

# Upper Republican River Water Users Stakeholder Meeting

## Background on Bonny Reservoir and South Fork Use

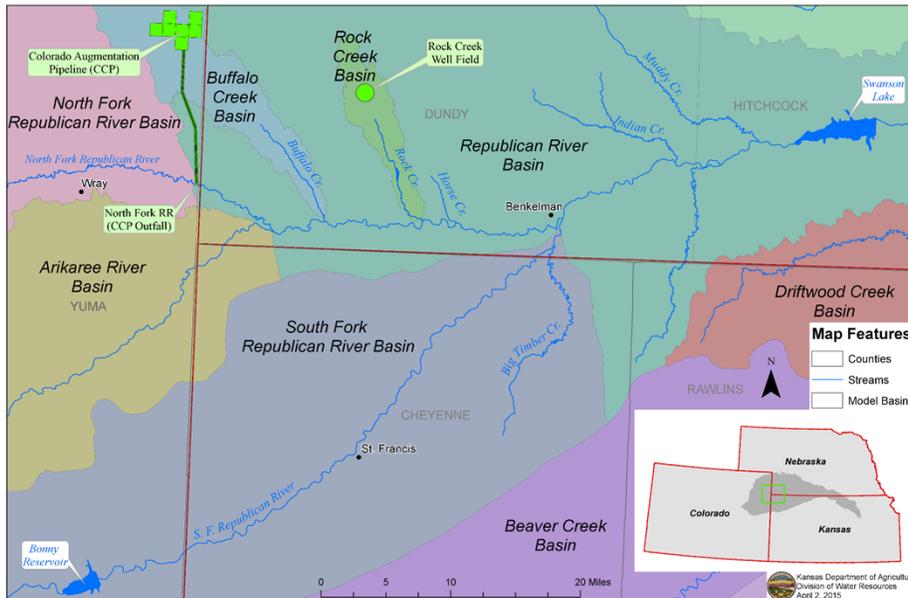
