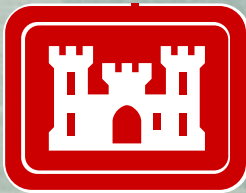


U.S. Army Corps of Engineers Tulsa District

OKC SAME POST Presentation 26 June 2014
District Key Topics / Drought Update

COL Richard Pratt
District Commander

June 26, 2014



® US Army Corps of Engineers
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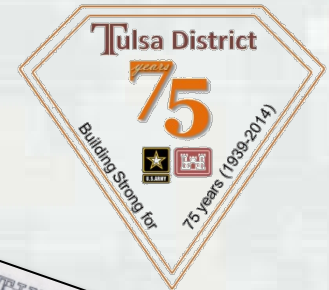
Colonel Rich Pratt

- *Enlisted 1988*
- *Commissioned 1990 at Norwich University*
- *Deployments*
 - ▶ *1991 Operation Desert Storm (Kuwait)*
 - ▶ *1994 Operation Uphold Democracy (Haiti)*
 - ▶ *1997 Operation Joint Endeavor (Hungary/Bosnia)*
 - ▶ *2002 Operation Enduring Freedom (Afghanistan)*
 - ▶ *2003 Operation Iraqi Freedom (Iraq)*
 - ▶ *2009 Operation Iraqi Freedom (Iraq)*
- *Commander, Tulsa District, USACE*

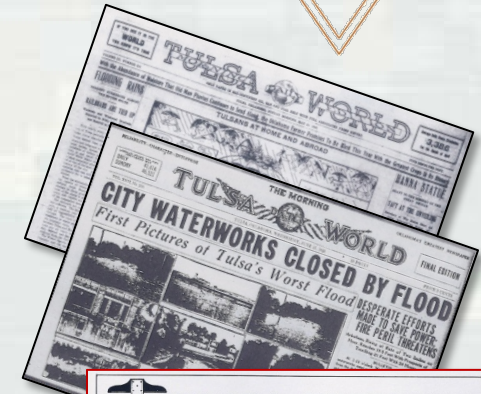




Pre-Tulsa District



- 1927 – Historic 1927 flood in the Mississippi Valley
- 1930s – Dust Bowl drought and the Great Depression wrack the Arkansas and Red River basins
- July 1935 – Corps notifies Congress that the Arkansas River is technically – but not economically – feasible
- 1936 – Landmark Flood Control Act creates Southwestern Division and authorizes 211 flood control projects in 31 states
- July 14, 1937 – Southwestern Division begins work in a territory that includes the upper Arkansas, White, and Black River basins, among others.
- 1939 – War breaks out in Europe
- Jan 1, 1939 – Denison District is formed in the Red River Basin, primarily to build Denison Dam
- **July 1, 1939 – Tulsa District is formed from Little Rock District and receives \$11 million for work on eight authorized projects**



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Tulsa District is created and begins work for eight projects.

1939

District is building Tulsa Aircraft Assembly Plant which becomes home of McConnel Douglas.

1940

1941

Military construction for the Army Air Corps is transferred from Quartermaster Corps to USACE.

1944

Denison District merges with Tulsa District after Denison Dam is completed.

1945

1946

Flood Control Act authorizes recreation facilities at reservoirs.

Arkansas River navigation is placed in a "deferred for further study" category.

1954

1957

MKARNS project authorized in Rivers and Harbors Act.

MKARNS is ready for use: 448 miles, 17 locks and dams.

1970

1986

Navigation system construction begins.

District working under FEMA responds to OKC bombing for public works and engineering.

1995

2000

Passage of Water Resources Development Act of 1986, allows local/fed cost-sharing.

Tenkiller auxiliary Spillway completed and dedicated. It has 5 50x35 high tainter gates.

2006

2011

Mingo Creek Local Protection Project completed. It has 23 floodwater detention sites.

District completes all Base Realignment and Closure Act of 2005 construction.



