

San Antonio Bay - Guadalupe Estuary Drought Watch

January 21, 2021



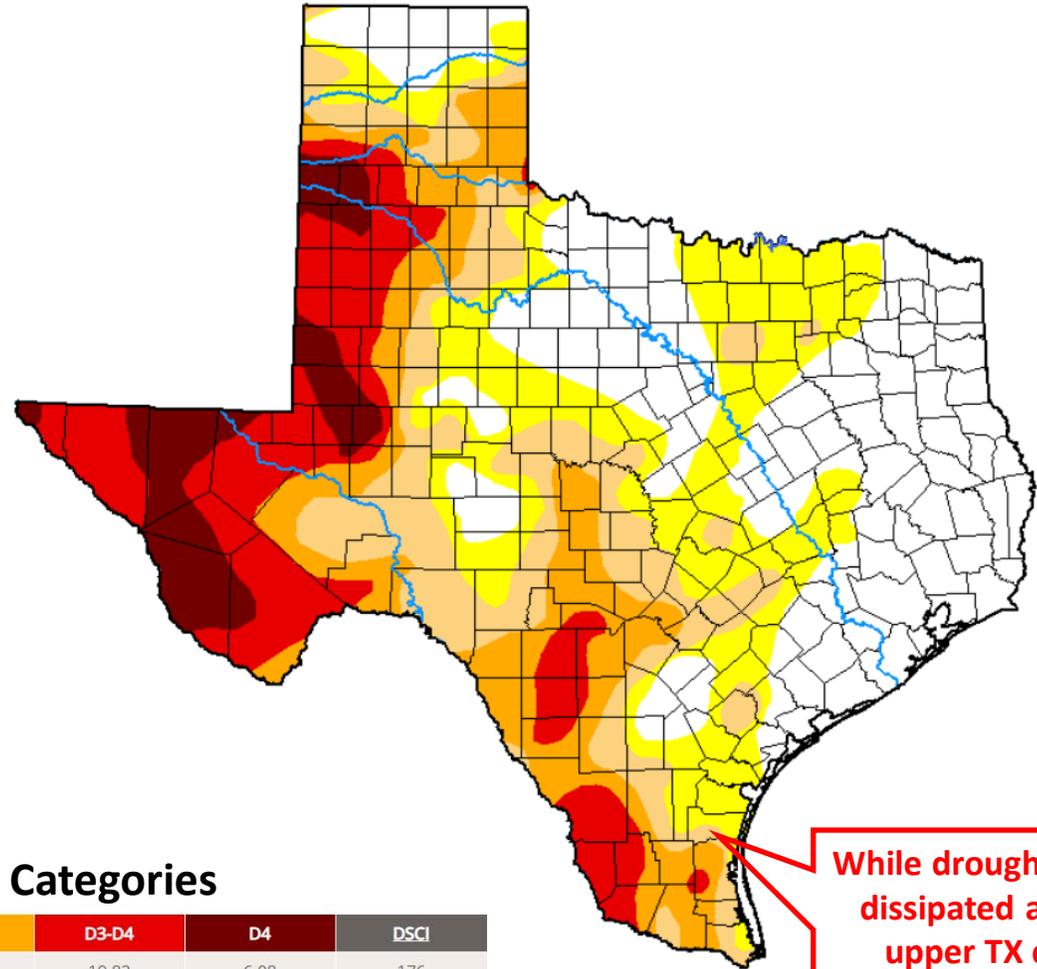
Current Meteorological Drought Conditions in Texas

Map Released: January 21, 2021

Data Valid: January 19, 2021

Intensity:

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



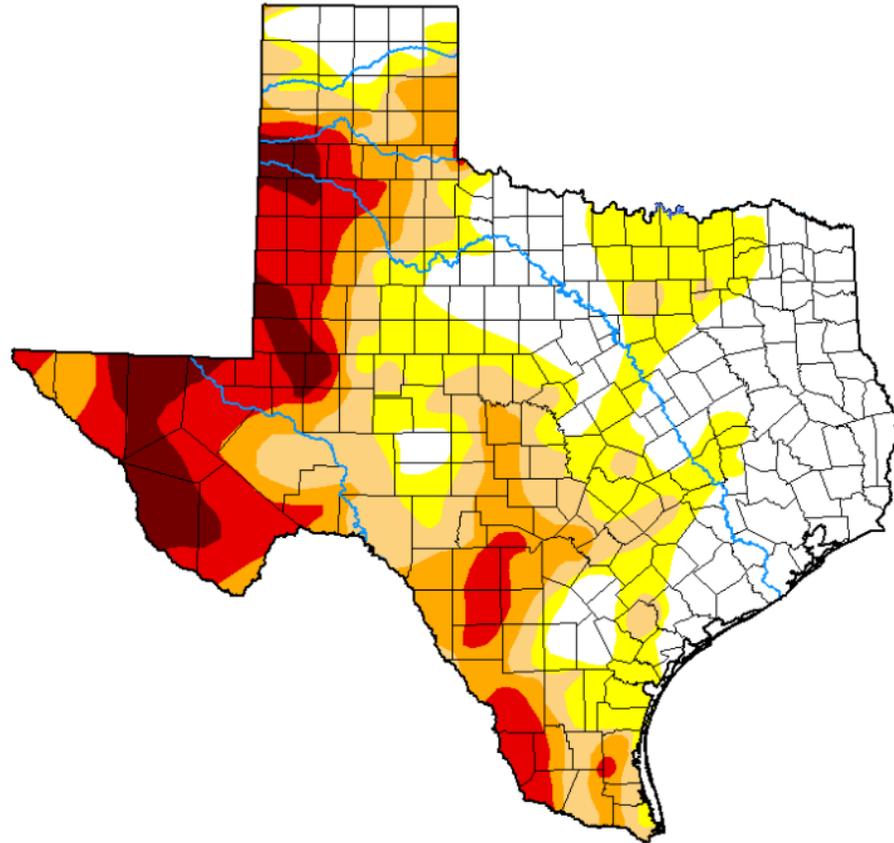
While drought conditions have dissipated along the mid to upper TX coast, drought conditions continue along the lower Tx coast.