October 2, 2018

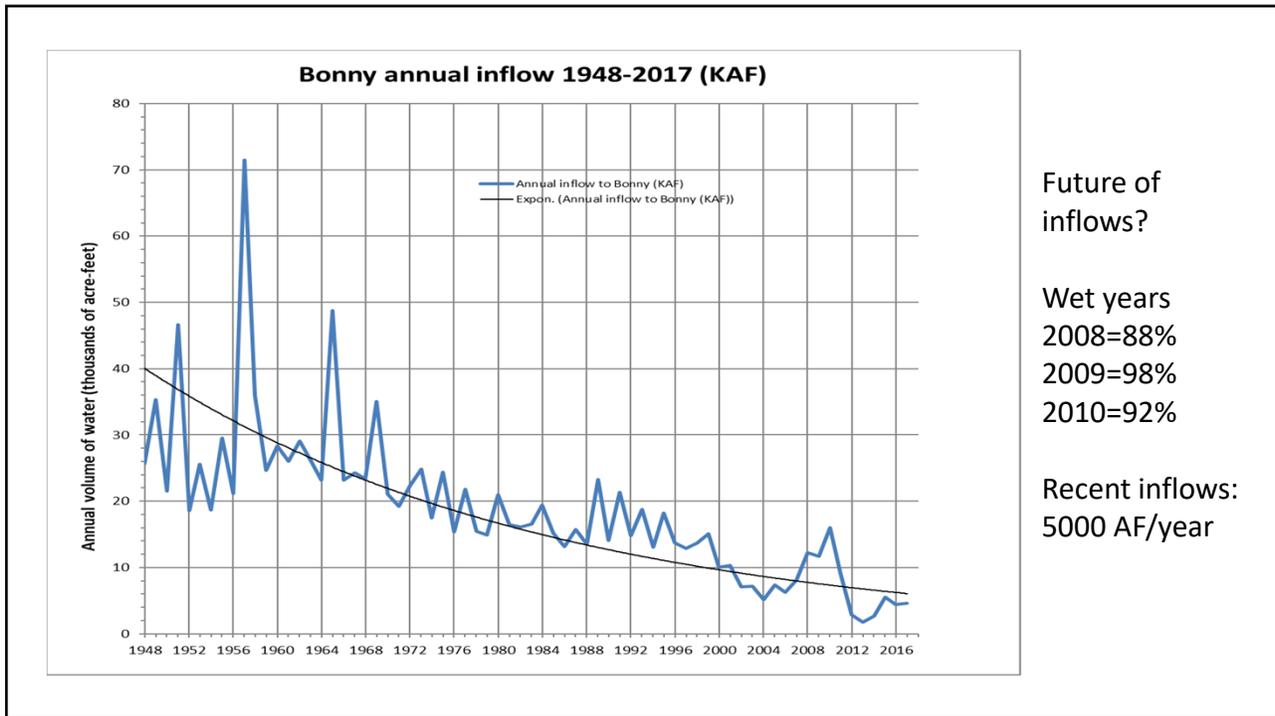
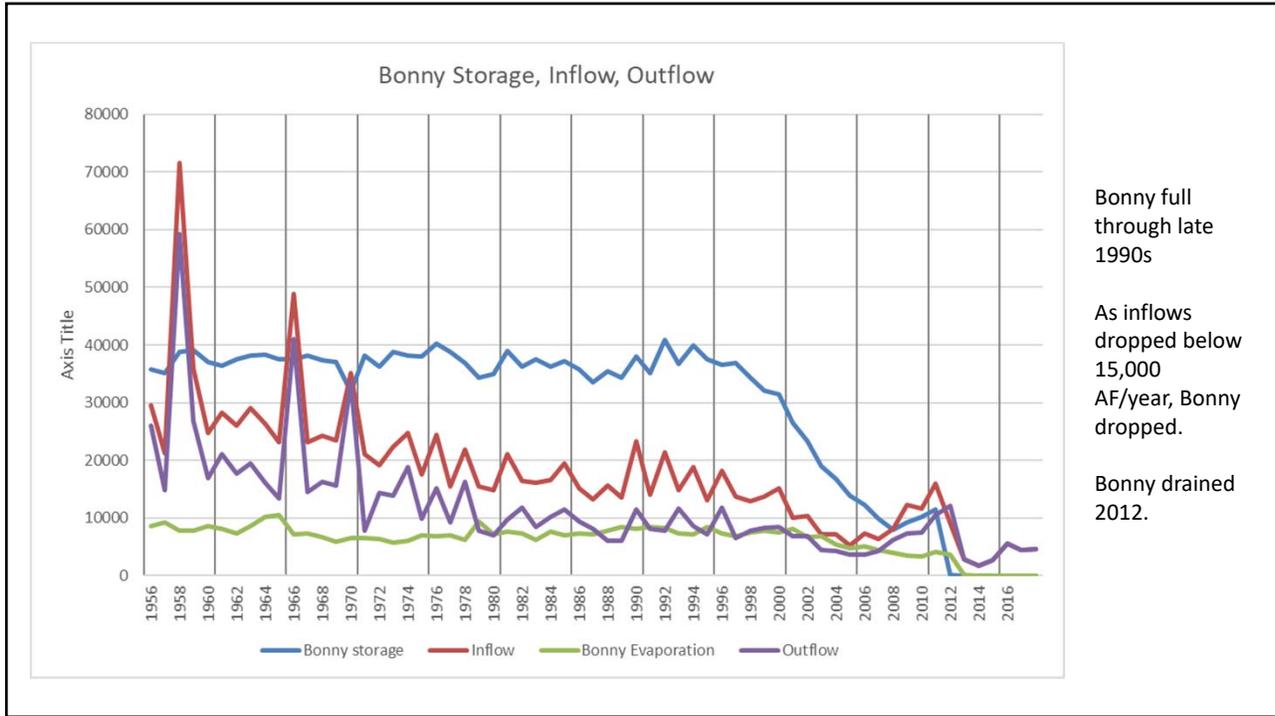
David Barfield, Chief Engineer