U.S. ARMY



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Civil Works Mission



Water Supply

- 50% of Corps water supply contracts
- 18 lakes, 104 water supply customers
- 2.2 million people served



Tenkiller Lake

Water Quality

- Enhances municipal, industrial, irrigation usage
- Protects endangered species
- Improves degraded streams



Red River Chloride, Area VI



Webbers Falls Turbine

Hydroelectric Power

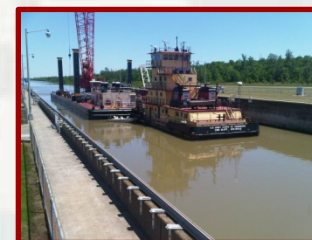
- 8 power plants produce 585,000 kw capacity
- Generates power to 8 million customers



Honors Cottage, Skiatook Lake

Recreation

- 267 recreation areas at 33 projects
- 22.5 million visitors in 2012

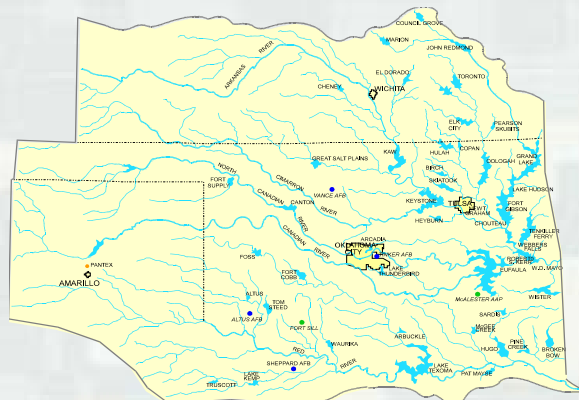


Inland Navigation (MKARNS)

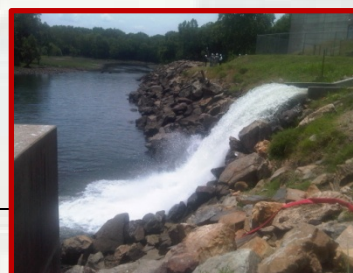
- 5 locks & dams
- 3 major ports



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Grand Lake



Environmental Stewardship

- Tenkiller Low Flow Pipe
- Supersaturated Dissolved Oxygen System (SDOX)



Flood Risk Management

- 38 Corps dams + 10 others
- 15,950,000 acre feet of flood storage
- Arkansas River Basin: \$11,144B in cumulative flood damage reductions
- Red River Basin: \$1,936B in cumulative flood damage reductions





