

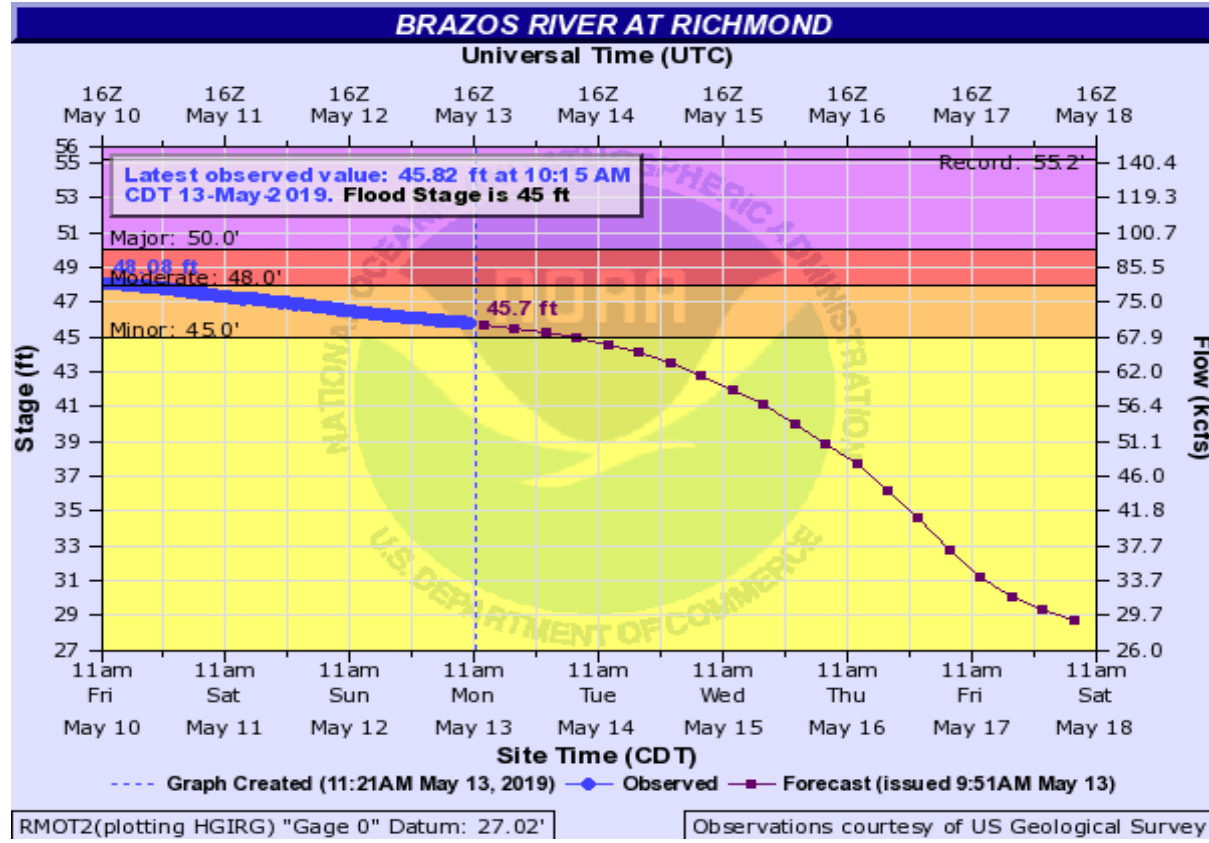
Flood Risk Assessment Week of May 13, 2019



Brazos River in Minor Flood Stage and Falling / Increased Chances for Rain this Week

