

Climate Change & Water Resources Workgroup – ACWI

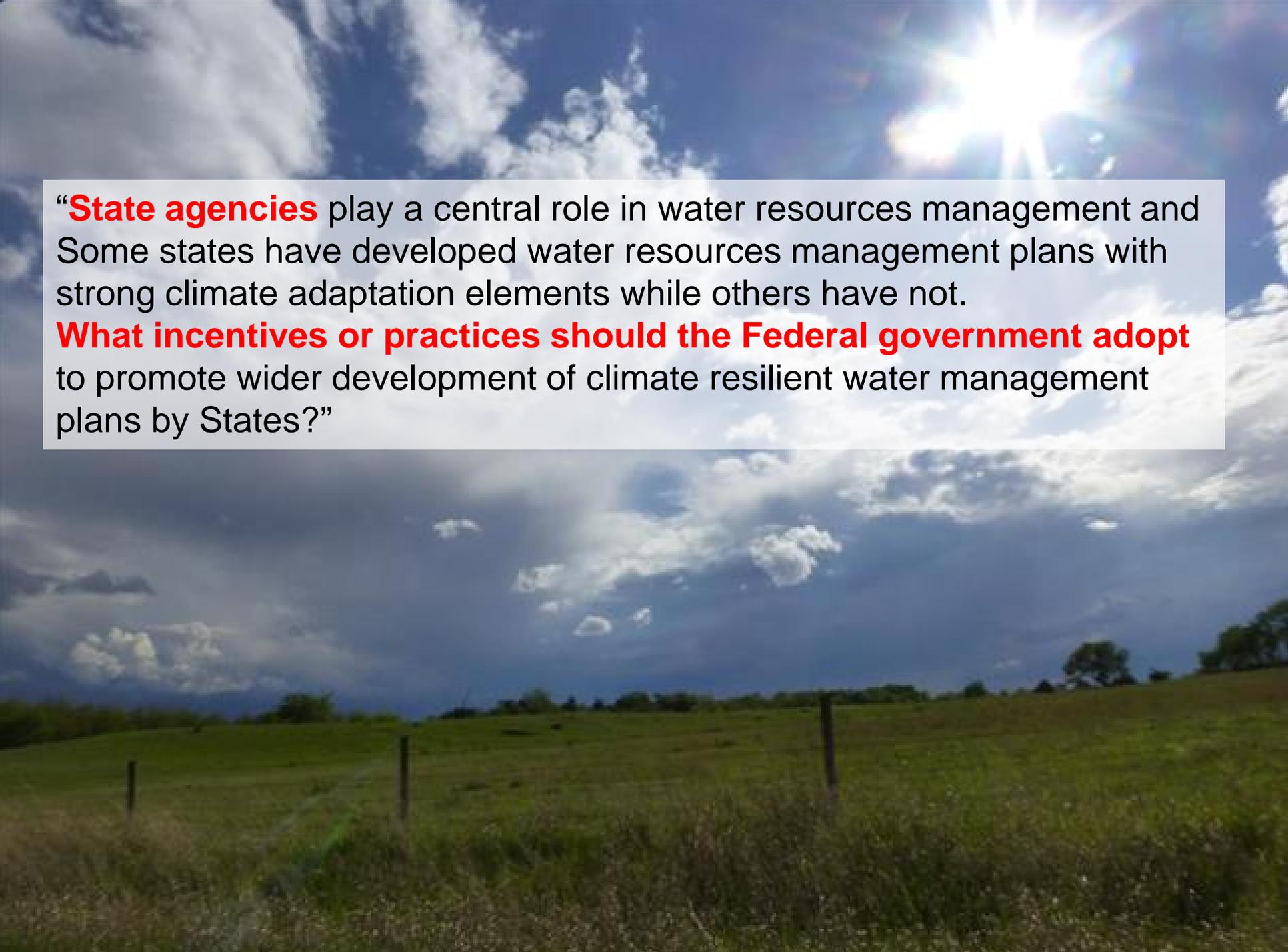
Marty Link, PG
President – GWPC
Nebraska Dept. of Environmental Quality



Whiskey is for drinking;
Water is for Fighting.

- not Mark Twain





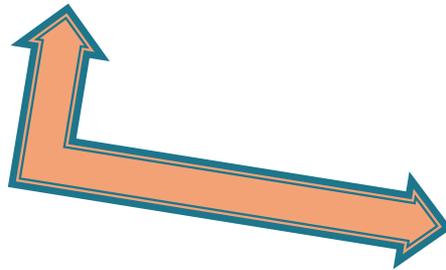
“State agencies play a central role in water resources management and Some states have developed water resources management plans with strong climate adaptation elements while others have not.

What incentives or practices should the Federal government adopt to promote wider development of climate resilient water management plans by States?”