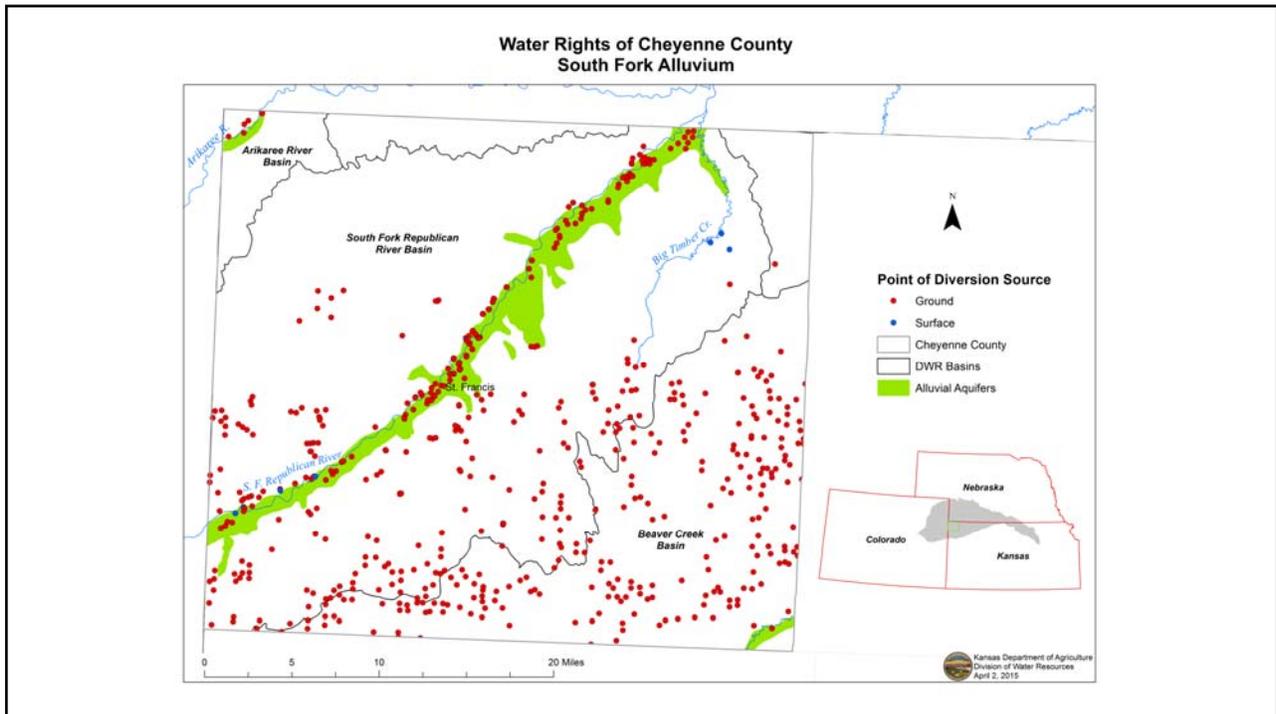
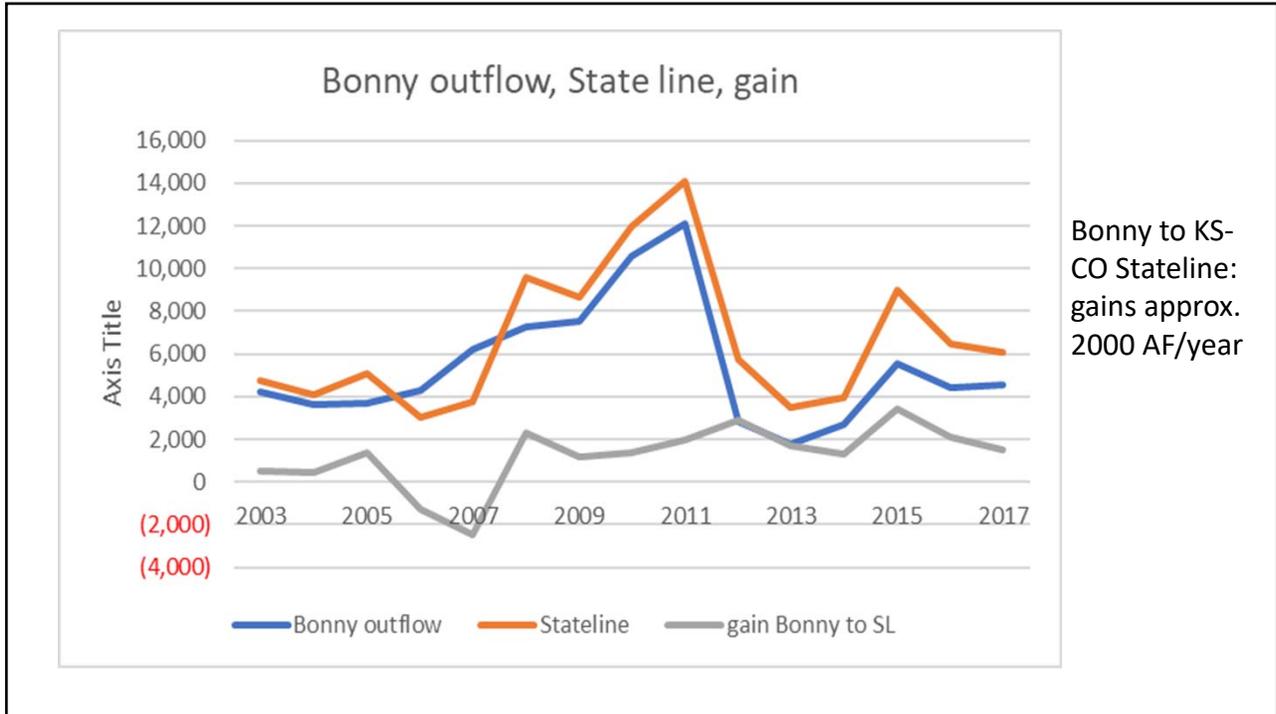
Division of Water Resources  
Kansas Department of Agriculture

