



NWS Houston, Texas 2017 Annual Regional Climate Summary

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... An Overview of 2017...

2017 will long be remembered for the variety of weather the year contained and multitude of hazards residents of Southeast Texas faced. The year contained snowfall and severe storms including the devastating downburst near Sealy and of course, Hurricane Harvey. The city of Houston recorded its warmest and wettest year on record, besting 2012 by a tenth of a degree. The city of Galveston and Houston recorded their warmest years on record and College Station recorded its third warmest year on record. Overall, 2017 brought plenty of record breaking high/low temps, daily rainfall and snowfall totals. A total of 225 records occurred across the four primary climate sites. Per climate site: City of College Station: 27, City of Galveston: 85, Houston Hobby: 69, City of Houston: 44.

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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
СХО	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.

NOAA

Note: Climate data is PRELIMINARY (unofficial). CERTIFIED (official) climate data is available from the National Centers for Environmental Information (NCEI).



Annual Statistics

The tables below reveal the warmest annual average temperatures as well across the four primary climate sites. Additionally, the City of Houston and Houston Hobby records were among the top five wettest annual precipitation totals.

Warmest Annual Average Temperatures for Primary Climate Sites						
City of Houston			College Station			
72.2 2017	74.4 2017	73.3 2017	71.7 2011			
72.1 2012	74.0 2012	72.9 2016	71.7 2012			
71.9 1962	73.2 2016	72.6 2012	71.2 2017			
71.9 2011	72.7 2006	72.4 2011	70.8 2016			
71.7 1933	72.5 2011	71.6 1999	70.3 2006			

Wettest Annual Precipitation for Primary Climate Sites

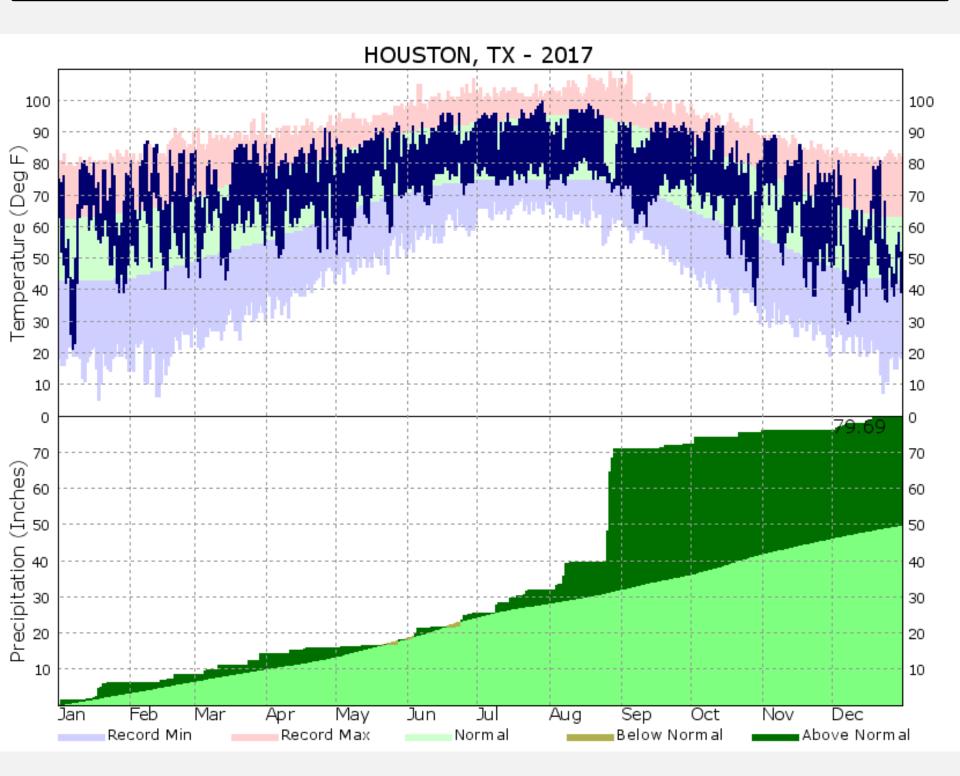
City of Houston	Houston Hobby
79.69 2017	83.02 1979
72.86 1900	82.14 1981
72.38 1919	81.68 2001
71.19 2001	80.59 1973
70.16 1973	79.16 2017





Annual Statistics: City of Houston

The graph below represents the year of 2017 temperature and precipitation data for the City of Houston.

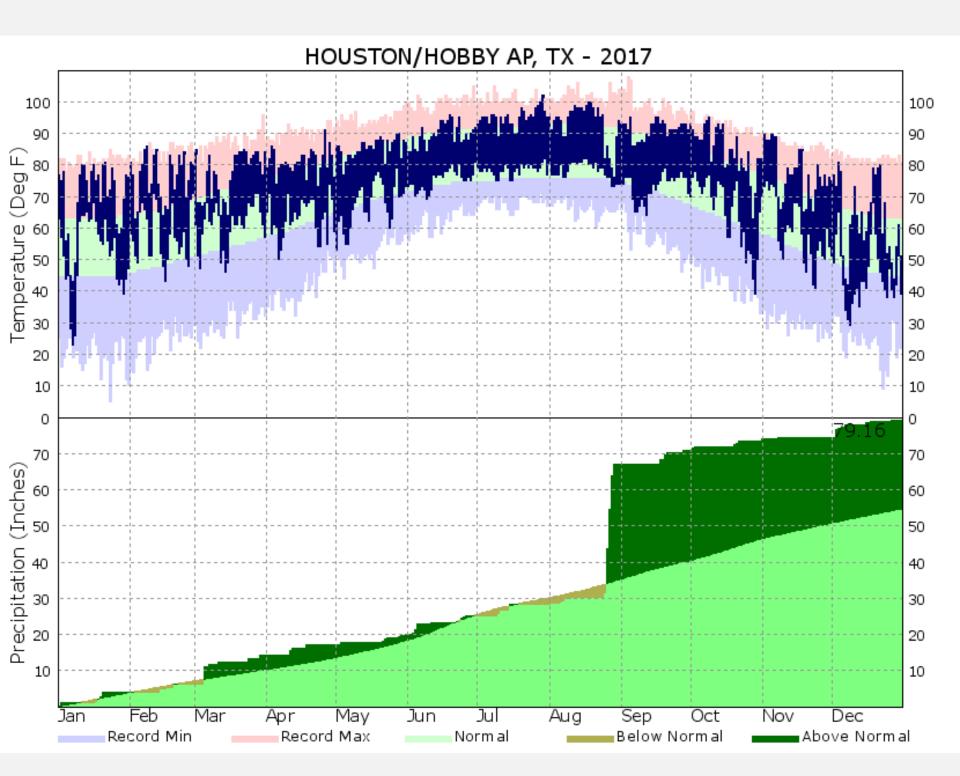






Annual Statistics: Houston Hobby

The graph below represents the year of 2017 temperature and precipitation data for the Houston Hobby.

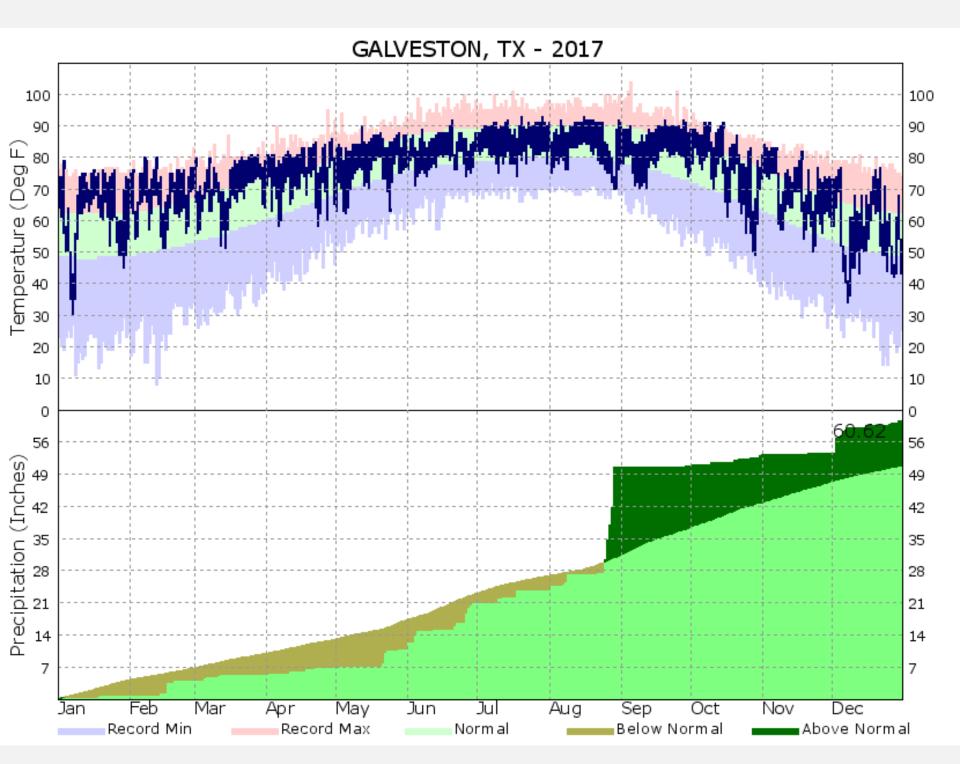






Annual Statistics: City of Galveston

The graph below represents the year of 2017 temperature and precipitation data for the City of Galveston.

