

San Antonio Bay - Guadalupe Estuary Drought Watch February 11, 2021



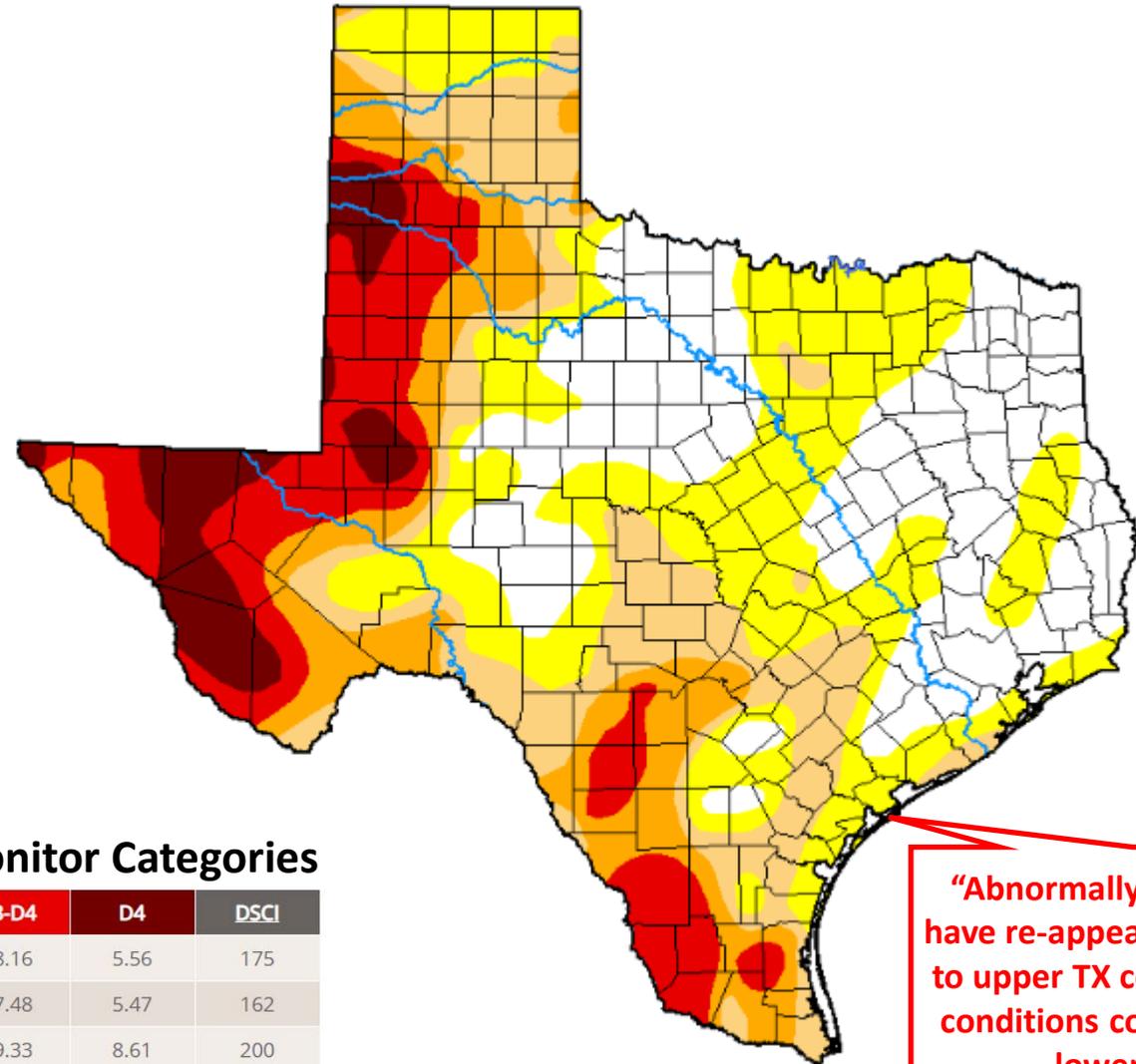
Current Meteorological Drought Conditions in Texas

Map Released: February 11, 2021

Data Valid: February 9, 2021

Intensity:

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data



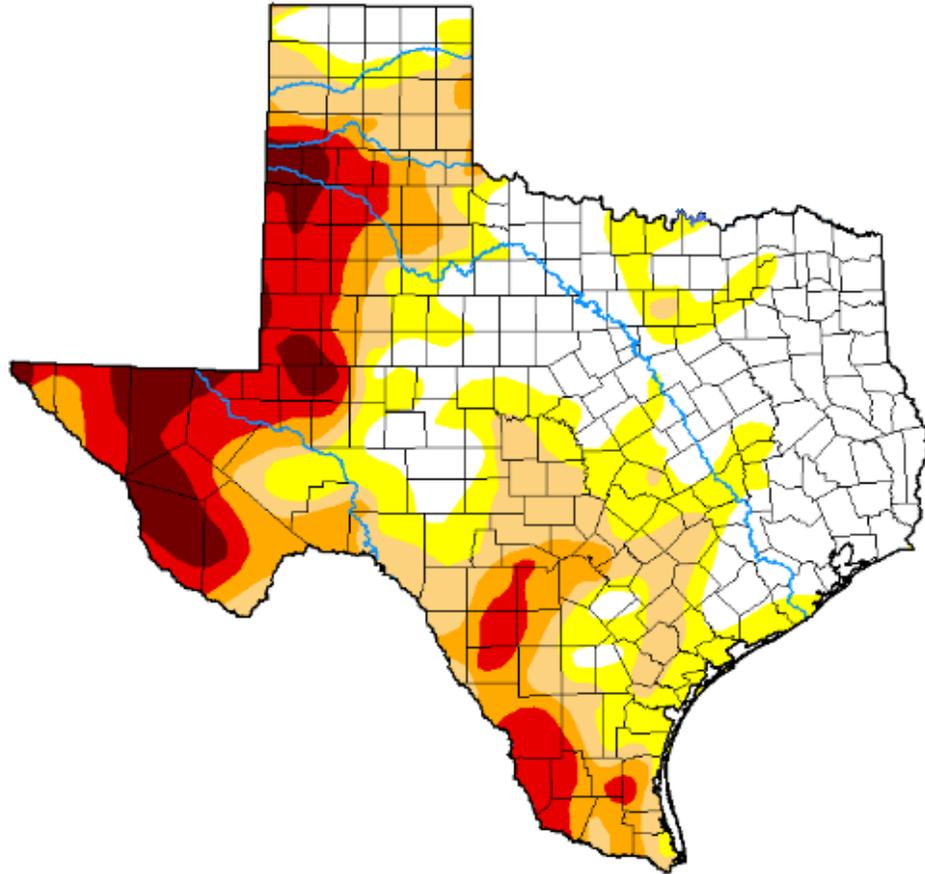
Statewide Statistics: Percent Area in Drought Monitor Categories

