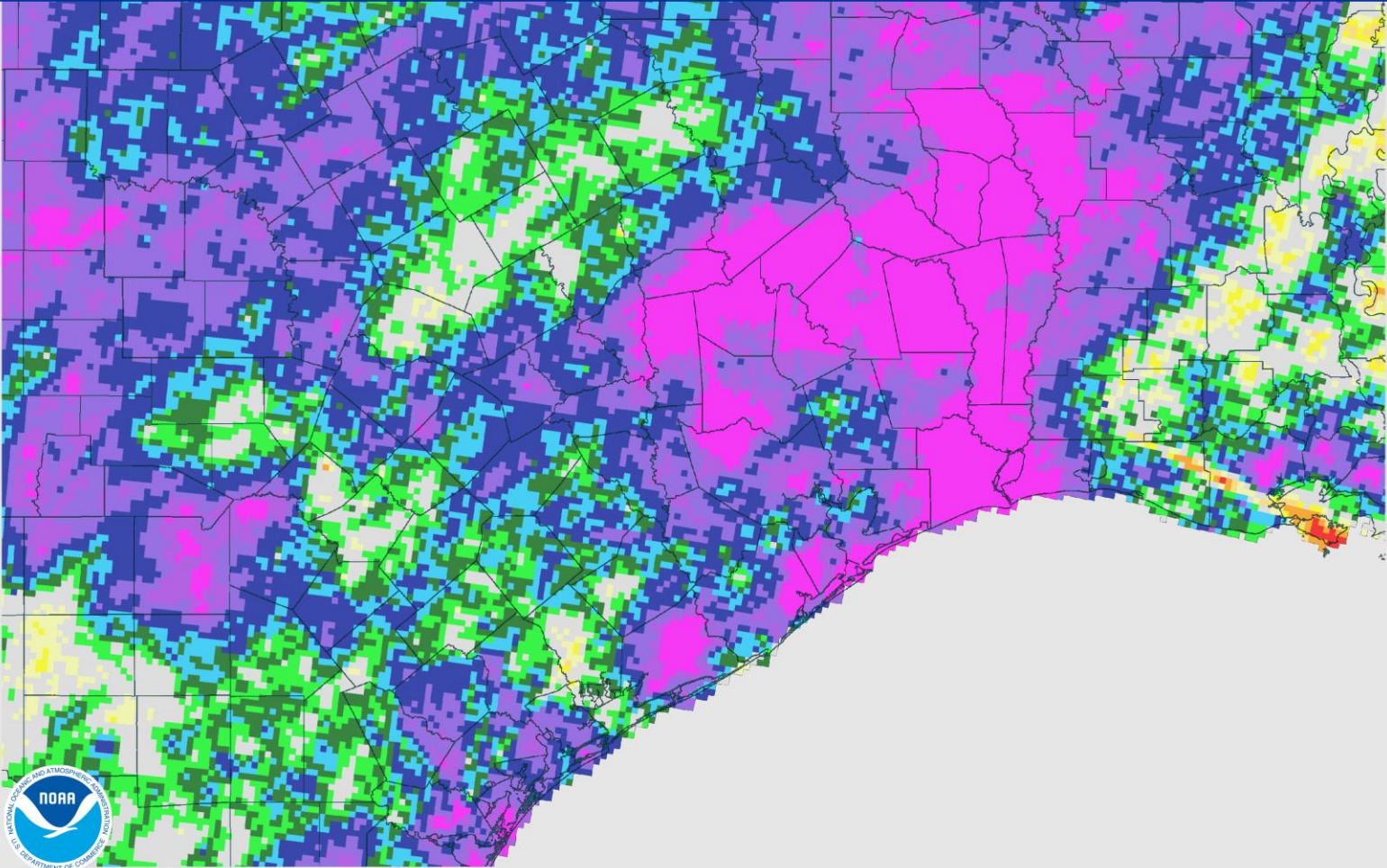


# 2018 Annual Precipitation Departure

January 01, 2018 Annual Departure Precipitation

Created on: January 05, 2019 - 23:52 UTC

Valid on: January 01, 2019 12:00 UTC



# GLS: Daily Record Temperature and Precipitation Data

*There were a total of 44 new records made throughout the year for the city of Galveston.*