GWPC 2016 **Survey of States** Regarding Water Resource Planning

Found no SINGLE (or even Two) main reasons for planning:

- Long term/serious droughts
- Significant flooding
- Endangered Species response
 - Includes habitat and ecological concerns
- Drinking water supplies
- Climate Change



**ONLY ONE OF
MANY REASONS**

Texas

- Regional planning/approval
- Local stakeholders/planning
- Available funding awarded via regional priorities



Nebraska

- Regional planning, stakeholder involvement
- State approval of plans
- Driven by drought, lawsuits, & State + Federal ESA agreements



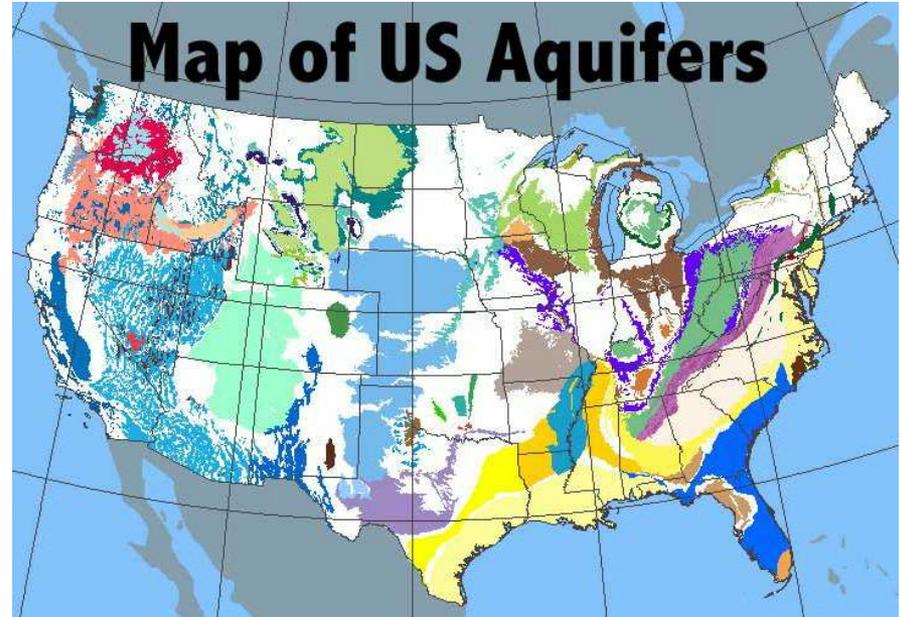
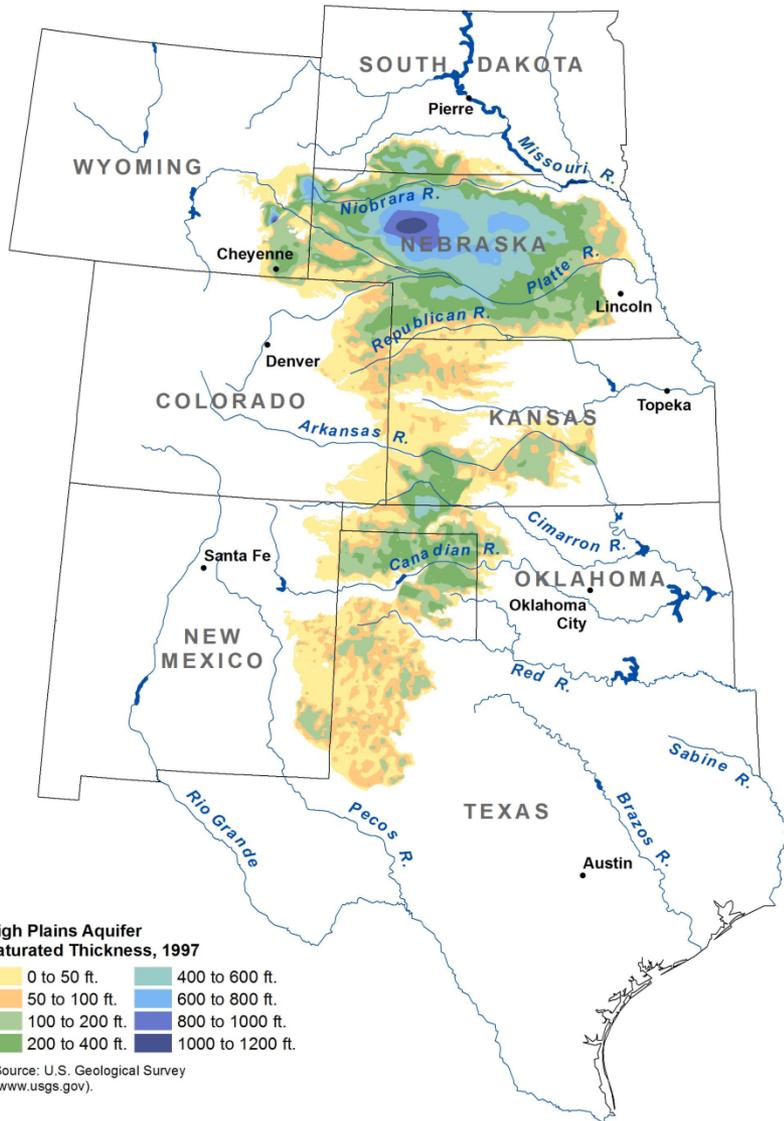
Oklahoma

