

# ***Fort Worth District***

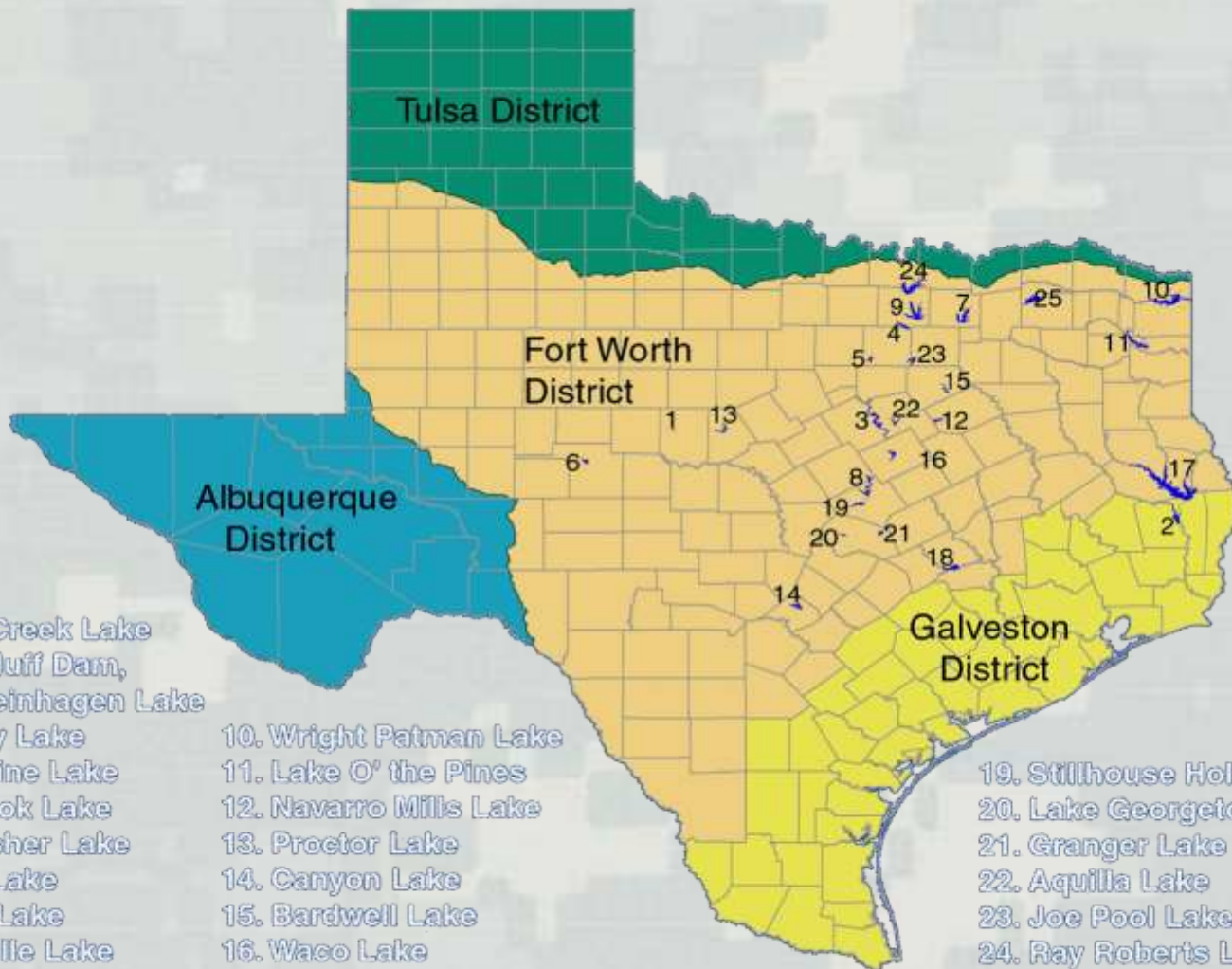
## ***Red River Valley Association***

**20th Annual Texarkana Regional  
Water Resource Conference**

**June 1<sup>st</sup>, 2016**



# Civil Works Boundaries



- 1. Hords Creek Lake
- 2. Town Bluff Dam,  
B.A. Steinhagen Lake
- 3. Whitney Lake
- 4. Grapevine Lake
- 5. Benbrook Lake
- 6. O.C. Fisher Lake
- 7. Lavon Lake
- 8. Belton Lake
- 9. Lewisville Lake

- 10. Wright Patman Lake
- 11. Lake O' the Pines
- 12. Navarro Mills Lake
- 13. Proctor Lake
- 14. Canyon Lake
- 15. Bardwell Lake
- 16. Waco Lake
- 17. Sam Rayburn Reservoir
- 18. Somerville Lake