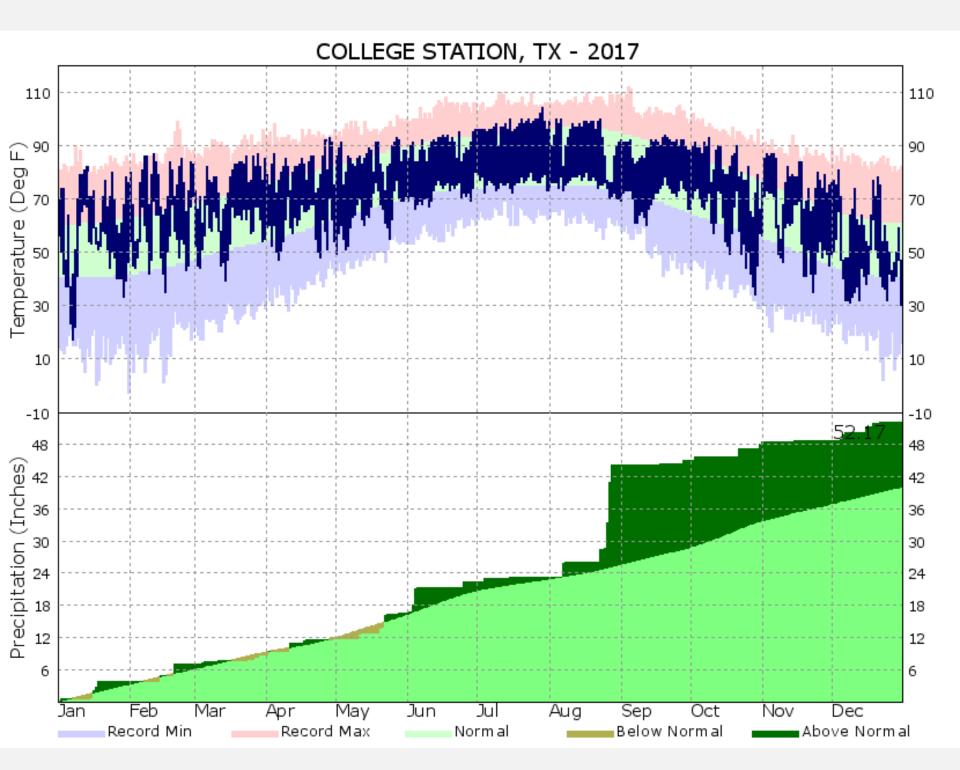






Annual Statistics: City of College Station

The graph below represents the year of 2017 temperature and precipitation data for the City of College Station.







January

January

The weather in January varied greatly with temperatures falling into the upper teens to lower 20's during the first half of the month and then warming into the 80's during the second half of the month. The coldest morning of the year occurred on the morning of the 7th with a low temperature of 15 degrees recorded at Madisonville. The cold snap was short lived and temperatures rebounded quickly and were well above seasonal normals for the last three weeks of the month. Towards the end of the month, the average temperature was six to seven degrees warmer than the 30 year normals. Severe thunderstorms brought strong winds and some minor damage to parts of Houston and Harris counties on the 2nd. Strong storms on the 16th brought a weak and short lived tornado across western Harris County. Additional storms on the 18th brought some minor flooding to Fort Bend and Harris counties.

Site	Avg High	Avg Low	Avg Month	Dep	Rain	Dep
IAH	69.4	50.4	59.9	+ 6.8	6.09	+ 2.71
GLS	69.2	56.0	62.6	+ 7.4	0.89	- 3.31
CLL	66.9	46.9	56.9	+ 5.8	3.70	+ 0.50
HOU	69.8	51.7	60.7	+ 6.6	4.07	+ 0.20
UTS	67.1	48.7	57.9	+ 7.1	4.01	+ 0.19
CXO	68.1	46.4	57.3	+ 6.6	5.07	+ 1.29
DWH	69.2	49.4	59.3	+ 7.8	5.83	+ 2.28
SGR	69.3	49.7	59.5	+ 7.1	8.77	+ 5.17
LVJ	71.5	53.1	62.3	+ 9.0	3.67	- 0.55
HGX	69.3	51.5	60.4	+ 7.8	2.27	- 2.20
LBX	72.2	51.1	61.6	+ 8.0	1.34	- 3.11
PSX	69.8	51.3	60.6	+ 6.3	0.67	- 2.70



February

February

The month was warm, with average temperatures nine to ten degrees warmer than the 30 year normals. High temperatures reached the middle and upper 80's between the 8th and the 11th. Strong storms brought wind damage to parts of Galveston and Harris counties on Valentine's Day. Isolated tornadoes were also reported with this severe weather outbreak over parts of Matagorda, Fort Bend and Brazoria counties. Additionally, the month ended with below normal rainfall totals. The lack of precipitation and above normal temperatures resulted in abnormally dry drought conditions, which persisted throughout much of the month across portions of the coastal and eastern counties of the forecast area.

Site	Avg High	Avg Low	Avg Month	Dep	Rain	Dep
IAH	76.8	56.1	66.5	+10.0	2.42	- 0.78
GLS	73.3	61.9	67.6	+10.0	3.38	+ 0.81
CLL	75.4	53.8	64.6	+10.0	3.26	+ 0.41
HOU	76.2	57.8	67.0	+ 9.7	2.05	- 1.16
UTS	74.9	54.7	64.8	+10.4	3.79	+ 0.73
CX0	75.7	51.5	63.6	+ 9.9	3.03	- 0.23
DWH	77.4	55.5	66.4	+11.3	2.85	- 0.18
SGR	75.8	55.8	65.8	+ 9.8	2.94	- 0.18
LVJ	77.4	58.9	68.2	+11.4	2.57	- 0.61
HGX	74.9	57.5	66.2	+10.1	2.09	- 0.82
LBX	76.4	57.0	66.7	+10.0	2.69	- 0.25
PSX	74.9	57.2	66.1	+ 8.9	2.32	- 0.03





March

March

March was warmer than normal and rainfall varied greatly across the region. The average monthly temperature was between six and seven degrees warmer than the 30 year normals. One moderately strong cold front allowed temperatures the second week of the month to fall below seasonal temperatures by about five degrees. Rainfall was below normal over the northwest half of the region and along the coast, but above normal along the I-69 corridor. Houston Hobby recorded 4.79 inches of rain on the 5th and some minor flooding was reported in southeast Houston. Other hazardous weather developed on the 24th and lingered into the 25th with some minor wind damage in Harris, Montgomery and Polk counties. Overall, abnormally dry drought conditions expanded across the eastern counties such as Liberty, San Jacinto, Polk, Trinity and Houston counties, as well as developed in Madison and Brazos counties.

Site	Avg High	Avg Low	Avg Month	Dep	Rain	Dep
IAH	77.9	58.5	68.2	+ 5.5	5.63	+ 2.22
GLS	75.6	65.5	70.6	+ 7.1	1.27	- 1.89
CLL	76.9	57.5	67.2	+ 5.8	1.76	- 1.41
HOU	77.1	60.8	69.0	+ 5.7	8.15	+ 4.95
UTS	76.9	56.9	66.9	+ 6.3	1.61	- 1.80
CXO	77.2	53.9	65.5	+ 5.2	2.24	- 0.95
DWH	78.2	58.1	68.1	+ 7.3	4.08	+ 0.49
SGR	77.8	59.7	68.8	+ 7.0	5.13	+ 1.88
LVJ	78.5	62.4	70.4	+ 7.9	4.49	+ 1.46
HGX	75.7	60.7	68.2	+ 6.4	2.31	- 0.93
LBX	78.0	60.5	69.2	+ 7.2	2.24	- 1.23
PSX	77.2	62.4	69.8	+ 6.9	1.81	- 1.19
DATMOSPHE						- 1 7





