

18th Annual Bell County Water Symposium

Brazos River Authority Water Supply System & Operations

November 15, 2018

Aaron Abel, Water Services Manager Brazos River Authority



Brazos River Authority Overview

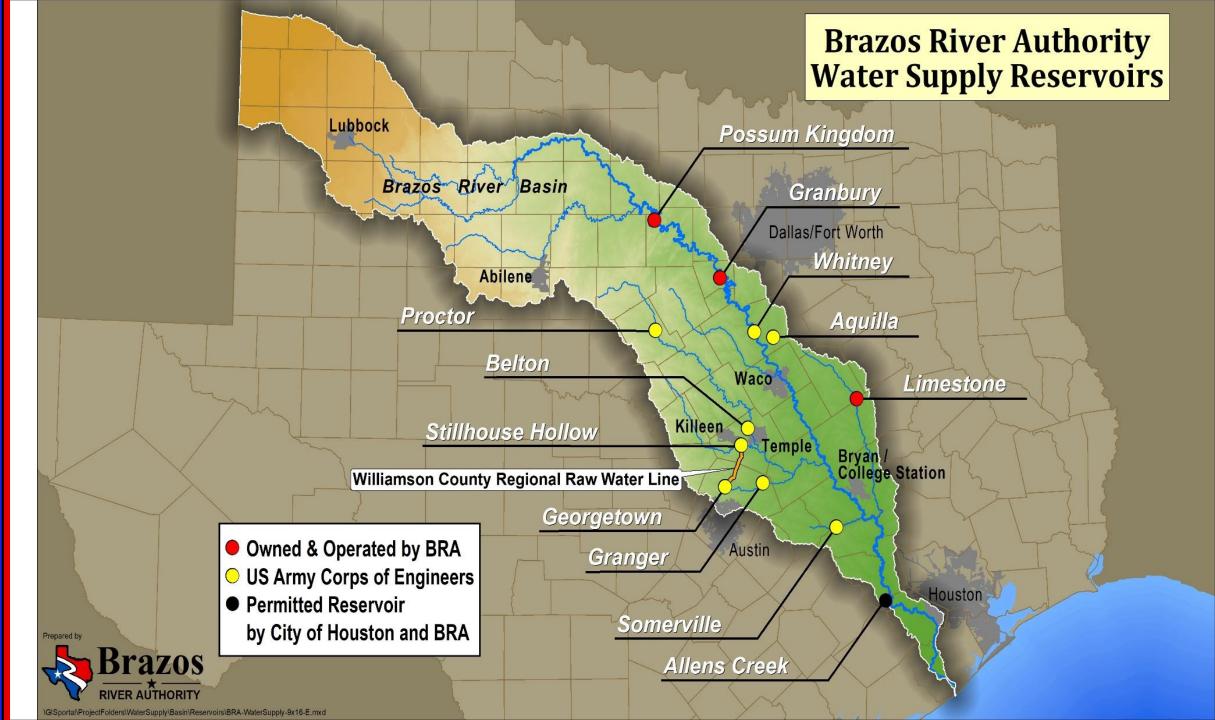
Our Mission

To develop, manage, and protect the water resources of the Brazos River basin

- Oldest river authority in Texas
- Created by the Texas Legislature in 1929
- First entity of its kind in the nation
- Self-funded (not appropriated), do not levy taxes
- 21 member Board appointed by Governor
- Territory:
 - Extends from the Texas-New Mexico state line west of Lubbock to the Gulf of Mexico near Freeport
 - More than 42,000 square miles
 - All or part of 76 counties









Top 10 Water Customers, 2018 TXU/Luminant (Granbury) Brazos River Basin **Use Type** Municipal **City of Cleburne** (Aquilla) Industrial Irrigation TXU/Luminant City of Cleburne (Limestone) (Whitney) **CUSTOMER ACRE-FEET NRG Energy** 104,837 **Bell County NRG Energy** TXU/Luminant 82,188 **WCID #1** (Limestone) **Bell County WCID #1** 62,509 **Central Texas WSC Gulf Coast Water Authority** 49,880 **City of Temple City of Round Rock City of Round Rock** 45,782 City of Georgetown 45,707 **City of Temple** 30,453 City of Georgetown **NRG Energy** (Lower Basin) **Dow Chemical Company** 16,000 **City of Cleburne** 15,000 **Gulf Coast Water Authority Central Texas WSC** 12,045 TOTAL 464,401 **Dow Chemical Company** Circle size is proportionate to acre-feet contract amount. Map is for general display only.