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2021-02-09	25.72	74.28	46.98	30.24	18.16	5.56	175
Last Week	2021-02-02	34.91	65.09	44.90	28.73	17.48	5.47	162
3 Months Ago	2020-11-10	15.71	84.29	56.86	30.67	19.33	8.61	200
Start of Calendar Year	2020-12-29	8.80	91.20	81.10	50.33	30.09	13.03	266
Start of Water Year	2020-09-29	57.35	42.65	31.96	20.91	12.02	3.29	111
One Year Ago	2020-02-11	52.03	47.97	32.68	13.95	1.87	0.00	96

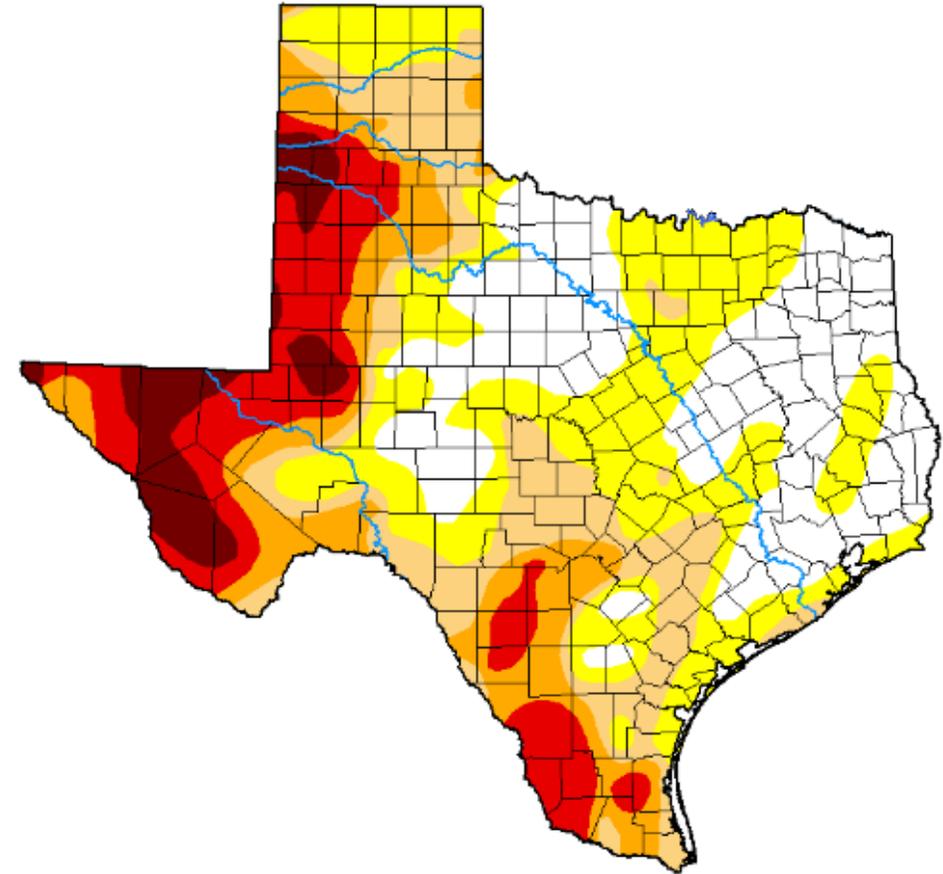
“Abnormally dry” conditions have re-appeared along the mid to upper TX coast, and drought conditions continue along the lower Tx coast.

“Abnormally Dry” Conditions Return Along the Upper Tx Coast While the Mid to Lower Texas Coast and Contributing Watersheds Remain Much the Same

February 2021 2nd vs February 9th 2021



February 2, 2021



February 9, 2021

Drought Classification

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)