April

April

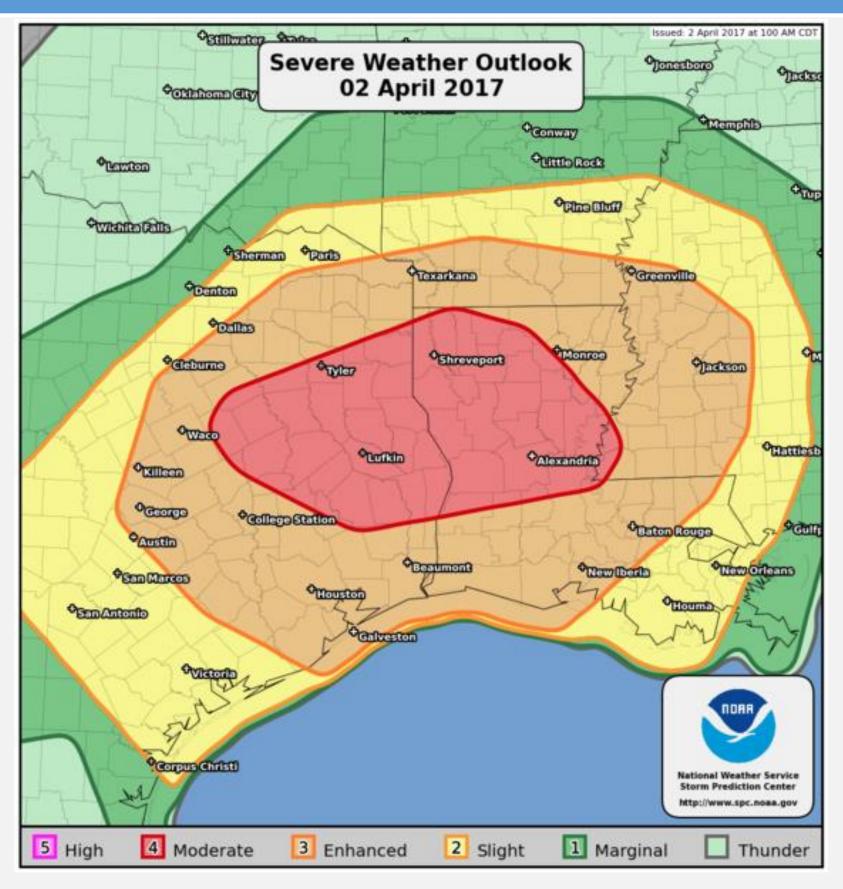
The warmth continued through the month of April, as average temperatures ranged two to five degrees above normal seasonal temperatures. April 2nd brought a moderate risk of severe weather conditions across the northwestern reaches of the forecast area, with enhanced and slight risk conditions across the rest of the region. A marginal risk for severe weather was also forecast to occur on April 18th, bringing showers and thunderstorms across much of SE TX. Drought conditions also improved considerably, with the help of some above normal rainfall which occurred at about half of the climate sites across the region, ending the month with only a small patch of abnormal dryness located over San Jacinto and Polk counties.

Site	Avg High	Avg Low	Avg Month	Dep	Rain	Dep
IAH	82.3	61.2	71.8	+ 2.2	1.68	- 1.63
GLS	80.9	69.0	75.0	+ 4.9	1.36	- 1.69
CLL	81.5	59.2	70.4	+ 1.9	2.92	+ 0.26
HOU	81.0	62.9	72.0	+ 2.1	2.98	- 0.27
UTS	81.3	59.5	70.4	+ 2.4	3.07	+ 0.10
CX0	81.4	56.0	68.7	+ 1.8	2.70	+ 0.03
DWH	82.2	59.8	71.0	+ 3.1	2.17	- 1.22
SGR	83.1	61.4	72.2	+ 3.4	1.79	- 1.53
LVJ	82.8	63.8	73.3	+ 4.3	4.58	+ 1.06
HGX	80.6	62.8	71.7	+ 4.0	7.73	+ 4.42
LBX	82.2	61.3	71.7	+ 3.0	2.86	+ 0.33
PSX	80.9	64.1	72.5	+ 2.6	3.00	+ 0.40
17110						





April Images







May

May

May was the first month of the year to see below normal seasonal average temperatures. A few rainy periods and weak cold fronts helped to keep the monthly average temperatures down across most climate sites. The month started off chilly, as a cooler and drier airmass filtered into the region behind a cold front. Multiple rounds of strong to severe weather also occurred in the beginning of May, placing SE TX under slight to enhanced risk of severe weather on May 4th. A slight risk was also issued for our northwestern counties for May 12th. Additionally, showers, thunderstorms, hail and gusty winds once again occurred May 28th and into on Memorial Day, May 29th. Beneficial rainfall helped ease the drying trend during the mid month period; however, warmer conditions along with lessor amounts of rainfall led to a return of abnormally dry conditions by May 30th. By the end of the month, record breaking warm temperatures returned which aided in the expansion of abnormally dry drought conditions across Houston metro and northwestern counties.

Site	Avg High	Avg Low	Avg Month	Dep	Rain	Dep
IAH	86.5	66.2	76.3	- 0.6	2.41	- 2.68
GLS	84.9	72.9	78.9	+ 1.3	3.98	- 0.34
CLL	85.5	64.0	74.7	- 1.5	4.91	+ 0.58
HOU	85.4	67.4	76.4	- 0.6	2.68	- 2.07
UTS	85.2	64.2	74.7	- 1.4	6.06	+ 1.52
CXO	85.8	61.4	73.6	- 0.8	4.48	- 0.44
DWH	86.2	65.2	75.7	- 0.1	3.83	- 0.94
SGR	87.1	66.7	76.9	+ 0.5	4.94	+ 0.31
LVJ	86.7	68.9	77.8	+ 1.7	4.45	- 0.09
HGX	84.3	67.2	75.7	+ 0.6	4.52	- 0.13
LBX	86.4	67.1	76.7	+ 1.2	4.79	+ 0.76
PSX	83.7	67.6	75.7	- 1.4	3.20	- 1.01





June

June

The start of hurricane season quickly ramped up by middle June. Tropical Storm Cindy developed in the central Gulf of Mexico on Tuesday, June 20th. Tropical Storm Cindy made landfall just east of SE TX on June 22nd, near Sabine Pass on the Texas/Louisiana border. Rainfall across Southeast Texas from Cindy was minimal; although, in the days following, two to four inches of rainfall accumulated across the region associated with this system. The highest storm total rainfall report was measured eighteen miles east of San Leon in Galveston County with a value of 4.33 inches. The lowest pressure recorded was 999 mb at Galveston Scholes Field. Winds varied from 25 to 37 knots as the system made landfall. Overall, minor coastal flooding was the main impact from Cindy, specifically around Galveston Island and Bolivar Peninsula. Despite predominant offshore winds, long period swell and associated wave run up lead to a rise in water level along beaches that faced the Gulf of Mexico. Tropical Storm Cindy helped the month end with near to above normal rainfall over the central and coastal counties.

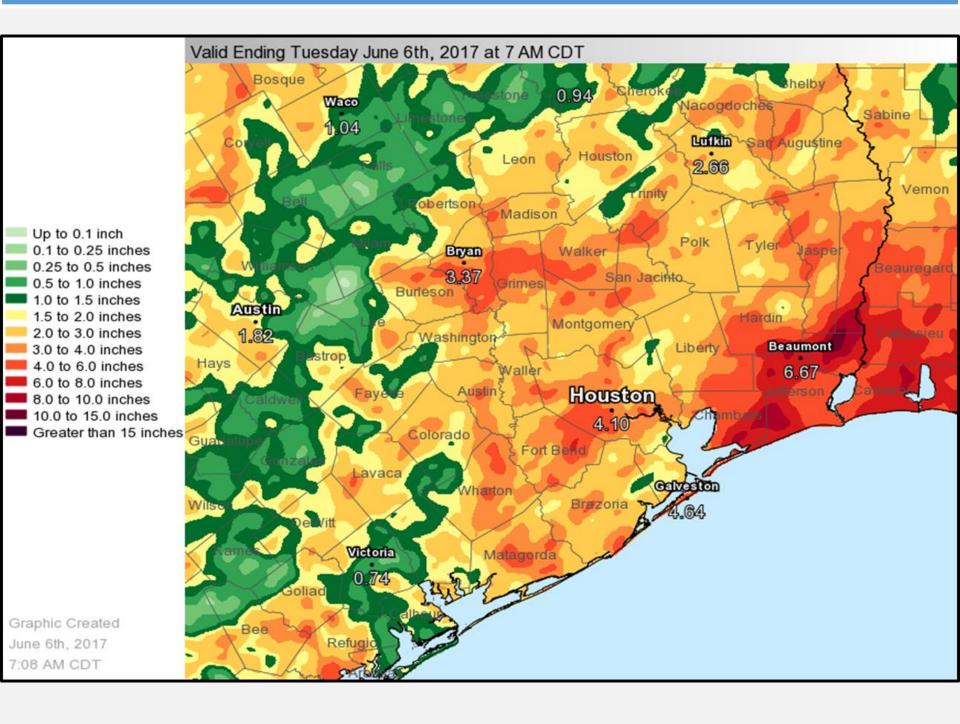
Otherwise, rainfall fell mostly during the first half and last week of the month. A series of upper level systems helped bring generally cooler and rainy periods during the first of the month. Average temperatures ended within 1 degree of normal at most of the reporting climate sites. Drought was not a problem; although, some areas west of metropolitan Houston did see abnormally dry conditions develop for most of the month.