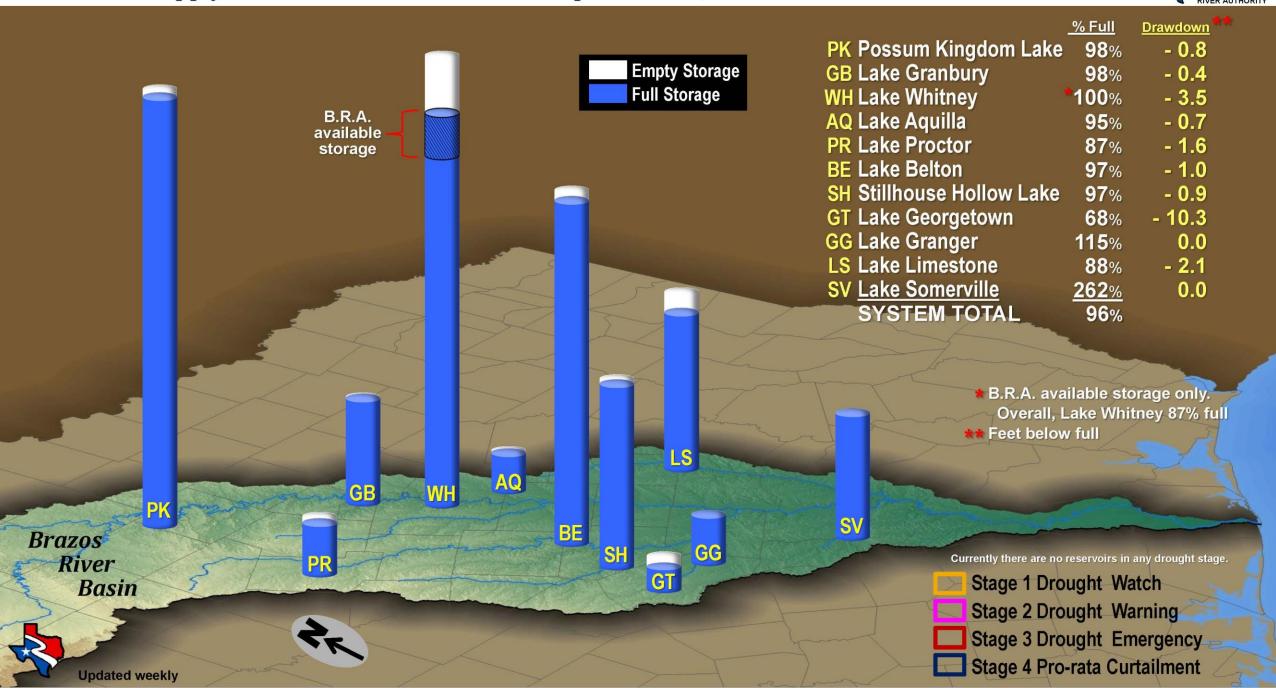
Hydrologic Extremes – A Texas Constant



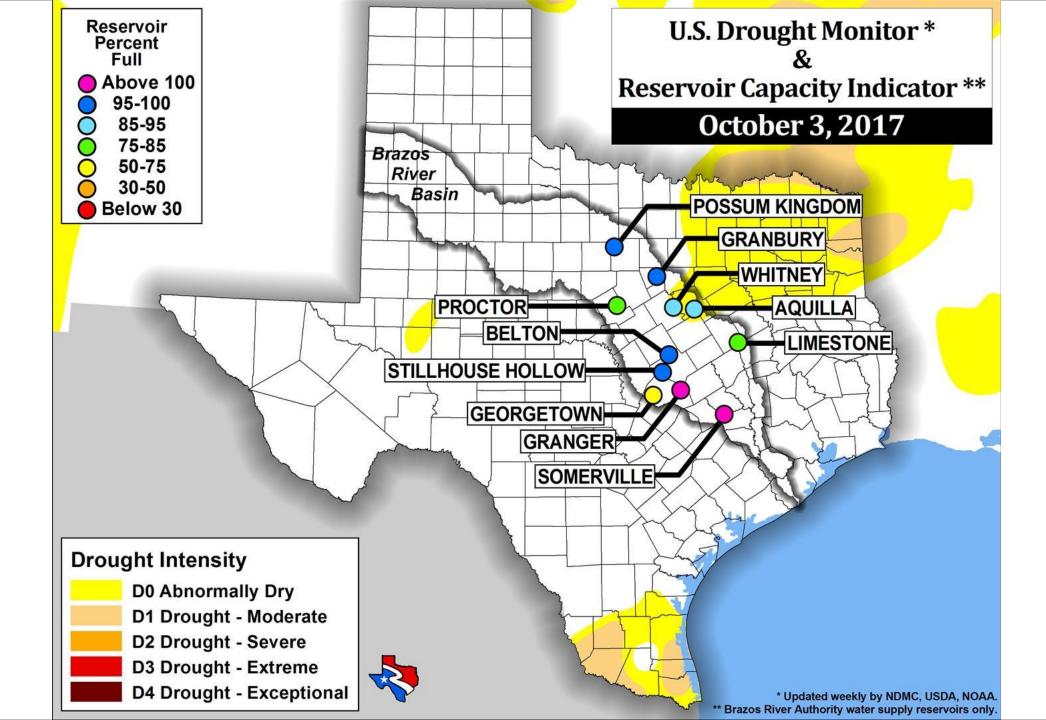


B.R.A. Water Supply Reservoirs "PERCENT FULL" September 13, 2017





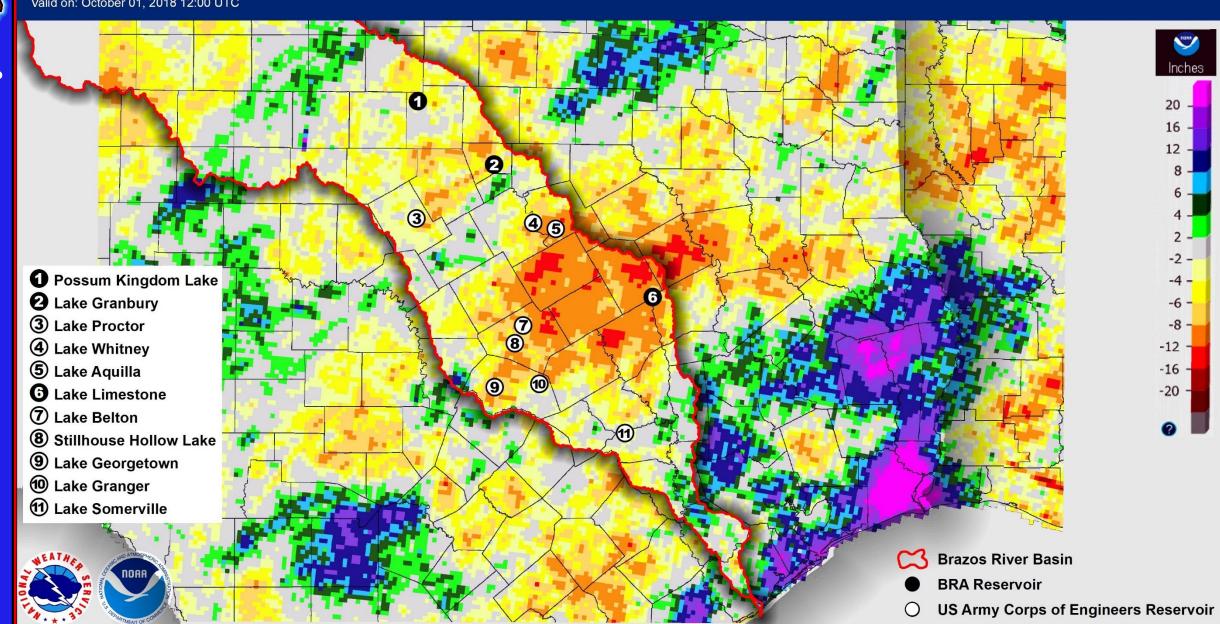