Statewide Statistics: Percent Area in Drought Monitor Categories

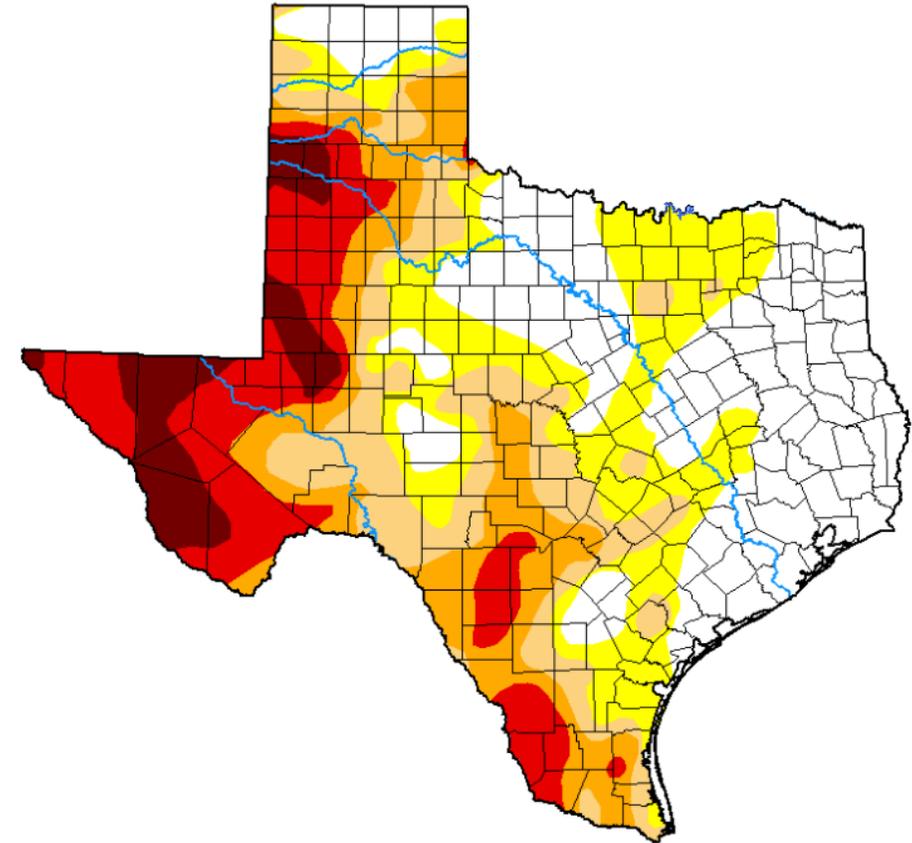
Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2021-01-19	31.44	68.56	48.56	33.06	19.82	6.08	176
Last Week	2021-01-12	31.29	68.71	48.01	32.25	18.61	5.97	174
3 Months Ago	2020-10-20	46.81	53.19	39.60	25.69	14.42	4.72	138
Start of Calendar Year	2020-12-29	8.80	91.20	81.10	50.33	30.09	13.03	266
Start of Water Year	2020-09-29	57.35	42.65	31.96	20.91	12.02	3.29	111
One Year Ago	2020-01-21	42.69	57.31	34.52	14.12	0.79	0.00	107

Drought Conditions Remain Much the Same Along the Lower Texas Coast and Contributing Watersheds

January 12th 2021 vs January 19th 2021



January 12, 2021



January 19, 2021

Drought Classification

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

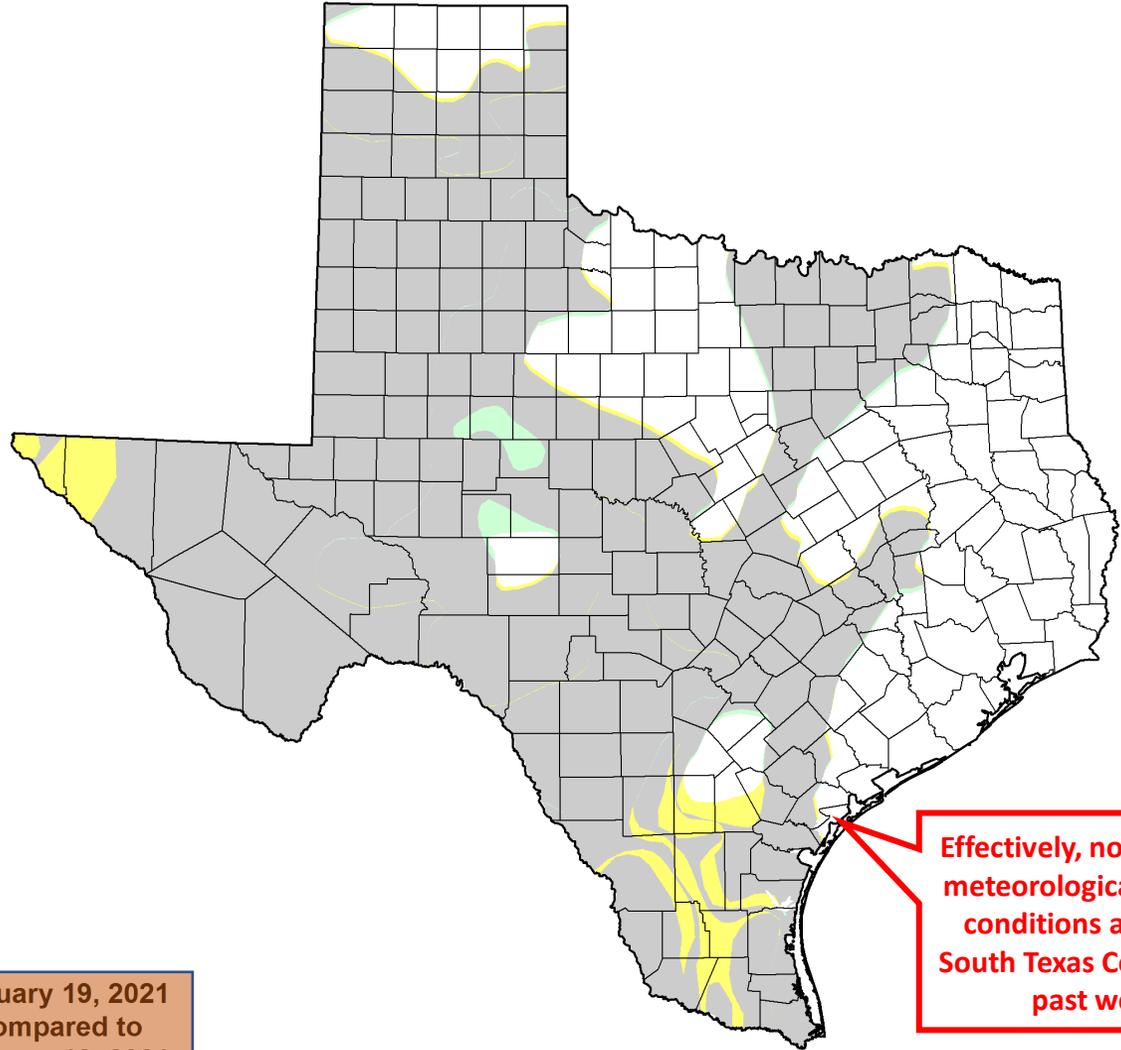
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