Brazos River Status

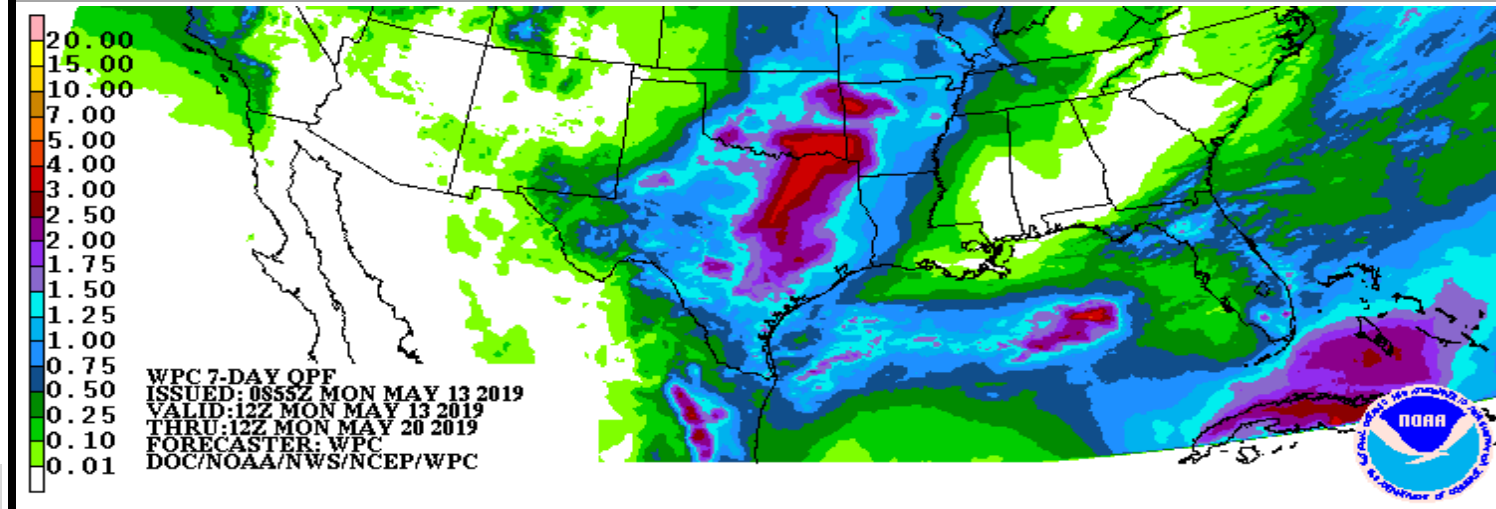
Latest Brazos River Forecast Graphic (WGRFC)



Current Levels *Forecasts Shown Below Current is Proposed Gage Reading at End of Forecast Window

Location	Datum Adj.	Cur. Stage	Cur. Category	Forecast
Navasota River Near Normangee	245.00	14.89	Action Stage	10.60
Bryan (Brazos River)	189.30	19.37	Below Action	24.60
Hempstead (Brazos River)	107.90	38.31	Action Stage	28.00
Mill Creek Near Bellville	122.82	5.62	Below Action	No Forecast
San Felipe (Brazos River)	0.00	115.14	Action Stage	102.00
Richmond (Brazos River)	27.02	45.82	Flood Stage	28.70
Rosharon (Brazos River)	0.01	50.80	Moderate	33.70

7 Day Rainfall Forecast (NOAA Quantitative Precipitation Forecast)



Rainfall (Inches) Summaries for 2019 *As Reported by NWS and USGS, Data Subject to Change

Location	Week's Forecast	Last Week	May (MTD)	2019 (YTD)	YTD Normal (Thru May)	Drought Cond. (05/07)
College Station (NOAA)	2.00	1.50	6.44	20.62	16.25	None
Brenham (NOAA)	2.00	1.05	3.99	13.05	17.52	None
Richmond (USGS)	1.25	8.57	9.54	16.15	17.02	None
Sugar Land (NOAA)	1.25	10.50	11.80	20.71	17.71	None
Bush Interc. (NOAA)	1.50	5.55	6.88	16.56	18.39	None