October 01, 2018 Water Year (Oct. 1) Departure Precipitation

Created on: November 05, 2018 - 14:24 UTC Valid on: October 01, 2018 12:00 UTC





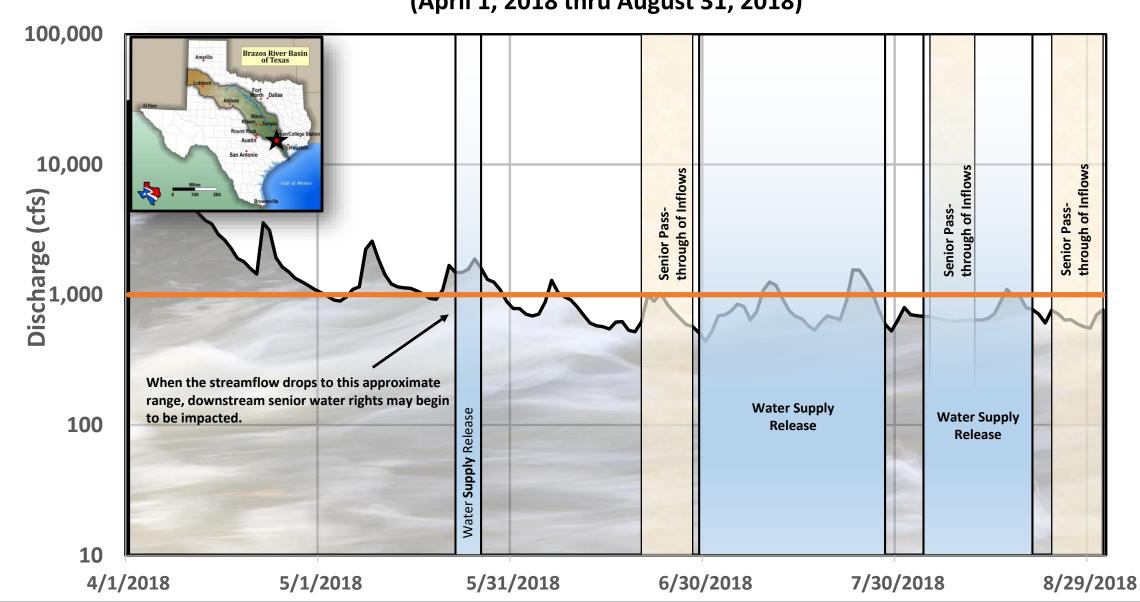