<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



January 19, 2021
compared to
January 12, 2021



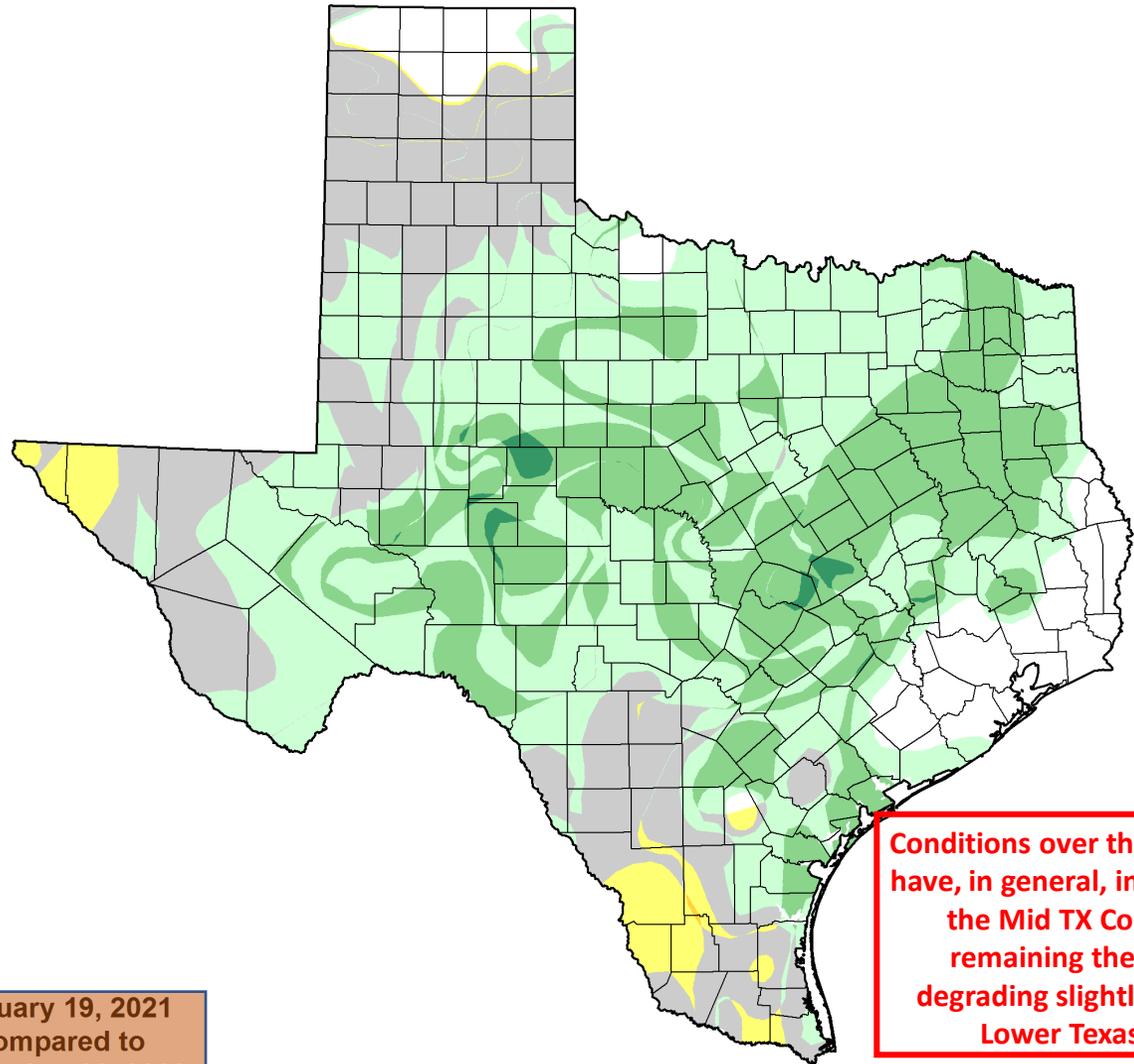
	5 Class Degradation
	4 Class Degradation
	3 Class Degradation
	2 Class Degradation
	1 Class Degradation
	No Change
	1 Class Improvement
	2 Class Improvement
	3 Class Improvement
	4 Class Improvement
	5 Class Improvement

Effectively, no change in meteorological drought conditions along the South Texas Coast in the past week

