Flood Risk Assessment Week of September 23, 2019



Forecast

No Forecast

8.40

11.00

No Forecast

93.50

10.20

6.70

Drought

Cond. (09/17)

Moderate

Moderate

Moderate

Moderate

Abnormally Dr

Cur. Category

Below Action

YTD Normal

(Thru Sept.)

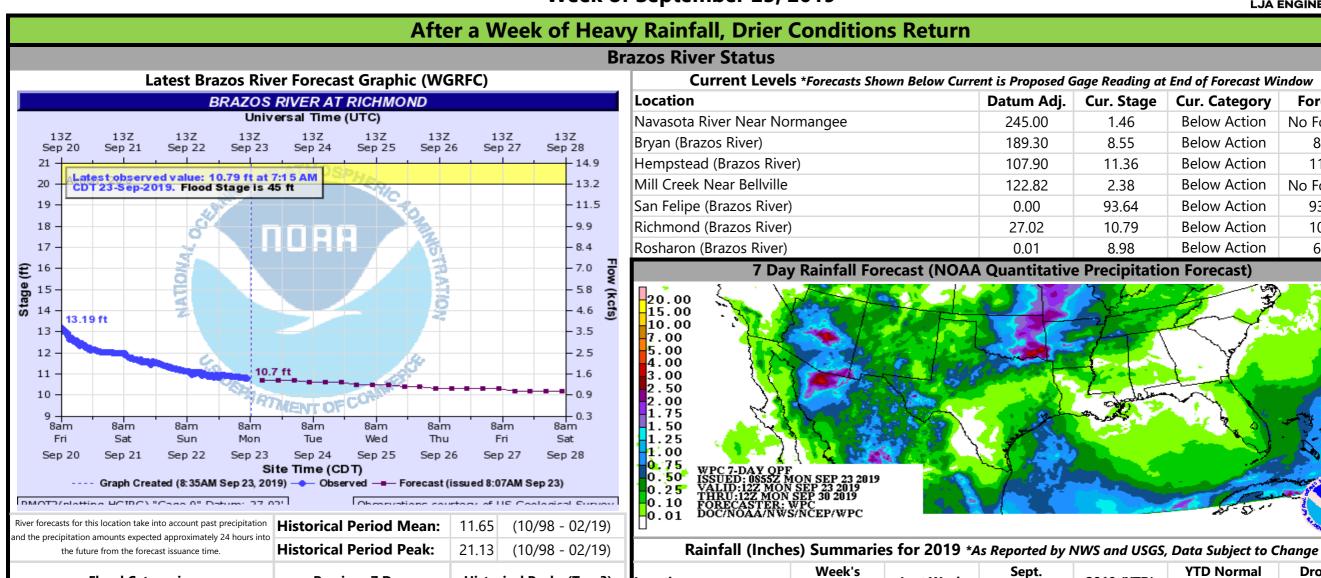
28.70

32.35

34.91

36.86

35.99



Historical Peaks (Top 3)

High: 61.20 (12/10/1913)

55.19 (09/01/2017)

54.74 (06/02/2016)

Bush Interc. (NOAA) **Weekly Weather Forecast**

College Station (NOAA)

Brenham (NOAA)

Richmond (USGS)

Sugar Land (NOAA)

Location

7 Day Weather Forecast (WeatherUnderground for Richmond) Mon 9/23 Tue 9/24 Wed 9/25 Thu 9/26 Sun 9/29 Mon 9/30 Tue 10/1 Wed 10/2 87° | 73°F 90° | 70°F 90° | 69°F 89° | 72°F 88° | 74°F 86° | 76°F 88° | 75°F 87° | 73°F 87° | 72°F Mostly Sunr Mostly Sunny Mostly Sunny Mostly Sunny Scattered Scattered Partly Cloudy Mostly Sunn Partly Cloudy Thunderstorms 0.02 in 0 in 0 in 0 in 0.11 in 0.08 in 0 in 0 in 9 AM⁷ in 90 F 80 F 70 F Temperature (°F) 00% 75% 5096 25% 096 Chance of Precip. (%) Chance of Snow (%) 0.4 0.2 0 in (9 AM:00-10 AM:00) Below Gage Elevation 11 Richmond Daily Forecasted Peak WSE