Brazos Watermaster

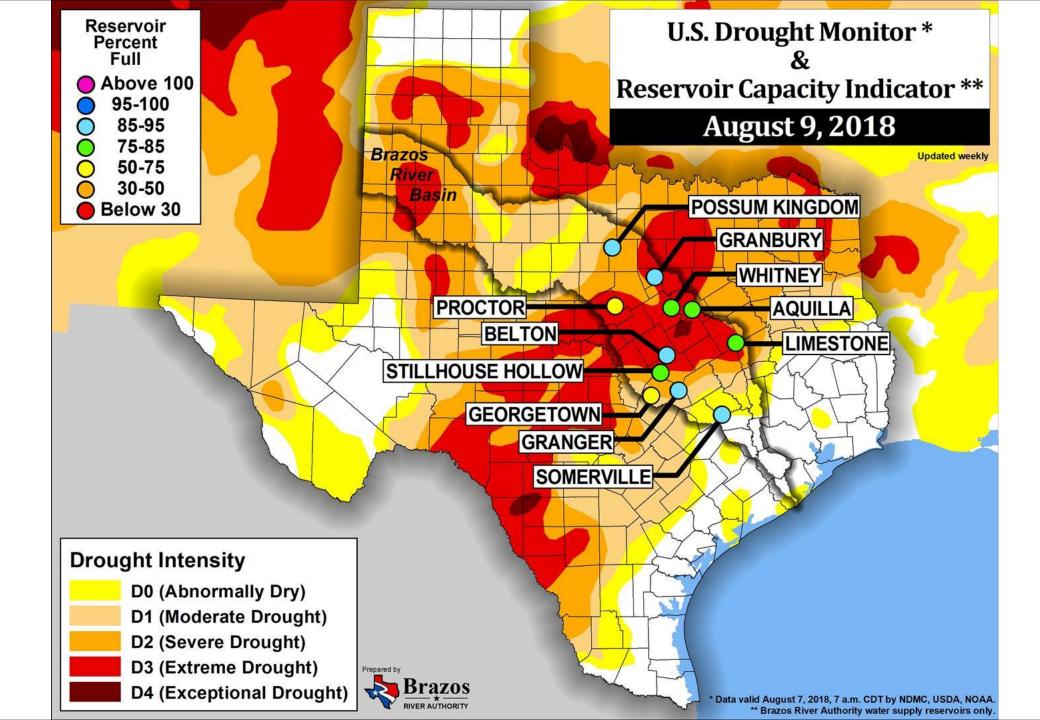
- Regulates water rights from Possum Kingdom Lake to the Gulf
- Priority System older rights have priority over newer rights
- Cannot require BRA to release water from reservoir storage