droughtmonitor.unl.edu

U.S. Drought Monitor Class Change - Texas

1 Month



January 19, 2021
compared to
December 22, 2020

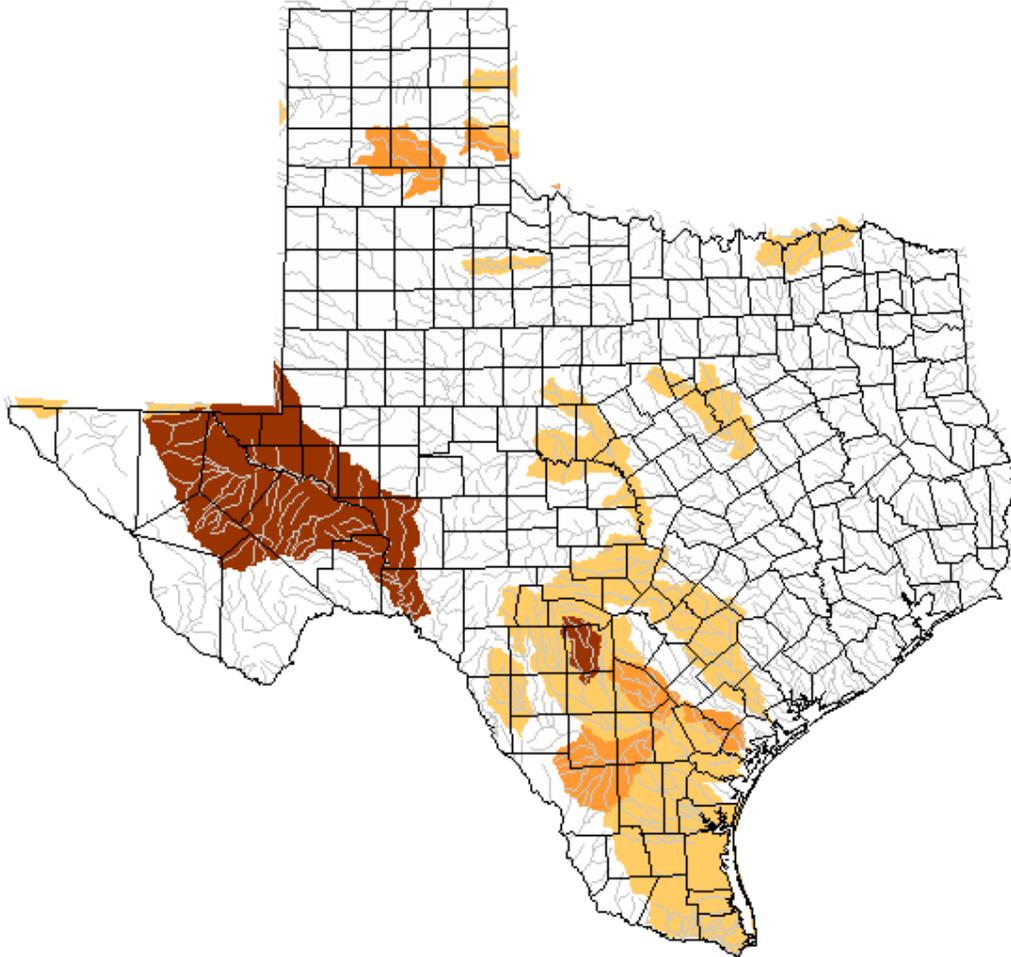
Conditions over the past month
have, in general, improved over
the Mid TX Coast while
remaining the same or
degrading slightly along the
Lower Texas Coast

- 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

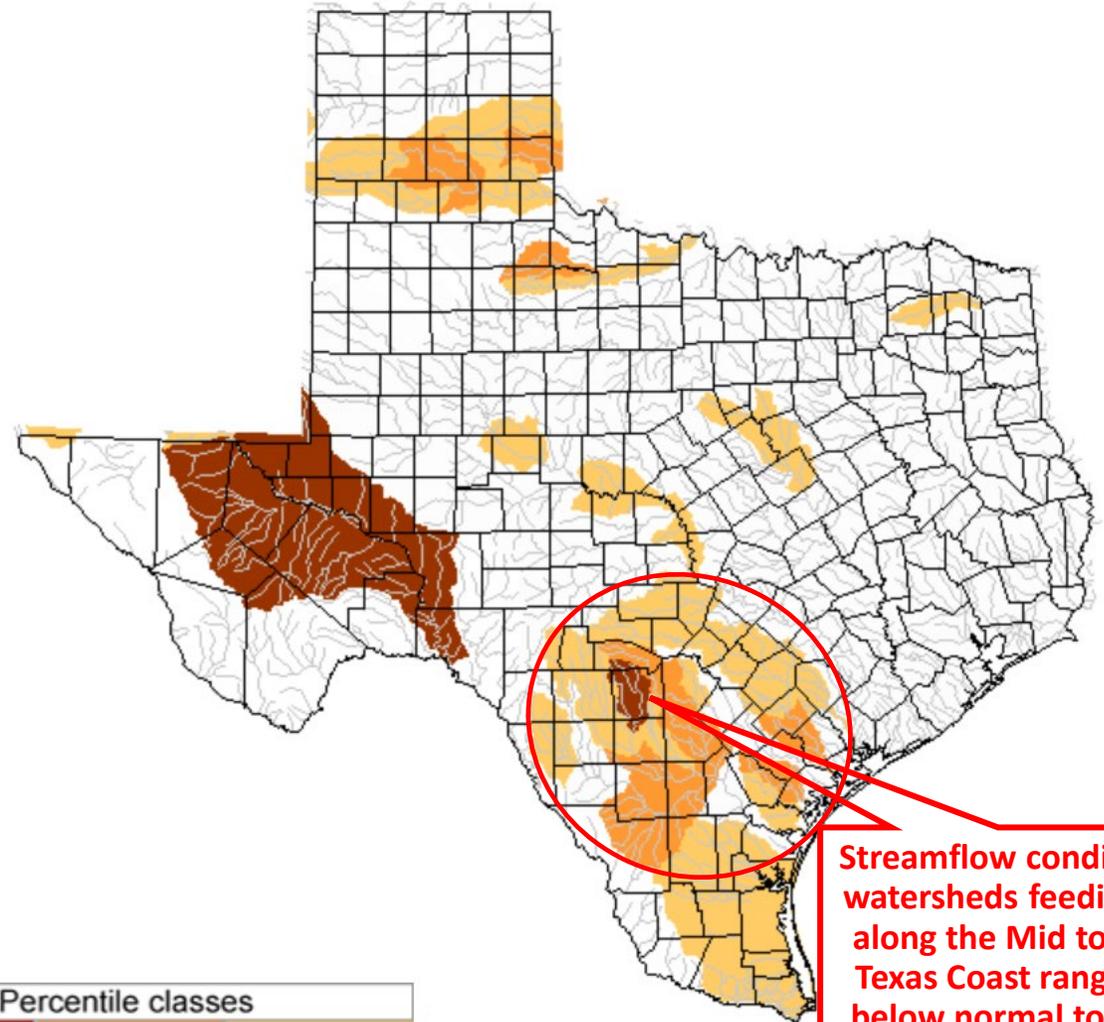
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Map of below normal 7-day average streamflow compared to historical streamflow for the day of year

