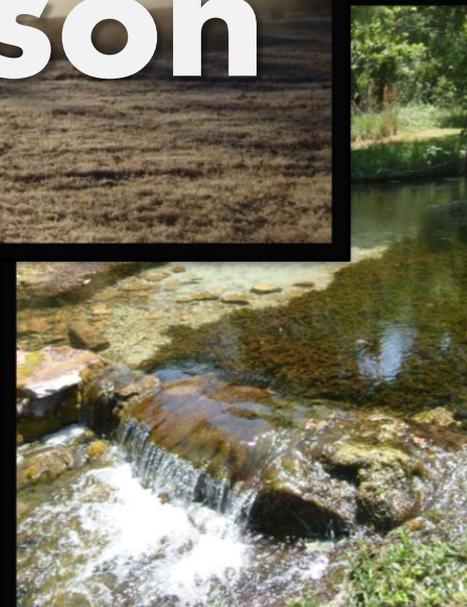
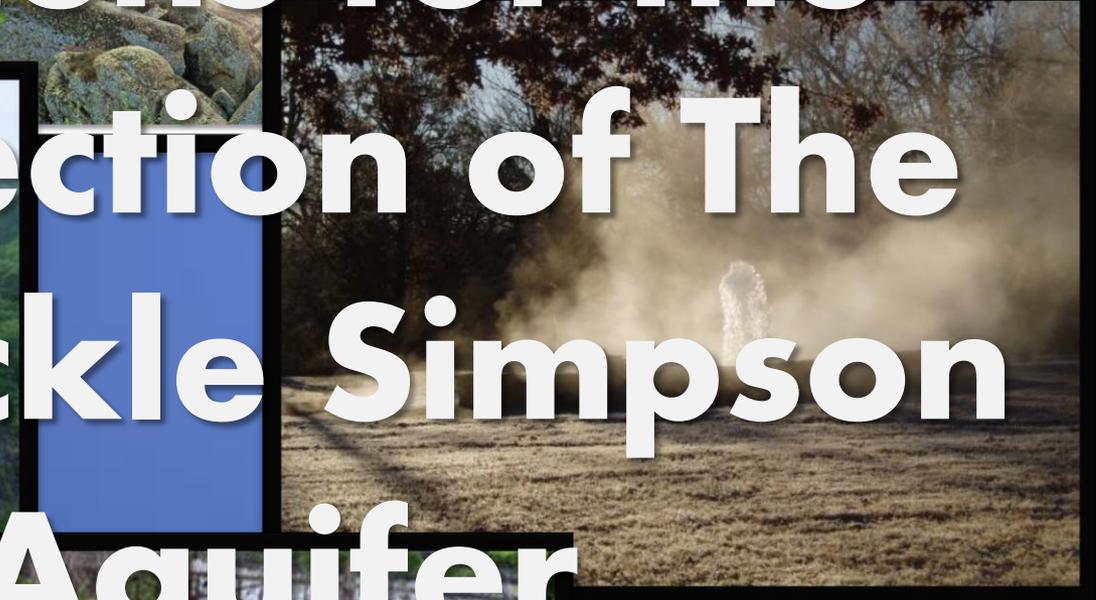
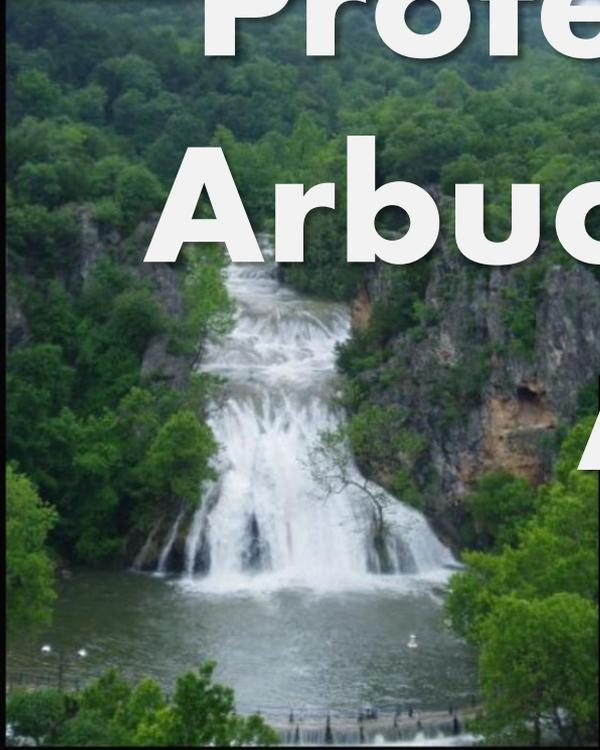
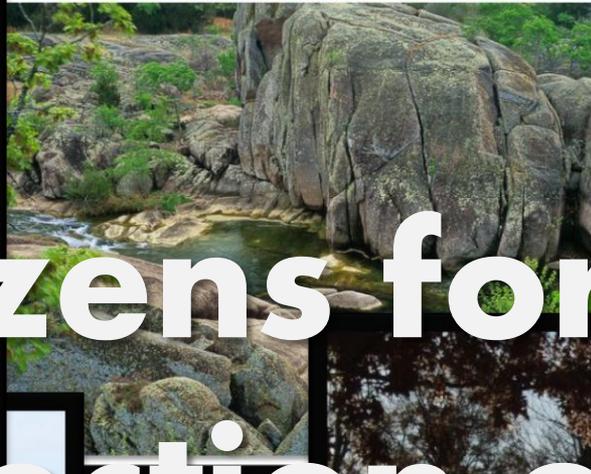