Site	Date	Record Type	New Record	Previous Record
GLS	1/03	Snowfall	T	Tied in 1919
GLS	1/16	Snowfall	T	0.00" in 2017
GLS	1/17	Low Max Temp	36°	37° in 1885
GLS	2/14	High Max Temp	76°	Tied in 1892
GLS	2/16	High Max Temp	77°	Tied in 1982
GLS	2/17	High Max Temp	79°	75° in 1882
GLS	2/19	High Max Temp	77°	75° in 2017
GLS	2/20	High Max Temp	76°	75° in 2005
GLS	2/20	High Min Temp	67°	Tied in 1890
GLS	2/21	High Min Temp	67°	65° in 2013
GLS	2/22	High Max Temp	78°	76° in 2017
GLS	2/23	High Min Temp	68°	66° in 2012
GLS	2/24	High Min Temp	70°	68° in 1890
GLS	2/24	High Max Temp	80°	76° in 2017
GLS	2/28	High Min Temp	70°	Tied in 2017
GLS	3/01	High Min Temp	68°	67° in 2012
GLS	3/04	High Min Temp	69°	69° in 1882
GLS	3/05	High Max Temp	80°	77° in 1880
GLS	3/11	High Max Temp	78°	Tied in 2006
GLS	3/18	High Max Temp	81°	80° in 1972
GLS	3/19	High Max Temp	89°	80° in 1954
GLS	4/02	High Max Temp	80°	Tied in 2012



# GLS: Daily Record Temperature and Precipitation Data

Site	Date	Record Type	New Record	Previous Record
GLS	5/06	High Max Temp	86°	85° in 2012
GLS	5/07	High Max Temp	87°	Tied in 1934
GLS	5/17	High Max Temp	87°	Tied in 2017
GLS	5/19	High Max Temp	87°	Tied in 2017
GLS	5/30	High Min Temp	81°	80° in 2012
GLS	5/31	High Min Temp	81°	Tied in 1989
GLS	6/01	High Min Temp	82°	80° in 1996
GLS	6/10	High Min Temp	83°	82° in 2003
GLS	6/11	High Min Temp	83°	82° in 2012
GLS	6/12	High Min Temp	82°	Tied in 2015
GLS	7/04	Rainfall	2.27"	2.14" in 1942
GLS	10/05	High Min Temp	82°	Tied in 1986
GLS	10/08	High Min Temp	82°	Tied in 1990
GLS	10/13	High Min Temp	79°	Tied in 1962
GLS	10/14	High Min Temp	81°	Tied in 1981
GLS	10/24	Rainfall	4.90"	4.17" in 1883
GLS	11/06	High Max Temp	84°	83° in 2017
GLS	11/07	High Max Temp	84°	83° in 2017
GLS	11/07	High Min Temp	77°	75° in 2017
GLS	11/14	Low Min Temp	37°	37° in 1940
GLS	12/01	High Max Temp	80°	78° in 2012
GLS	12/07	Rainfall	2.03"	1.61" in 1927



# HOU: Daily Record Temperature and Precipitation Data

*There were a total of 28 new records made throughout the year for Houston Hobby.*

Site	Date	Record Type	New Record	Previous Record
HOU	1/16	Low Min Temp	25°	27° in 1972
HOU	1/16	Snowfall	T	0.00” in 2017
HOU	1/17	Low Min Temp	19°	23° in 1965
HOU	1/17	Low Max Temp	37°	38° in 2007
HOU	1/18	Low Max Temp	38°	Tied in 1978
HOU	2/16	High Max Temp	83°	81° in 2016
HOU	2/20	High Min Temp	70°	67° in 2005
HOU	2/24	High Min Temp	72°	70° in 2011
HOU	5/17	High Max Temp	94°	Tied in 1998
HOU	7/04	Rainfall	6.00”	3.04” in 1942
HOU	7/23	High Max Temp	100°	99° in 2000
HOU	7/23	High Min Temp	79°	Tied in 2017
HOU	7/24	High Min Temp	80°	Tied in 2017
HOU	8/22	High Max Temp	100°	Tied in 2011
HOU	8/22	High Min Temp	82°	80° in 2007
HOU	8/23	High Min Temp	81°	80° in 2007
HOU	8/26	High Min Temp	79°	78° in 2014
HOU	9/06	High Min Temp	78°	Tied in 2013
HOU	9/21	High Min Temp	79°	77° in 2005
HOU	10/06	High Max Temp	92°	Tied in 2009
HOU	10/14	High Min Temp	76°	Tied in 2009
HOU	10/16	Low Max Temp	62°	69° in 1943