- 19. Stillhouse Hollow Lake
- 20. Lake Georgetown
- 21. Granger Lake
- 22. Aquilla Lake
- 23. Joe Pool Lake
- 24. Ray Roberts Lake
- 25. Jim Chapman Lake  
and Cooper Dam



U.S. ARMY



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# ***Fort Worth District Lakes within the Red River Basin***

<b>Fort Worth District Lakes</b>	<b>Fiscal Year 2015 Obligations</b>	<b>Fiscal Year 2016 Projected Obligations</b>	<b>Fiscal Year 2017 President's Budget</b>
<b>Jim Chapman Lake</b>	<b>\$1,683,200</b>	<b>\$1,494,800</b>	<b>\$1,624,000</b>
<b>Lake O' the Pines</b>	<b>\$3,210,700</b>	<b>\$3,590,600</b>	<b>\$4,210,000</b>
<b>Wright Patman Lake</b>	<b>\$3,849,000</b>	<b>\$4,655,000</b>	<b>\$3,371,000</b>

FY 16 Significant Maintenance packages: WP Design/repair of embankment erosion (\$700k), Chapman Reshape and grade toe and drainage ditches (\$150k)



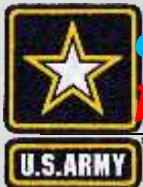




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# Flooding Events of 2015-2016

- *Wright Patman experienced a new pool of record on 08Jan2016. The reservoir peaked at 254.47 feet at 77% of the flood pool, eclipsing the 09May1966 record of 252.64 feet. Wright Patman is expected to return to conservation pool around 01May2016. On 10 May, another new record was set of 254.55.*
- *Jim Chapman also had a pool of record on 01Dec2015 at 447.72 feet, then rose to another new pool of record on 29Dec2015 to 447.98 feet. The flood pool reached 100% three times in 2015 with a maximum of 131% of flood pool. The old pool of record was 446.96 feet on 18Dec2001.*
- *Lake O' the Pines peaked at 242.27 feet on 02Jan2016 with 57% of the flood pool filled and will return to conservation pool around 18Mar2016. On 4 May, it was back to 242.26.*