Citizens for the Protection of The Arbuckle Simpson Aquifer

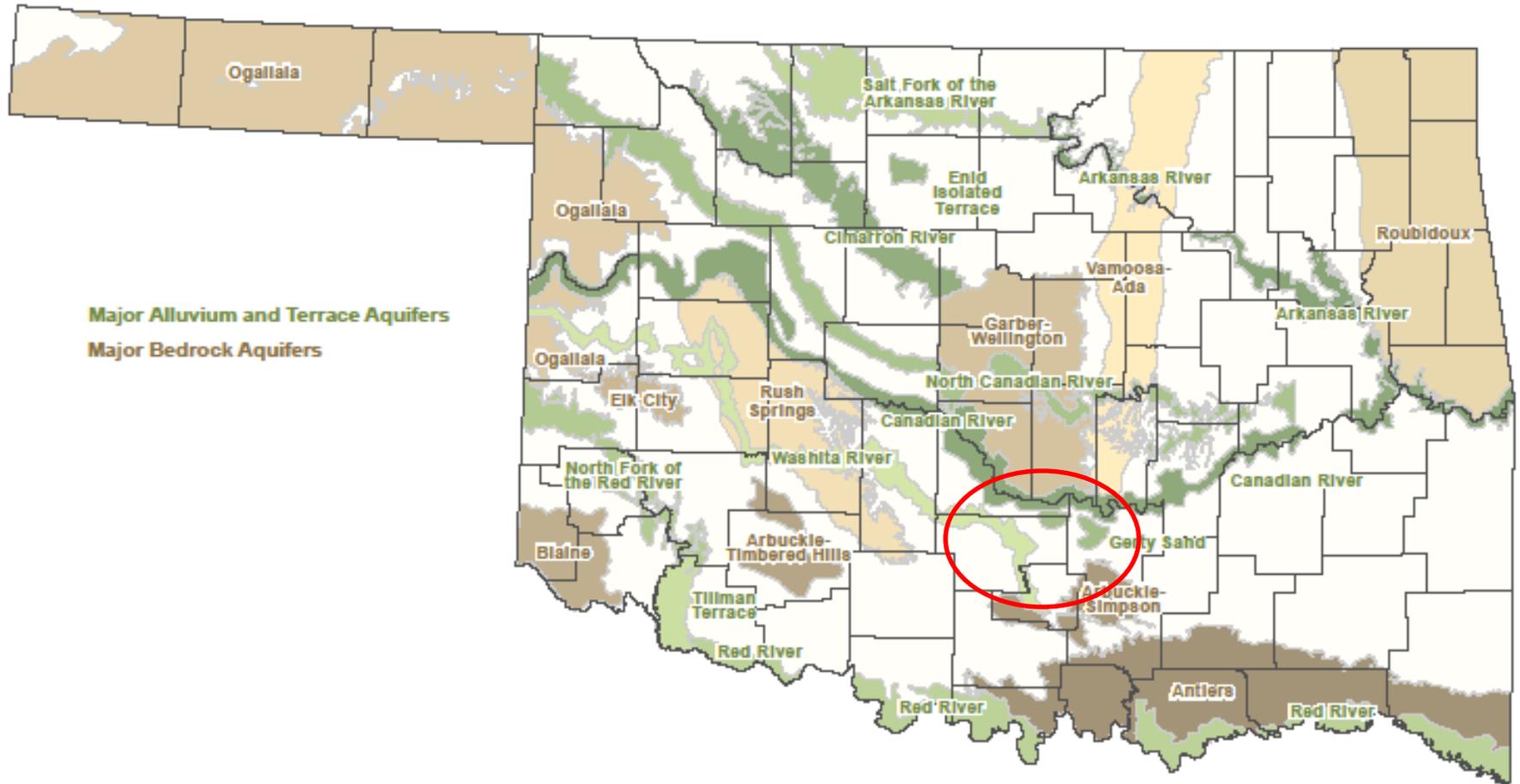
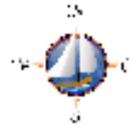