Previous 7 Days

10.79 Current Reading

11.53 Average Reading

15.29 Peak Reading

Flood Categories

48

45

20

Major Flood Stage

Moderate Flood Stage

Flood Stage

Action Stage

Low Stage

NWS Forecast Discussion

2019 (YTD)

28.79

20.76

29.31

38.81

43.23

(MTD)

2.21

2.01

6.18

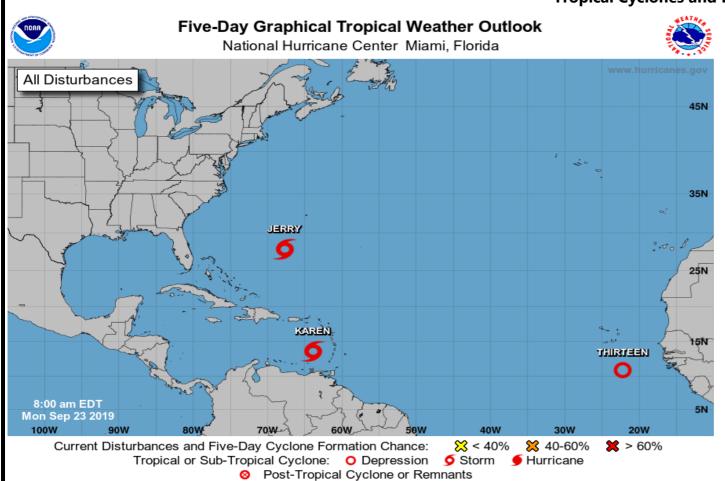
7.75

14.29

Radar imagery is continuing to show some streamer shower development over the Gulf waters this morning. Anticipate coverage of showers and isolated thunderstorms to increase throughout the morning and through the afternoon hours. Short term models such as the ARW, TT WRF, and HRRR have also showed stronger development of storms around Galveston Bay by mid morning and into the afternoon hours. This better coverage of storms looks to once again develop along an axis of moisture convergence. The GOES-16 total precipitable water field shows up to 2.0 inches across the Gulf waters and along this axis that stretches into portions of Brazoria, Galveston, and Chambers counties this morning. In general, anticipate most of the precipitation to fill in further inland through the afternoon hours. Best coverage should be along and south of a line from Washington to Montgomery to Polk County. Brief heavy downpours, frequent lightning, and gusty winds look possible with the stronger storms that develop. Additionally, an Areal Flood Warning remains in effect through late morning across portions of Harris, Liberty, and Chambers counties, so any additional rainfall over these location will only delay any improvements to flood conditions...[Tuesday Through Monday Evening]... Upperlevel ridging broadly situated over the central U.S. will be the main force driving a dry start to the week, which will be characterized by moderate onshore flow and high temperatures in the high 80s to low 90s. Global model guidance is currently in good agreement that climatologically low precipitable water (PW) values will persist across Galveston Bay and the greater Houston metro area Tuesday. This should bring down the chances of diurnally-driven showers and thunderstorms across the area fairly significantly through mid-week. Despite this, the typical development of isolated showers and storms over the coastal waters in the morning hours which push further inland by the afternoon cannot be completely ruled out. The prevailing conditions should remain fairly consistent as the ridge slowly propagates eastward, eventually lending way to the development of a relatively zonal upper-level pattern over the Gulf Coast by Thursday. An area of weakness within this flow develops over the northwestern Gulf of Mexico by Thursday evening, and a return to elevated PWs and more typical diurnal convection soon follows. Current indications are that next weekend could be a wet one, as onshore flow combined with ample moisture transport should prove to produce more widespread precipitation coverage Friday through Sunday

National Hurricane Center (June 1 through November 30)

Tropical Cyclones and Disturbances



Current Tropical Activity is not Expected to Impact the Western Gulf of Mexico.

Last Week

0.99

1.38

5.01

6.76

12.56

Forecast

0.10

0.10

0.25

0.25

0.25





