An Introduction to Arkansas Water Law

Edward Swaim Executive Director

Bayou Meto Water Management District

Water Management District

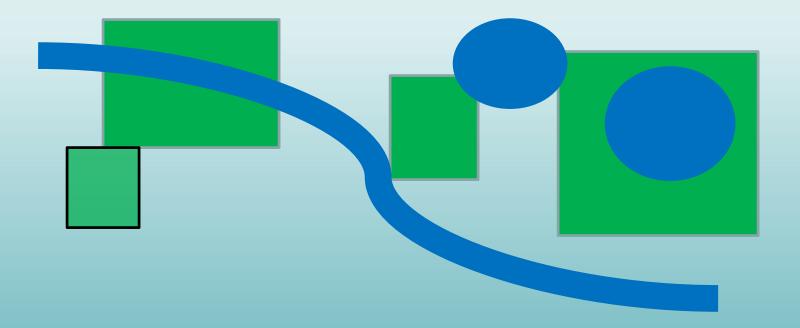
RAYOU META

Arkansas is "Water Rich"

- We receive about 48" of rainfall per year
- Abundance keeps us from fighting
- <u>Scarcity makes policy and law</u>

Riparian Land

- Land contiguous to a body of water
- Right to use does not equal ownership



Riparian Land

- Land contiguous to a body of water
- "Unity of title" vs. "source of title"
- Right to use water is a property right
- No "use it or lose it" requirement

Old Common Law Riparian Doctrine

- "Natural Flow Theory"
- Each property owner was entitled to the "normal" or "uniform" level of the stream undiminished by upstream uses
- Domestic use only: family, livestock, and gardening



Natural Flow Unworkable with Progress

- Agricultural irrigation
- Mill ponds
- Industrial use
- Wastewater discharge
- All lower the level or diminish the flow

Horseshoe Lake near Augusta



"...the fish quit biting..."





Harris v. Brooks

- <u>Harris v. Brooks</u>, 283 S.W.2d 129, 225 Ark. 436 (1955)
- Farmers (there first) v. boat dock (came later)
- Analyzed natural flow and reasonable use theory and adopted the latter
- Natural flow declared "unreasonable and unutilitarian"

Harris v. Brooks Rules

- Domestic use superior & other uses equal
- Lawful use unreasonably harming another lawful use must yield
- Lawful uses included <u>fishing</u>, <u>swimming</u>, <u>recreation</u>, and irrigation
- No "first in time, first in right" requirement

Legislation to Manage Water

- Dry periods bring court cases and legislation (As do floods)
- Many new laws in response to early 1950s drought and 1980 drought
- Predictability, conservation, development, and dispute resolution are major drivers

Major Water Legislation

- Dry periods bring court cases and legislation (As do floods)
- State rejected Western-style allocation in the 1950s and 1980s
- Laws to give predictability to water use:
 - Water use reporting
 - Allocation during shortage
 - Regulation of dams
 - Minimum streamflow
 - Non-riparian transfer



Water Use Registration/Reporting

- Required annually
- Is after-the-fact, not pre-permitting
- Surface: Arkansas Code section 15-22-215
- Ground: Arkansas Code section 15-22-302
- "…fee for…withdrawal…" Arkansas
 Code section 15-22-913
- Exceptions

Allocation During Shortage

- 1957 effort by the legislature to streamline <u>Harris v. Brooks</u> process
- Arkansas Code section 15-22-217
- Step one: Declare a shortage: "not sufficient water in a stream to meet all beneficial uses"
- Then a notification and adjudication process starts

Allocation-Reserved Priorities

- Domestic and municipal domestic
- Federal water rights.
- Minimum Streamflow (2013)

Allocation Order of Priority

- 1. Agriculture
- 2. Industry
- 3. Minimum streamflow
- 4. Hydropower
- 5. Recreation

Minimum Streamflow

- Starting point to determine how much water there is to allocate
- In the context of allocation, it is the minimum amount to be left in a stream for the <u>largest</u> of these uses:
 - Aquifer recharge
 - Fish and wildlife
 - Interstate compacts
 - Navigation
 - Water quality



Allocation "Order of Preference"

- 1. Sustaining life
- 2. Maintaining

health

3. Increasing wealth

Non-Riparian Permitting Law

- 1985 law
- Current and future riparian rights, aquifer recharge, fish and wildlife needs, navigation, and interstate compacts are protected
- 25% of everything above that is permittable
- Non-riparian use inferior to riparian use
- Arkansas Code section 15-22-304