OCWP Priority Recommendation - Regional Planning Groups

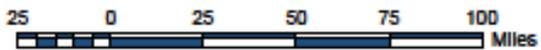
The OWRB should work with the State Legislature to develop and authorize **the creation of at least thirteen Regional Planning Groups** to assist in planning and implementing OCWP initiatives at the regional level. These regional groups should be non-regulatory and consist of local stakeholders, as well as appropriate agency representatives, charged with developing regional water plans in a manner consistent with the OCWP and its implementation priorities. Such plans would include the identification of specific projects, studies, programs, research and other evaluations designed to address the **unique needs and issues** identified by Regional Planning Group participants. The State Legislature should establish regular appropriations to the OWRB to coordinate the activities of these groups.

What makes the
Arbuckle Simpson Aquifer
unique....

Major Groundwater Aquifers of Oklahoma



Major Alluvium and Terrace Aquifers
Major Bedrock Aquifers



Designated by the EPA as a Sole Source Aquifer (SSA)

- The "sole or principal" source of drinking water for an area
- Supplies 50% or more of the drinking water for that area
- No reasonably available alternative

The Arbuckle-Simpson aquifer is the only such groundwater basin in Oklahoma.

Cities and Water Systems using the Arbuckle Simpson Aquifer

City of Durant

City of Sulphur

City of Tishomingo

City of Wynnewood

S Oklahoma Water Corp

Bryan Co. RWD #5

Garvin Co. RWD #6

Johnston Co. RWD #3