Site	Avg High	Avg Low	Avg Month	Dep	Rain	Dep
IAH	90.4	73.9	82.1	- 0.3	7.19	+ 1.26
GLS	86.1	77.6	81.8	- 1.1	10.24	+ 4.55
CLL	90.0	72.1	81.1	- 1.1	5.76	+ 1.31
HOU	89.7	75.3	82.5	+ 0.5	5.20	- 1.90
UTS	89.8	72.9	81.4	- 0.4	4.00	- 0.81
CXO	89.8	71.1	80.5	+ 0.5	5.19	- 0.39
DWH	90.6	73.6	82.1	+ 1.3	2.23	- 2.99
SGR	91.4	74.8	83.1	+ 1.5	8.52	+ 3.50
LVJ	90.9	76.3	83.6	+ 2.0	4.88	- 0.67
HGX	88.3	74.9	81.6	+ 1.4	6.61	+ 0.18
LBX	90.0	74.8	82.4	+ 1.3	4.59	- 1.08
PSX	86.9	73.5	80.2	- 2.0	9.08	+ 4.59





June Images







July

July

Summer conditions were in full swing for the month of July. Above normal temperatures and sporadic rainfall led to drying conditions west of the Brazos River north of the Interstate 10 corridor. Across most of the reporting sites, the temperatures exceeded the average normal by 1 to 8 degrees. July started with just above normal warmth. Temperatures heated up towards the middle part of the month. By the last week of the month, six out of the eleven first- and secondorder climate sites recorded 100-degree days. The remaining inland sites recorded their monthly highs of 98 and 99 degrees. The warmest day of the month for many locations was on the 29th. Along with these abnormally dry conditions, rainfall totals for the month were also below normal. The month ended with abnormally dry drought conditions covering the northwestern corner of the forecast area for Austin, Burleson, and Washington counties. The passage of a cold front brought relief to the entire area the 31st. Drier dew points behind the front left a fall-like feel in the air.

Site	Avg High	Avg Low	Avg Month	Dep	Rain	Dep
IAH	94.5	76.2	85.3	+ 0.9	6.29	+ 2.50
GLS	90.0	80.2	85.1	+ 0.6	2.66	- 1.14
CLL	97.6	76.0	86.8	+ 2.1	0.79	- 1.35
HOU	95.1	78.3	86.7	+ 2.9	3.12	- 1.54
UTS	95.0	75.7	85.4	+ 1.3	5.71	+ 2.33
CXO	94.6	72.6	83.6	+ 1.0	3.19	- 0.24
DWH	95.1	75.7	85.4	+ 3.3	5.93	+ 2.09
SGR	95.1	76.1	85.6	+ 2.0	4.32	- 0.04
LVJ	94.8	78.2	86.5	+ 3.0	4.79	+ 0.08
HGX	92.2	77.0	84.6	+ 2.6	2.09	- 2.49
LBX	93.1	75.1	84.1	+ 1.8	1.64	- 2.92
PSX	89.3	77.7	83.5	- 0.5	1.23	- 3.53
ATMOSPHERIC						NEA



August

August

The month started with above normal warm temperatures, with heat indices at times reaching between 107-112 degrees on some afternoons in the beginning of the month. Additionally, multiple head advisories were issued. The hazard for the month quickly switched from warm temperatures to tropics as the remnants of Tropical Storm Harvey moved into the southern Gulf of Mexico. By the end of the third week in August, conditions began to look favorable that impacts from Harvey would be felt across SE TX.

Harvey was the longest lasting storm on record after making landfall in Texas with a total lifespan of 117 hours, breaking the previous record of 54 hours during Hurricane Fern in 1971. The National Hurricane Center (NHC) began issuing public advisories for tropical cyclone Harvey on the morning of August 17th, and did not issue the final advisory until the evening of August 30th. Additionally, Hurricane Harvey was the first hurricane to hit the Texas coast since 2008 when Hurricane Ike made landfall in Galveston, Texas, and was the first major hurricane (category 3 or stronger) to make landfall in Texas since Hurricane Bret in 1999. Harvey is also the first named storm on record to make two Gulf Coast landfalls greater than 60 hours apart.





August...Continued

Record rainfall and river flooding associated with Tropical Storm Harvey began on August 25th. Harvey stalled over Southeast Texas for multiple days, producing catastrophic riverine and flash flooding. On August 28th, Harvey shifted south and southeastward back over the northern Gulf of Mexico and continued to slowly move to the northeast, dumping additional rainfall on August 29th and 30th. Harvey maintained tropical storm intensity even after moving offshore and meandering along the Texas coastal bend. Finally, on the morning of August 30th, Harvey made its second landfall in the U.S. (third landfall throughout lifecycle) just west of Cameron, Louisiana. The largest amount of rainfall recorded at a single station during Harvey was 60.58 inches in Nederland, Texas. For the Houston National Weather Service (NWS) Weather Forecast Office (WFO) area, the highest rainfall was 56.00 inches in Friendswood, Texas. The widespread nature of record rainfall led to the catastrophic impacts across Southeast Texas both from riverine and flash flooding. Widespread river flooding occurred with 60 of the 67 official NWS river forecast locations reaching flood stage. Of the 67 forecast points, 46 reached major flood status and 31 sites reached record flood.

Harvey was the main event which generated most of August's monthly rainfall across the area. At the first- and second-order climate sites, the storm's five-day total was over half of the total normal annual rainfall!





August...Continued

Site	Avg High	Avg Low	Avg Month	Dep	Rain	Dep
IAH GLS CLL HOU UTS CXO DWH SGR LVJ HGX LBX	91.3 88.8 93.3 93.2 91.4 90.2 91.1 93.4 92.6 90.4 91.1	76.0 79.0 75.4 78.2 75.2 72.7 75.2 76.0 78.2 76.7 75.7	83.7 83.9 84.4 85.7 83.3 81.5 83.2 84.7 85.4 83.5 83.4	- 0.9 - 1.1 - 0.9 + 1.5 - 1.2 - 1.3 + 0.6 + 1.3 + 2.1 + 1.4 + 0.8	39.11 26.67 21.02 38.87 21.35 24.63 32.71 29.99 37.34 47.69 21.37	+35.35 +22.28 +18.34 +33.81 +18.00 +21.29 +28.01 +25.85 +32.99 +42.52 +17.74
PSX	87.7	75.2	81.5	- 2.8	13.16	+10.20

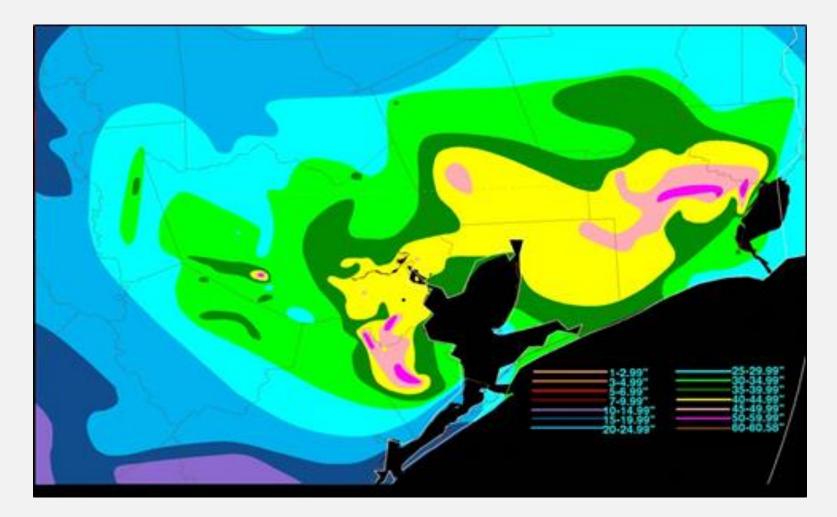
...Harvey Rainfall/Annual Comparison for the Major Climate Sites...

	TS Harvey	Norm Annual	Percent of
Site	Rnfl (inches)	Rainfall	Normal Rnfl
Houston	31.26	49.77	62.8
Galveston	22.84	50.76	45.0
College Station	15.74	40.06	39.3
Hobby Airport	37.01	54.65	67.7
Conroe	21.44	48.49	44.2
Huntsville	19.72	46.14	42.7
DW Hooks	27.01	50.48	53.5
Sugar Land	22.67	49.48	45.8
Angleton	18.48	50.86	36.3
Palacios	7.84	44.59	17.6
Pearland	34.43	52.69	65.3
NWS League City	43.91	56.81	77.3

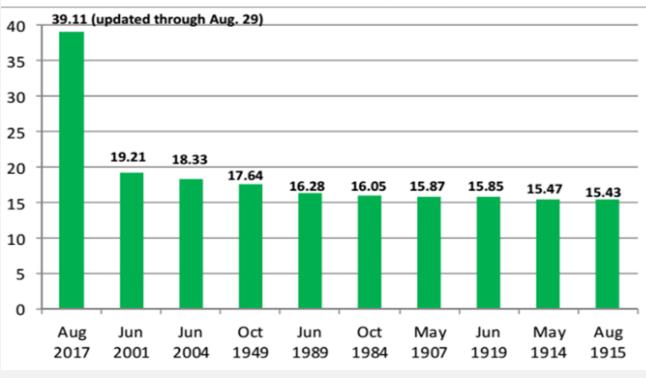




August Images



Houston, Texas Ten Wettest Months on Record (Inches), 1892-2017







September

September

Much below normal rainfall occurred across Southeast Texas during the month of September 2017. However little impacts were noted since the month began with very wet soils and lingering flooding from Tropical Storm Harvey's rainfall at the end of August. Therefore, no drought conditions were experienced across SE Texas throughout September. Other than a two-week period of cool conditions following the season's first real cold front on the 5th and 6th, September ended with temperatures at or slightly above normal for the month.