- Can require BRA to release or pass inflow through a reservoir





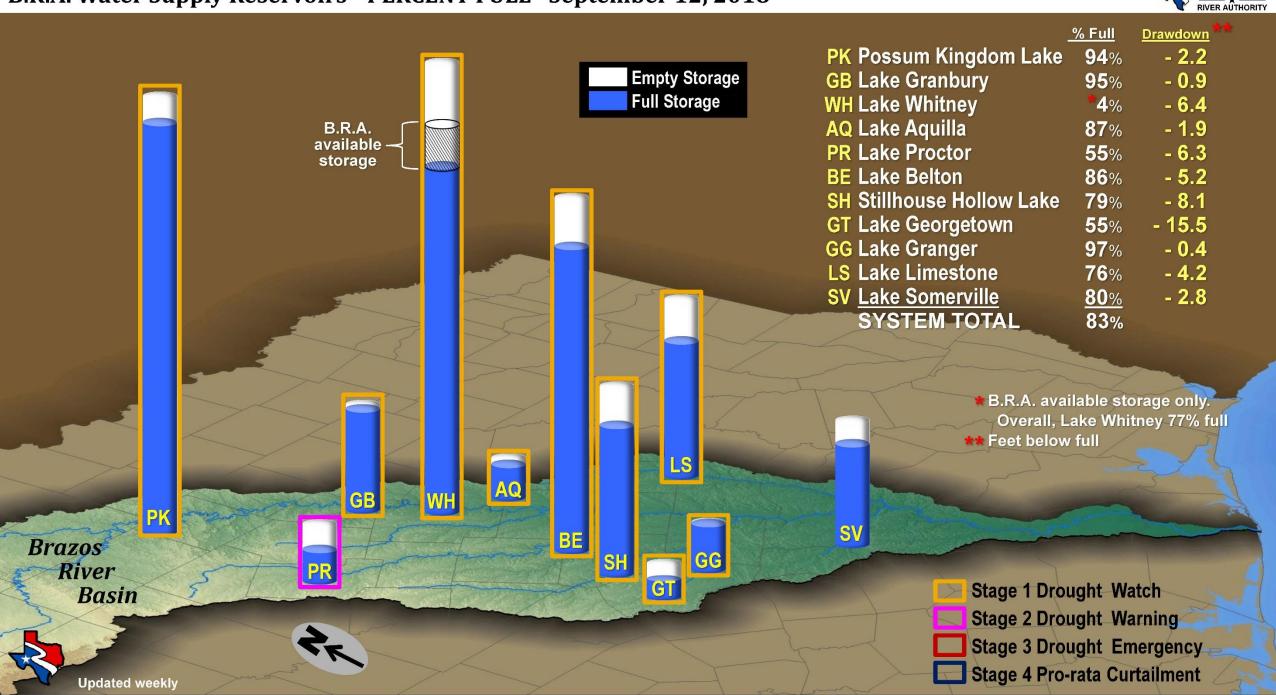
Mean Daily Discharge, Brazos River near Hempstead (April 1, 2018 thru August 31, 2018)