Wednesday, January 13, 2021



Wednesday, January 20, 2021



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

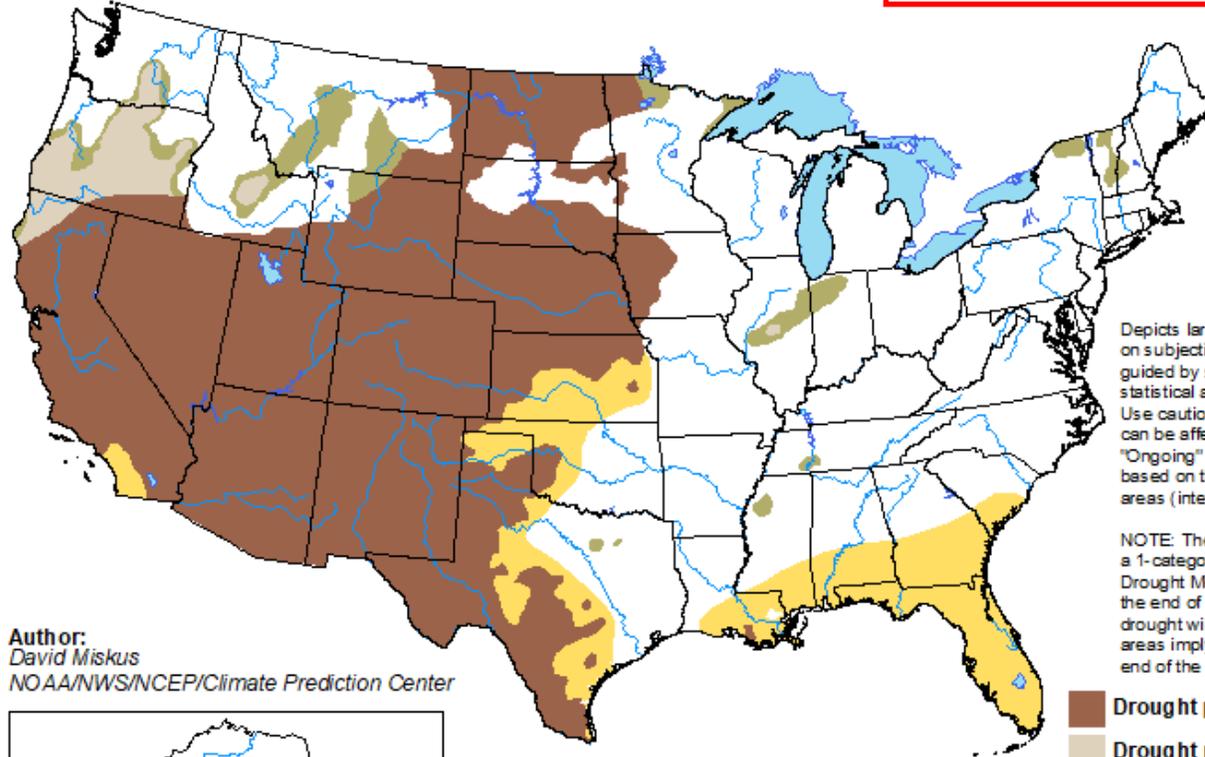
Explanation - Percentile classes			
Low	<=5	6-9	10-24
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal



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

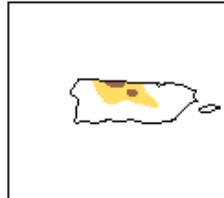
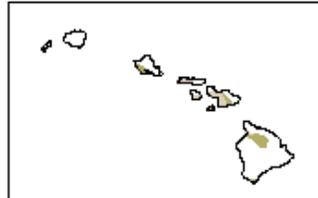
Valid for January 21 - April 30, 2021
Released January 21



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>

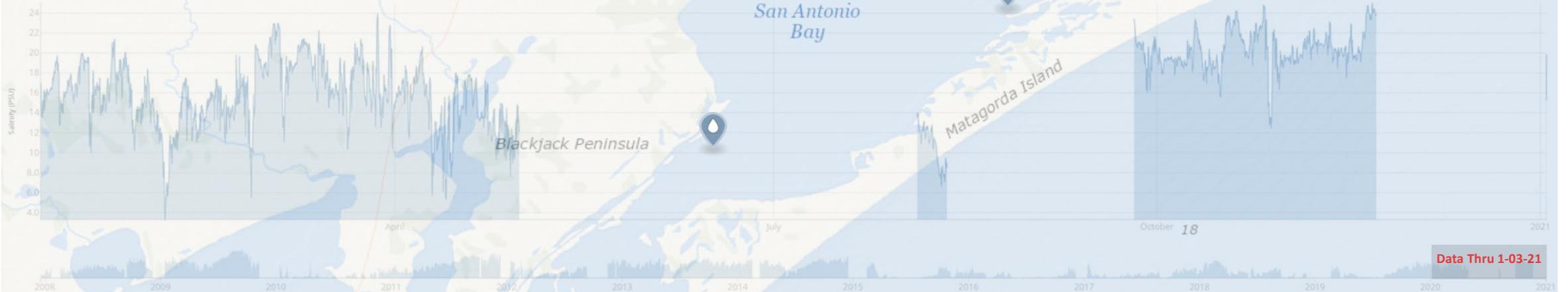
Link:
<http://go.usa.gov/3eZ73>

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 12 Months
Latest Salinity Measurement Reported by TWDB (Jan 3, 2021): 18.77 PSU