Military Mission



- Engineering
- Construction
- Installation Support
- Environmental Management



KC 46A Program
Altus AFB



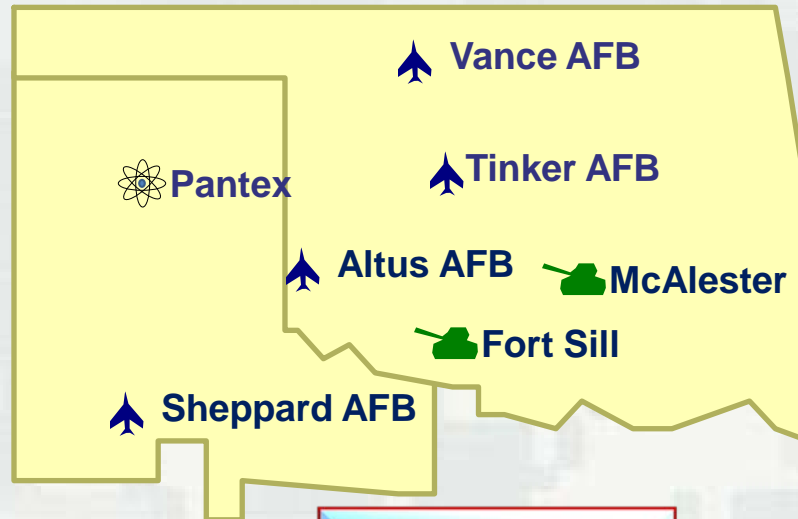
Control Tower
Vance AFB



Medical Facility
Tinker AFB



ENJPT Training Facility
Sheppard AFB



Reserve Center
McAlester Army
Ammunition Plant

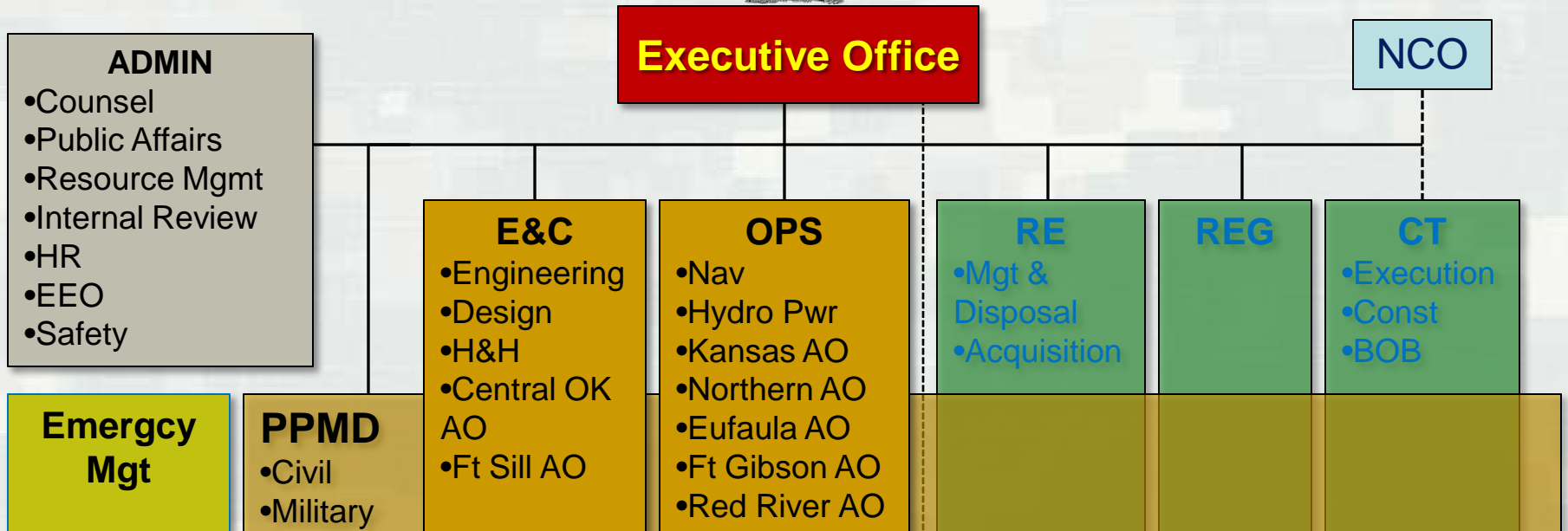


Air Defense Artillery School
Fort Sill

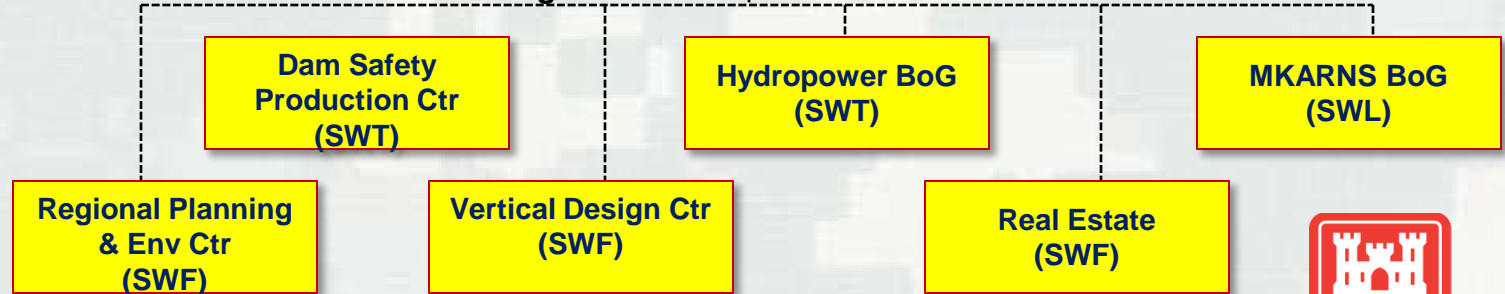


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SWT Organization



Southwestern Division Regionalization



AO-Area Office
 BOB-Business Oversight Branch
 BoG-Board of Governance
 CT-Contracting
 EEO-Equal Opportunity
 EM-Emergency Mgmt
 Env-Environmental
 H&H-Hydraulics and Hydrology
 HR-Human Resources
 MKARNS-McClellan-Kerr Arkansas
 River Navigation System
 Nav-Navigation Office
 NCO-National Contracting
 Organization
 OPS-Operations Div
 PPMD-Programs & Project Mgmt
 REG-Regulatory
 RE-Real Estate