Site	Avg High	Avg Low	Avg Month	Dep	Rain	Dep
IAH	89.9	69.7	79.8	0.0	1.23	- 2.89
GLS	88.7	77.8	83.2	+ 1.6	0.32	- 5.71
CLL	89.9	70.2	80.1	+ 0.1	0.98	- 2.20
HOU	91.2	73.0	82.1	+ 2.0	3.75	- 1.46
UTS	88.9	68.0	78.5	+ 0.3	0.85	- 2.86
CXO	88.9	65.2	77.1	- 0.3	0.34	- 3.50
DWH	89.7	68.4	79.1	+ 1.1	2.23	- 2.34
SGR	91.4	70.5	80.9	+ 2.0	1.60	- 2.92
LVJ	91.0	72.3	81.6	+ 2.6	2.08	- 3.18
HGX	88.4	70.8	79.6	+ 1.7	1.02	- 6.15
LBX	90.8	73.7	82.3	+ 3.8	0.10	- 5.88
PSX	87.4	69.4	78.4	- 1.6	0.57	- 4.56





October

October

Overall, the month of October brought record breaking warmth across much of Southeast Texas. High temperatures approached records, breaking multiple high max record temperatures across Galveston, Houston Hobby, and the City of Houston. A few cold fronts brought relief from the heat, which moved through the region both in the second and last weeks of the month. Below normal rainfall also occurred across Southeast Texas throughout the month of October. These dry conditions did not result in much drought across the region, due to lingering soil moisture from Tropical Storm Harvey in August. Even throughout the month, annual rainfall amounts were still above the annual normal rainfall for many of the major climate and the COOP sites.

Site	Avg High	Avg Low	Avg Month	Dep	Rain	Dep
IAH	83.4	60.7	72.0	+ 0.5	3.42	- 2.28
GLS	83.4	70.3	76.8	+ 2.5	2.28	- 3.24
CLL	82.5	59.2	70.8	0.0	2.94	- 1.97
HOU	84.8	65.0	74.9	+ 2.8	2.52	- 3.47
UTS	81.7	57.5	69.6	0.0	3.13	- 1.67
СХО	82.1	54.9	68.5	- 0.3	3.63	- 1.57
DWH	83.1	58.9	71.0	+ 0.9	3.84	- 1.46
SGR	84.7	60.7	72.7	+ 1.9	1.96	- 3.27
LVJ	84.7	63.9	74.3	+ 2.9	3.16	- 2.30
HGX	82.7	62.4	72.6	+ 2.8	4.37	- 1.56
LBX	84.6	60.6	72.6	+ 1.8	1.98	- 3.32
PSX	82.9	59.1	71.0	- 1.5	0.40	- 4.58





November

November

Above normal temperatures along with below normal monthly rainfall totals, allowed drought conditions to expand across SE TX in the month of November. Every county within the CWA ended the month under abnormally dry to moderate drought conditions. Average temperatures remained approximately five degrees above normal across the City of Houston, Galveston, College Station and Houston Additionally, this was the City of Galveston 6th warmest, Hobby. Houston Hobby's 4th, City of Houston's 7th, and City of College Station's 3rd warmest November average temperature ever recorded. Multiple weak cold fronts helped to provide the occasional break from the heat. The strongest cold front of the month left below normal temperatures for Thanksgiving day. Additionally, little precipitation left a deficit of 2 to 5 inches for monthly rainfall across the region. Houston Hobby received the most rainfall which was just over an inch over for the entire month. Most of the precipitation recorded for the month occurred on the first day of November.

Site	Avg High	Avg Low	Avg Month	Dep	Rain	Dep
IAH	77.9	56.5	67.2	+ 4.9	0.50	- 3.84
GLS	75.1	63.8	69.5	+ 4.4	0.43	- 4.08
CLL	76.2	55.5	65.9	+ 5.1	0.59	- 2.63
HOU	77.5	59.3	68.4	+ 5.2	1.11	- 3.21
UTS	75.5	54.9	65.2	+ 5.7	0.93	- 3.51
CX0	76.6	52.2	64.4	+ 5.3	0.46	- 4.86
DWH	77.4	55.6	66.5	+ 6.5	0.28	- 4.44
SGR	79.4	57.9	68.7	+ 7.1	0.44	- 4.15
LVJ	78.6	59.6	69.1	+ 6.6	0.93	- 3.85
HGX	76.7	57.9	67.3	+ 5.6	1.26	- 3.65
LBX	78.4	56.6	67.5	+ 5.3	0.43	- 4.10
PSX	77.3	57.7	67.5	+ 3.7	0.47	- 3.49



NOA

December

December

The first week of December brought well above normal temperatures, with maximum daily temperatures reaching up into the upper 70s to lower 80s, just before the first cold front of the month. Cold crisp weather followed suit which allowed for a bit of wintry precipitation. Snow fell across SE TX on December 7th and 8th where a max of 5.0 inches accumulated in College Station, TX. The second week of the month brought slightly below to near normal temperatures, and little to no precipitation fell during this time. As a result, and abnormally dry and severe drought conditions expanded across the region. Decent rain fell with the passing of a wet cold front, which brought one to three inches across SE TX, and helped to improve drought conditions the third week of the month. Finally, another moderately strong cold front ended the year, lowering temperatures to near freezing and bringing periods of very light rain and drizzle.

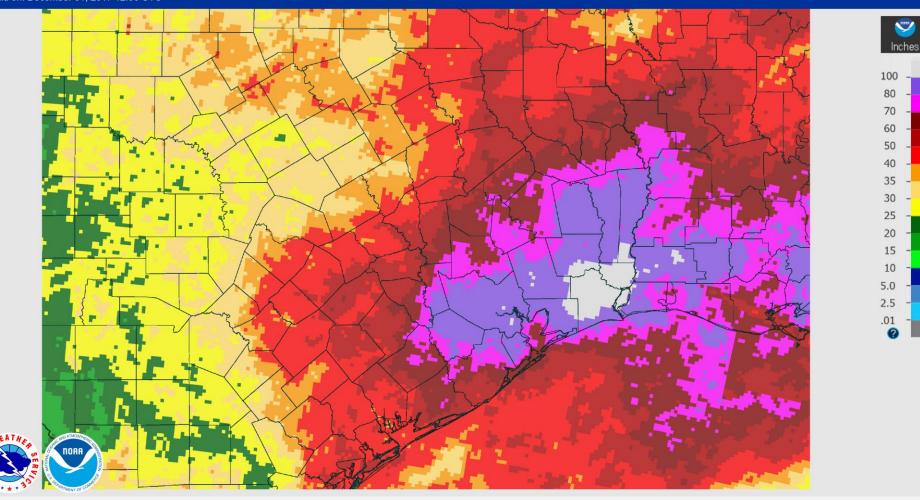
Site	Avg High	Avg Low	Avg Month	Dep	Rain	Dep
IAH	63.4	44.0	53.7	- 0.7	3.72	- 0.02
GLS	64.2	50.5	57.3	0.0	7.14	+ 3.62
CLL	61.5	41.9	51.7	- 0.5	3.50	+ 0.27
HOU	63.2	45.0	54.1	- 1.5	4.66	+ 0.63
UTS	60.9	42.0	51.5	0.0	4.74	+ 0.89
CX0	61.4	39.5	50.5	- 1.2	3.89	- 0.07
DWH	62.9	42.7	52.8	- 0.1	4.26	+ 0.46
SGR	64.7	44.4	54.6	+ 0.5	4.26	+ 0.66
LVJ	63.6	44.5	54.0	- 0.9	2.50	- 1.59
HGX	63.6	44.7	54.1	- 0.2	6.49	+ 2.45
LBX	66.2	45.1	55.7	+ 0.3	3.81	+ 0.04
PSX	65.7	46.1	55.9	0.0	4.45	+ 1.67





Annual Precipitation Totals

December 31, 2017 Year to Date Observed Precipitation Created on: January 01, 2018 - 18:14 UTC Valid on: December 31, 2017 12:00 UTC

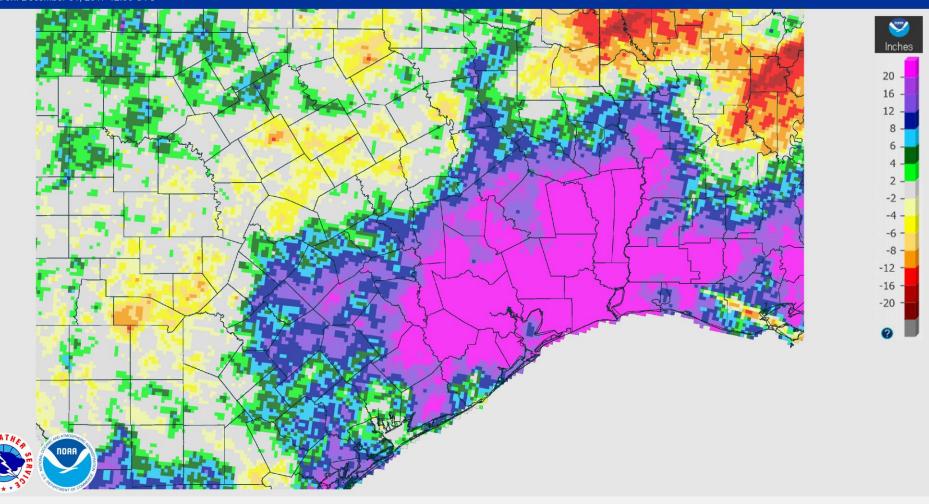






Annual Precipitation Departure

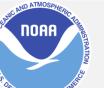
December 31, 2017 Year to Date Departure Precipitation Created on: January 01, 2018 - 18:17 UTC Valid on: December 31, 2017 12:00 UTC