Murray Co. RWD #1

Pontotoc Co. RWD #8

Pontotoc Co. RWD #7

Bryan Co. RWD #2

City of Davis Buckhorn RWD

Pontotoc Co. RWD #9

S Oklahoma Water Corp

Wynnewood

City of Ada

W. Carter Co. W&S Corp

Pontotoc Co. RWD #6

Tupelo PWA

City of Ardmore

West Davis

Town of Ratliff City

Ada

Roff

Davis

Durant

Pottawatomie

Pittsburg

Jefferson

Cleveland

Stephens

Sulphur

Ardmore

Dougherty

Tishomingo

Mill Creek

Carter

Bryan

Garvin

Coal

Love

Pontotoc

Johnston Atoka

Murray

Marshall

Hughes

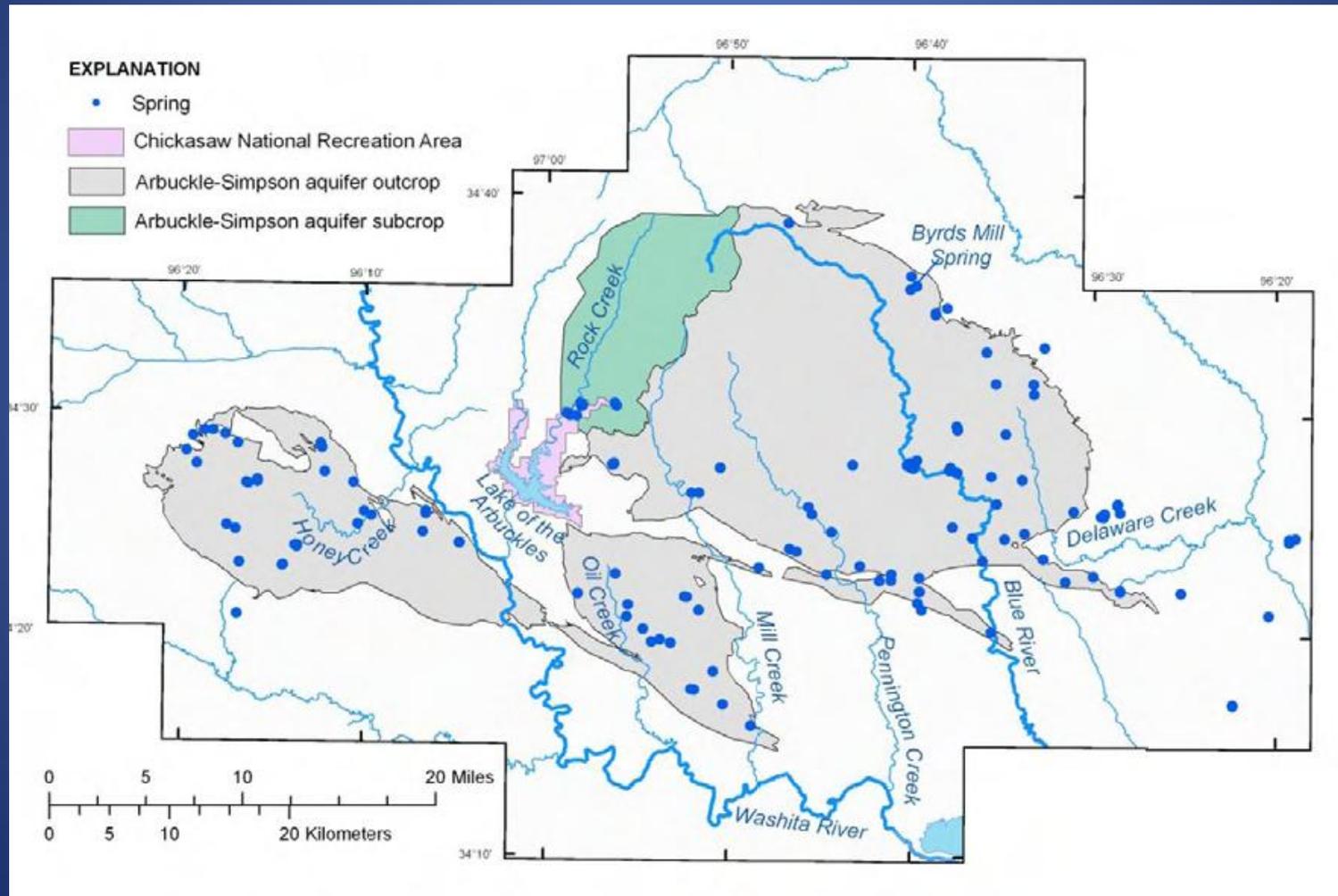
McClain

Seminole

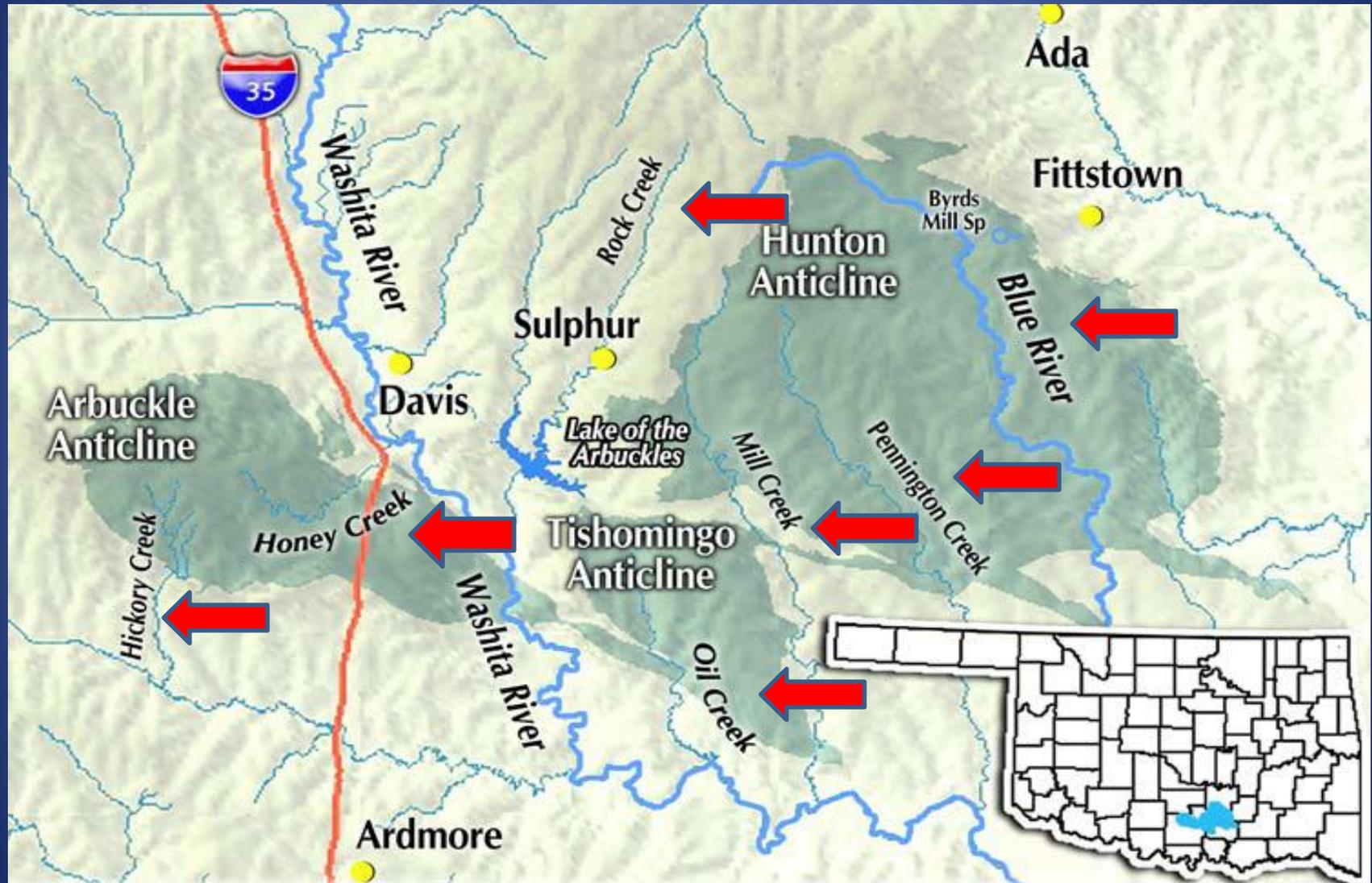
Source - water data obtained from OWRB publication "Rural Water Systems In Oklahoma" - 1998.

- Water system GIS files obtained from the Oklahoma Water Resources Board website.