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Mississippi River Commission

August 10-11, 2014

Objective

- The objective of the Mississippi River Commission is to listen to partners, stakeholders and the public regarding the use of water resources in the local and regional area

Purpose

- Partner with key associations and interest groups
- Meet with key groups to help enhance relationships and broaden collaboration
- Utilize diverse forums for collaboration and education



Opportunity

- The MKARNS Navigation system was selected for the August 2014 Mississippi River Commission (MRC) low water inspection



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Public/Private Partnerships

Opportunities

- Through public/private partnerships, provide services that no one agency can provide by themselves
- Prevents, or minimizes, reductions in levels of service
- Builds Partnerships

Challenges

- Agencies (Federal/State/Local) have increased infrastructure maintenance/repair requirements
- Agencies have increased demand for services
- Agencies have decreased resources (people and money)



Examples

- Lower Illinois River Trout Fishery (SWPA, ODWC, Water Users, Trout Unlimited)
- Keystone Bridge (ODOT)
- Canton Fishery Response Plan (OKC/ODWC)
- Keystone Salt Creek Camping (Mannford)
- MKARNS Emergency Response
- John Redmond Reservoir



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KC-46A



Current Program Summary

- Tinker AFB: FY2014, \$8.6M
FY2015, \$111M
- Altus AFB: FY2014, \$30.85M

Tinker AFB

- FY2014 Land Acquisition, \$8.6M
- FY2015 Two Bay Multi Use Maintenance Hangar, \$63M
- FY2015 Depot Maintenance Complex Infrastructure Support, \$48M
- FY-16 thru FY-26: 7 Hangars Including 12 Docks

Altus AFB

- FY2014 Renovate Facility for 97 Operations & Maintenance Group \$1.2M
- FY2014 ADAL Squadron Operations/Aircraft Maintenance Unit \$7.4M
- FY2014 Fuselage Trainer Ph 1 \$6.3M
- FY2014 Flight Training Center (FTC) Ph1 \$12.6M
- FY2014 ADAL Hangar for Tail Dock \$3.35M
- FY2017 thru 2019: FTC Ph2 & Fuselage Trainer Ph 2; Out Year: FTC Ph3

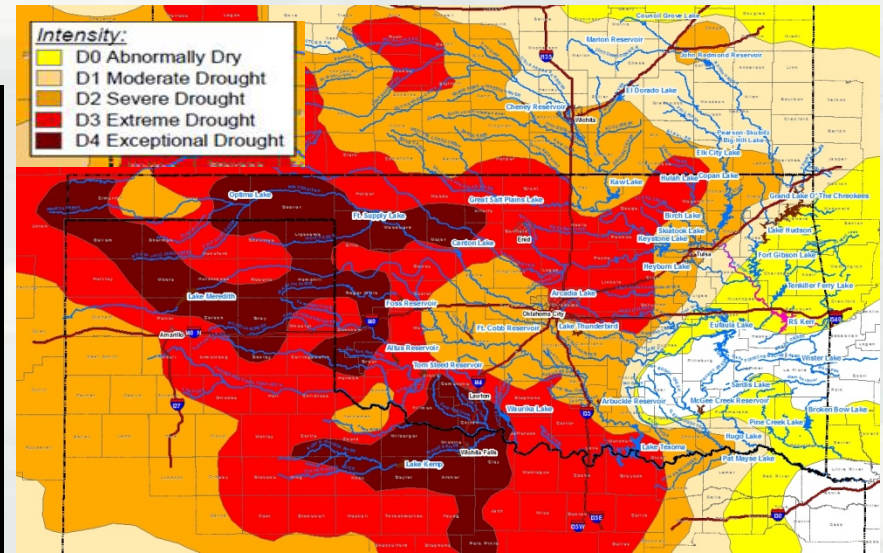


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Tulsa District Drought

Issue

- We are in a period of drought
- Manage effects using Lake Drought Management Plans
- Adhere to contractual agreements as dictated by law



Opportunity

- Encourage conservation
- Communicate with the public
- Protect fish habitats
- Take advantage of maintenance opportunities