- Top down, state law
- Lots of public listening sessions, advisory groups
- Data, modeling, recommendations



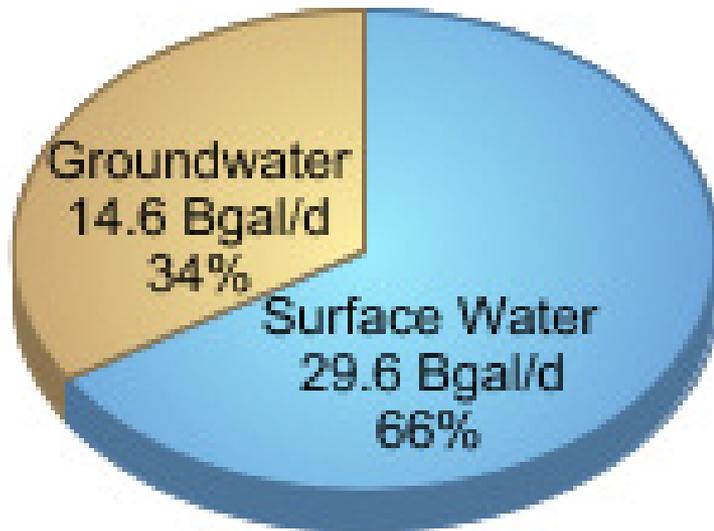
High Plains Aquifer

Groundwater



DON'T LEAVE GROUNDWATER OUT OF THE EQUATION!

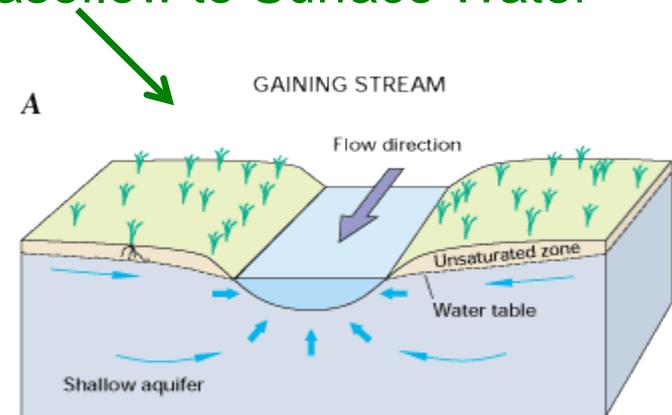
Public-supply
withdrawals, 2005



<https://water.usgs.gov/edu/wups.html>

Groundwater as a major source
of drinking water

Groundwater as a HUGE source
of Baseflow to Surface Water

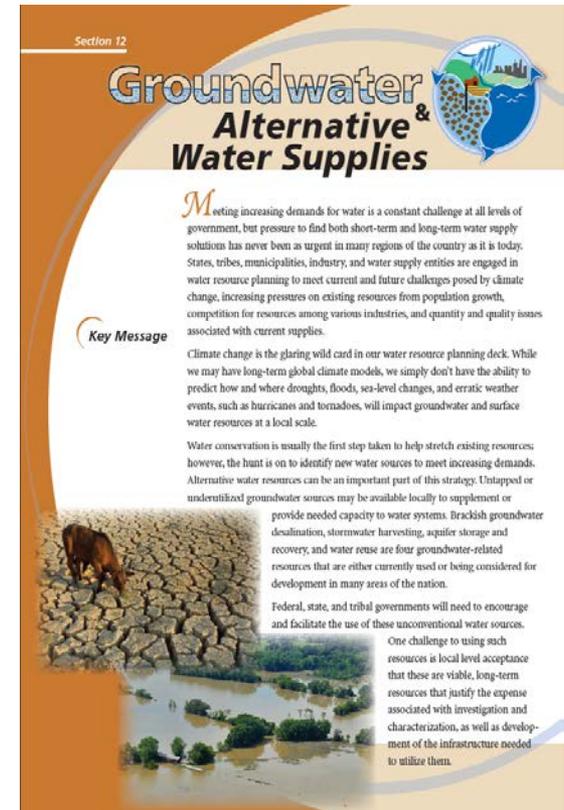


https://pubs.usgs.gov/circ/circ1139/htdocs/natural_processes_of_ground.htm

GWPC: Ground Water Report to the Nation

Chapter 11: Groundwater & Alternative Water Supplies

- Why Alternative Water Supplies Matter
- Adapting to Meet Future Demands
- Alternative Groundwater Resources
- Recommended Actions



http://www.gwpc.org/sites/default/files/GWPC_CH11_AlrRes_6_7_14rfs.pdf



Federal Government Assistance

**Data, Tools, Re\$ource\$ for States -
Modeling, Forecasts, Etc. --- for:**

- Groundwater Desalination
- Stormwater Harvesting
- Aquifer Storage and Recovery
- Water Reuse
- DW & CWSRF Flexibility

Questions?



<http://www.gwpc.org/resources/publications>