There were d	There were a total of 85 new records made throughout the year of 2017 for the City of Galveston.				
Site	Date	Record Type	New Record	Previous Record	
GLS	Jan. 3 rd	High Max Temp	79	78 in 1989	
GLS	Jan. 10 th	High Max Temp	74	Tied in 1972	
GLS	Jan. 11 th	High Max Temp	75	Tied in 2005	
GLS	Jan. 12 th	High Max Temp	75	Tied in 1880	
GLS	Jan. 15 th	High Max Temp	75	73 in 1950	
GLS	Jan. 16 th	High Min Temp	67	Tied in 1907	
GLS	Jan 16 th	High Max Temp	76	73 in 2000	
GLS	Jan 20 th	High Max Temp	76	74 in 1935	
GLS	Jan 25 th	High Max Temp	76	75 in 1950	
GLS	Feb. 1 st	High Max Temp	75	73 in 1989	
GLS	Feb. 5 th	High Max Temp	75	74 in 1922	
GLS	Feb. 7 th	High Min Temp	68	Tied in 1950	
GLS	Feb. 7 th	High Max Temp	80	76 in 1904	
GLS	Feb 8 th	High Max Temp	79	76 in 1950	
GLS	Feb. 11 th	High Min Temp	68	67 in 1876	
GLS	Feb. 12 th	High Min Temp	68	66 in 1884	
GLS	Feb. 12 th	High Max Temp	80	75 in 1957	
GLS	Feb. 17 th	Daily Rainfall	2.17	1.42 in 1932	
GLS	Feb. 19 th	High Min Temp	69	68 in 1882	
GLS	Feb. 19 th	High Max Temp	75	Tied in 1894	
GLS	Feb. 22 nd	High Max Temp	76	75 in 2006	
GLS	Feb. 24 th	High Max Temp	76	Tied in 1937	



Site	Date	Record Type	New Record	Previous Record
GLS	Feb. 27 th	High Min Temp	69	66 in 1999
GLS	Feb. 28 th	High Min Temp	70	Tied in 1995
GLS	Mar. 1 st	High Max Temp	80	79 in 2007
GLS	Mar. 6 th	High Min Temp	69	68 in 1918
GLS	Mar. 23 rd	High Min Temp	71	Tied in 1907
GLS	Mar. 24 th	High Min Temp	72	71 in 1921
GLS	Mar. 25 th	High Min Temp	72	Tied in 1907
GLS	Mar. 25 th	High Max Temp	81	Tied in 2005
GLS	Mar. 26 th	High Max Temp	80	Tied in 2012
GLS	Mar. 27 th	High Min Temp	73	Tied in 1907
GLS	Mar. 28 th	High Min Temp	74	73 in 1907
GLS	Mar. 29 th	High Min Temp	73	Tied in 1907
GLS	Apr. 1 st	High Max Temp	81	Tied in 1935
GLS	Apr. 2 nd	High Max Temp	80	Tied in 2012
GLS	Apr. 10 th	High Min Temp	74	Tied in 1927
GLS	Apr. 16 th	High Min Temp	75	Tied in 1908
GLS	Apr. 17 th	High Max Temp	83	Tied in 1918
GLS	Apr. 19 th	High Min Temp	75	74 in 1995
GLS	Apr. 19 th	High Max Temp	83	Tied in 2011
GLS	Apr. 20 th	High Max Temp	83	Tied in 2006
GLS	Apr. 21 st	High Min Temp	76	74 in 2002
GLS	Apr. 22 nd	High Max Temp	85	Tied in 2006
GLS	Apr. 26 th	High Max Temp	84	Tied in 2011



Site	Date	Record Type	New Record	Previous Record
GLS	Apr. 28 th	High Min Temp	77	76 in 2002
GLS	Apr. 29 th	High Min Temp	79	77 in 2002
GLS	May 12 th	High Max Temp	90	87 in 2009
GLS	May 17 th	High Max Temp	87	Tied in 2012
GLS	May 19 th	High Min Temp	80	78 in 2015
GLS	May 19 th	High Max Temp	87	Tied in 2008
GLS	May 20 th	High Min Temp	80	79 in 2015
GLS	May 27 th	High Min Temp	81	80 in 2000
GLS	July 5 th	High Min Temp	83	Tied in 2016
GLS	July 24 th	High Min Temp	83	Tied in 2016
GLS	Aug. 14 th	High Min Temp	84	Tied in 2010
GLS	Aug. 15 th	High Min Temp	84	Tied in 2012
GLS	Aug. 16 th	High Min Temp	85	Tied in 2012
GLS	Aug. 17 th	High Min Temp	84	Tied in 2014
GLS	Aug. 18 th	High Min Temp	84	Tied in 2014
GLS	Aug. 26 th	Daily Rainfall	4.12	2.06 in 1953
GLS	Aug. 28 th	Low Max Temp	80	81 in 1934
GLS	Aug. 29 th	Low Min Temp	70	Tied in 1986
GLS	Aug. 29 th	Low Max Temp	74	81 in 1986
GLS	Aug. 29 th	Daily Rainfall	8.64	4.61 in 1953
GLS	Aug. 30 th	Low Min Temp	70	Tied in 1946
GLS	Sep 20 th	High Min Temp	83	Tied in 1900
	Sep 25 th	High Min Temp	82	Tied in 1998



Site	Date	Record Type	New Record	Previous Record
GLS	Oct. 3 rd	High Min Temp	83	82 in 1990
GLS	Oct. 7 th	High Max Temp	91	Tied 1900
GLS	Oct. 8 th	High Max Temp	90	89 in 1892
GLS	Oct. 9 th	High Min Temp	82	80 in 1982
GLS	Oct. 9 th	High Max Temp	91	89 in 2007
GLS	Oct. 12 th	High Max Temp	88	87 in 2015
GLS	Oct. 14 th	High Max Temp	90	89 in 2015
GLS	Oct. 15 th	High Max Temp	91	88 in 2007
GLS	Oct. 21 st	High Max Temp	87	Tied 1927
GLS	Nov. 5 th	High Min Temp	75	Tied in 1946
GLS	Nov. 5 th	High Max Temp	83	Tied in 1886
GLS	Nov. 6 th	High Max Temp	83	Tied in 2005
GLS	Nov. 7 th	High Min Temp	75	Tied in 1915
GLS	Nov. 7 th	High Max Temp	83	Tied in 1995
GLS	Dec. 8 th	Low Max Temp	41	42 in 1927
GLS	Dec. 8 th	Daily Snowfall	Т	0.0 in 2016
GLS	Dec. 22 nd	High Max Temp	77	74 in 2007

There were	There were a total of 69 new records made throughout the year of 2017 for the Houston Hobby.				
Site	Date	Record Type	New Record	Previous Record	
HOU	Jan. 11 th	High Max Temp	80	Tied in 2005	
HOU	Jan. 12 th	High Max Temp	80	Tied in 2000	
HOU	Jan. 16 th	High Min Temp	68	66 in 1932	
HOU	Jan. 21 st	High Max Temp	81	79 in 1969	
HOU	Feb. 1 st	High Max Temp	81	Tied in 1989	
HOU	Feb. 5 th	High Min Temp	65	Tied in 1957	
HOU	Feb. 6 th	High Min Temp	68	Tied in 1999	
HOU	Feb. 7 th	High Max Temp	85	82 in 1950	
HOU	Feb. 8 th	High Max Temp	86	83 in 1962	
HOU	Feb. 11 th	High Min Temp	71	65 in 1984	
HOU	Feb. 11 th	High Max Temp	83	80 in 1999	
HOU	Feb. 12 th	High Min Temp	69	63 in 1952	
HOU	Feb. 12 th	High Max Temp	85	82 in 1962	
HOU	Feb. 19 th	High Min Temp	68	67 in 1956	
HOU	Feb. 24 th	High Max Temp	84	83 in 2008	
HOU	Feb. 27 th	High Min Temp	69	Tied in 2011	
HOU	Feb. 28 th	High Min Temp	71	65 in 1981	
HOU	Mar. 1 st	High Max Temp	85	84 in 1976	
HOU	Mar. 20 th	High Max Temp	84	83 in 1980	
HOU	Mar. 21 st	High Max Temp	84	Tied in 1982	
HOU	Apr. 2 nd	High Min Temp	71	Tied in 2014	
HOU	Apr. 10 th	High Min Temp	71	Tied in 2011	