Texoma (Level 2) – If elevation 607' is reached, notify SWPA to revise generation from rapid response, short term peaking purposes to critical power needs

Canton (Level 3) - Prepare for degrading water quality

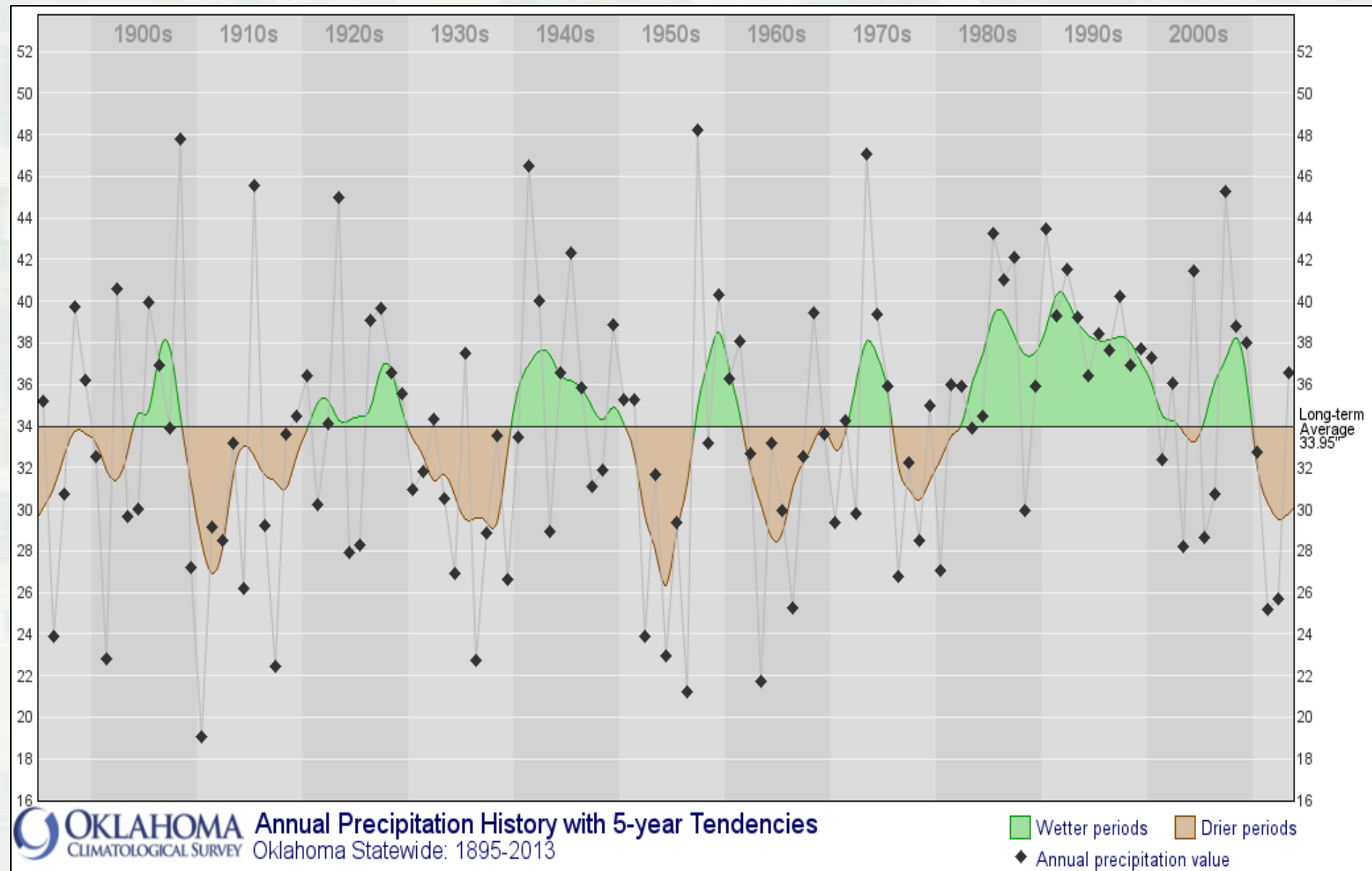
Waurika (Level 3) – Provide access to remaining water supply

SkiaTook (Level 1) – Reevaluate water quality releases



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100 Year Rainfall Chart





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