Fayetteville Shale

Non-riparian permits few before the

Fayetteville Shale

- Only about a dozen large projects

- Protected surface water and showed good stewardship by gas companies
- At peak well over 1,000 active permits

Interstate Transfer

- Texas is thirsty and has planned to look to Arkansas for water since at least the 1960s
- Law disfavors interstate transfer and requires a long, involved process of review
- Arkansas Code section 15-22-303

Dams

- Dams 25 feet or higher and impounding 50 acre-feet or more of water must be permitted
- Hazard classifications bring inspection and emergency action requirements
- Can only impound "surplus water" and must release water at a rate that doesn't cut off lower riparians



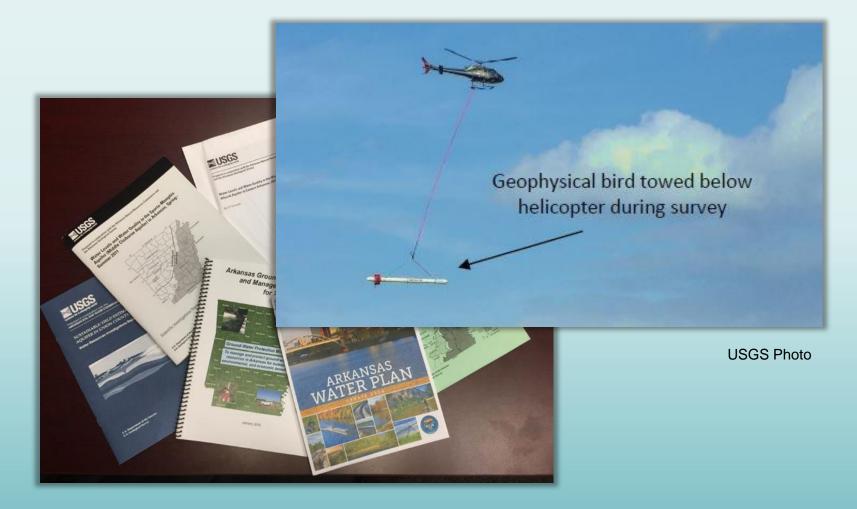
- This is where we analyze supply, demand, and "gaps"
- Arkansas Code section 15-22-503
- "A comprehensive program for the orderly development and management of the state's water and related land resources"
- 1969 Authorized
- 1975 Plan updated in 1990 and 2014
- Rules adopted in 2015 updating Plan

Groundwater

"...so secret, occult and concealed, that an attempt to administer any set of legal rules in respect to them would be involved in hopeless uncertainty, and would be, therefore, practically impossible."

Frazier v. Brown, 12 Ohio St. 294 (1861)