Site	Date	Record Type	New Record	Previous Record
HOU	May 18 th	High Min Temp	77	Tied in 2015
HOU	May 19 th	High Min Temp	78	77 in 1990
HOU	May 27 th	High Min Temp	79	78 in 1996
HOU	June 20 th	High Min Temp	80	Tied in 2011
HOU	June 30 th	High Min Temp	81	79 in 2013
HOU	July 13 th	High Min Temp	80	Tied in 2016
HOU	July 20 th	High Min Temp	80	79 in 1980
HOU	July 22 nd	High Min Temp	80	79 in 2008
HOU	July 23 rd	High Min Temp	79	Tied in 2016
HOU	July 24 th	High Min Temp	80	79 in 2016
HOU	July 26 th	High Min Temp	79	Tied in 2011
HOU	July 27 th	High Max Temp	99	Tied in 1965
HOU	July 28 th	High Min Temp	79	Tied 2011
HOU	July 29 th	High Min Temp	81	80 in 2009
HOU	July 29 th	High Max Temp	102	100 in 2015
HOU	Aug. 1 st	High Min Temp	80	Tied in 2009
HOU	Aug. 6 th	High Min Temp	80	Tied in 2011
HOU	Aug. 11 th	High Min Temp	81	Tied in 2007
HOU	Aug. 14 th	High Min Temp	81	80 in 2015
HOU	Aug. 15 th	High Min Temp	81	80 in 2010
HOU	Aug. 16 th	High Min Temp	82	79 in 2012
HOU	Aug. 17 th	High Min Temp	82	79 in 2012



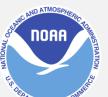


Site	Date	Record Type	New Record	Previous Record
HOU	Aug. 19 th	High Min Temp	80	Tied in 2011
HOU	Aug. 21 st	High Min Temp	81	79 in 2014
HOU	Aug. 26 th	Daily Rainfall	12.07	3.33 in 1959
HOU	Aug. 28 th	Low Max Temp	79	Tied in 2001
HOU	Aug. 28 th	Daily Rainfall	9.41	1.09 in 1969
HOU	Aug. 29 th	Low Max Temp	76	78 in 2001
HOU	Oct 3 rd	High Min Temp	78	Tied in 2005
HOU	Oct 9 th	High Min Temp	77	75 in 2007
HOU	Oct 9 th	High Max Temp	95	93 in 1962
HOU	Oct 15 th	High Max Temp	93	92 in 2015
HOU	Oct 29 th	High Min Temp	39	42 in 1952
HOU	Nov. 2 nd	High Min Temp	73	72 in 2000
HOU	Nov. 2 nd	High Max Temp	90	88 in 2016
HOU	Nov. 3 rd	High Min Temp	75	72 in 2016
HOU	Nov. 4 th	High Max Temp	88	Tied in 1988
HOU	Nov. 5 th	High Min Temp	74	71 in 2015
HOU	Nov. 5 th	High Max Temp	90	87 in 2005
HOU	Nov. 6 th	High Min Temp	73	72 in 2015
HOU	Nov. 6 th	High Max Temp	89	88 in 1963
HOU	Nov. 7 th	High Max Temp	89	87 in 1973
HOU	Nov. 17 th	High Max Temp	85	Tied in 2013
HOU	Dec. 7 th	Daily Snowfall	1.0	0.0 in 2016





Site	Date	Record Type	New Record	Previous Record
HOU	Dec. 8 th	Low Max Temp	42	Tied in 2005
HOU	Dec. 8 th	Daily Snowfall	0.5	0.0 in 2016
HOU	Dec. 19 th	High Min Temp	68	Tied in 1970





There were a total of 44 new records made throughout the year of 2017 for the Houston Hobby.				
Site	Date	Record Type	New Record	Previous Record
IAH	Jan. 12 th	High Max Temp	81	Tied in 2000
IAH	Jan 16 th	High Min Temp	67	66 in 1935
IAH	Feb. 6 th	High Max Temp	81	Tied in 1911
IAH	Feb. 7 th	High Max Temp	86	80 in 1957
IAH	Feb. 8 th	High Max Temp	87	82 in 1932
IAH	Feb. 11 th	High Min Temp	71	66 in 1957
IAH	Feb. 11 th	High Max Temp	85	82 in 1999
IAH	Feb. 12 th	High Min Temp	69	65 in 1952
IAH	Feb. 12 th	High Max Temp	86	84 in 1922
IAH	Feb. 28 th	High Min Temp	73	68 in 1917
IAH	Mar. 1 st	High Max Temp	84	Tied in 1975
IAH	Mar. 6 th	High Min Temp	69	Tied in 1961
IAH	Apr. 4 th	High Max Temp	88	Tied in 1897
IAH	Apr. 26 th	High Max Temp	91	Tied in 1988
IAH	May 18 th	High Min Temp	78	77 in 1981
IAH	May 19 th	High Min Temp	78	77 in 1990
IAH	May 27 th	High Min Temp	80	Tied in 1996
IAH	June 30 th	High Min Temp	80	Tied in 1994
IAH	July 24 th	High Min Temp	80	Tied in 1995
IAH	Aug. 8 th	Daily Rainfall	3.61	1.66 in 1920
IAH	Aug. 14 th	High Min Temp	81	Tied in 1951





Site	Date	Record Type	New Record	Previous Record
IAH	Aug. 16 th	High Min Temp	82	80 in 2014
IAH	Aug. 17 th	High Min Temp	81	80 in 1968
IAH	Aug. 26 th	Daily Rainfall	8.37	1.66 in 1959
IAH	Aug. 27 th	Low Max Temp	77	78 in 1945
IAH	Aug. 27 th	Daily Rainfall	16.07	8.32 in 1945
IAH	Aug. 28 th	Low Max Temp	74	79 in 1936
IAH	Aug. 28 th	Daily Rainfall	4.00	3.88 in 1915
IAH	Aug. 29 th	Low Max Temp	75	76 in 1895
IAH	Oct 9 th	High Max Temp	94	93 in 2007
IAH	Oct 15 th	High Max Temp	92	Tied 2015
IAH	Oct 29 th	Low Min Temp	35	39 in 1910
IAH	Nov. 2 nd	High Min Temp	73	71 in 1946
IAH	Nov. 3 rd	High Min Temp	74	Tied in 1994
IAH	Nov. 5 th	High Min Temp	73	71 in 1922
IAH	Nov. 5 th	High Max Temp	88	Tied in 1963
IAH	Nov. 6 th	High Min Temp	73	71 in 1989
IAH	Nov. 6 th	High Max Temp	89	88 in 1963
IAH	Nov. 7 th	High Max Temp	88	Tied in 1969
IAH	Nov. 17 th	High Max Temp	86	85 in 2013
IAH	Nov. 18 th	High Max Temp	84	Tied in 1973





Site	Date	Record Type	New Record	Previous Record
IAH	Dec. 7 th	Daily Snowfall	0.1	0.0 in 2016
IAH	Dec. 8 th	Daily Snowfall	0.6	0.0 in 2016
IAH	Dec. 22 nd	High Max Temp	81	Tied in 1981





There were a total of 26 new records made throughout the year of 2017 for the Houston Hobby.

Site	Date	Record Type	New Record	Previous Record
CLL	Jan. 6 th	Daily Snowfall	т	0.00 in 2016 (COOP) 0.00 in 1951 (Arpt)
CLL	Jan. 12 th	High Min Temp	68	67 in 1906 (COOP) 66 in 1960 (Arpt)
CLL	Jan. 12 th	High Max Temp	81	79 in 1911 (COOP) 80 in 2000 (Arpt)
CLL	Jan. 13 th	High Max Temp	82	78 in 1911 (COOP) 79 in 1952 (Arpt)
CLL	Feb. 6 th	High Min Temp	67	63 in 1911 (COOP) 67 in 1999 (Arpt)
CLL	Feb. 7 th	High Max Temp	86	81 in 1911 (COOP) 83 in 1999 (Arpt)
CLL	Feb. 8 th	High Max Temp	86	80 in 1950 (COOP) 82 in 1994 (Arpt)
CLL	Feb. 11 th	High Min Temp	69	63 in 1952 (COOP) 67 in 1984 (Arpt)
CLL	Feb.11 th	High Max Temp	85	84 in 1922 (COOP) 80 in 1976 (Arpt)
CLL	Feb. 19 th	High Min Temp	68	66 in 1917 (COOP) 64 in 1994 (Arpt)
CLL	Feb. 27 th	High Min Temp	67	66 in 1951 (COOP) Tied 2011 (Arpt)
CLL	Feb. 28 th	High Min Temp	71	67 in 1950 (COOP) 65 in 2007 (Arpt)