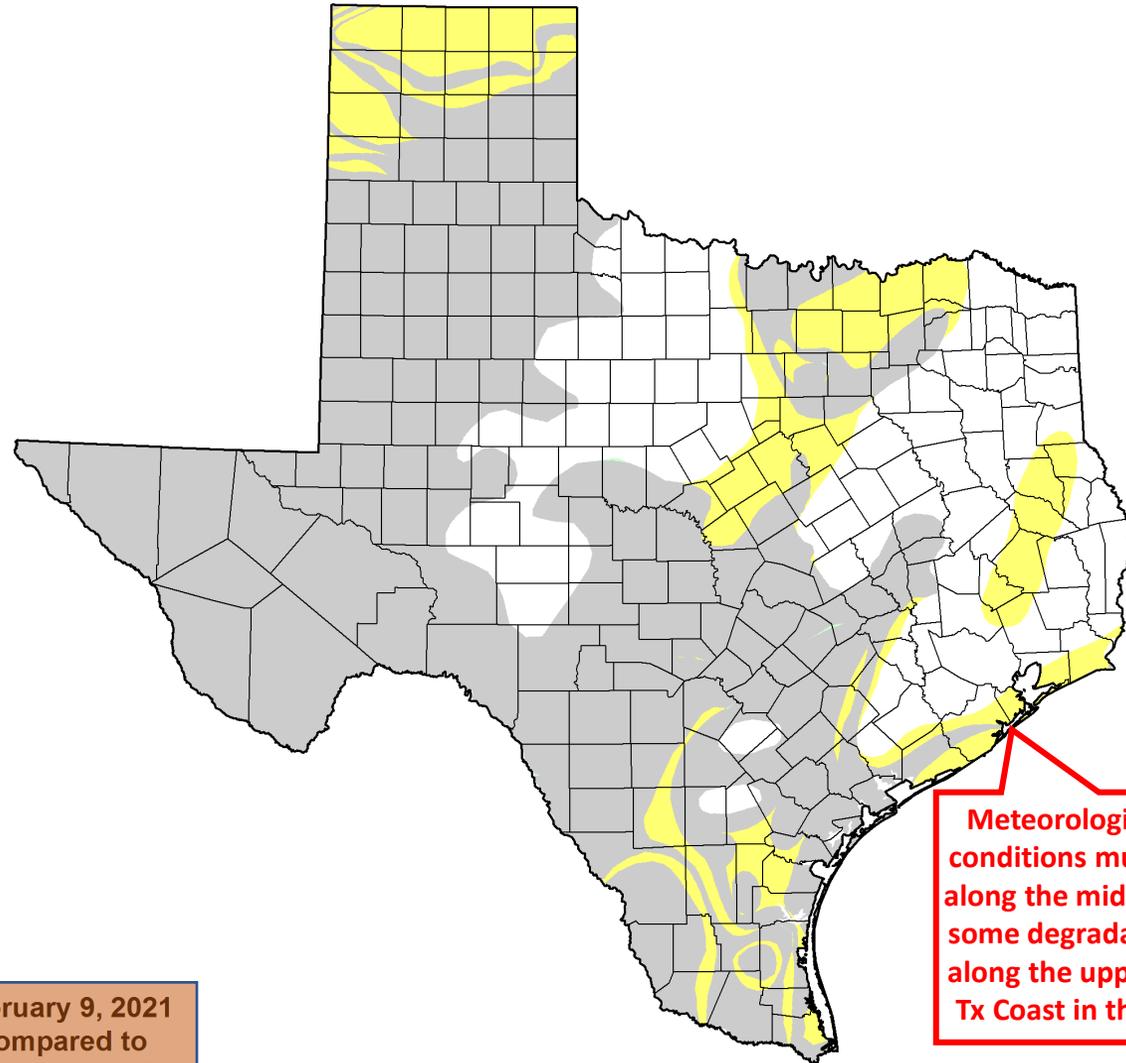
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

<https://droughtmonitor.unl.edu/Maps/CompareTwoWeeks.aspx>

For Drought Monitor Time-Series Animation, click [here](#), then choose Area Type: State; Area: Texas

U.S. Drought Monitor Class Change - Texas

1 Week



February 9, 2021
compared to
February 2, 2021



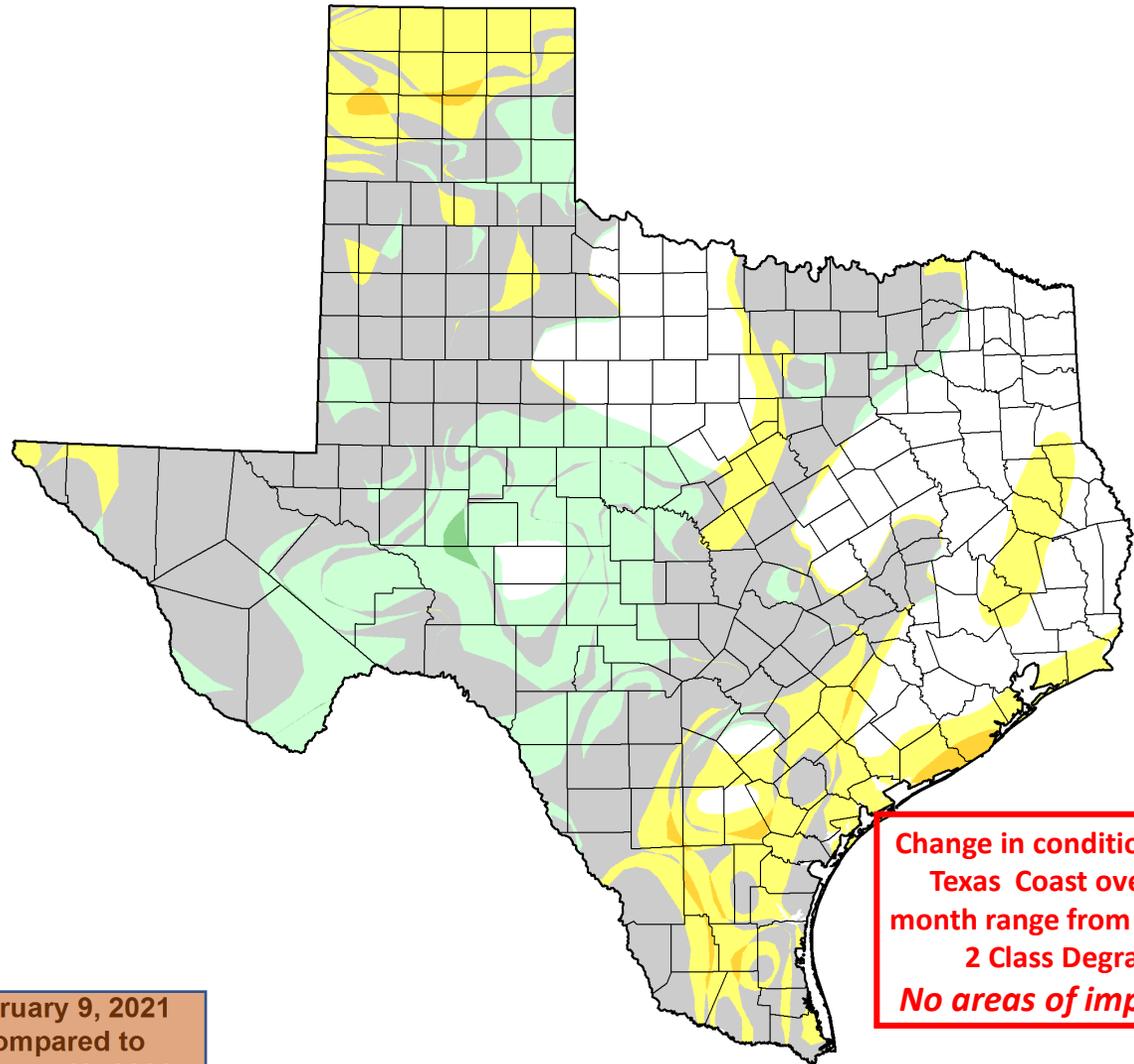
	5 Class Degradation
	4 Class Degradation
	3 Class Degradation
	2 Class Degradation
	1 Class Degradation
	No Change
	1 Class Improvement
	2 Class Improvement
	3 Class Improvement
	4 Class Improvement
	5 Class Improvement