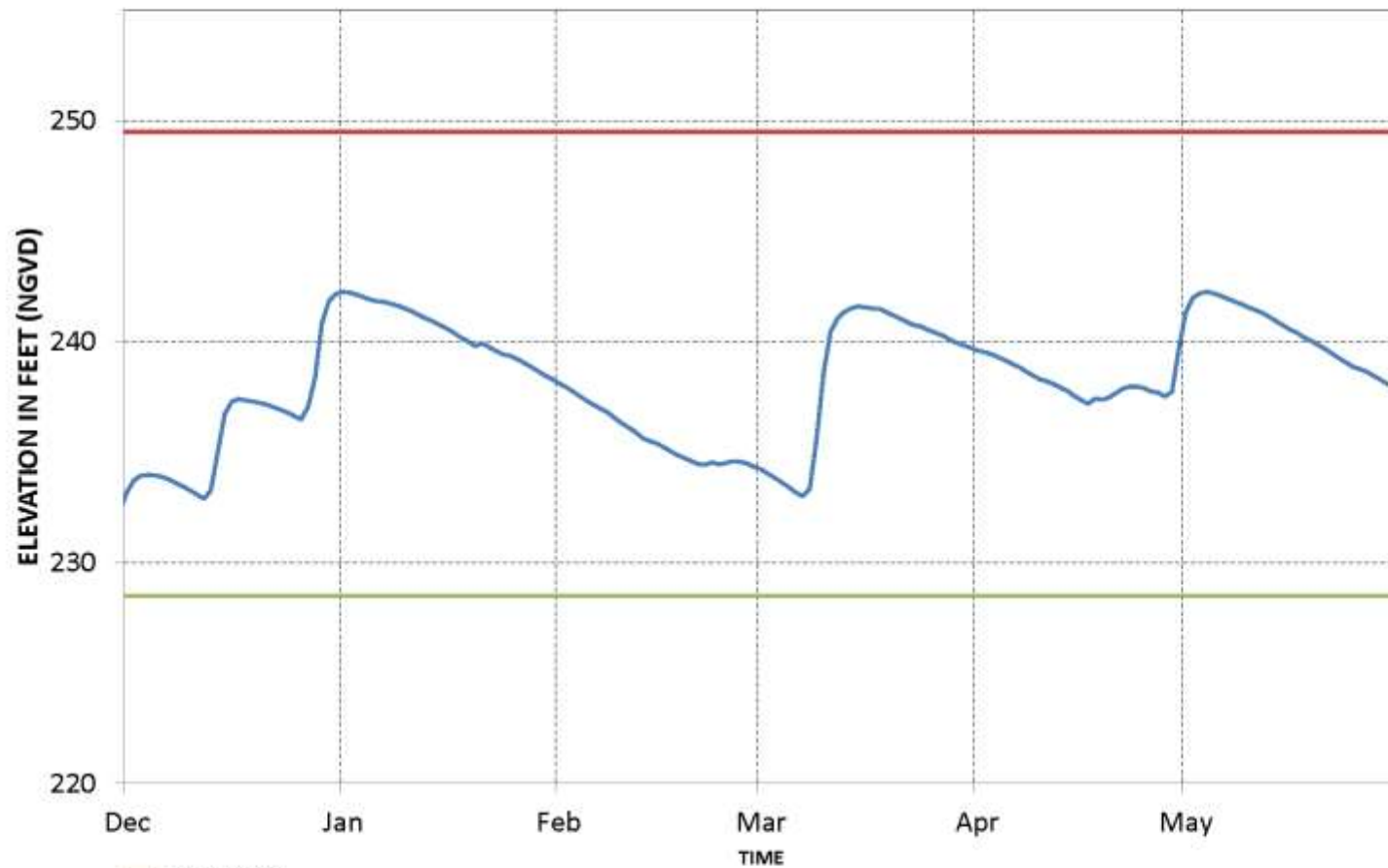


# Current Status as of 30 May 16

- Jim Chapman – Elev 440.2, right at normal pool of 440. The State Park is open, and most facilities are available.
- Lake O' the Pines – Elev. 238.22, 8.22 feet above normal, occupying 190,000 Ac-ft (34%) of the flood pool. Most facilities are closed, but some boat ramps are open.
- Wright Patman – Elev. 251.85, 24.35 feet above normal, occupying 1.5 million Ac-ft (64%) of the flood pool. Vast majority of facilities are closed.







- Lake Elevation
- Spillway Crest Elevation 249.5
- Conservation Pool Elevation 228.5

**LAKE O' THE PINES**  
LAKE ELEVATION VS. TIME

Notes: Conservation pool follows the seasonal rule curve of 228.5-230.0



- Lake Elevation
- Spillway Crest Elevation 259.5
- Conservation Pool Elevation 220.0

**WRIGHT PATMAN LAKE**  
**LAKE ELEVATION VS. TIME**

Note: Conservation pool follows the seasonal rule curve of 220.6 - 227.5



# In Summary...

- The Corps Reservoirs continue to function as designed....
- One significant repair is being made, a slide repair at Wright Patman Lake. The design is being done by the Chicago District, and construction will be performed this summer by the Tennessee Valley Authority.



# Invasive Species

- Continue to be a concern at both Lake O' the Pines and Wright Patman.
- The worst is water hyacinth at Pines.
- Both lakes are at risk for giant salvinia and zebra mussels.



# ***Civil Works Non-O&M Activities Red River Tributaries***

- ***Sulphur River Basin Feasibility Study***
  - ***Focuses on reallocation of storage at Wright Patman Reservoir.***
  - ***Study ranks as one of the Southwestern Division's priority projects.***



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# *Sulphur River Basin Study*

- **Feasibility Cost Share Agreement (FCSA)**
  - *Agreement between Government and Sulphur River Basin Authority – originally executed 24 February 2005.*
  - *Cost share for study is 50/50; up to 100% of local sponsor's share can be work-in-kind*
  - *Study is limited to 3 years and \$3,000,000, unless an exception is granted. **A request for exception is being developed.***
  - *Dam Safety Analysis being incorporated into the study, likely delaying completion of the study until late 2018.*





# ***Sulphur River Basin Study***

- **The Sulphur River Basin is one of the only areas within Texas with a potential for significant additional water supply.**
- **Proposed Reallocation of flood storage to water supply in Wright Patman is a viable alternative.**
- **Considerations include environmental impacts, cultural resources, and dam safety.**
- **Will not meet all water supply needs requested by the interested water providers.**
- **Will likely require Congressional Authorization, due to significance.**



# ***Sulphur River Basin Study***

## ***Current Schedule***

- **Public Scoping Meetings** 23-24 Feb 2016
- **Tentatively Selected Plan** December 2016
- **Draft Report (released to the public)** February 2017
- **Agency Decision Meeting** January 2018
- **Final Report** May 2018
- **Civil Works Review Board** August 2018
- **Chief's Report** December 2018



# **CONTACT INFORMATION**

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