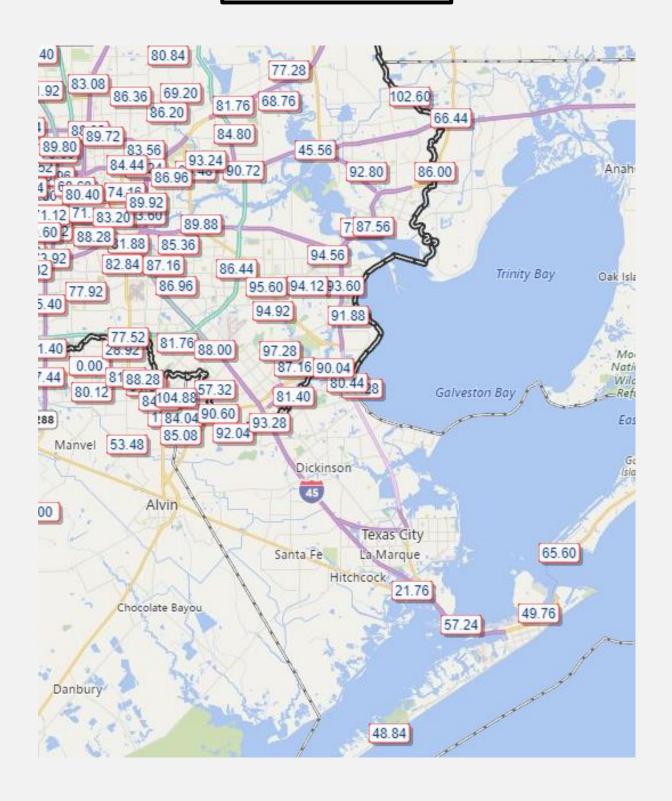
Site	Date	Record Type	New Record	Previous Record
CLL	May 18 th	High Min Temp	76	75 in 1927
CLL	May 22 nd	Rainfall	2.20	1.76 in 1940
CLL	May 22 nd	Low Max Temp	73	74 in 1997
CLL	May 24 th	Low Min Temp	55	Tied in 1940
CLL	May 27 th	High Min Temp	77	Tied in 1924
CLL	July 3 rd	High Min Temp	78	Tied 1972
CLL	Aug. 7 th	Daily Rainfall	2.62	1.40 in 1945
CLL	Aug. 26 th	Low Max Temp	77	Tied in 1959
CLL	Aug. 27 th	Low Max Temp	76	78 in 1923
CLL	Aug. 27 th	Daily Rainfall	7.45	1.35 in 1977
CLL	Aug. 28 th	Daily Rainfall	3.30	2.68 in 1915
CLL	Nov. 5 th	High Min Temp	72	Tied in 2015
CLL	Nov. 18 th	High Max Temp	84	Tied in 1986
CLL	Dec. 7 th	Daily Snowfall	5.0	0.0 in 2016
CLL	Dec. 31 st	Daily Snowfall	Т	Tied in 1990





Some of the following gauge totals may be misrepresented. Neither the Harris County Flood Control District nor Harris County represents the data as 100 percent accurate.

Southeast Houston







Some of the following gauge totals may be misrepresented. Neither the Harris County Flood Control District nor Harris County represents the data as 100 percent accurate.

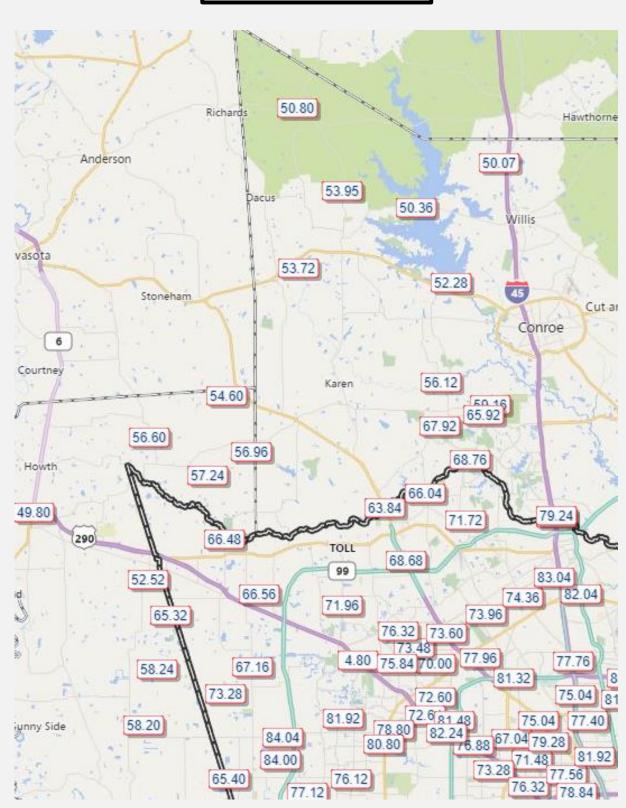
Southwest Houston

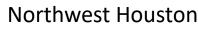
73,481 77.96 77.76 4.80 75.84 70.00 67.16 58.24 83.1 81.32 73.28 75.04 72.60 81.8 72.6_{81.48} 0 82.24 81.92 75.04 77.40 58.20 inny Side 78.80 6.88 67.04 79.28 84.04 80.80 8 84.00 81.92 1.48 73.28 77.5665.40 76.12 76.32 78.84 77.12 1 81.96 78.68 24 86 89.80 85.68 76.12 Brookshire 87.12 86.64 85 80 83.36 55.64 85.24 4.84 84.40 71.791.12 80 90.92 77.52 80 77.72 82.04 81.00 84.44 79.60 12 80.60 2 73.68 87.44 81.80 80.64 73,92 84.12 79.36 78.32 77.44 86.80 77 81.28 84.92 75.40 Wallis Pecan Grove 88.92 71.00 82.5 0.20 69.0(77.00 71.40 Richmond 78 0.12 19.00 77.44 Tavener Fresno 8 0.00 Arcola 288 Pleak 43.96 Man Rowell Point 0.00 0.00 16.36 Needville igerford ochridge ton Newgulf



SHEER OF COMMENSATION

Some of the following gauge totals may be misrepresented. Neither the Harris County Flood Control District nor Harris County represents the data as 100 percent accurate.

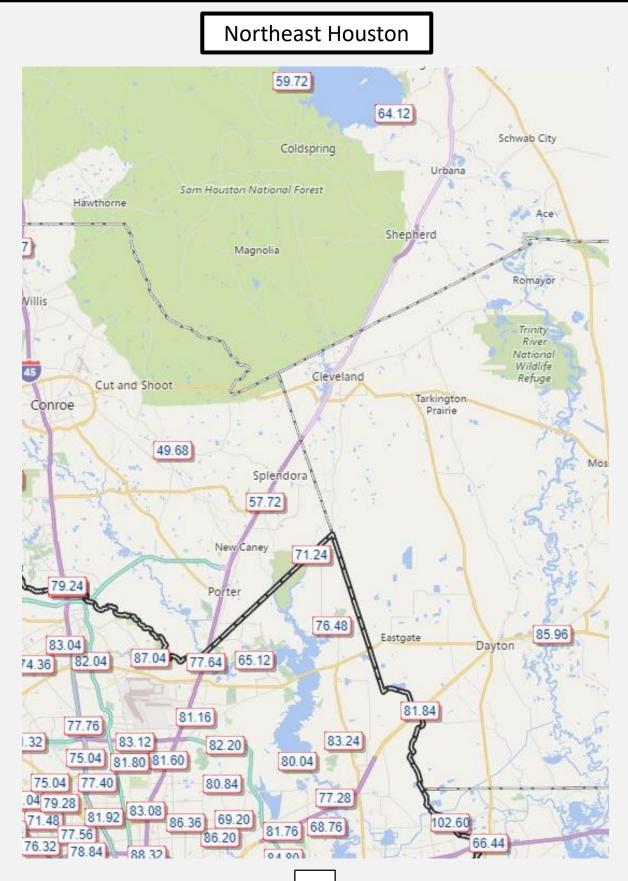








Some of the following gauge totals may be misrepresented. Neither the Harris County Flood Control District nor Harris County represents the data as 100 percent accurate.





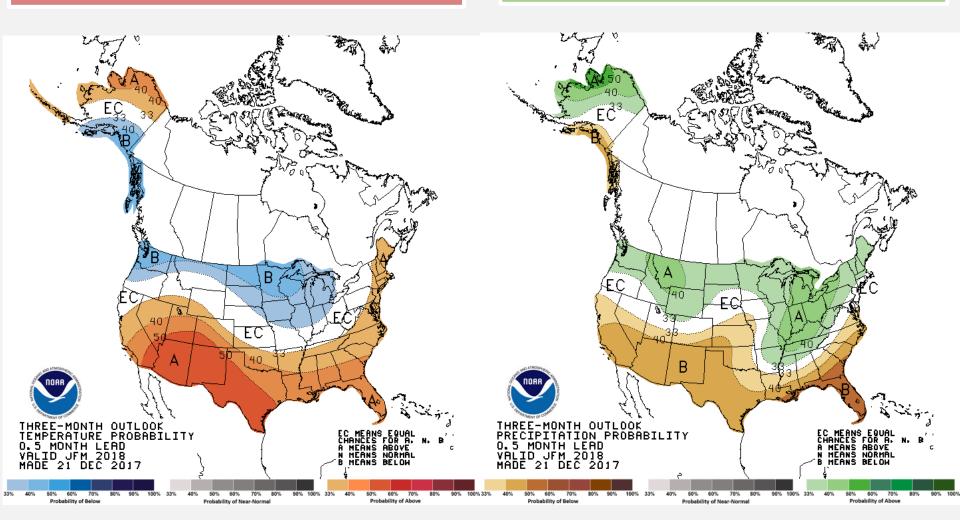


Three Month Outlook

The latest outlook from the Climate Prediction Center (CPC) calls for an increased likelihood of above normal temperatures and below normal precipitation for the next three month including January, February, and March.

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), onequarter 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.

NOAA

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 \$981 to 2000 period.