TWDB Monitoring Station: Guadalupe Delta



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



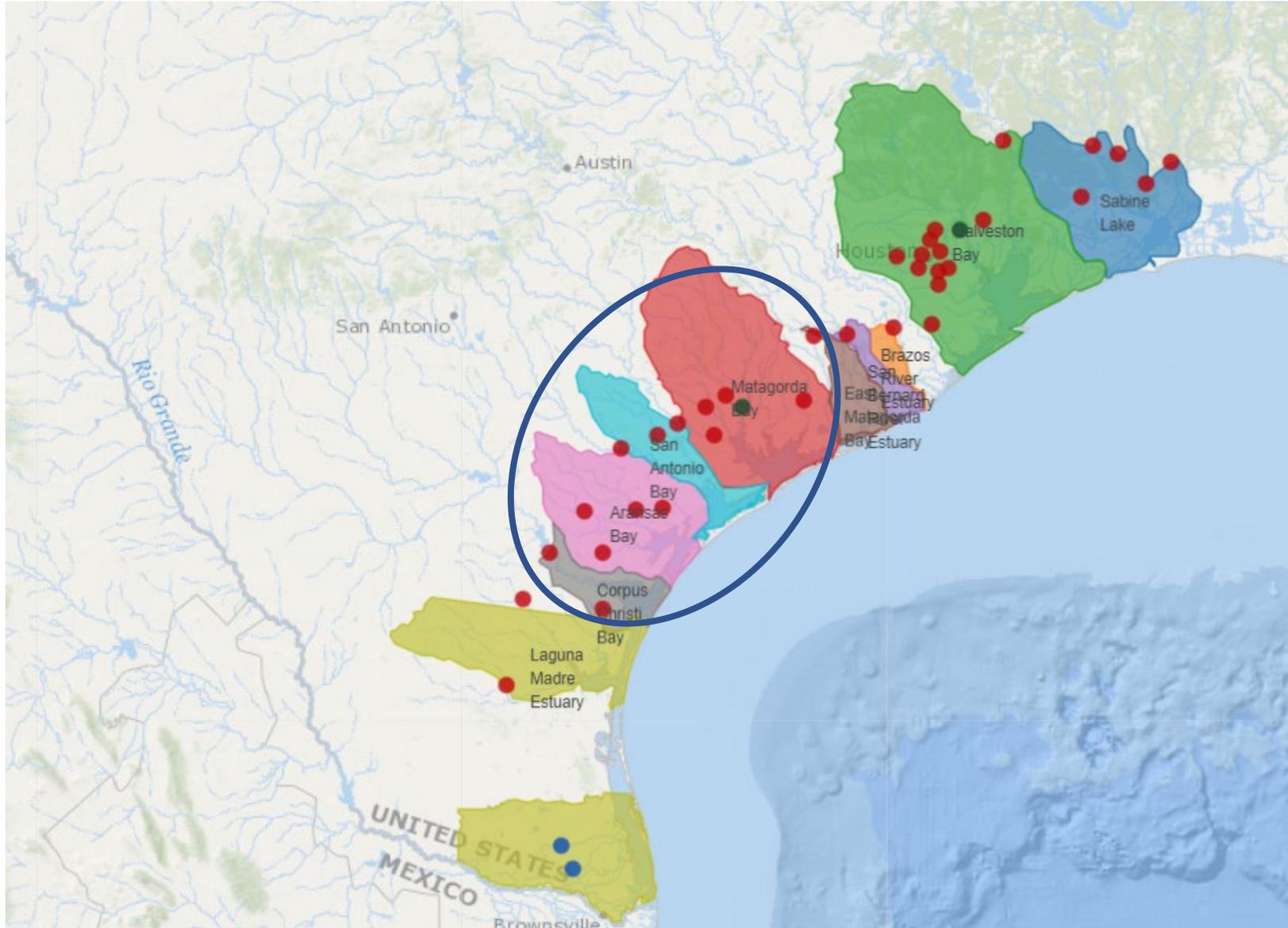
[James A. Dodson](#)

Program Facilitator/Project Manager

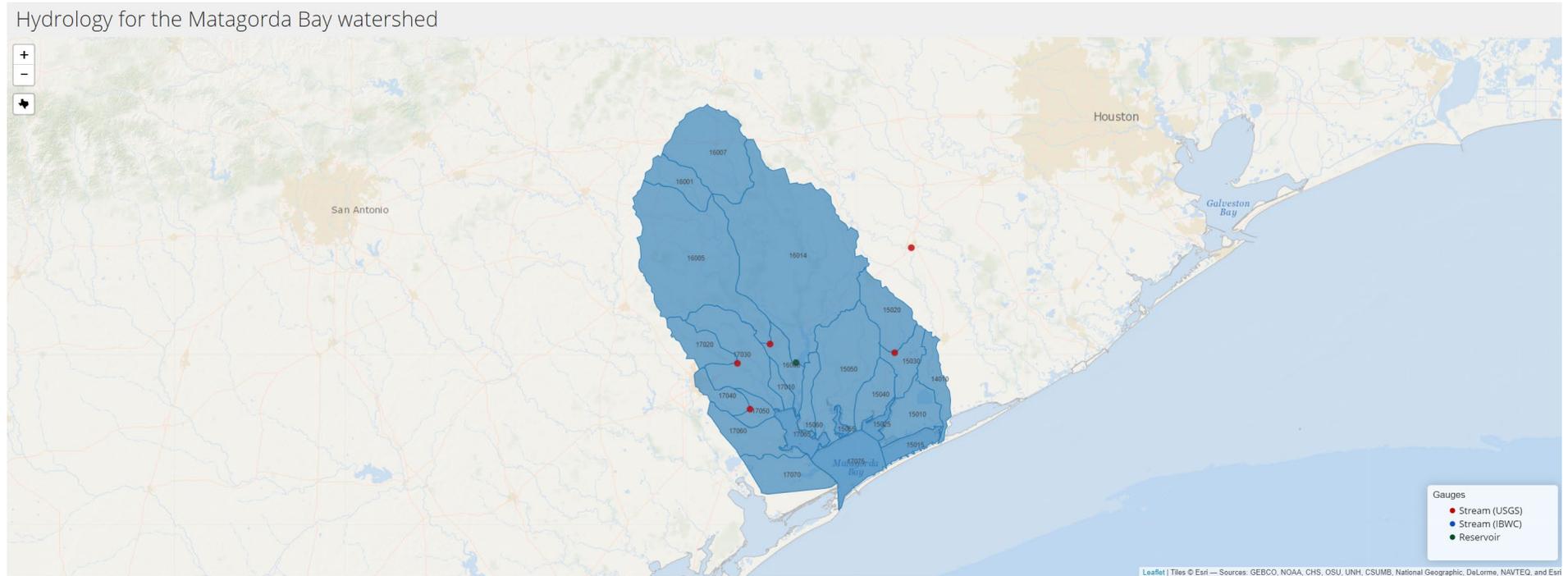
[San Antonio Bay Partnership](#)

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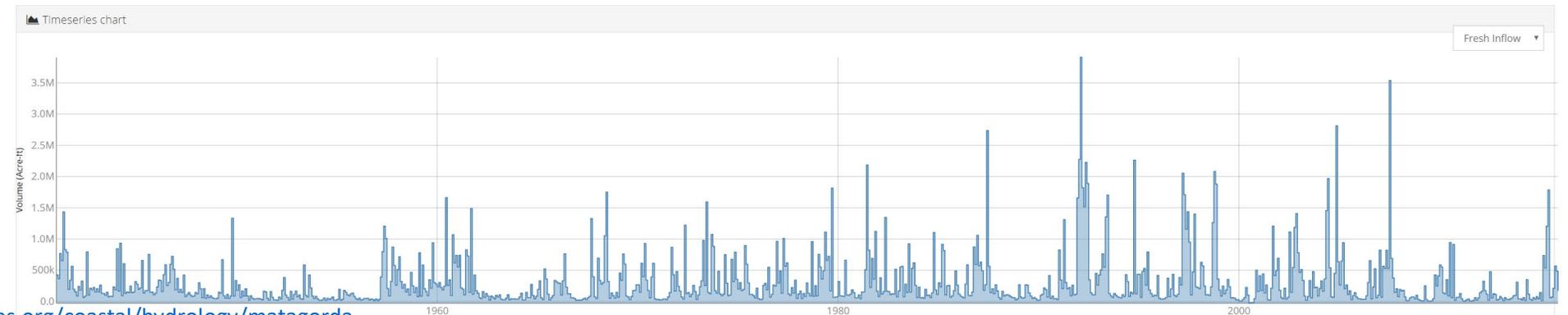
Historical Freshwater Inflows for Mid-Texas Estuaries:



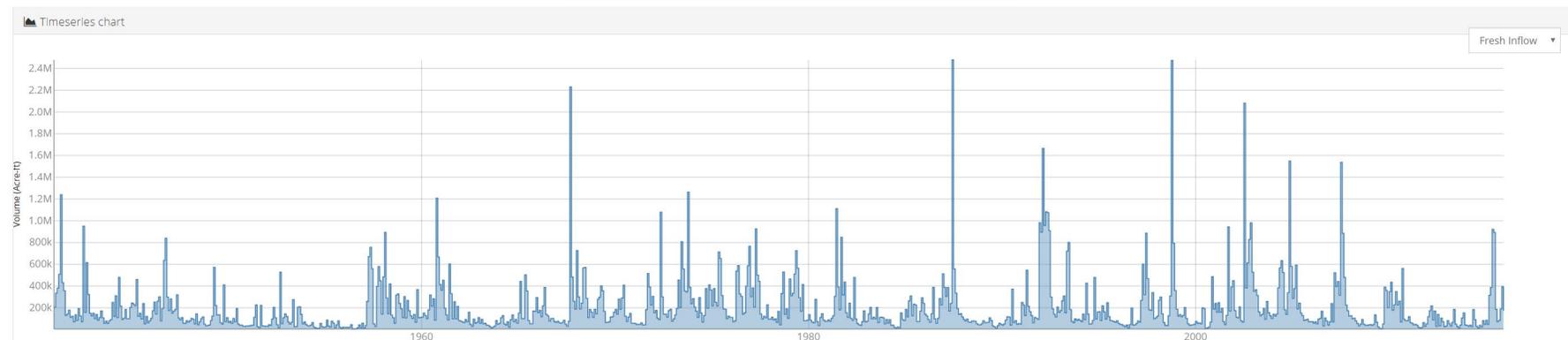
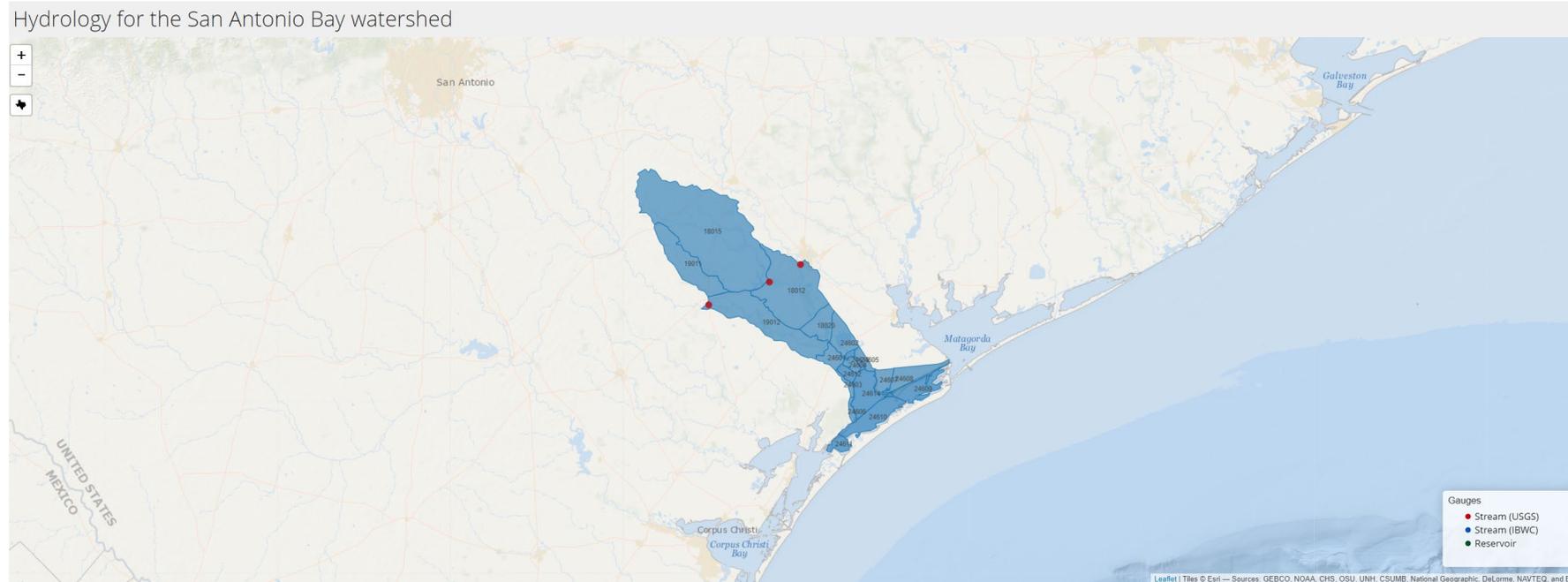
Historical Freshwater Inflows for Mid-Texas Estuaries: Matagorda Bay System