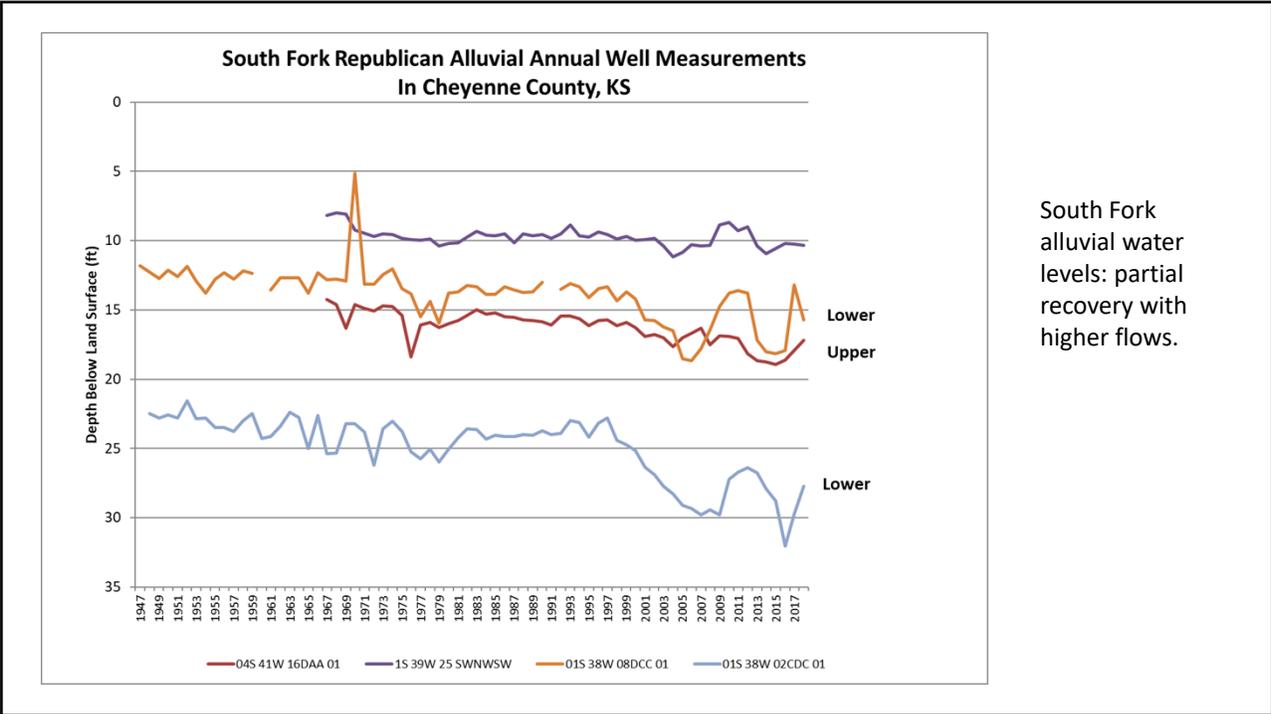
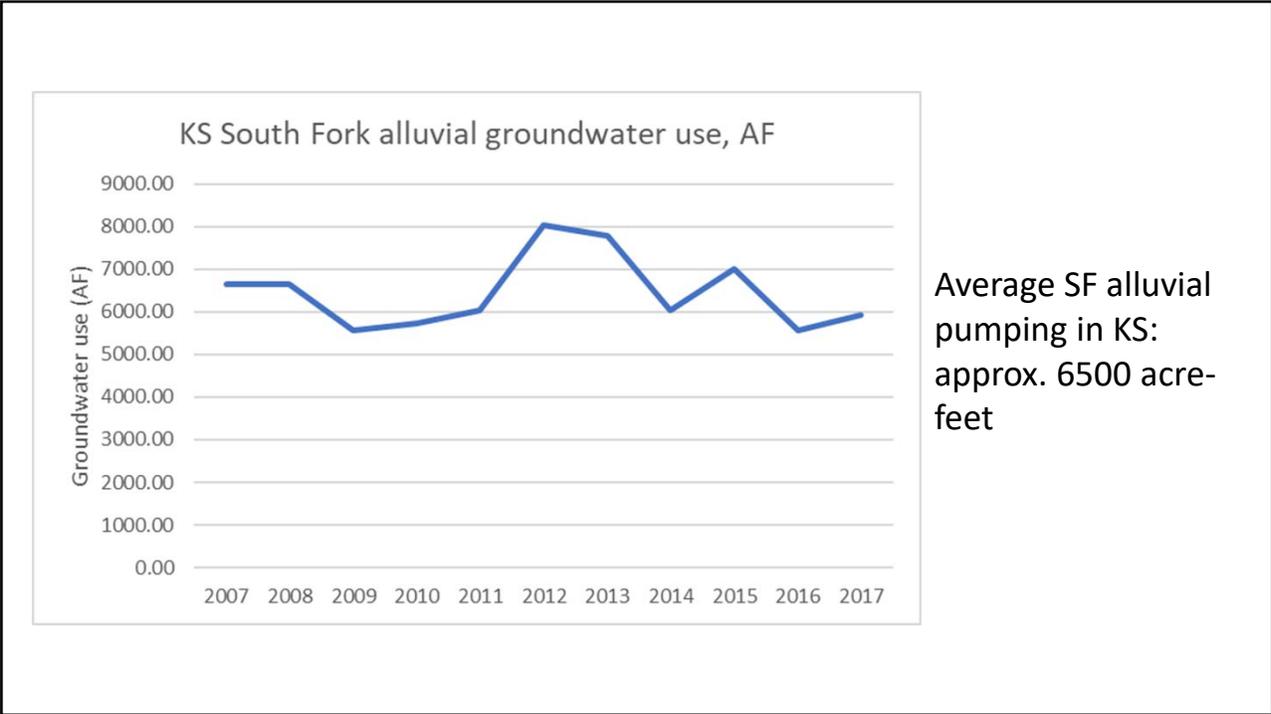