# HOU: Record Temperature and Precipitation Data

Site	Date	Record Type	New Record	Previous Record
HOU	10/17	Low Max Temp	65°	68° in 1976
HOU	11/06	High Min Temp	74°	73° in 2017
HOU	11/07	High Min Temp	75°	72° in 1989
HOU	11/13	Snowfall	T	0.00” in 2017
HOU	12/07	Rainfall	3.33”	2.22” in 1935
HOU	12/27	Rainfall	1.29”	1.08” in 1934



# IAH: Record Temperature and Precipitation Data

*There were a total of 27 new records made throughout the year for the city of Houston.*

Site	Date	Record Type	New Record	Previous Record
IAH	1/16	Snowfall	0.1"	T in 1953
IAH	2/15	High Min Temp	69°	Tied in 1956
IAH	2/19	High Min Temp	69°	Tied in 1956
IAH	2/20	High Min Temp	71°	69° in 1892
IAH	2/24	High Min Temp	73°	67° in 2011
IAH	3/27	High Min Temp	73°	72° in 1975
IAH	5/14	High Max Temp	93°	Tied in 1995
IAH	5/15	High Max Temp	94°	92° in 2003
IAH	5/16	High Max Temp	94°	93° in 2003
IAH	5/17	High Max Temp	96°	95° in 1894
IAH	6/10	High Min Temp	80°	82° in 2010
IAH	6/11	High Min Temp	80°	Tied in 2012
IAH	6/24	High Min Temp	79°	Tied in 2009
IAH	7/04	Rainfall	4.19"	3.49" in 1942
IAH	7/19	High Min Temp	80°	Tied in 1963
IAH	7/20	High Min Temp	80°	Tied in 1963
IAH	7/22	High Min Temp	80°	Tied in 1995
IAH	7/23	High Min Temp	80°	Tied in 1995
IAH	7/23	High Max Temp	101°	Tied in 1980
IAH	8/19	High Min Temp	80°	Tied in 1968
IAH	8/20	High Min Temp	81°	Tied in 2011

# IAH: Record Temperature and Precipitation Data

Site	Date	Record Type	New Record	Previous Record
IAH	10/16	Low Max Temp	61°	66° in 1903
IAH	10/17	Low Max Temp	64°	67° in 1919
IAH	11/06	High Min Temp	73°	73° in 2017
IAH	11/07	High Max Temp	89°	88° in 2017
IAH	11/13	Snowfall	T	0.00” in 2017
IAH	11/30	High Min Temp	69°	69° in 1991



# CLL: Record Temperature and Precipitation Data

*There were a total of 13 new records made throughout the year for the city of College Station.*

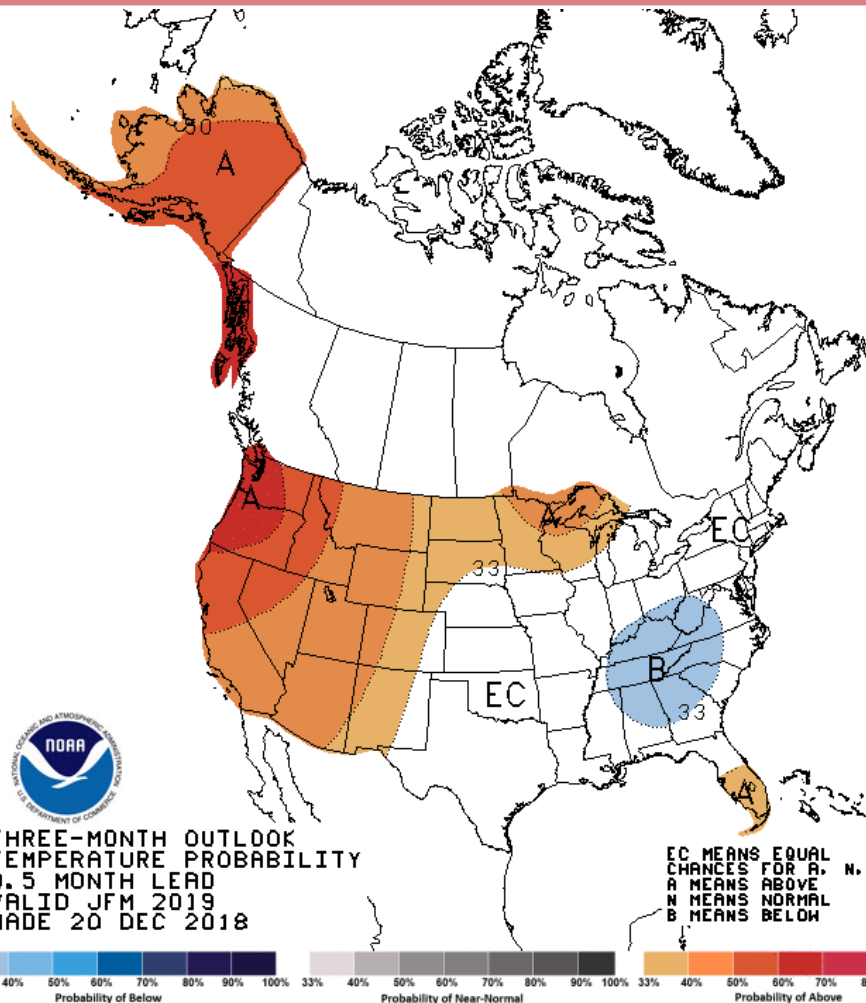
Site	Date	Record Type	New Record	Previous Record
CLL	1/16	Snowfall	T	Tied in 1964
CLL	1/16	Low Min Temp	19°	21° in 1982
CLL	3/16	High Max Temp	85°	84° in 1945
CLL	3/28	Rainfall	4.52"	2.87" in 2006
CLL	7/23	High Max Temp	106°	Tied in 1913
CLL	7/24	High Min Temp	83°	81° in 1914
CLL	10/16	Low Max Temp	56°	61° in 1912
CLL	10/17	Low Max Temp	60°	65° in 1970
CLL	11/13	Low Max Temp	39°	Tied in 1976
CLL	11/13	Snowfall	T	0.00" in 2017
CLL	11/30	High Min Temp	67°	65° in 2014
CLL	12/07	Rainfall	4.01"	1.70" in 1931
CLL	12/27	Rainfall	3.04"	2.77" in 2015