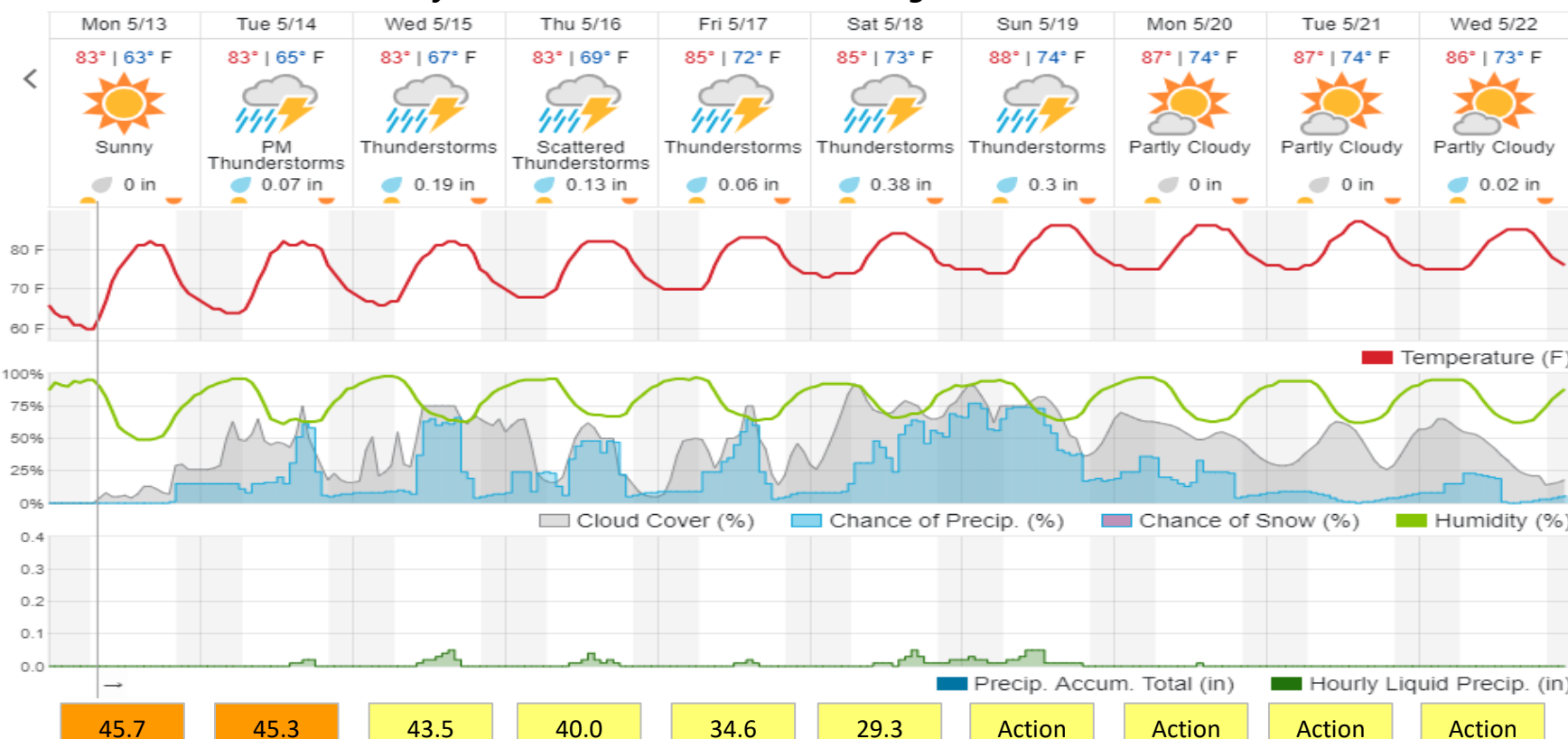
River forecasts for this location take into account past precipitation and the precipitation amounts expected approximately 24 hours into the future from the forecast issuance time.

Historical Period Mean:	16.55	(10/98 - 02/19)
Historical Period Peak:	42.32	(10/98 - 02/19)

Flood Categories	Previous 7 Days	Historical Peaks (Top 3)
Major Flood Stage	50	45.82 Current Reading
Moderate Flood Stage	48	48.08 Peak Reading
Flood Stage	45	46.47 Average Reading
Action Stage	20	High: 61.20 (12/10/1913)
Low Stage	0	55.19 (09/01/2017)
		54.74 (06/02/2016)

Weekly Weather Forecast

7 Day Weather Forecast (WeatherUnderground for Richmond)



NWS Forecast Discussion

(Tuesday Through Wednesday)... Models had been pushing back the frontal boundary as a warm front on Tuesday but that seems to have slowed... Upper level low now over northern Mexico or southern Rockies continues to be on track with moving into the area Tuesday. Vorticity does shear out with this system but still think there will be enough of an upper low to support large scale ascent... there could be a few strong storms mainly SW of a Brenham to Houston line. The real trick will be finding any kind of boundary to focus convective initiation. Frontal boundary working back north may be back inland just enough to help with initiation in the area of Bay City to Wharton... Storms may pulse up to strong levels with gusty winds, small hail, and lightning. Wednesday is another day in which we will be keeping some 30/40 PoPs for the same area as Tuesday mainly SW of Houston. It is kind of a sneaky situation where you get a second shortwave coming across the southern Rockies into Texas with a hint of vorticity. Frontal boundary looks to be curving back into Texas with enough moisture to support higher instability... Again a very marginal environment but could see another case where an isolated strong storm produces some hail, gusty winds and lightning. SPC does not have any outlook for severe on either of these days but there is some model consistency in the GFS/NAM/ECMWF with some convective development. LONG TERM [Thursday Through Monday]... Thursday into Friday deep southerly flow increases off the Gulf increasing moisture levels... GFS/ECMWF continue to indicate some rain chances given the warm air advection pattern for both days but the upper level pattern is unfavorable given subsidence from ridging... Over the weekend we will need to keep an eye out on how the models trend... There should be plenty of moisture and instability in place to support storms. There also looks to be a Pacific front that moves into the area during the day that will be a focus for thunderstorm development. Both models have a trough moving into the Plains with splitting flow aloft to help with large scale ascent... Depending upon how the upper level pattern pans out, there could at least be some threat of strong/severe storms over the weekend. Model differences are just enough that those kinds of details will be hard to determine. SPC does have a day 6 severe outlook over central Texas and Oklahoma so we will need to see how that changes over the next few days.

Richmond Daily Forecasted Peak WSE