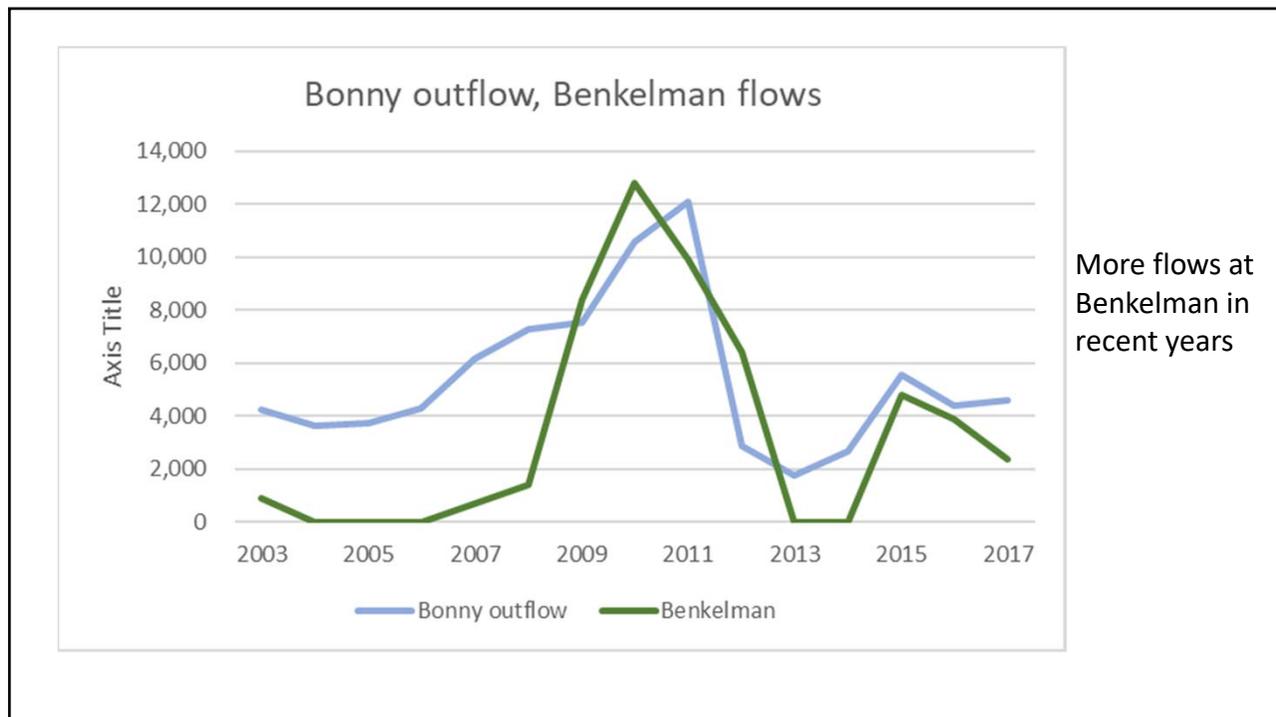
South Fork of the Republican River  
Location Map











## Summary

- **Water in the basin remains limited.** If we store water in Bonny, the South Fork in Kansas will see less water.
- Bonny net evaporation averaged 2700 AF for 2004-11
- Bonny inflows averaged:
  - 7356 AF for 2000-17; 3636 AF for 2012-17.
  - 5000 AF seems about what we can expect in future “normal” years.
  - With expanded CREP; we hope to see more water
- KS alluvial use averages about 6500 AF.
- Flows reaching at Benkelman in many years

## Questions on storing in Bonny

- What does it take (water, money) to make a viable recreation facility?
- How to do compact accounting?
  - How will evaporation on Bonny be share between the states?
  - Any issues with Kansas compliance tests
    - South Fork sub-basin?
    - Northwest Kansas Water-short year test

## Needed input

- What is your sense of the health of the South Fork in Kansas?
- What are Kansas priorities for flows?
  - Keep flows coming to Kansas, except for flood control
  - Keep flows coming under normal conditions, but look for an opportunity to store flows in Bonny during a high runoff years.
  - Explore storing as much in Bonny as possible.
    - Minimum release?
  - Other ideas, input?

## Questions & Discussion