B.R.A. Water Supply Reservoirs "PERCENT FULL" September 12, 2018





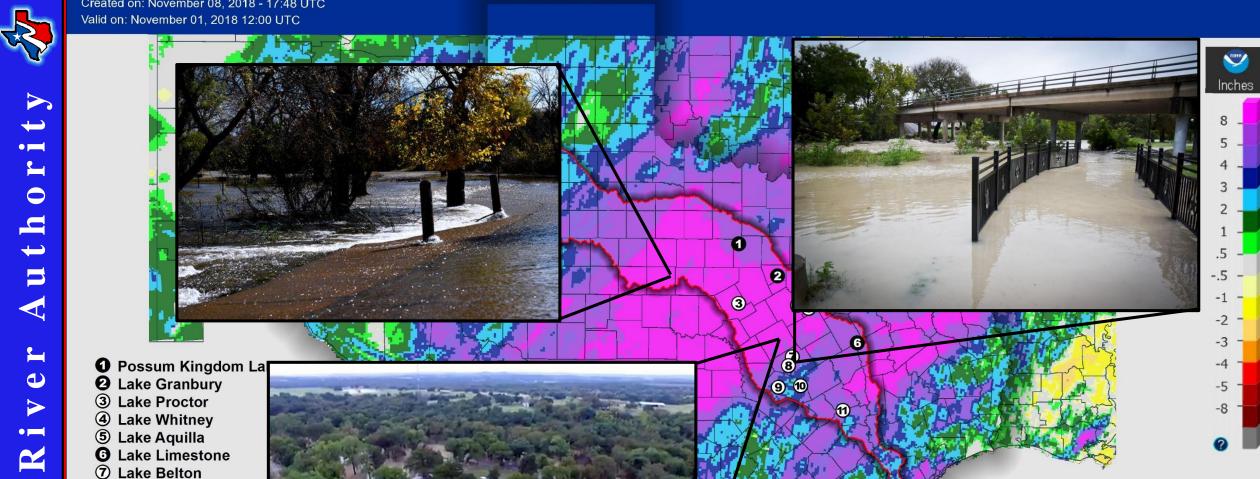
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August 01, 2018 Monthly Departure Precipitation Created on: November 08, 2018 - 17:47 UTC Valid on: September 01, 2018 12:00 UTC Inches • 1 0 T -3 **1** Possum Kingdom Lake 4 2 Lake Granbury -5 3 Lake Proctor -8 4 Lake Whitney 5 Lake Aquilla ~ **6** Lake Limestone 7 Lake Belton **8** Stillhouse Hollow Lake S 9 Lake Georgetown 10 Lake Granger 11 Lake Somerville **Brazos River Basin BRA Reservoir** G **US Army Corps of Engineers Reservoir** 1

September 01, 2018 Monthly Departure Precipitation Created on: November 08, 2018 - 17:47 UTC Valid on: October 01, 2018 12:00 UTC Inches 0 V -3 9 0 -8 **W**