Meteorological drought conditions much the same along the mid-Tx coast, but some degradation in areas along the upper and lower Tx Coast in the past week

droughtmonitor.unl.edu

U.S. Drought Monitor Class Change - Texas

1 Month



	5 Class Degradation
	4 Class Degradation
	3 Class Degradation
	2 Class Degradation
	1 Class Degradation
	No Change
	1 Class Improvement
	2 Class Improvement
	3 Class Improvement
	4 Class Improvement
	5 Class Improvement

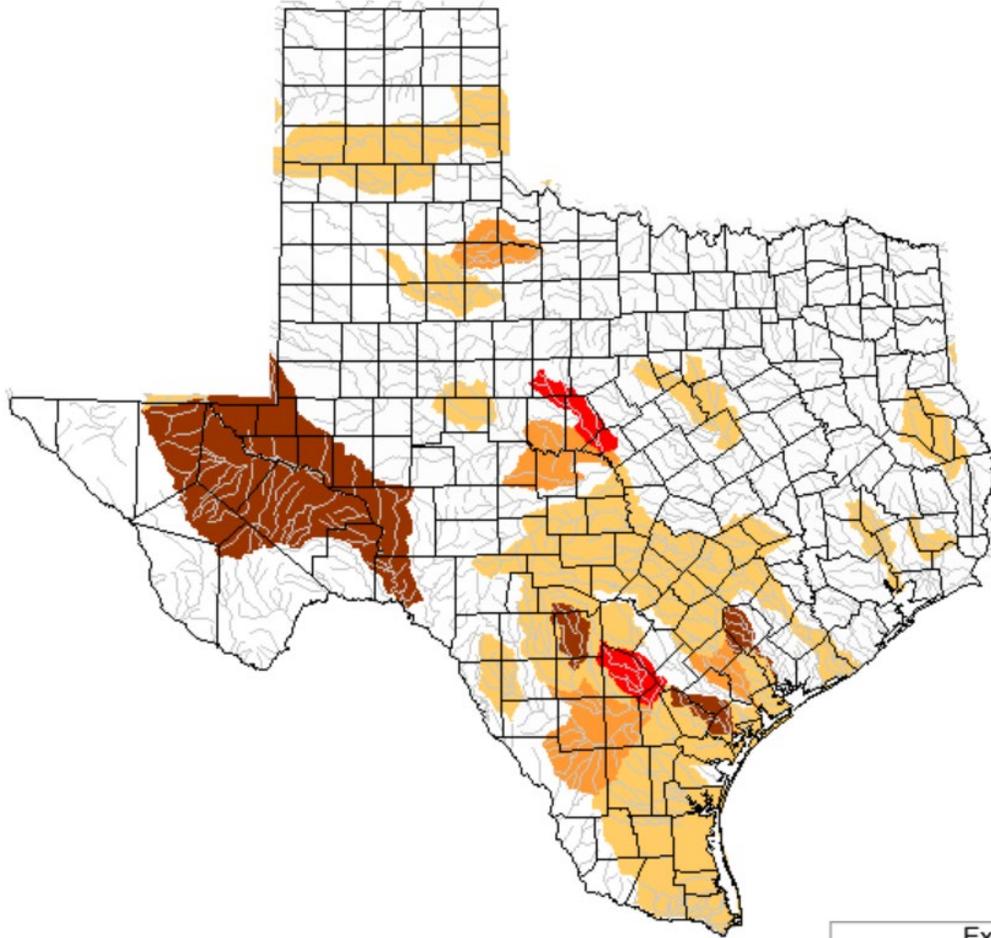
Change in conditions along the Texas Coast over the past month range from no change to 2 Class Degradation. No areas of improvement.

February 9, 2021 compared to January 12, 2021

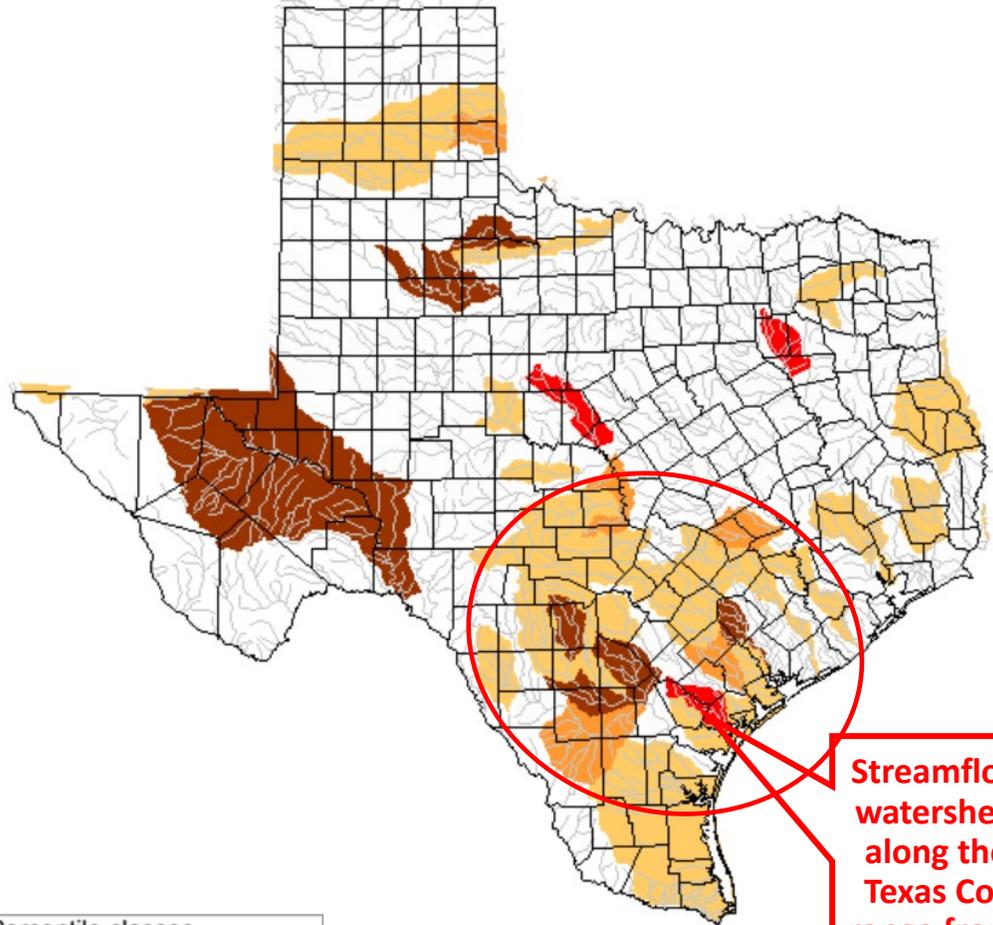
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Map of below normal 7-day average streamflow compared to historical streamflow for the day of year

