The background is a composite image. At the top, a city skyline is visible against a blue sky. Below that, a wide river flows through a landscape with trees. In the foreground, a large, cylindrical water tower stands on the right side. The water tower has a corrugated metal texture and a dark top section. The overall scene is a mix of natural and urban elements.

Water Availability and Use Science Program *National Water Census*

Western States Water Council
Stateline, Nevada
July 9, 2015



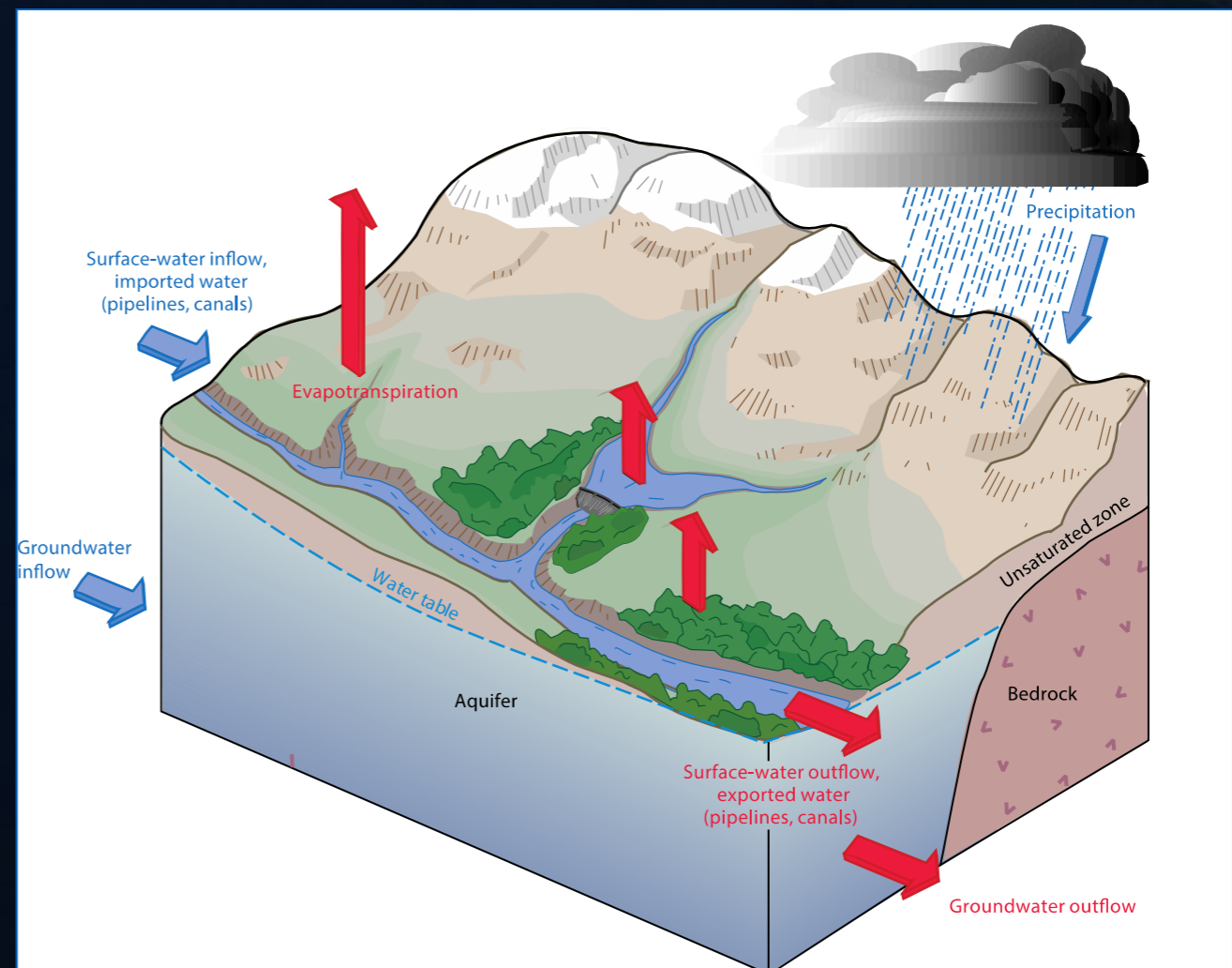
Goals of the WAUSP

- provide a more accurate assessment of the status of the water resources of the United States;
- assist in the determination of the quantity of water that is available for beneficial uses;
- assist in the determination of the quality of the water resources of the United States;
- identify long-term trends in water availability;
- use each long-term trend to provide a more accurate assessment of the change in the availability of water in the United States; and
- develop the basis for an improved ability to forecast the availability of water for future economic, energy- production, and environmental uses.

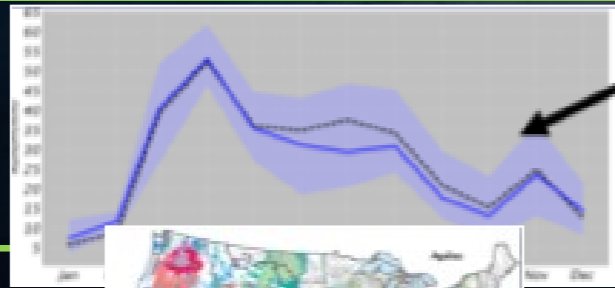
Our Approach

- Water Budgets provide a unifying theme to achieve our goals

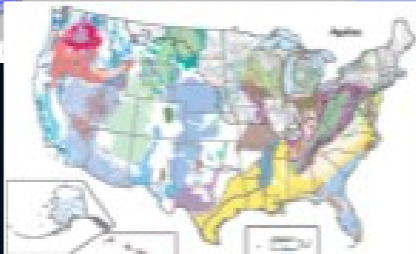
$$\begin{aligned} &\text{Precipitation} \\ &+ \\ &\text{Flow in} \\ &= \\ &\text{Evapotranspiration} \\ &+ \\ &\text{Storage Change} \\ &+ \\ &\text{Flow out} \end{aligned}$$



NWC – National Topical Studies



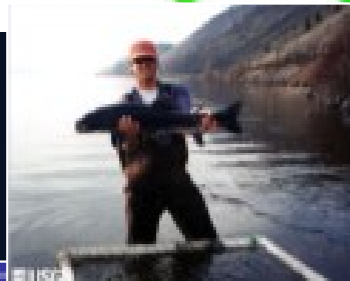
Estimation of Flow in Ungaged Basins



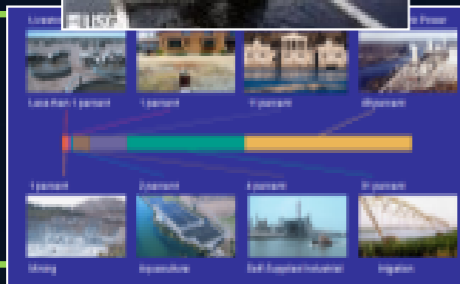
Groundwater Information



Estimation of Evapotranspiration



Ecological Water Science



Water Use

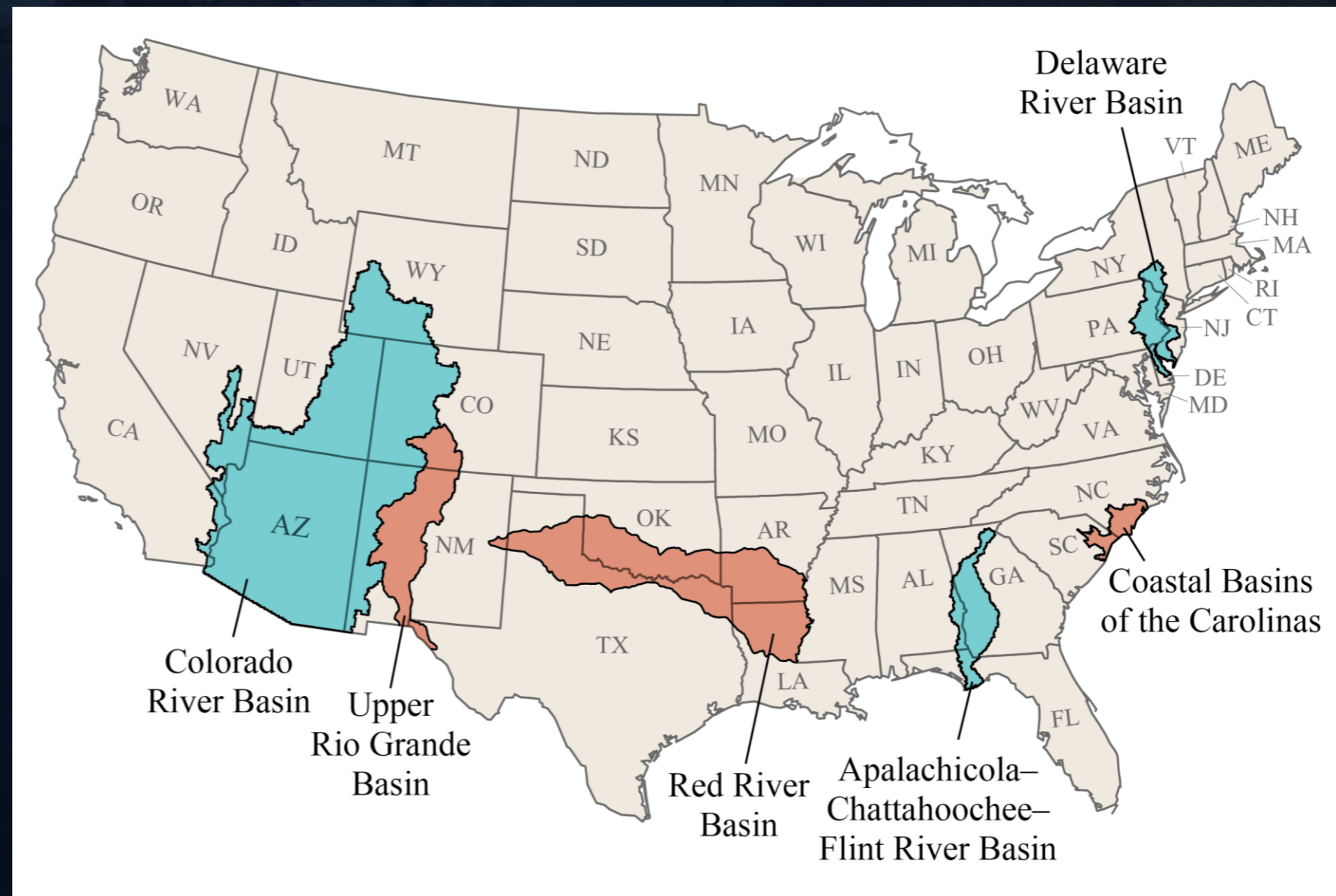
New and Existing Focus Area Studies

Existing FAS

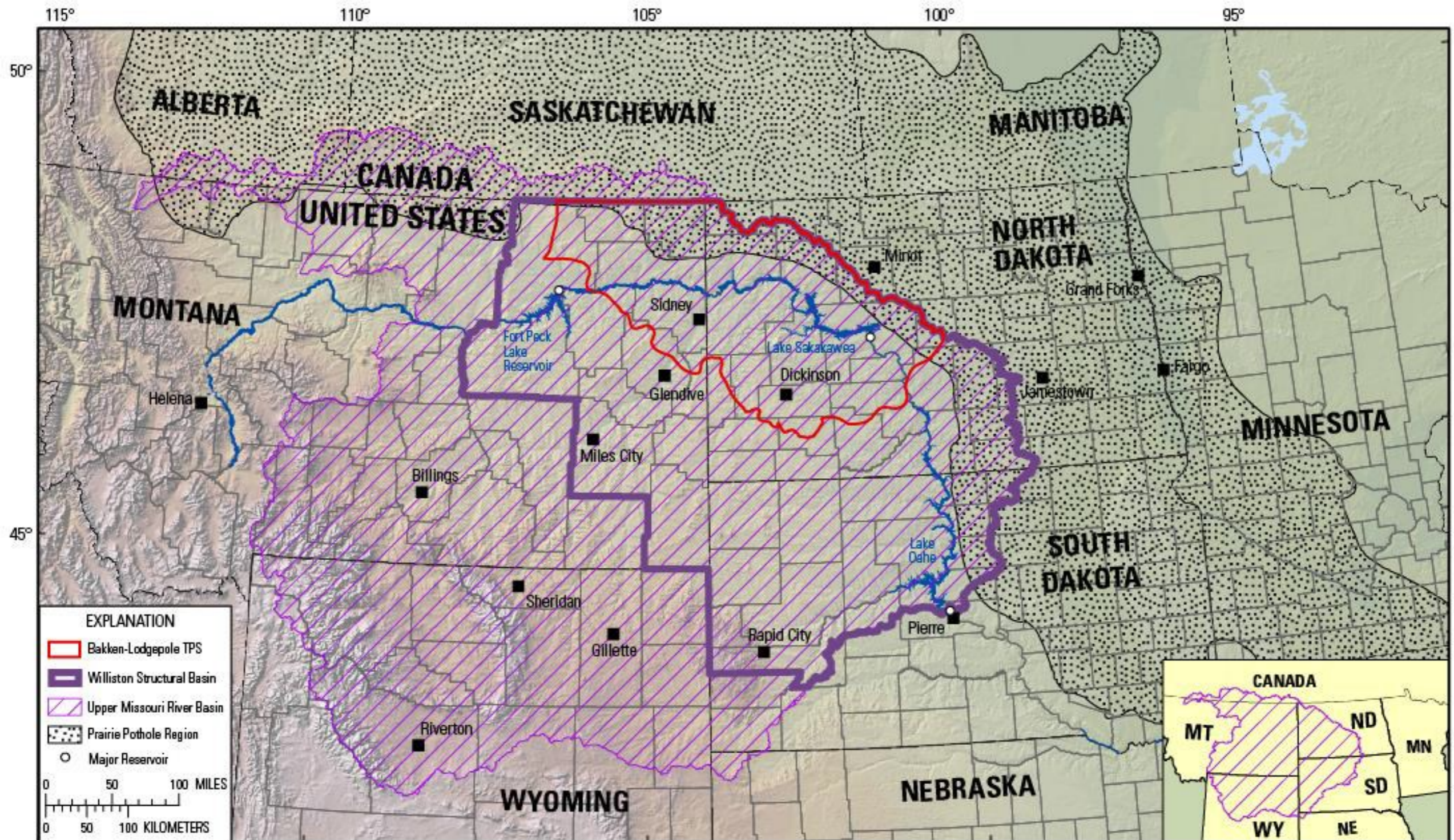
- ACF
- Colorado
- Delaware

New FAS (2016)

- Red River
- Upper Rio Grande
- Coastal Carolinas



Unconventional Oil and Gas



Information Delivery



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National Water Census - Data Portal

Welcome to the National Water Census Data Portal. Here you will find national estimates of water budget components for local watersheds, water withdrawal data for counties, tools to calculate statistics of daily streamflow records, modeled daily streamflow at ungaged stations, and access to records of aquatic biology observations. If you find any issues or have suggestions, please contact dblodgett@usgs.gov. This portal is a subset of the research and information being conducted by the National Water Census. Please visit [our home page](#) to find out more.

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[Water Budget](#)

[Streamflow Stats](#)

[Aquatic Biology](#)

[Data Discovery](#)

Water Budget



Discover water budget data for watersheds and counties.

Streamflow Stats



Access streamflow statistics for stream gages and model results.

Aquatic Biology



Access aquatic biology data and streamflow statistics for related sites.

Data Discovery



Search and browse datasets, publications, and project descriptions.



State Water Use Grants

- The SECURE Water Act authorized a program that will provide financial resources, through cooperative agreements with State water resource agencies.
- Funding should be used to improve the availability, quality, compatibility and delivery of water use data that is collected and/or estimated by States.
- Data must be integrated with appropriate datasets that are developed and/or maintained by the USGS.



State Water Use Grants

- \$12.5 million over 5 years
- \$1.352 million for FY 2015
- Each State \$26,000 to write workplan
- \$1.5 million for 2016 and beyond (pending)
- Competitive process
- \$250,000 State limit
- Grant Program Guidelines provided
- www.grants.gov



State Water Use Grants

- