

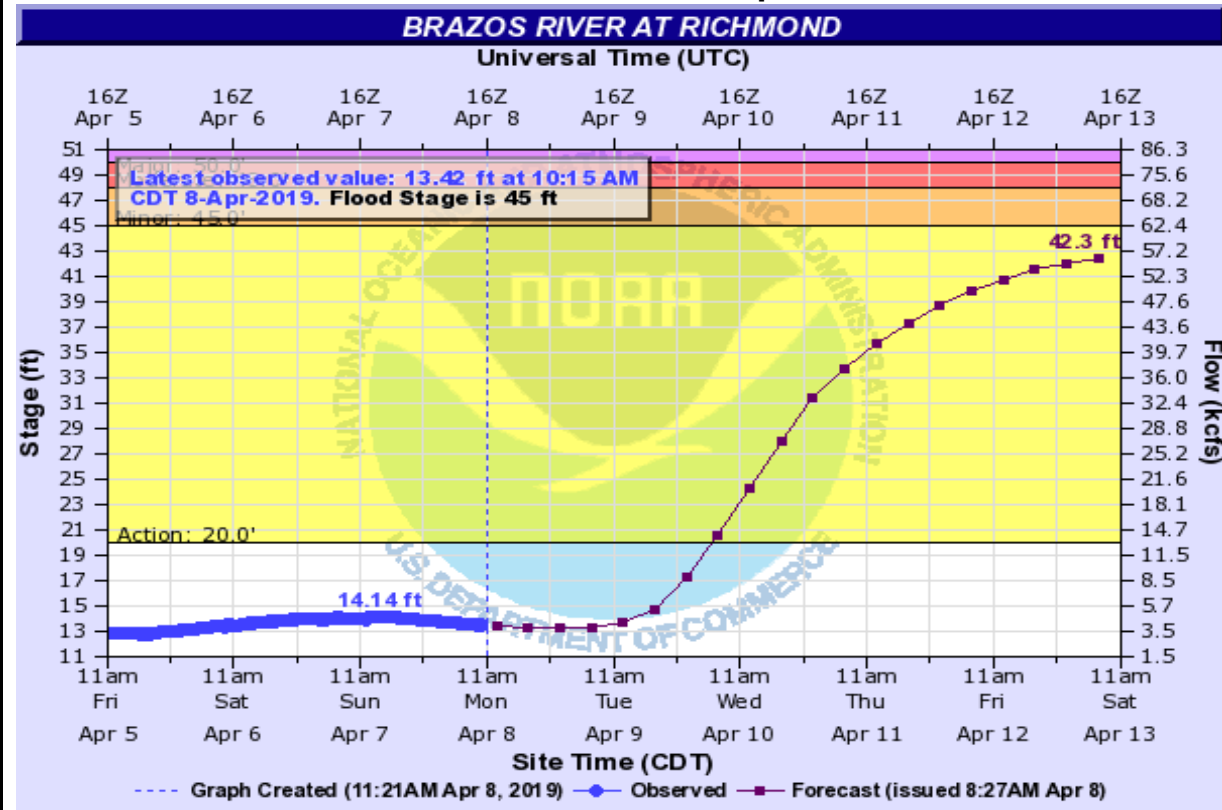
Flood Risk Assessment Week of April 8, 2019



Below Action (Forecasted to be in Action Stage) - Sunny to Mostly Sunny Skies with Possible Storms the Weekend