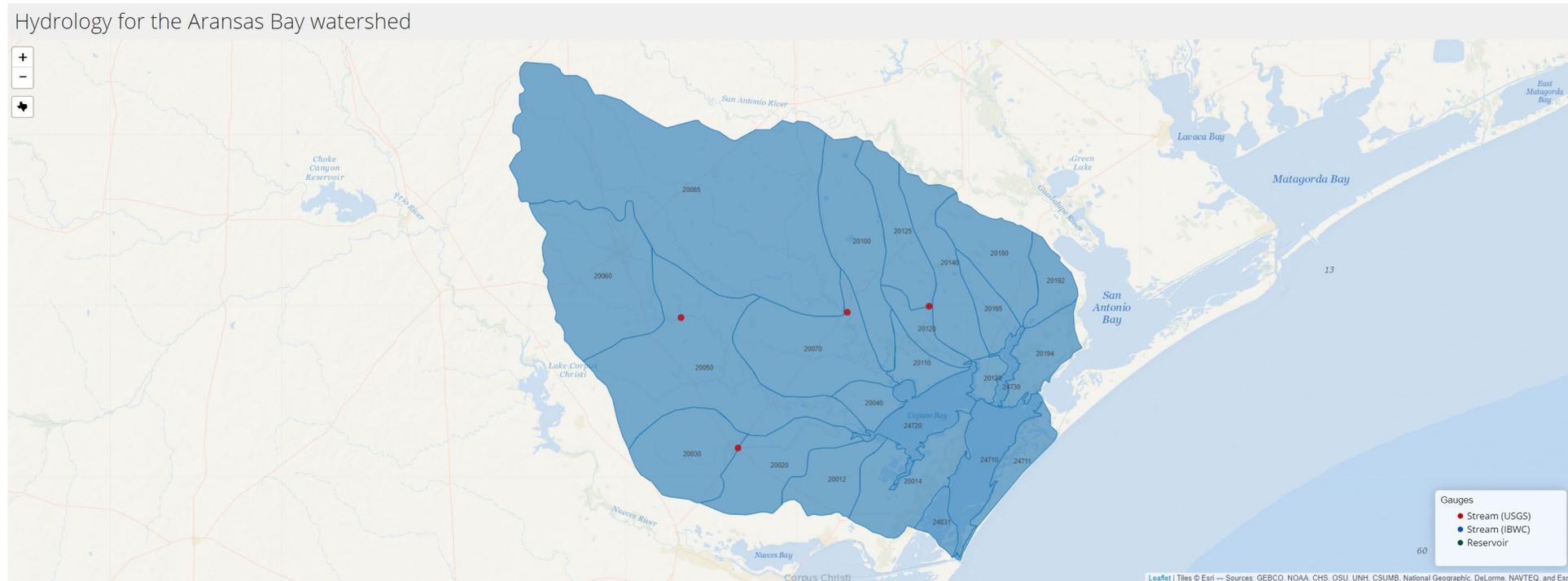
Download Daily Data Download Monthly Data Download Yearly Data Download Statistics



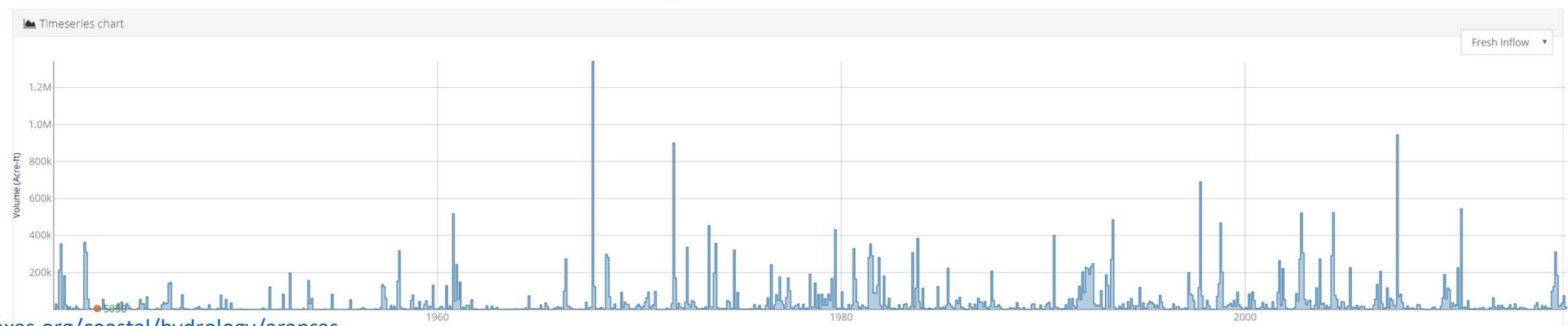
Historical Freshwater Inflows for Mid-Texas Estuaries: San Antonio Bay – Guadalupe Estuary



Historical Freshwater Inflows for Mid-Texas Estuaries: Aransas Bay System

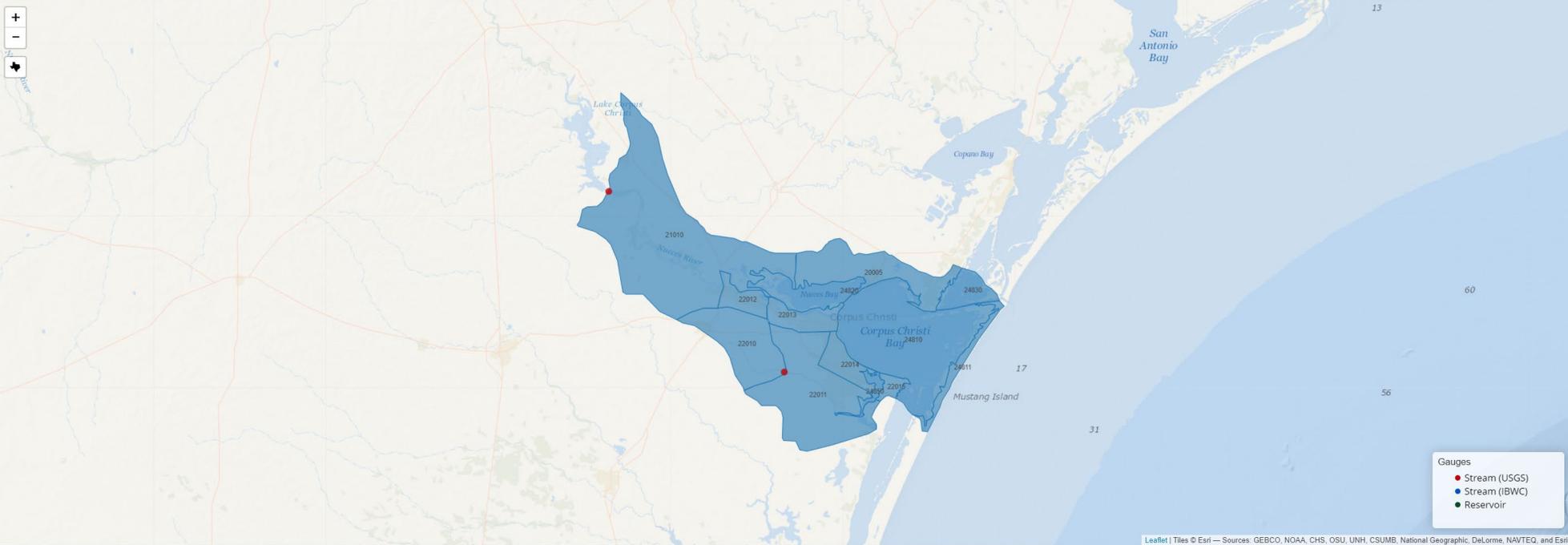


[Download Daily Data](#) [Download Monthly Data](#) [Download Yearly Data](#) [Download Statistics](#)



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

Hydrology for the Corpus Christi Bay watershed



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