Wednesday, February 03, 2021



Wednesday, February 10, 2021

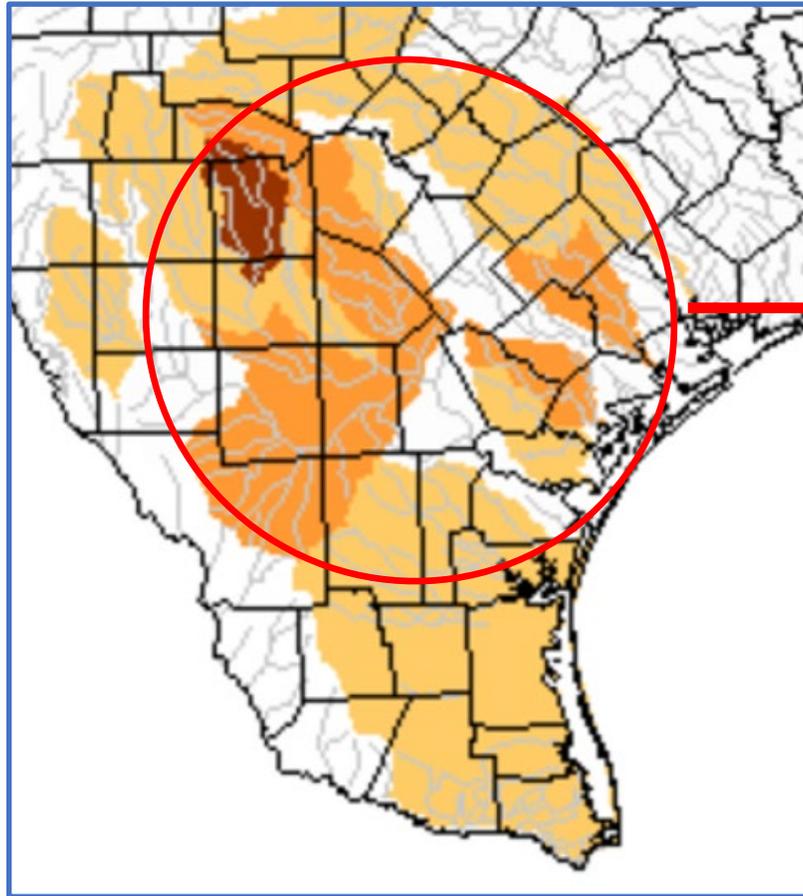


Streamflow conditions in watersheds feeding bays along the Mid to Lower Texas Coast continue to range from below normal to extreme hydrologic drought

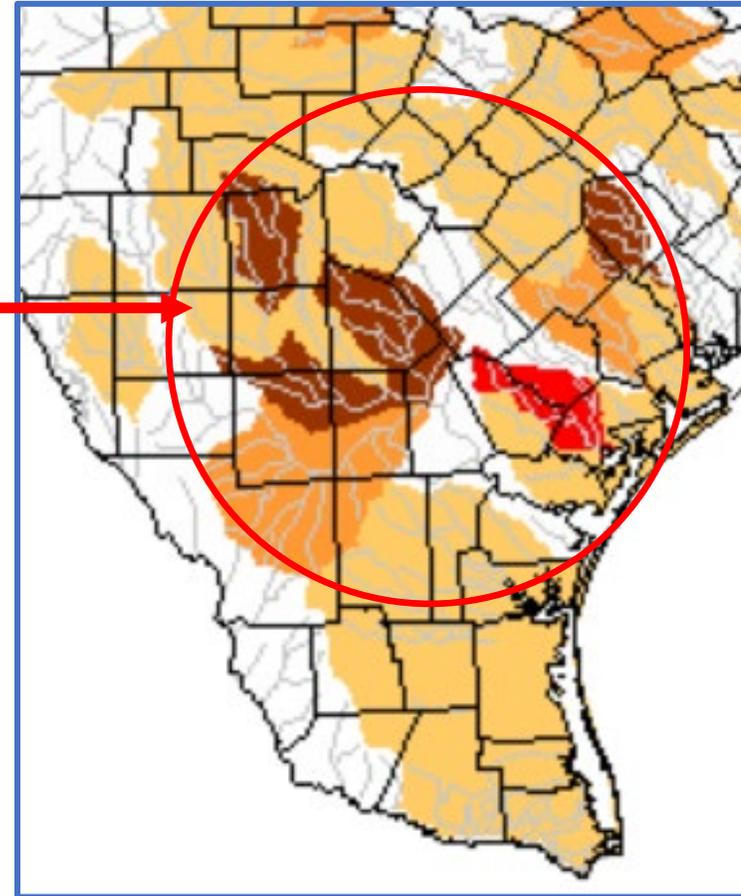
Explanation - Percentile classes			
Low	<=5	6-9	10-24
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal

Map of below normal 7-day average streamflow compared to historical streamflow for the day of year:
Significant Degradation in South Texas Watersheds Over the Past Three Weeks

