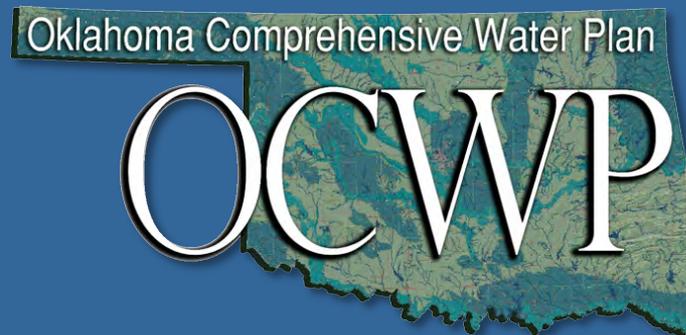
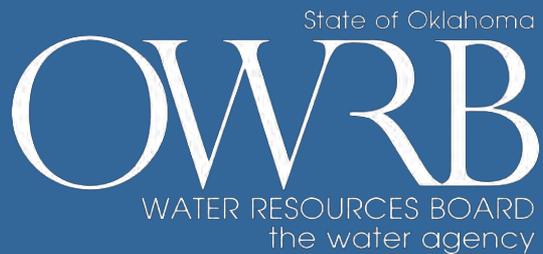


# The Oklahoma Water Resources Board

## Oklahoma's Water Agency



# OWRB Mission & Organization

*Our mission is to enhance the quality of life for Oklahomans by managing, protecting, and improving the state's water resources to ensure clean, safe, and reliable water supplies, a strong economy, and a healthy environment*



# Planning & Management Division

Long-term planning & technical studies

- **Comprehensive Water Plan (2012)**

Water rights permitting & administration

- 12,000 permits allocating 6 million acre-feet of stream and groundwater

Interstate stream compact administration

- 4 compacts that address the use of shared waters with neighboring states

Floodplain management

- Guide intelligent land use planning

Dam safety

- Ensure public safety through maintenance of 4,500 dams

Well drillers licensing

- Prevent groundwater pollution through proper construction of water wells

# Water Quality Programs Division

## Water Quality Standards & Implementation

- Ensure protection of state water quality
- Balance protection with sound policy

## Pollution Abatement & Water Quality Restoration

- Evaluate specific water quality problems and restore benefits of waters

## Beneficial Use Monitoring Program

- Monitor water quality trends at more than 600 lake and stream sites statewide

# Financial Assistance Division

Assist communities and rural water districts in financing water and wastewater infrastructure improvements

- More than \$2.4 billion in loans and grants to date

## **OWRB Loan and Grant Programs**

- Clean Water State Revolving Fund Loans
- Drinking Water State Revolving Fund Loans
- State Revenue Bond Loan Program Loans
- Emergency Grants
- Rural Economic Action Plan Grants

# Key OWRB Issues

## Water Planning Issues:

- Finalize and implement the OK Comprehensive Water Plan.
- Collaborate with Oklahoma's Tribal governments concerning water rights claims and mutual water interests.
- Proactively address out-of-state interests in Oklahoma water supplies.

## Technical Studies, Data & Monitoring:

- Finalize hydrologic and water allocation studies for the Arbuckle-Simpson and Garber-Wellington groundwater basins.
- Comprehensively monitor and reverse declining water quality in Oklahoma watersheds.

# Key OWRB Issues

## Declining State Appropriations:

- Maintain sufficient technical information and data on which to base intelligent water management decisions.
- Resolve pending claims and lawsuits over southern Oklahoma waters.
- Address the potential negative impact on FAP bond ratings, SRF programs, grant assistance, and REAP funding.

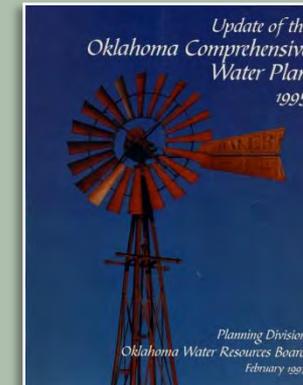
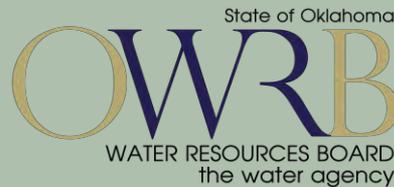
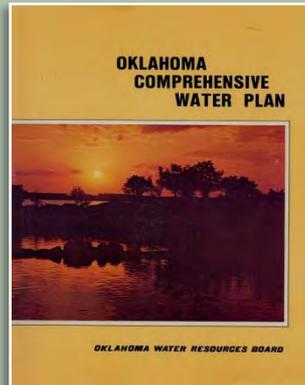
Oklahoma Comprehensive Water Plan

OCWP

The Oklahoma  
Comprehensive Water Plan

The Final Year

# The OCWP: A Brief History



## 1980:

- First official statewide water plan
- Project-oriented
- Proposed statewide east/west water transfer

## 1995:

- First Water Plan update
- Policy-oriented
- Great success in achieving OCWP water policy recommendations at the state level

# Goals of the 2012 OCWVP Update

1. Characterize Demands by Water Use Sector
2. Identify Reliable Supplies to Meet Forecasted Demands
3. Perform technical studies in support of the evaluation of emerging water management issues
4. Engage comprehensive stakeholder involvement to make recommendations regarding the management of Oklahoma's water resources
5. Ensure water resources management programs that create reliability
6. Make "implementable" recommendations regarding the future of water management in Oklahoma based upon technical evaluations and stakeholder input

# 2012 OCWP Update

- The OCWP process includes an unprecedented level of openness, collaboration, expert input and public involvement, especially in development of water policy recommendations:
  - ***Fair***
  - ***Inclusive***
  - ***Transparent***

To date, the OWRRI has hosted 86 local, regional, and statewide water planning meetings and engaged thousands of Oklahomans in the public input process. Collectively, participants have invested almost 30,000 hours in the process so far.

# Oklahoma Comprehensive Water Plan Public Input (Water Policy Development)

- **Through the collaborative Water Plan process, the OWRB is discovering exactly how Oklahoma citizens wish to manage their water resources.**
  - Local Input Meetings (2007; 42 meetings):
    - 2,250 attendees; 2,539 comments received
  - Regional Input Meetings (2008; 11 meetings):
    - 340 discussants; > 1400 recorded comments
  - Planning Workshops (2009; 3 sessions):
    - 10 workgroups draft policy recommendations
  - Town Hall (2010; 3 days):
    - Refine and finalize recommendations
  - Feedback & Implementation Meetings:
    - Final round of statewide regional meetings

# Oklahoma Comprehensive Water Plan Feedback & Implementation Meetings



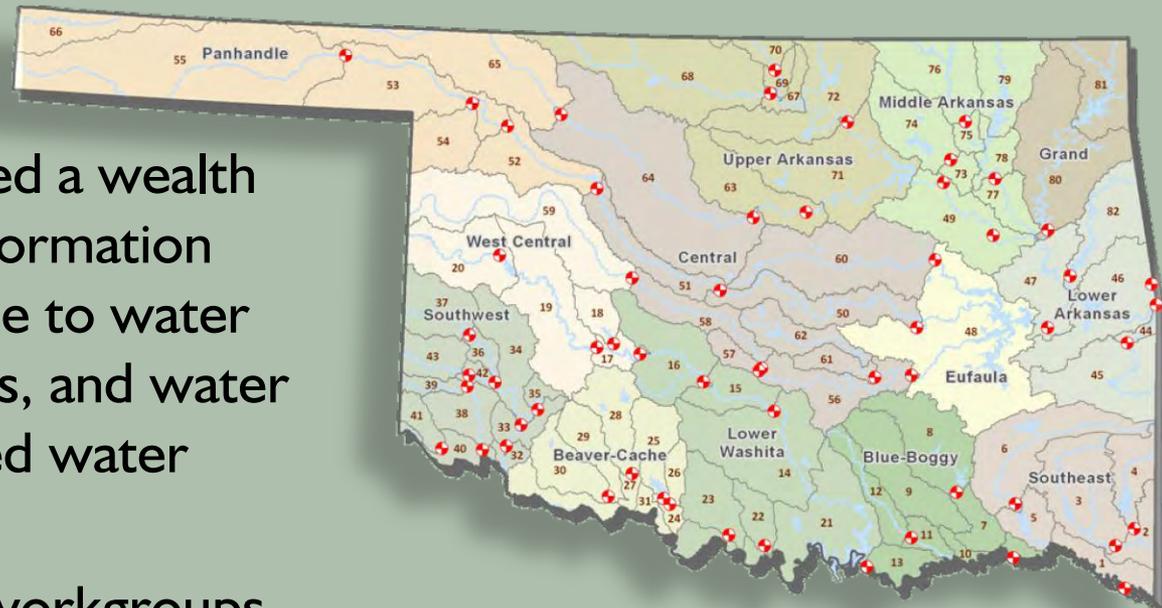
## ***Date***    ***Planning Region (Location)***

April 19	Panhandle (Beaver)
April 26	Southwest (Lone Wolf)
April 27	West Central (Clinton)
April 28	Upper Arkansas (Enid)
May 3	Middle Arkansas (Tulsa)
May 4	Grand (Grove)
May 5	Lower Arkansas (Stigler)
May 17	Eufaula (McAlester)
May 18	Southeast (Antlers)
May 19	Blue-Boggy (Coalgate)
May 24	Lower Washita (Sulphur)
May 25	Beaver-Cache (Lawton)
May 26	Central (Oklahoma City)

# Oklahoma Comprehensive Water Plan

## Technical Studies

- The OCWP has collected a wealth of technical data and information that will be indispensable to water providers, policy makers, and water users in making informed water management decisions.
- Ten separate technical workgroups, including more than 100 experts, have provided invaluable input into OCWP technical methodologies and decisions.

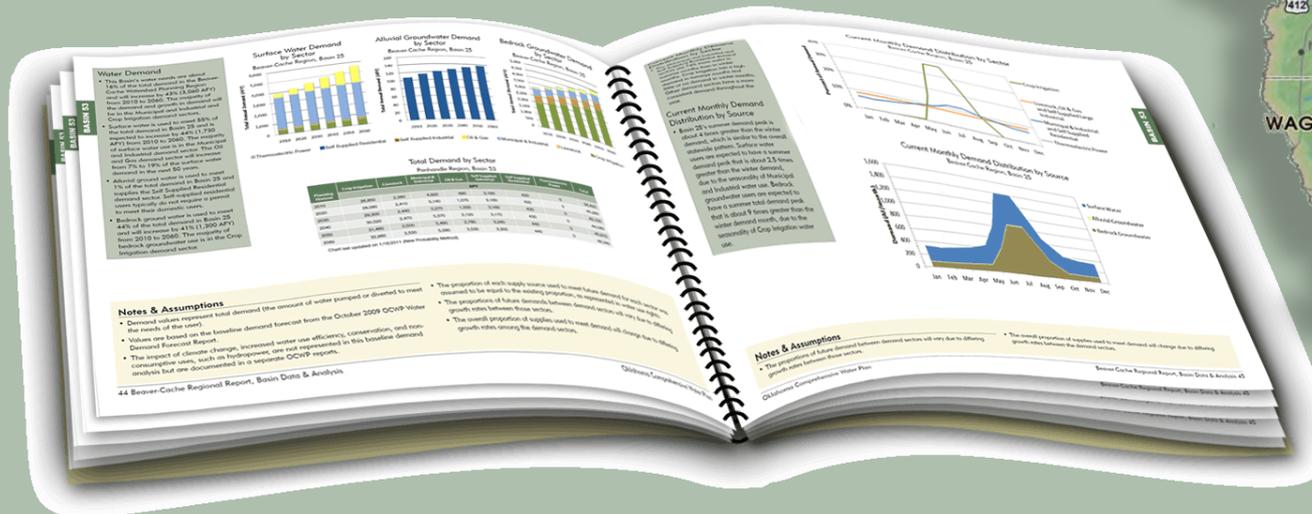
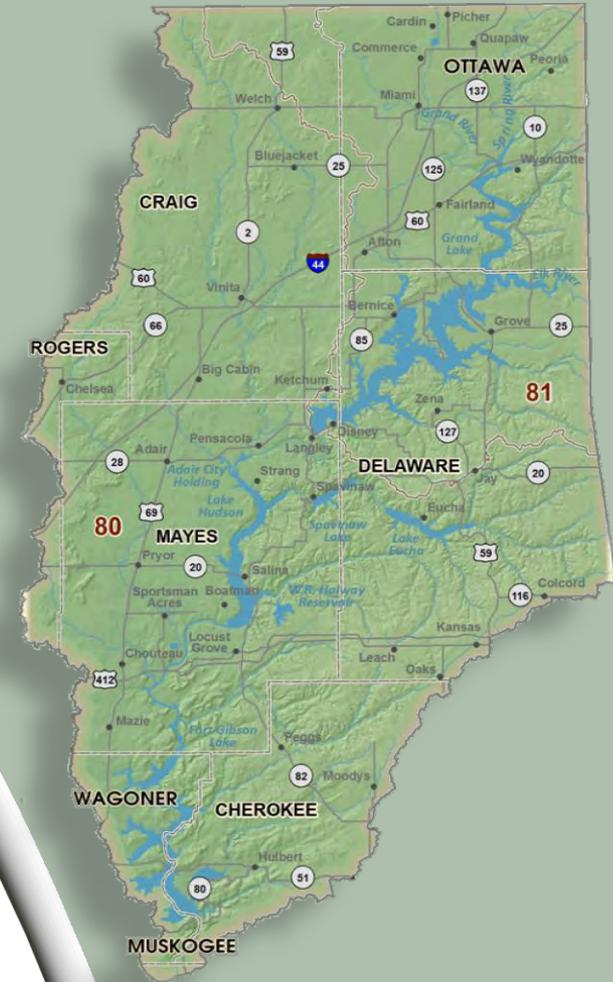


### 13 Watershed Planning Regions:

- Aggregated from 82 basins delineated by hydrology and stream gage locations

# OCWP Watershed Planning Region Reports

- Regional characteristics and mapping
- Supply/demand projections
- Water quality information
- Inventory of water systems and infrastructure
- Future water supply options



# OCWP Watershed Planning Region Reports

## Water Availability

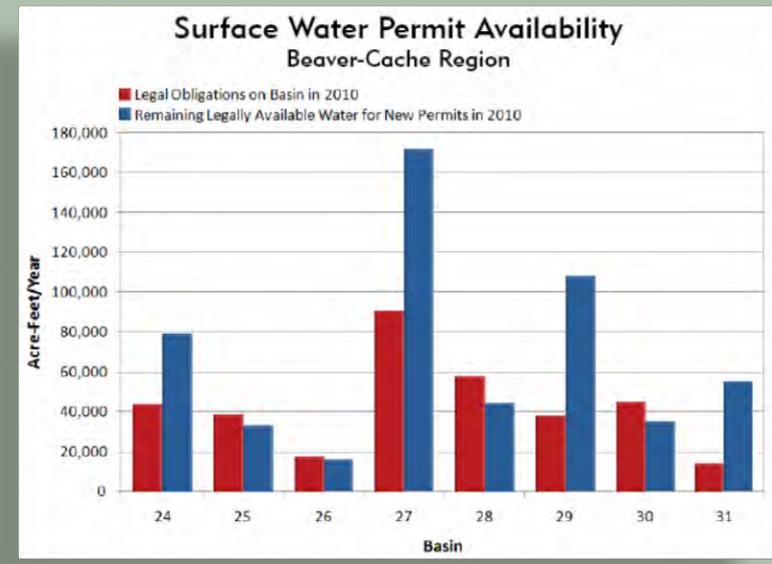
- Physical Availability
- Permit Availability
- Water Quality



Groundwater & Dedicated Lands

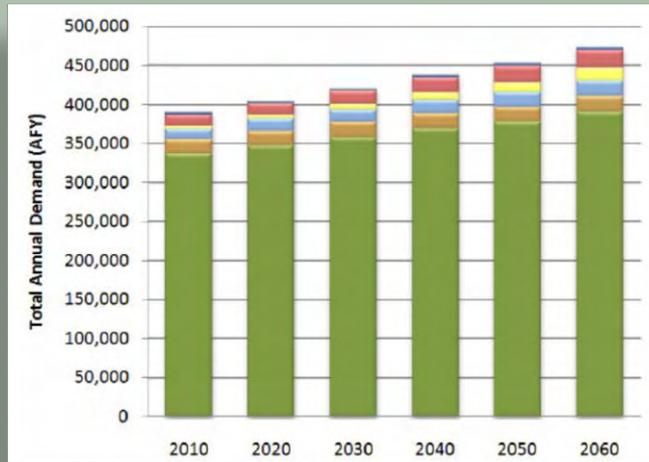


Water Quality Impairments

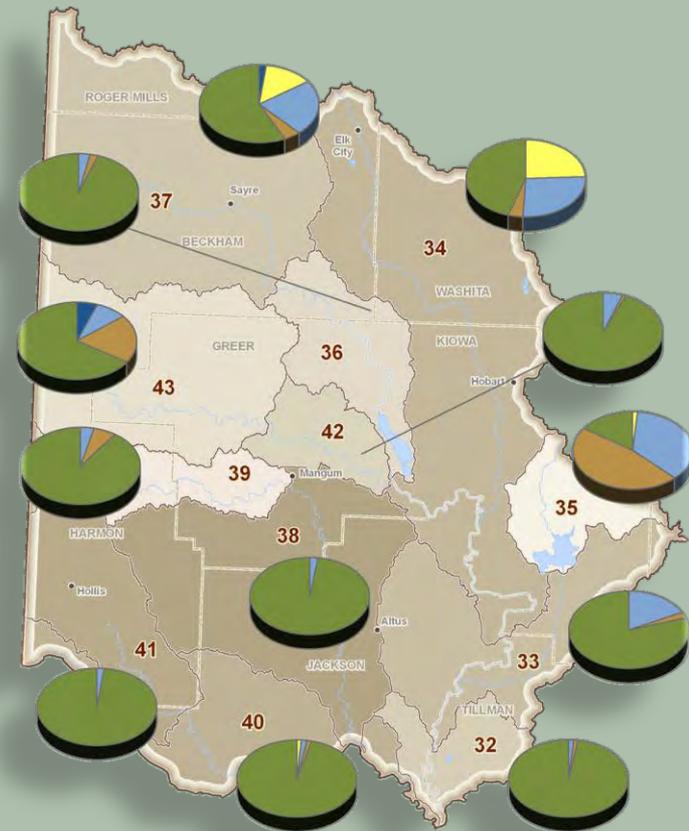


# OCWP Watershed Planning Region Reports

## Water Demand (2010-2060)



- Thermoelectric Power
- Self Supplied Residential
- Self Supplied Industrial
- Oil and Gas
- Municipal and Industrial
- Livestock
- Crop Irrigation





# OCWP Watershed Planning Region Reports Potential Reservoir Site Viability

- 68 sites identified statewide that have at least sufficient data for additional analysis or are considered viable candidates for development



# OCWP Watershed Planning Region Reports

## Helping Water Users Find Potential Solutions



**Demand Management**



**Increased Surface Water Use**



**Increased Groundwater Use**



**Reservoir Storage**



**Out-of-Basin Supplies**

# Oklahoma Comprehensive Water Plan

## Planning Tools

- Recognizing that water planning is a dynamic process, the OCWP is developing a set of planning tools to assist local water users/providers:
  - Oklahoma H2O: A computer-based analysis tool created to compare projected demands with physical supplies for each basin to identify areas of potential water shortages.
  - Reservoir Yield Model: A hydrologic model that can be used to perform initial yield studies or update current yield information from any Oklahoma reservoir.
  - Local Planning Primer: A help document providing detailed guidance to communities on water planning basics, infrastructure assessment and planning, and utilizing OCWP data.

# Oklahoma Comprehensive Water Plan

## Supplemental Studies & Reports

- Special work and recommendations of agencies, organizations, and legislative workgroups investigating water issues:
  - augmenting sources through artificial groundwater recharge and water of marginal quality
  - evaluation of a program to address instream/environmental flows
  - Tribal water issues and concerns
  - potential climate change impacts
  - measures to increase the effectiveness of financial assistance programs in implementing water projects
  - viability of potential reservoir construction
  - water rights administration
  - specific concerns of water user groups

# Oklahoma Comprehensive Water Plan



## Executive Report

- OCWP Background & History
- Water law & agency water management responsibilities
- Water policy recommendations culminating from OCWP public input:
  - Priority issues for legislative consideration and implementation
- Summary of water supply “hot spots” where future water deficits could particularly limit regional growth
- Implementation strategy for high priority issues

# 2011-2012 Schedule

## **August 2011:**

- Preliminary Water Board review of draft OCWP

## **September 2011:**

- Final Water Board review and public comment on draft OCWP

## **October 2011:**

- Formal Water Board consideration and adoption of OCWP
- OCWP unveiled at Water Conference

## **February 2012:**

- Formal submittal to Governor/Legislature

# 2012

Oklahoma Comprehensive Water Plan

# OCWP

State of Oklahoma

**OWRB**

WATER RESOURCES BOARD  
the water agency