October 01, 2018 Monthly Departure Precipitation

Created on: November 08, 2018 - 17:48 UTC



- 8 Stillhouse Hollow Lal
- 9 Lake Georgetown
- 10 Lake Granger
- 11 Lake Somerville



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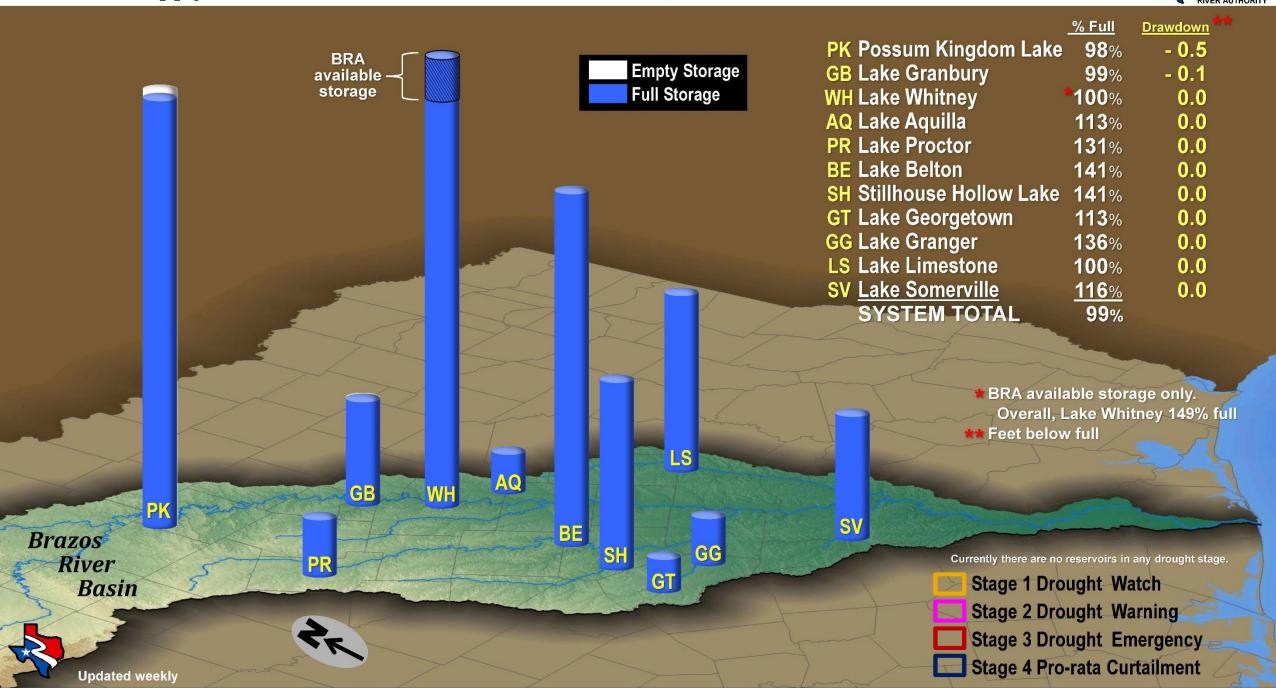
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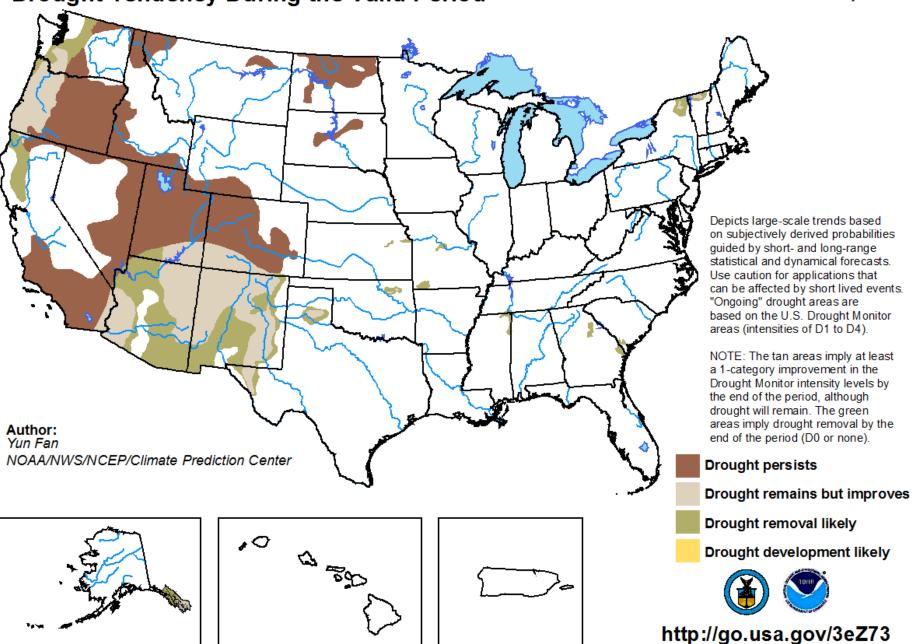