Wednesday, January 20, 2021



Wednesday, February 10, 2021

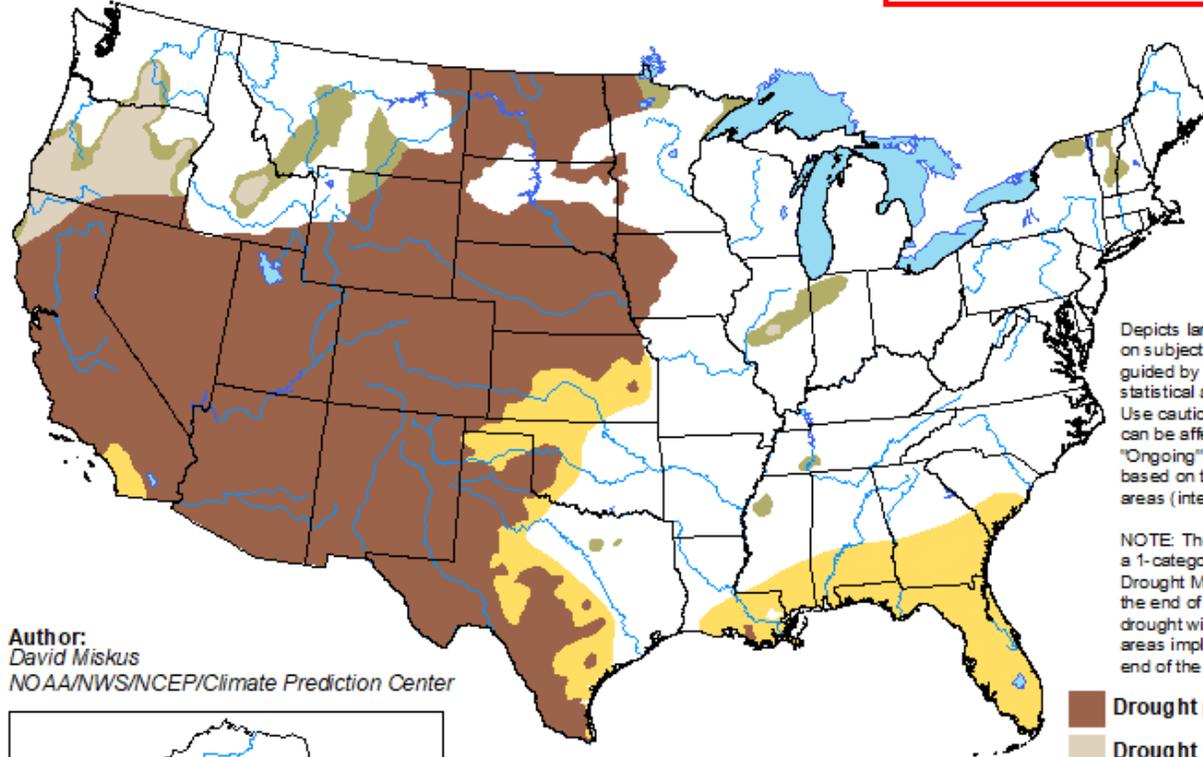


Explanation - Percentile classes			
Low	<=5	6-9	10-24
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal

Drought Outlook Thru April 2021 Indicates Drought Persisting/Developing Throughout Central and West Texas

U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

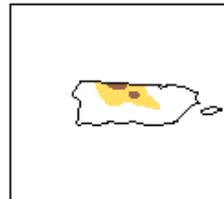
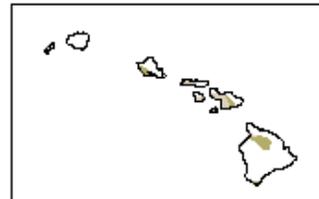
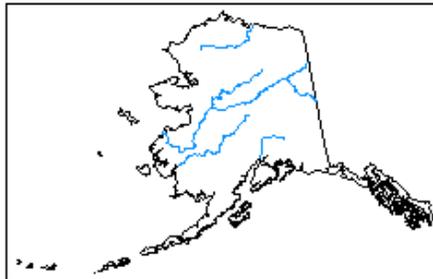
Valid for January 21 - April 30, 2021
Released January 21



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
David Miskus
NOAA/NWS/NCEP/Climate Prediction Center



-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



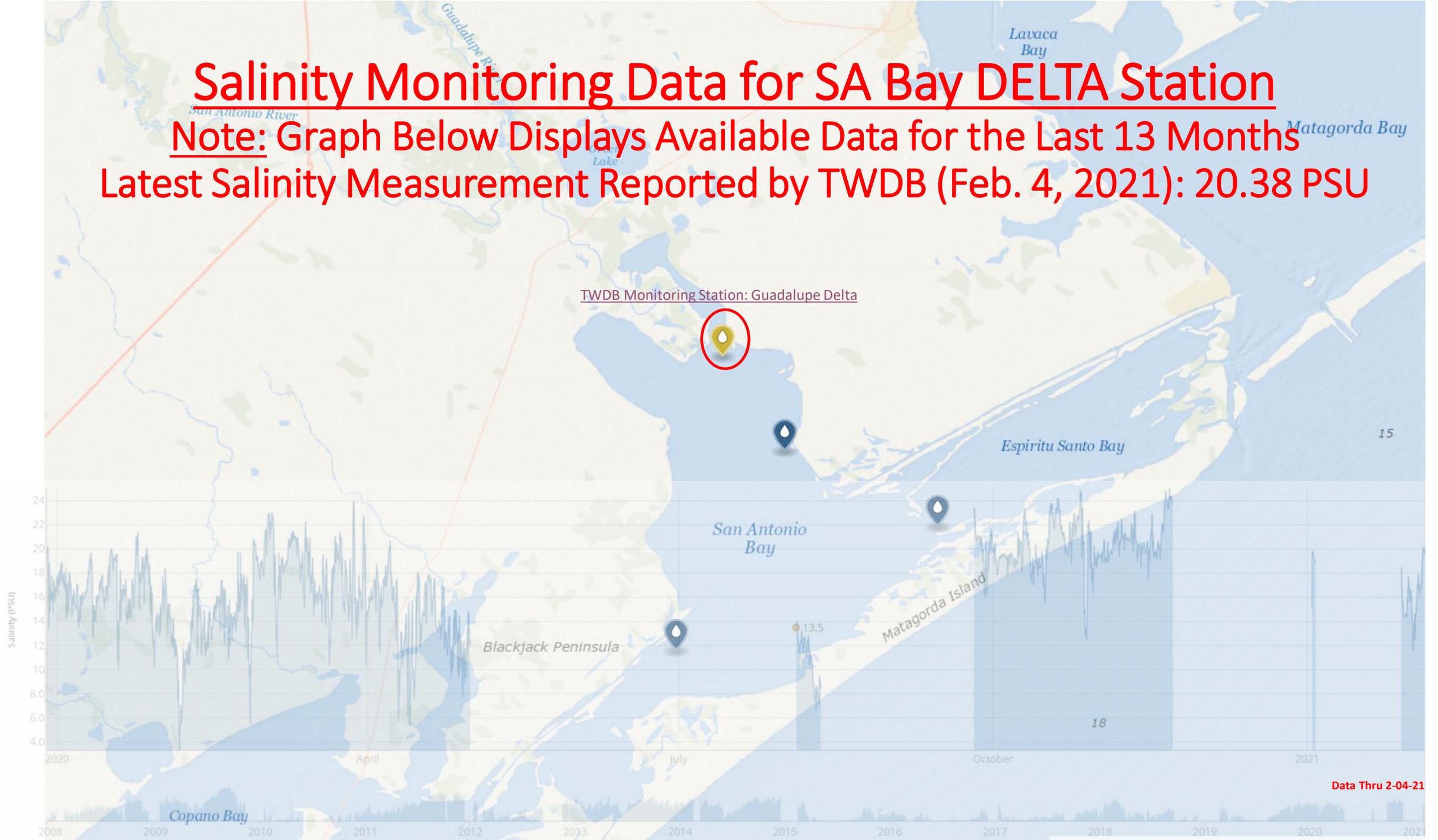
<http://go.usa.gov/3eZ73>

Link:
<http://go.usa.gov/3eZ73>

Note: Next U.S. Seasonal Drought Outlook to be issued **Feb. 18, 2021**

Salinity Monitoring Data for SA Bay DELTA Station

Note: Graph Below Displays Available Data for the Last 13 Months
Latest Salinity Measurement Reported by TWDB (Feb. 4, 2021): 20.38 PSU



Resources For More Information

- [National Integrated Drought Information System](#)
- [USGS WaterWatch – Drought](#)
- [TWDB -- Texas Bays & Estuaries Continuous Water Quality Monitoring Stations](#)
- [TCEQ Basin and Bay Stakeholder Committees and Expert Science Teams](#)
 - [Colorado and Lavaca Rivers and Matagorda and Lavaca Bays](#)
 - [Guadalupe, San Antonio, Mission, and Aransas Rivers and Mission, Copano, Aransas, and San Antonio Bays](#)
 - [Nueces River and Corpus Christi and Baffin Bays](#)

Historical Freshwater Inflows for Mid-Texas Estuaries: see following pages



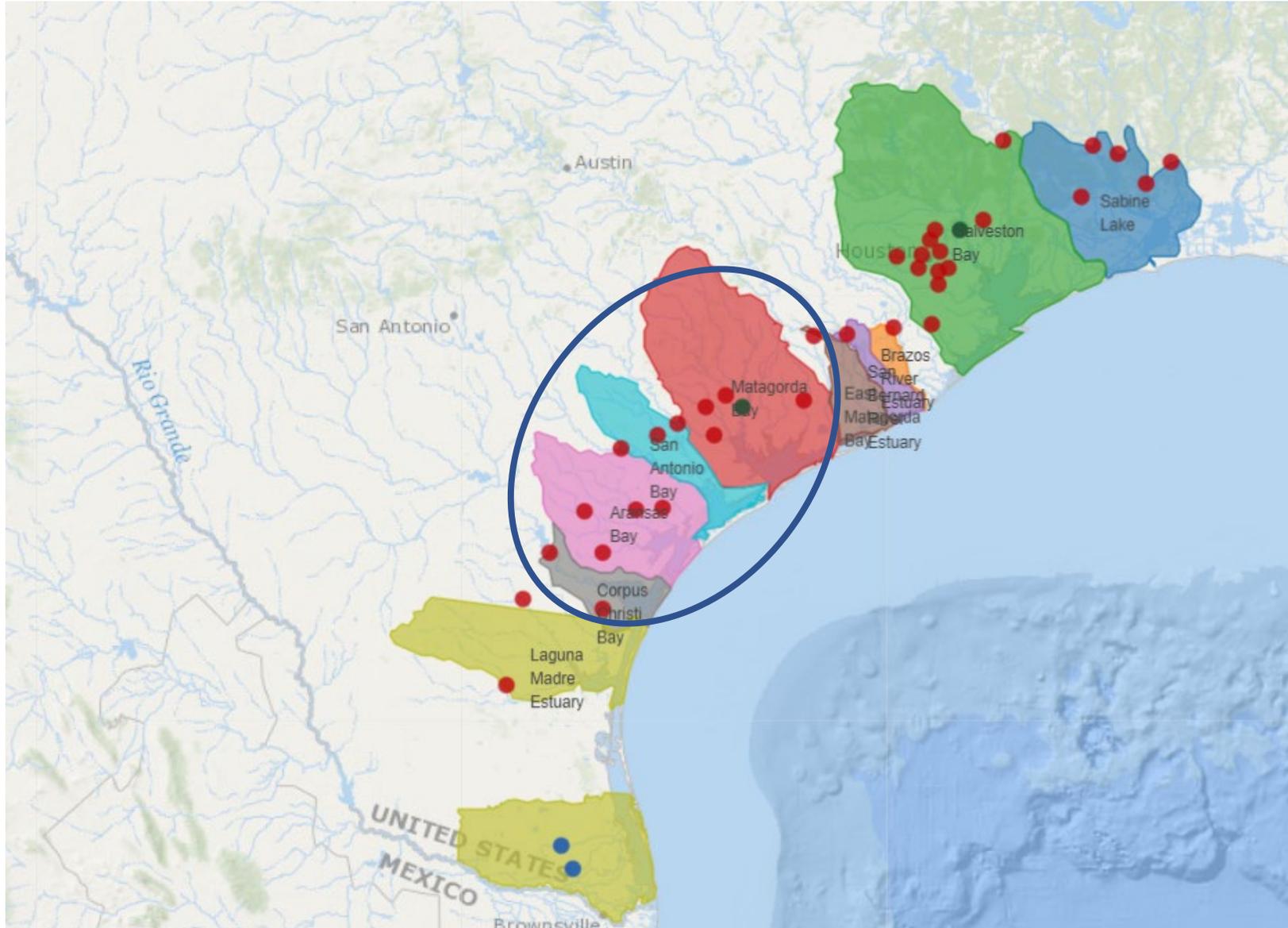
[James A. Dodson](#)

