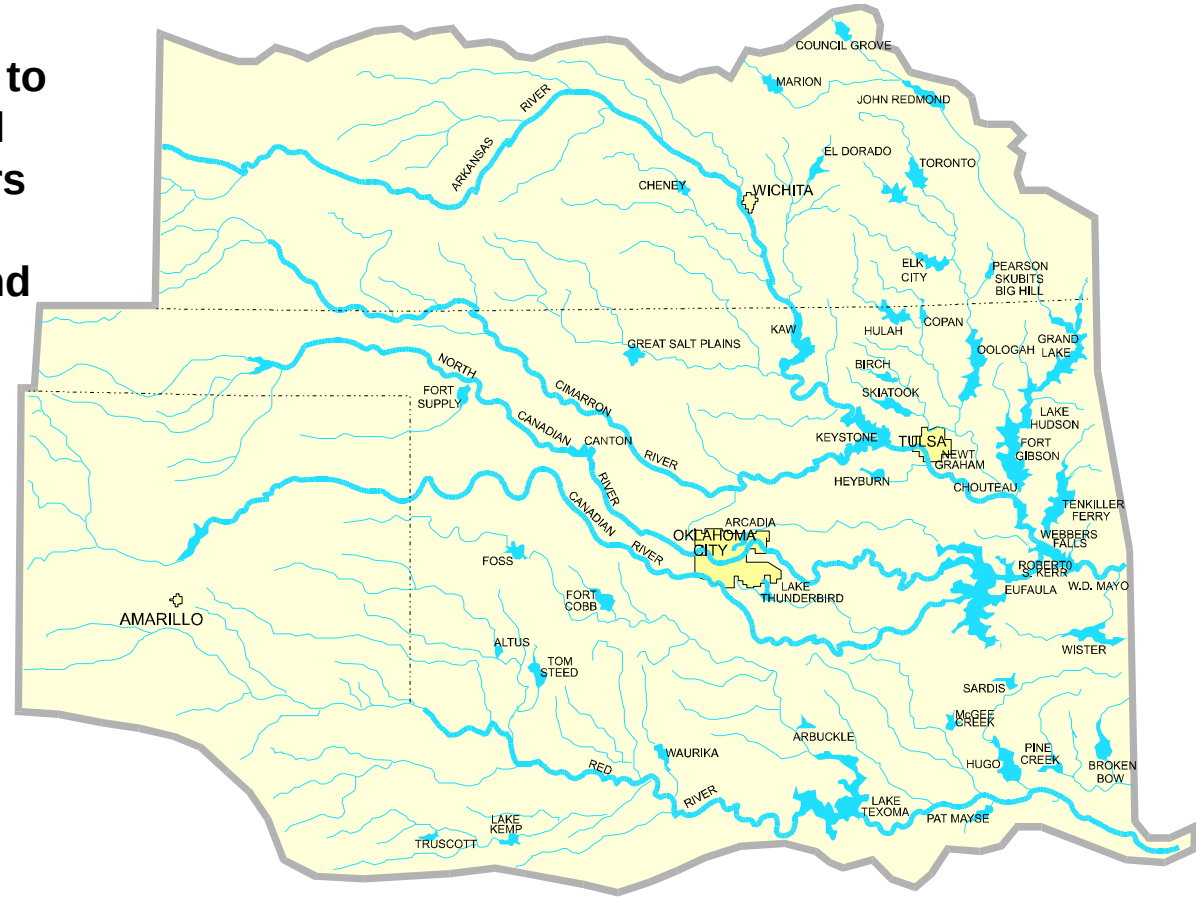
Oklahoma Governor's Water Conference

28 October 2008

Tulsa District – Building Strong!

TULSA ENGINEER DISTRICT CIVIL WORKS BOUNDARY

Our Civil Works (CW) Mission is to operate and maintain our federal projects and provide our partners with quality products and engineering services, on time and within budget.



CW Business Lines

- Flood Risk Management
- Navigation
- Hydropower
- Water Supply
- Environmental Stewardship
- Emergency Management
- Recreation Management

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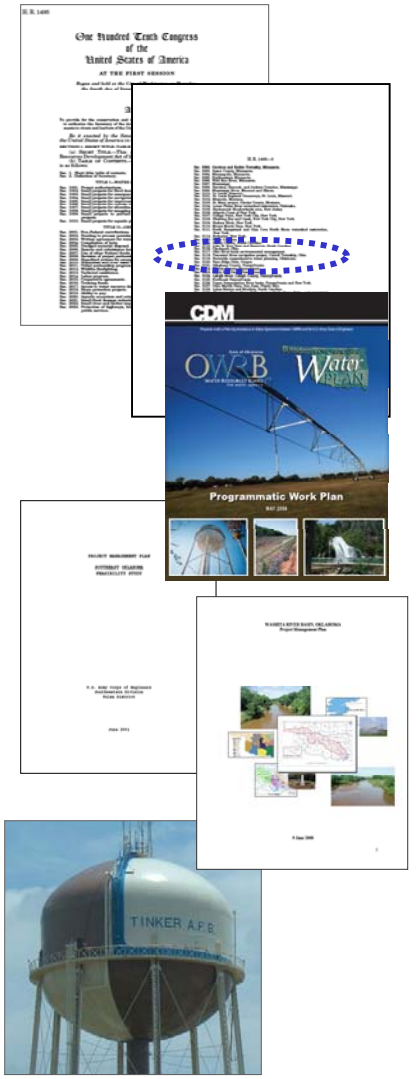
TULSA DISTRICT'S SUPPORT TO OWRB

- **Water Resources Development Act (WRDA) 2007:**
  - **1) Statewide comprehensive planning**
  - **2) Water related infrastructure projects**
- **Planning Assistance to States**
- **Southeast Oklahoma Watershed Study**
- **Washita River Watershed Study**
- **Coordinate military installation water requirements**



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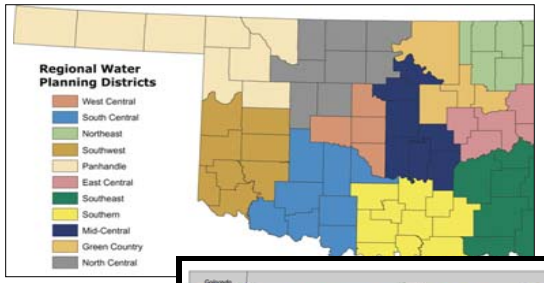
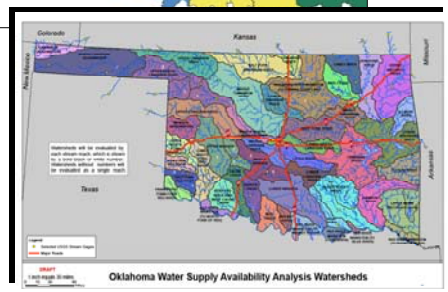
OWRB - USACE INITIATIVE

- **Best way to conduct water planning?**

  - **Get away from piecemeal studies – develop system level plans with regional strategies**





  - **Comprehensive studies tied to entire State and all water purposes (consumptive & non-consumptive)**

  - **Provide mechanism for prioritization and continual updates (assessments) from a State-wide perspective**

TULSA DISTRICT'S ROLES IN THE OCWP

- **Provide technical expertise and objective input with regard to State water resources now and for the future**

- **Provide Federal funds through existing authorities to supplement State funds**

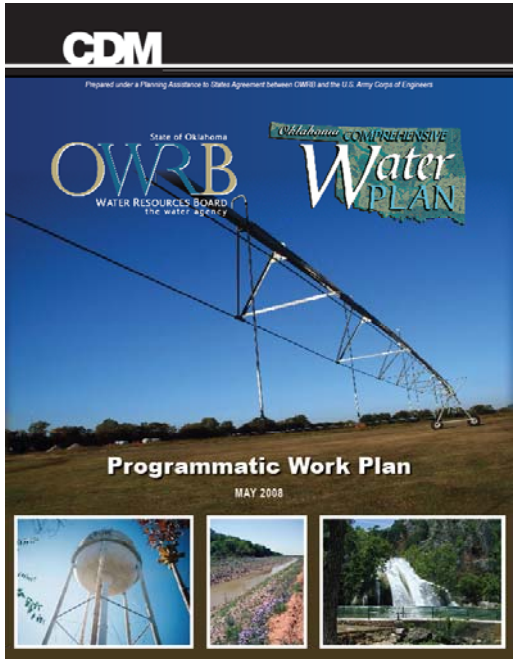
- **Provide input with regard to infrastructure projects**

PLANNING ASSISTANCE TO STATES (PAS)

- **Provides cost-shared Federal funds and technical expertise for water and water-related land studies associated with the OCWP**

- **OCWP Programmatic Work Plan (PWP) completed in May 2008 (provides the road map for USACE support to OWRB)**

- **Various follow-on activities, associated with PWP tasks, under way**



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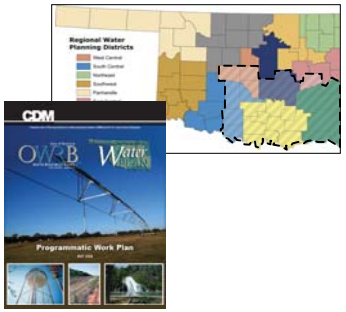
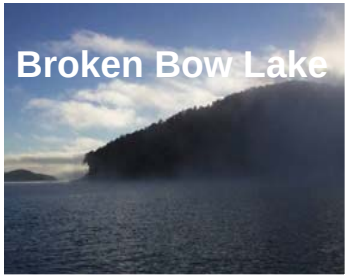
SOUTHEAST OKLAHOMA WATER RESOURCES STUDY

- The study generally includes a 29 county area in southeast Oklahoma and is consistent with the over-arching OCWP PWP initiatives



- Includes consideration of physical, socio-economic, and institutional systems that interact with this area

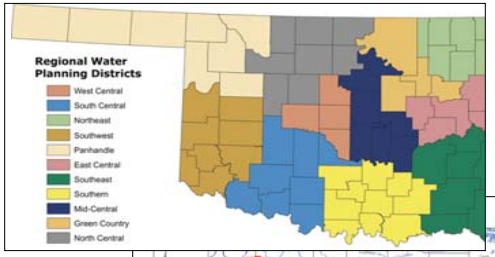


- Information, findings and recommendations, collectively referred to as the Southeast Oklahoma Watershed Management Plan, will be integrated within various sections of the OCWP report

WASHITA RIVER BASIN STUDY

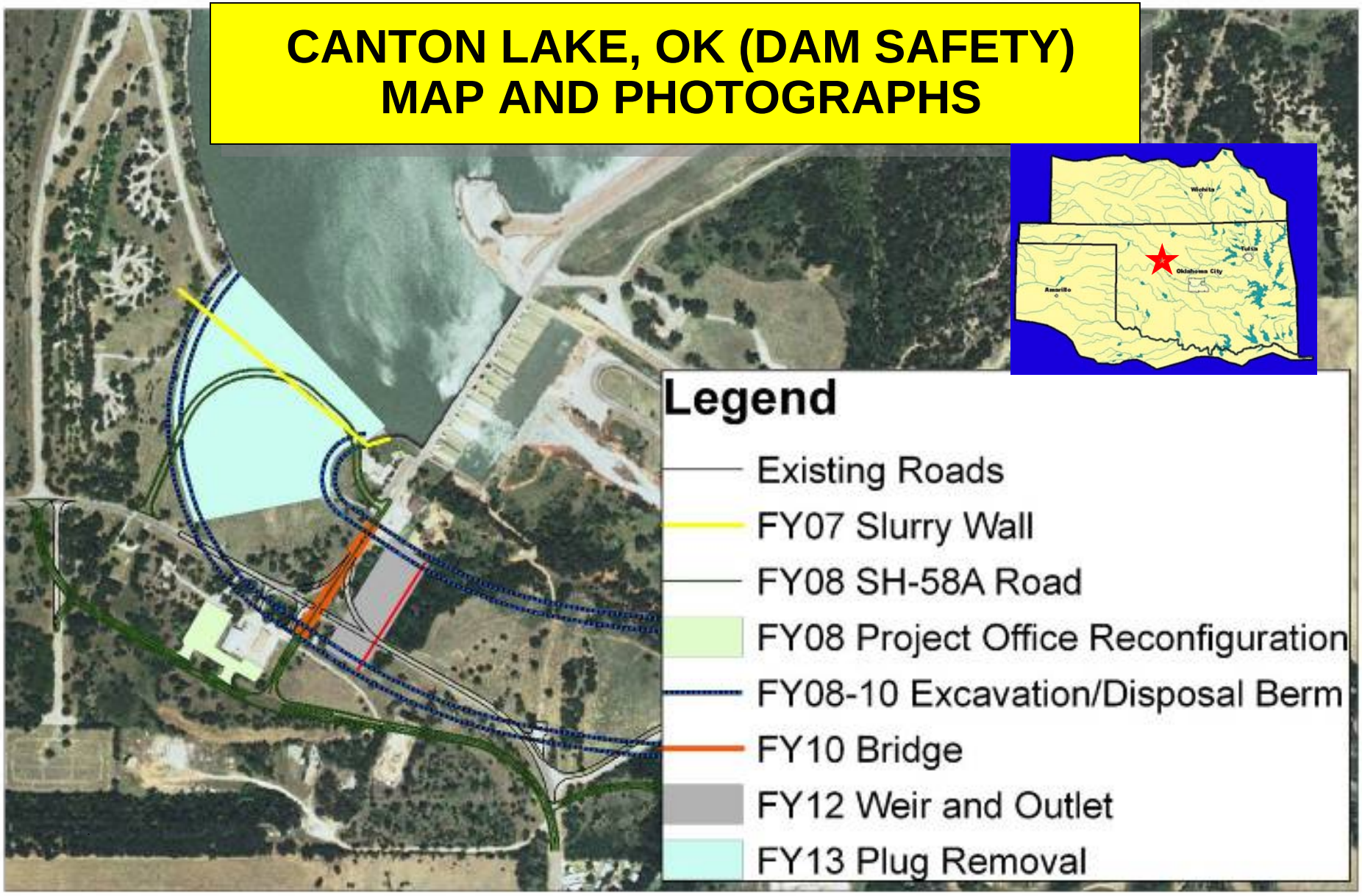
- **The study area generally includes the Washita River watershed and is consistent with the over-arching OCWP PWP initiatives**

- **Includes consideration of physical, socio-economic, and institutional systems that interact with this area**



- **Information, findings and recommendations, collectively referred to as the Washita River Watershed Management Plan, will be integrated within various sections of the OCWP report**

CANTON LAKE, OK (DAM SAFETY) MAP AND PHOTOGRAPHS



KEYSTONE DAM ASSESSMENT

Left Embankment
(1000 ft)

Powerhouse
2 – 35,000 kW units

Spillway
18 tainter gates
9 sluice gates

Right Embankment
(2000 ft)

FY08 CRITICAL MAINTENANCE

Beginning of FY08 - $53.6M critical maintenance backlog (12% annual growth rate)

Developed a strategic plan to reduce maintenance backlog and mitigate safety requirements

Planned $3.5M in critical maintenance repairs on operating projects – completed $4.9M in maintenance repairs

FY08 SUPPLEMENTAL

Incurred $47.7M in damages to operating projects due to record floods and ice storms in 2007 and 2008

Received $10.6M in Supplemental funding for critical repairs to dam embankments, outlet channels, and some recreation areas damaged by record floods

FY09 CRITICAL MAINTENANCE

Current backlog of critical maintenance = $55M

$9.2M of critical maintenance scheduled for FY09:

- **Repair and Paint Tainter Gate Tieback Beams, Fort Gibson Lake**
- **Repair and Paint Sluice Gates, Keystone Lake**
- **Repair and Paint 2 Tainter Gates, Kaw Lake**
- **Dewater Lock and Repair Weir, W.D. Mayo Lock and Dam**
- **Dam and Bridge Repairs, Lake Kemp**

QUESTIONS?