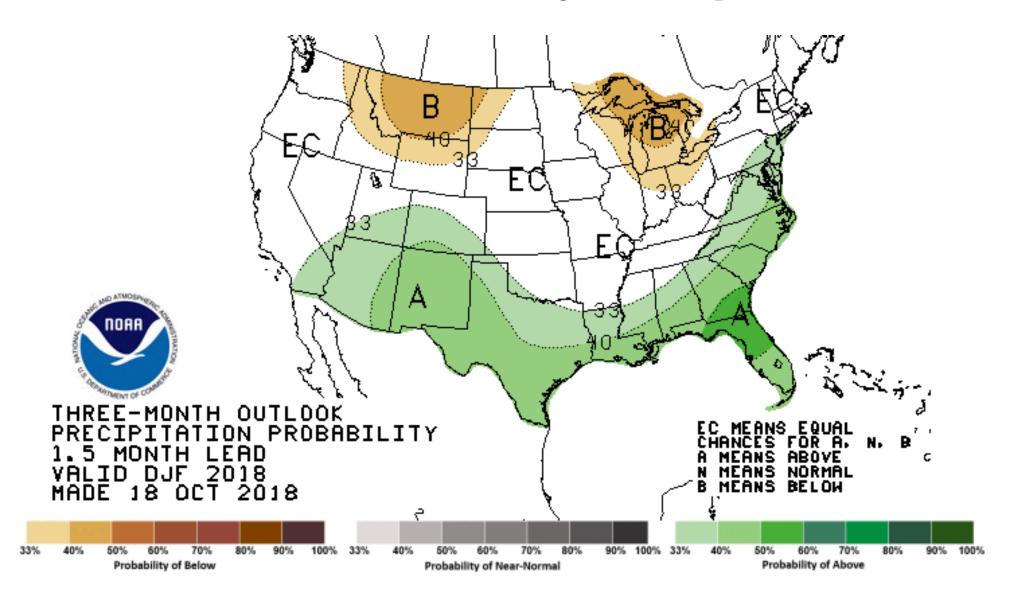
U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for October 18 - January 31, 2019 Released October 18, 2018





December – February Precip Outlook









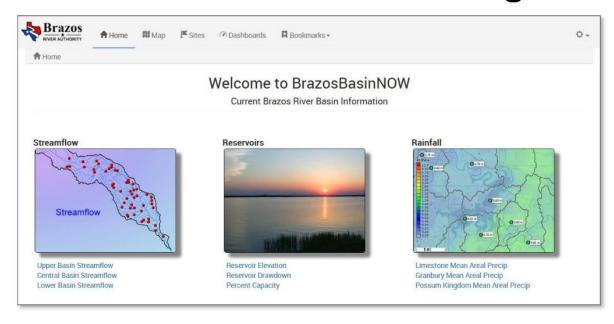
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Questions?

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