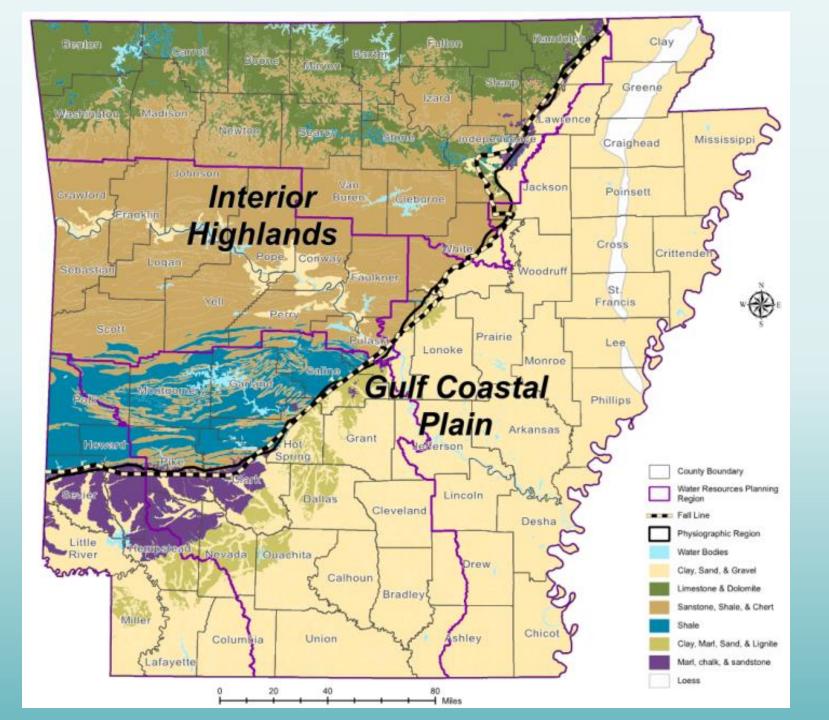
Groundwater Data Now

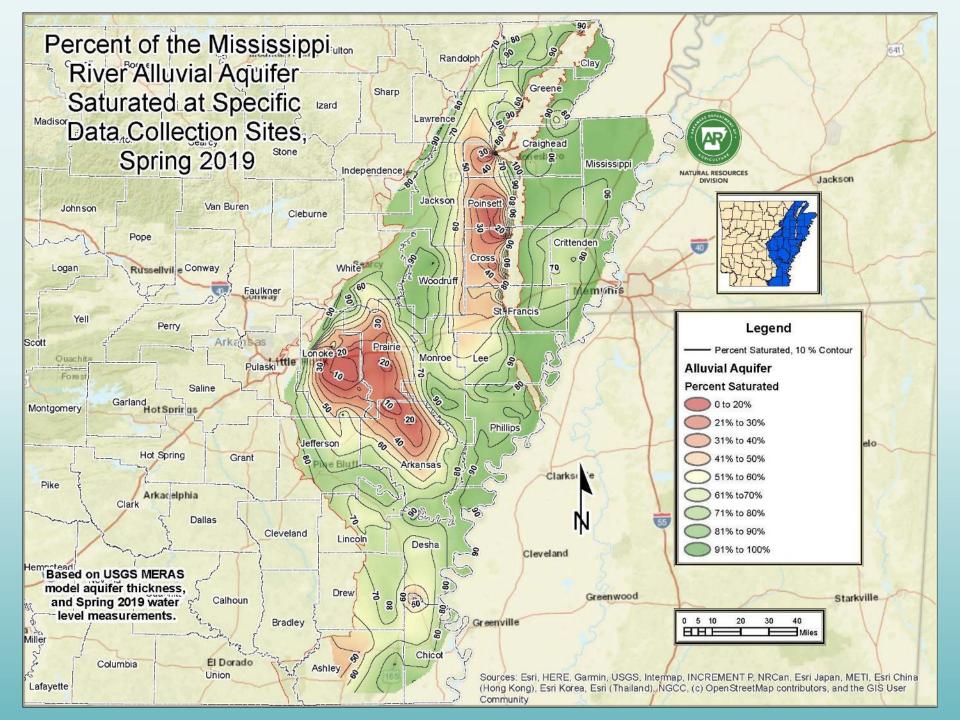


Severe Groundwater Overdraft

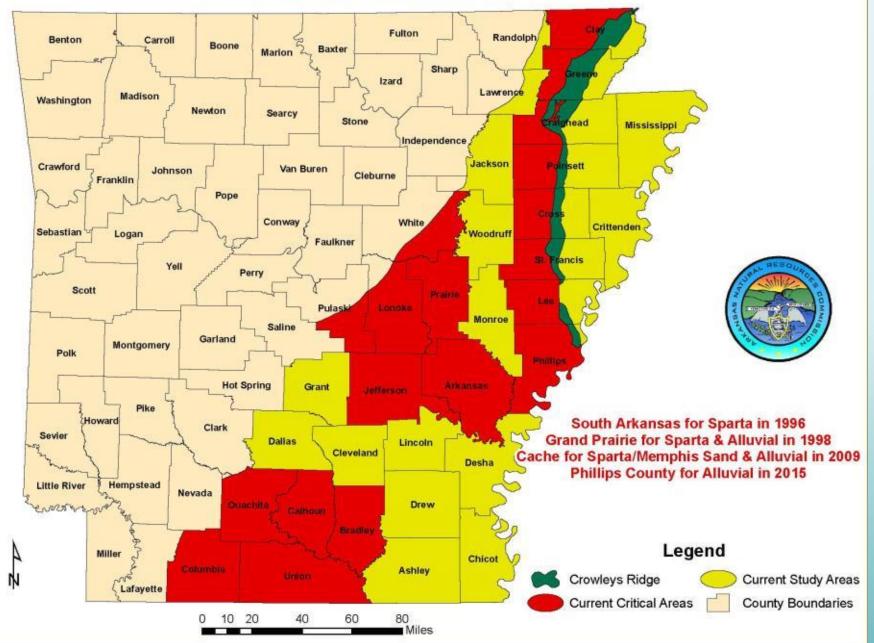
"Based on 2015 water use data, only approximately 44.2 percent of the current alluvial aquifer withdrawal of 7,636.08 million gallons per day, and approximately 55% percent of the Sparta/Memphis aquifer withdrawal of 160 million gallons per day is sustainable."