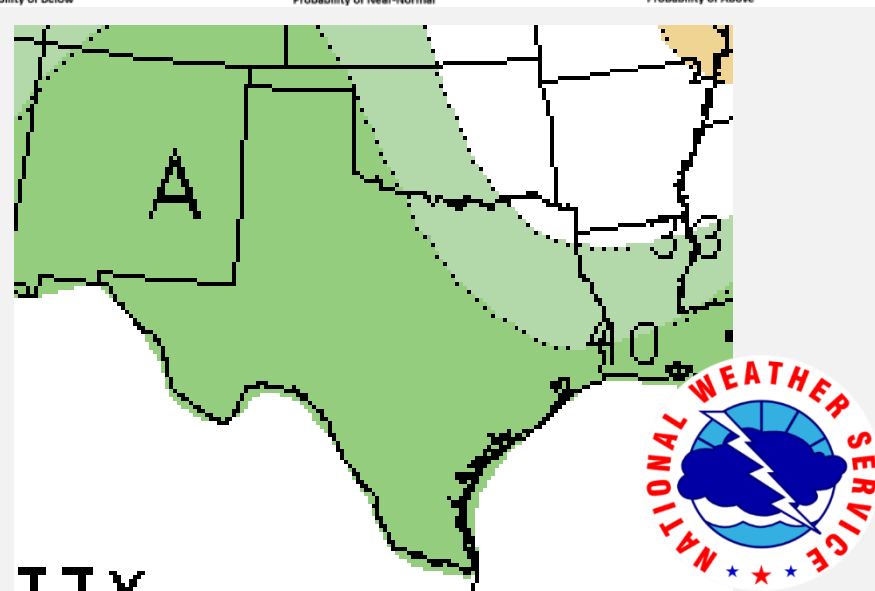
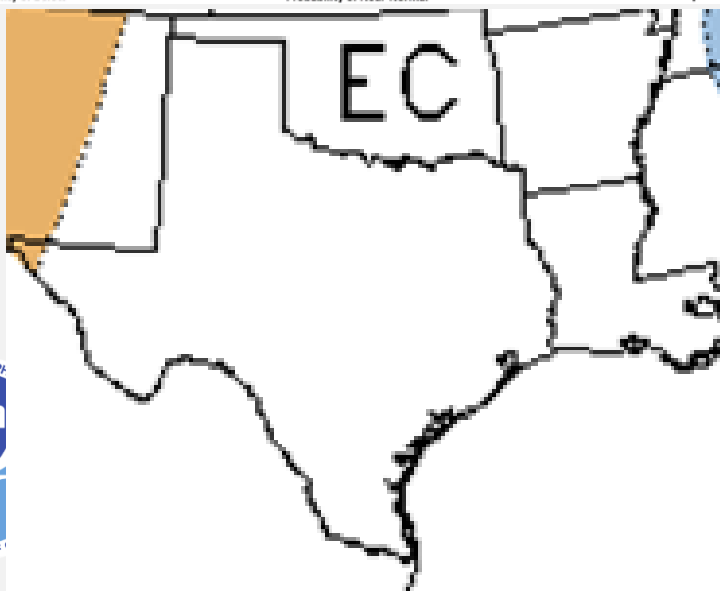
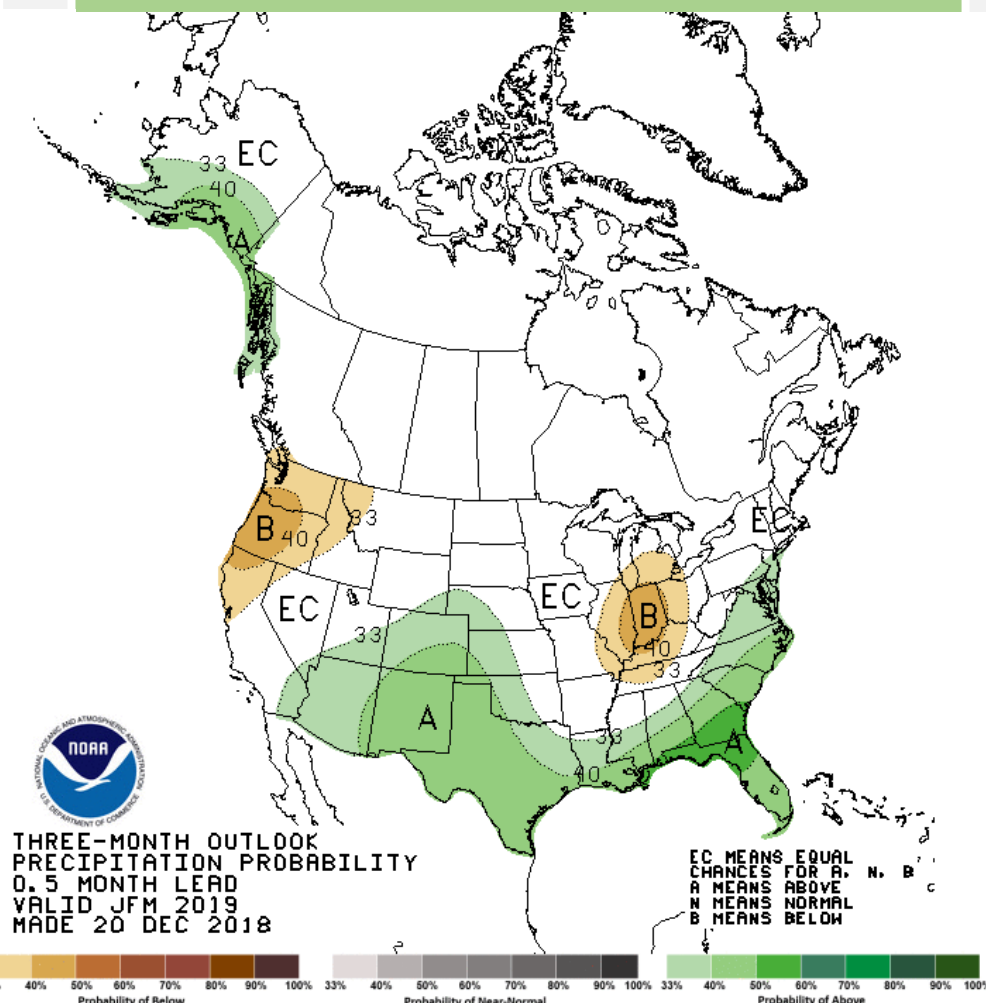
# Three Month Outlook (January through March 2019)

The latest outlook from the Climate Prediction Center (CPC) for the next three months (including January, February, and March) calls for a 33.3% chance of above normal temperatures, a 33.3% chance of near normal temperatures and a 33.3% chance of below normal temperatures across Southeast Texas. The "EC" labeled on the temperature outlook stands for "equal chances." The precipitation outlook calls for a 40% chance of above normal rainfalls, a 33.3% chance of near normal rainfall and a 26.7% chance of below normal rainfall.

## Three Month Temperature Outlook



## Three Month Precipitation Outlook



# Climate Primary Site History

## Galveston (GLS)

*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 Sante 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).*

## Houston Hobby (HOU)

*Records are based upon observations beginning in August 1931.*

## City of Houston (IAH)

*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 .*

## College Station (CLL)

*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.*