Brazos River Status

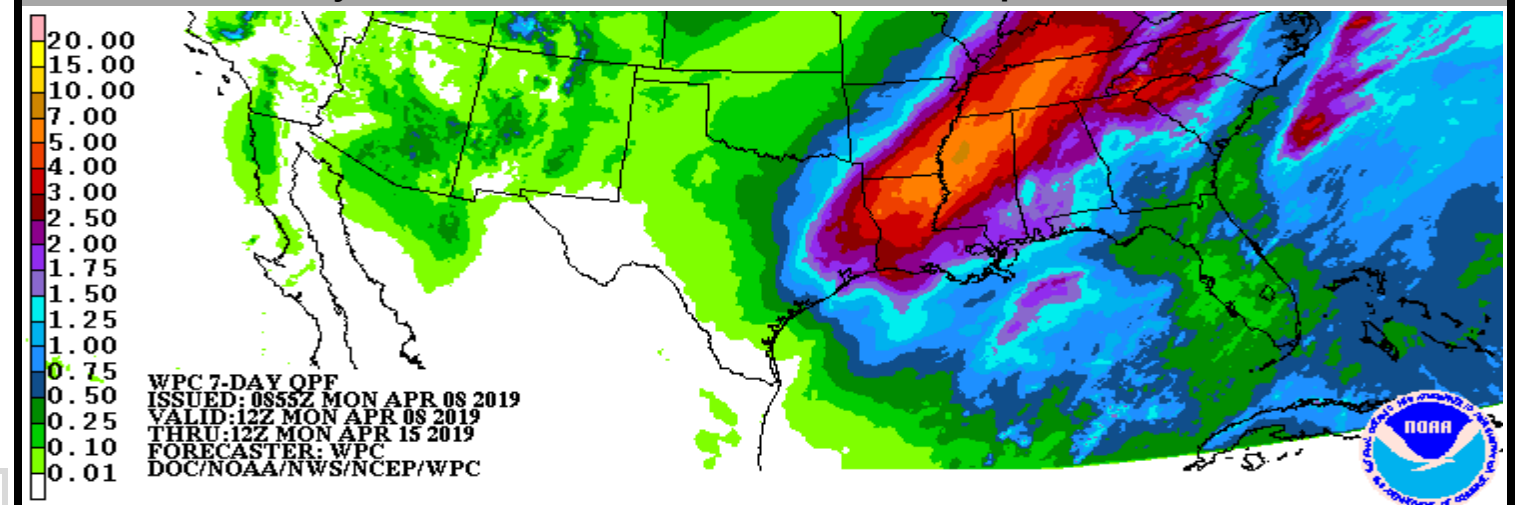
Latest Brazos River Forecast Graphic (WGRFC)



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	12.61	Action Stage	19.00
Bryan (Brazos River)	189.30	29.07	Below Action	No Forecast
Hempstead (Brazos River)	107.90	17.91	Below Action	44.80
Mill Creek Near Bellville	122.82	5.05	Below Action	No Forecast
San Felipe (Brazos River)	0.00	94.92	Below Action	117.00
Richmond (Brazos River)	27.02	13.42	Below Action	42.30
Rosharon (Brazos River)	0.01	11.84	Below Action	No Forecast

7 Day Rainfall Forecast (NOAA Quantitative Precipitation Forecast)



RMOT2(plotting HGIRG) "Gage 0" Datum: 27.02' Observations courtesy of US Geological Survey

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:	14.88	(1998-2018)
Historical Period Peak:	33.77	(1998-2018)

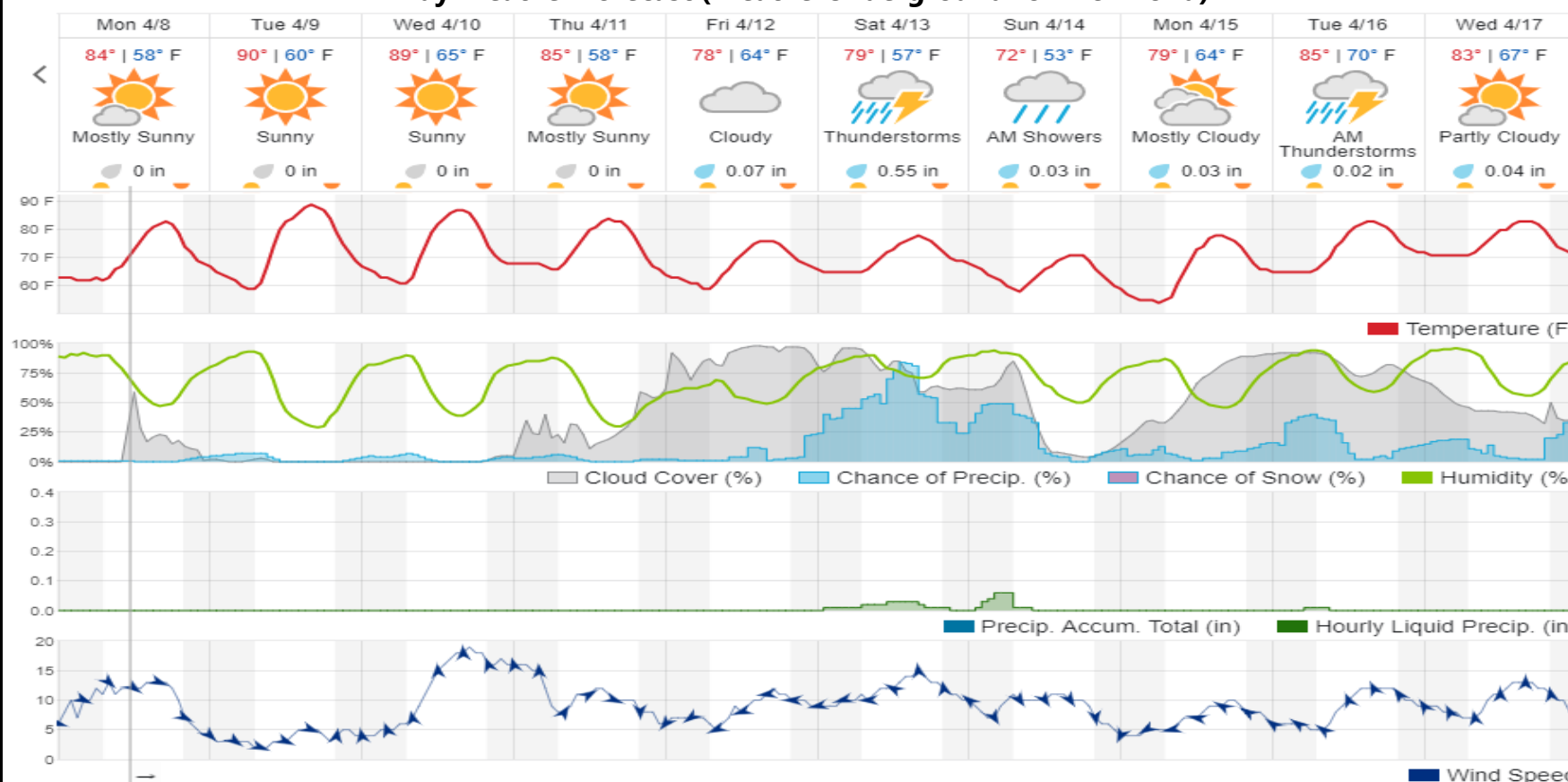
Flood Categories		Previous 7 Days	Historical Peaks (Top 3)
Major Flood Stage	50	13.42 Current Reading	High: 61.20 (12/10/1913)
Moderate Flood Stage	48	14.14 Peak Reading	55.19 (09/01/2017)
Flood Stage	45	13.19 Average Reading	54.74 (06/02/2016)
Action Stage	20		
Low Stage	0		