Known springs within the Arbuckle



The Aquifer



The Arbuckle Simpson provides drinking water to
over 150,000 Oklahomans

Other Interests that Depend upon the Aquifer

Turner Falls

Falls Creek

Chickasaw National Recreation Area

Tishomingo National Wildlife Refuge

Slippery Falls Boy Scout Ranch

Oklahoma Fish Hatchery

Nature Conservancy's Pontotoc Ridge Preserve

As the only Sole Source Aquifer in
Oklahoma

The Arbuckle Simpson is governed by
two unique pieces of law:

SB288

SB597

S.B. 288

Passed by the legislature in 2003

- Adds a fifth precept to Board approval of a groundwater permit: 5) the proposed use is not likely to interfere with streams and springs emanating from a sensitive sole source groundwater basin

(Considers conjunctive use - impact of Groundwater withdrawals on streams and springs)

- Required a comprehensive study be conducted to determine the maximum annual yield
 - Only applicable to a Sole Source Aquifer

The Oklahoma Water Resource Board
U.S. Geological Survey
The University of Oklahoma
Oklahoma State University
The Bureau of Reclamation

\$5 Million dollars

Completed in 2009

Maximum Annual Yield – 67,000 AF

2012

Oklahoma Comprehensive Water Plan

The letters 'OCWP' are rendered in a large, white, serif font with a subtle drop shadow. They are positioned over a map of Oklahoma that is filled with a teal and green topographic pattern. The map is cut out to follow the state's outline, with a slightly distressed, torn-edge effect at the bottom.

www.owrb.ok.gov/ocwp

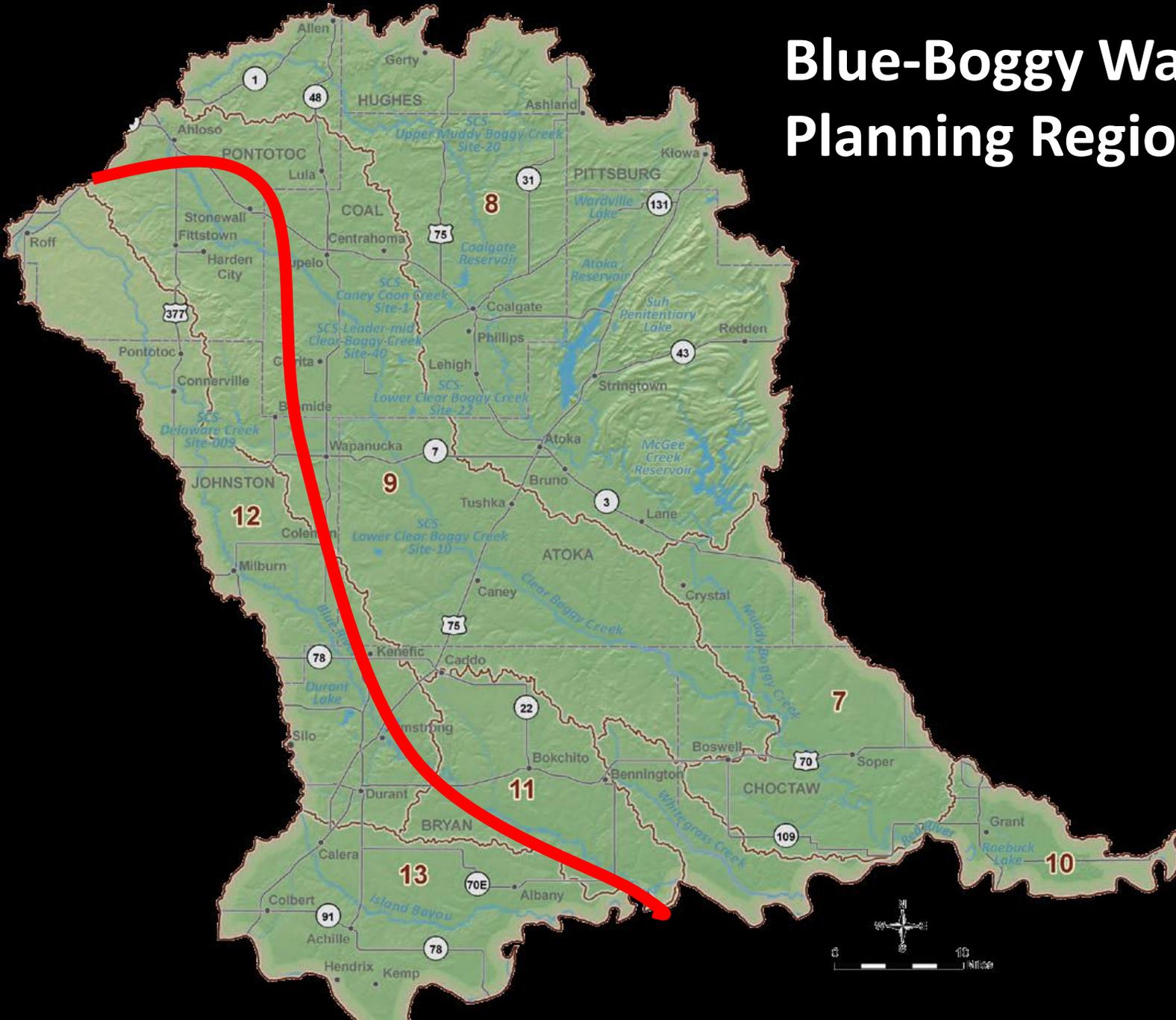
Statewide OCWP Watershed Planning Region and Basin Delineation



Lower Washita Watershed Planning Region



Blue-Boggy Watershed Planning Region



Pursuant to 82 O.S. § 1020.9(A)(2), the temporary allocation for the Arbuckle-Simpson groundwater basin is subject to the OWRB's case-by case determination of what amount will not likely degrade or interfere with springs or streams emanating from the Arbuckle-Simpson.

Findings from the Arbuckle-Simpson Hydrology Study could result in a significantly lower equal proportionate share than the current 2 AFY/acre allocation for that aquifer.

Permits to withdraw groundwater from aquifers (groundwater basins) where the maximum annual yield has not been set are “temporary” permits that allocate 2 Acre Feet Year/ Per Acre.

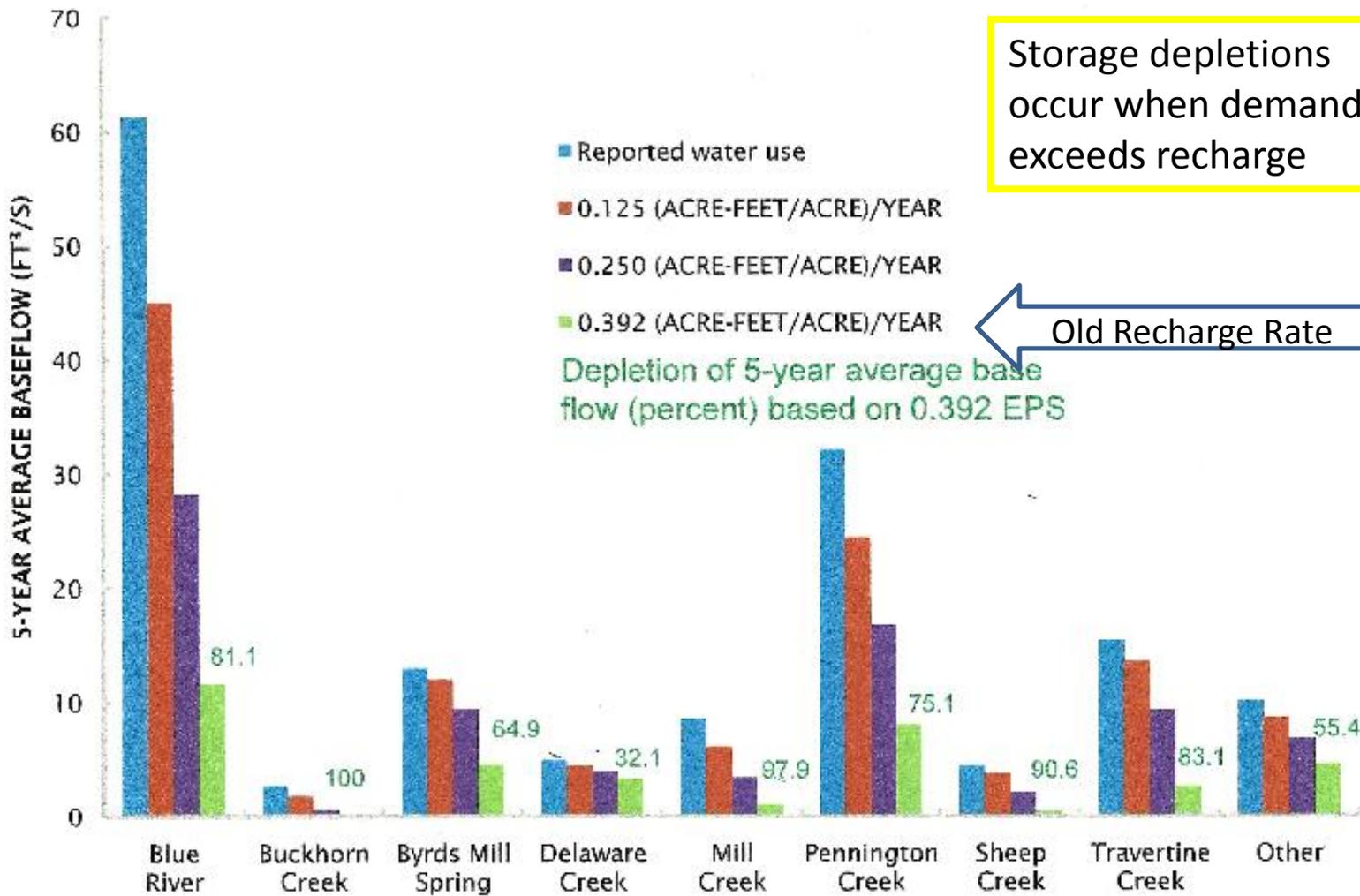
OCWP

Oklahoma Comprehensive Water Plan Percent of Basin Overlaying the ASA	Groundwater Available for <u>New</u> Permits
Lower Washita - 11 %	384,000 Acre Feet
Blue- Boggy - 6%	196,800 Acre Feet
Total GW Permits Available	580,800 Acre Feet

Comparison of OCWP to OWRB Arbuckle Simpson Study

Oklahoma Comprehensive Water Plan Percent of Basin Overlaying the ASA	Groundwater Available for <u>New</u> Permits
Lower Washita - 11 %	384,000 Acre Feet
Blue- Boggy - 6%	196,800 Acre Feet
Total GW Permits Available	580,800 Acre Feet

OWRB Arbuckle Simpson Aquifer Study Percent of Basin	Groundwater Available for Permitting
100%	67,000 Acre Feet



Change in 5-Year Average Base Flow Based on Simulations of Distributed Withdrawals

The Solution....

Allowing from Basin Management...

What we have accomplished thus far.....

Passage of SB288

Passage of SB597

Signed MOU with Hanson Aggregates

Joined with other interests...

Arbuckle Simpson Aquifer Protection Committee

- Participating in Rules process for SB597
- Working on a Draft Implantation Order for
SB288

Oklahoma Comprehensive Water Plan

Executive Report

FORWARD:

A Vision for Oklahoma's Water Future

- Regional Planning: Integral to OCWP implementation is due recognition of local issues and priorities identified by citizens, users, and stakeholders. While statewide water planning has served Oklahoma well and oversight is still required at the state level, the time has come to encourage and formalize regional water planning as the new standard that empowers local citizens more in touch with their unique needs, challenges and potential solutions.

Creation of the
Arbuckle Simpson Aquifer
Management Basin

Amy Anne Ford
Citizens for the Protection of the
Arbuckle- Simpson Aquifer

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