Program Facilitator/Project Manager

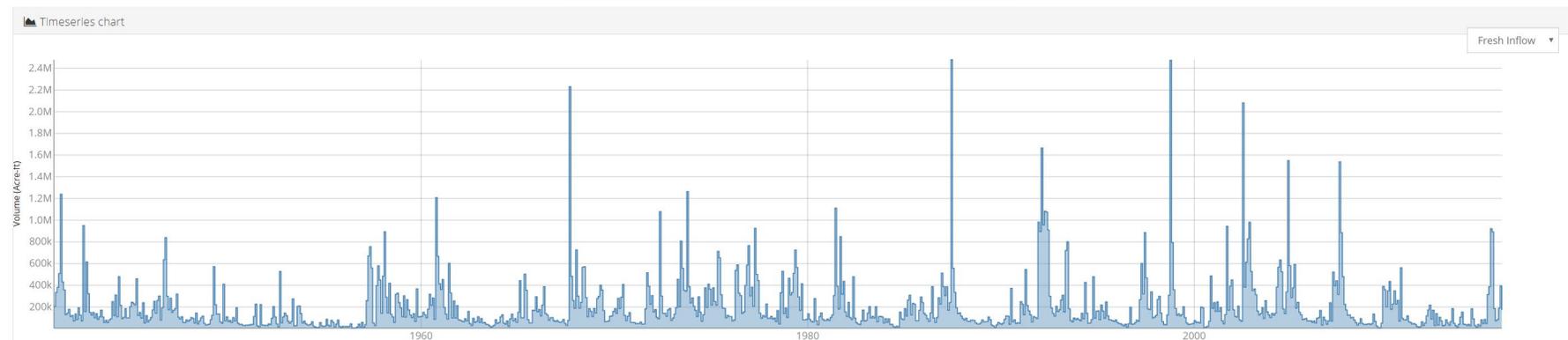
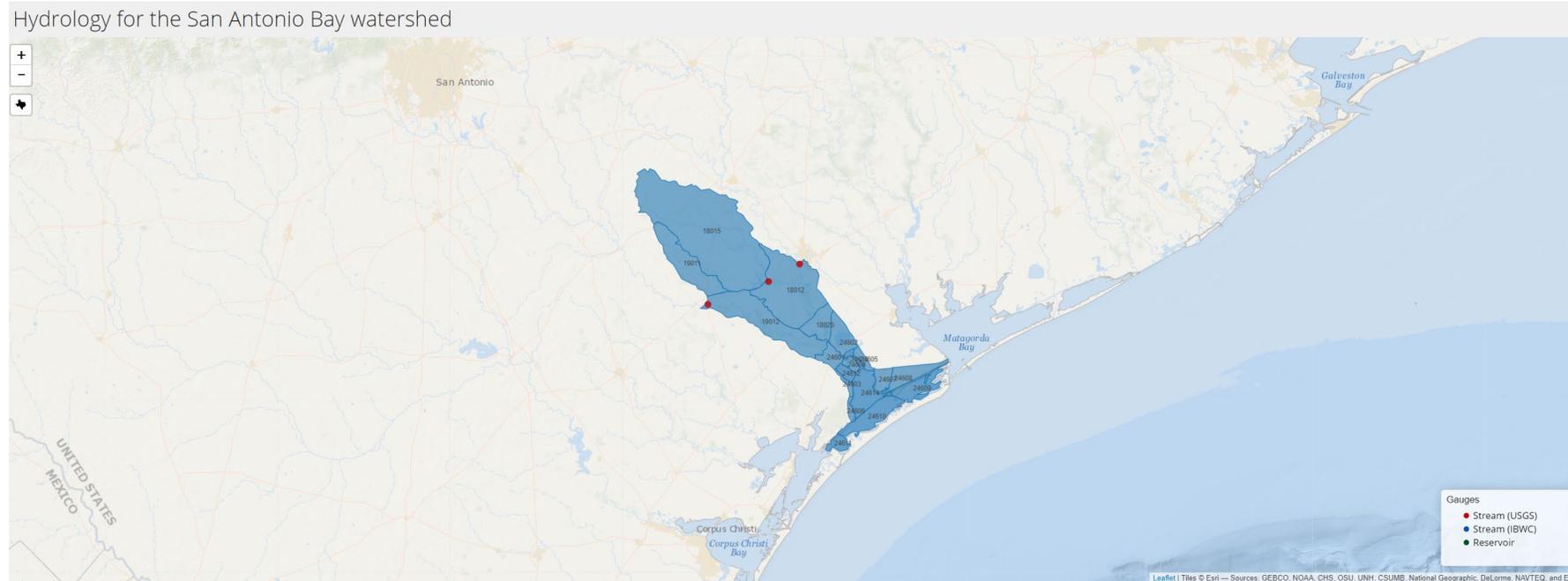
[San Antonio Bay Partnership](#)

361-649-1518

Historical Freshwater Inflows for Mid-Texas Estuaries:



Historical Freshwater Inflows for Mid-Texas Estuaries: San Antonio Bay – Guadalupe Estuary



Historical Freshwater Inflows for Mid-Texas Estuaries: Corpus Christi Bay – Nueces Estuary

Hydrology for the Corpus Christi Bay watershed