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

Location	Week's Forecast	Last Week	April (MTD)	2019 (YTD)	YTD Normal (Thru March)	Drought Cond. (04/02)
College Station (NOAA)	1.50	1.60	1.60	10.14	11.92	None
Brenham (NOAA)	1.25	1.63	1.63	7.17	12.86	Abnormally Dry
Richmond (USGS)	1.50	0.86	0.86	5.51	12.93	None
Sugar Land (NOAA)	1.50	1.21	1.21	7.61	13.41	None
Bush Interc. (NOAA)	1.75	1.35	1.35	7.66	13.30	None

Weekly Weather Forecast

7 Day Weather Forecast (WeatherUnderground for Richmond)



NWS Forecast Discussion

NEAR TERM [Through Today]...At 3AM, surface low pressure was located over E/SE Texas. Water vapor imagery shows upper level low centered over east Texas. Radar imagery showed showers wrapping around the upper low. This shower activity may persist over the northern portions of the forecast area today. Water vapor imagery also showed a dry slot stretching from Victoria to Lufkin. Surface analysis shows some reflection of this with west/northwest winds and some slight drier air with dewpoints in the 50s/60s. Upper low should track towards the Miss River Valley today allowing for rain chances to end and skies to further clear. Temperatures should reach the low 80s where skies clear and upper 70s where clouds are slower to clear. SHORT TERM [Tonight Through Wednesday]...Upper level ridge to the west should move over the Plains and Texas through the middle of the week. another strong upper low should develop in the Rockies and move into the central Plains Wednesday night. Strong return flow from the Gulf should develop Wednesday in response to the system in the Plains. There were no real changes to the forecast with high temperatures in the 80s through the middle of the week and no rain chances. LONG TERM [Wednesday Night Through Monday]...Upper low over the central Plains tracks towards the Great Lakes Thursday into Friday. This allows for a front to push through late Thursday. This will take the edge of high temperatures a few degrees for Friday. As the upper low moves across the Great Lakes another low develops over the Great Basin and then moves into the southern Rockies or northern Mexico by 12Z Saturday. GFS has an open trough that moves across Texas over the weekend while the ECMWF/Canadian develop a closed low which opens up as it moves over Texas. Overall basic timing of thunderstorm chances looks about the same among the models with the ECMWF being a little slower to push east on Sunday. Forecast keeps some 40 to 60 percent precip chances going mainly on Saturday. Forecast does hold onto some lower end rain chances Sunday but lean towards a more progressive pattern. Depending upon how the details work out, we will be looking at a possibility of strong/severe storms or heavy rainfall for Saturday. For now it is too early to say.