> Arkansas Department of Agriculture Division of Natural Resources 2019 Annual Groundwater Report





Critical Groundwater Areas



Groundwater Cases

- Jones v. Oz-Ark-Val Poultry Co., 228 Ark.
 76, 306 S.W. 2d 111 (1957)
 - Rejected "English Rule" of unlimited pumping
 Adopted "American Rule" of reasonable use
 - Auopteu American Nule of reasonable use
- Lingo et al. v. City of Jacksonville, 258
 Ark. 63, 522 S.W.2d 403 (1975)

Similar case with a municipal water system's well field in a rural area

Regulation of Groundwater Use

- 1991 Groundwater Protection and Management Act, Arkansas Code 15-22-901, et seq.
 - Long, appealable process
 - Grandfathering
 - Alternative surface water supplies must be available or can be made available
 - Issuance of "water rights"

(We will not dry up our rivers.)

Out-of-Stream Needs

- Existing Riparian Use
- Federal Projects
- About 0.5 million AFY
- Projected Future Riparian Use

Average Annual Basin Yield

Total Available Water (Potential for future use)

92 million AFY

57 million AFY

In-Stream Needs

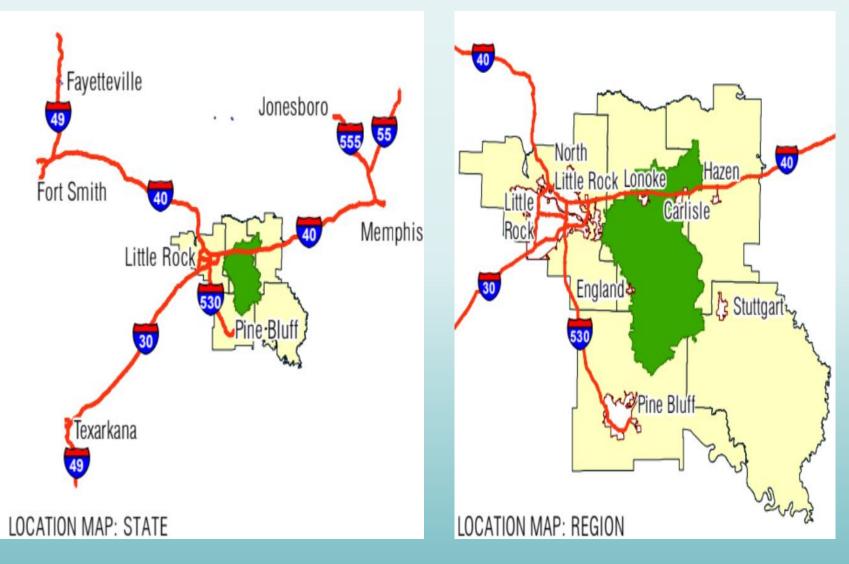
- Aquifer Recharge
- Fish & Wildlife
- Interstate Compacts
- Navigation
- Water Quality

26 million AFY

Excess Surface Water (25% of total available water)

9 million AFY (Our 2050 groundwater gap will be about 8 million AFY)

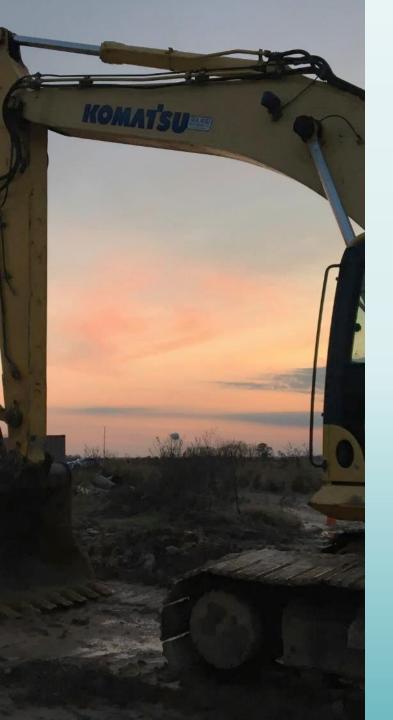
Bayou Meto Water Management Project Location



Maps by Garver Engineers

Summary: Protecting Your Water Use

- "The right of a riparian owner to take water inheres in the soil and it is vested." <u>Thomas v. LaCotts</u>, 257 S.W.2d 936, 96 Ark. 653 (1953)
- "The riparian right does not depend upon use and is not lost by nonuse." <u>Thomas v.</u> <u>LaCotts</u> at 940
- Property right + Reasonableness of use = Successful defense of right to water



Thank you

Edward Swaim Bayou Meto Water Mgt. District 1300 N. Center St., Ste. 9 Lonoke, Ark. 72086 501-231-3332 edwardswaim@bayoumeto.org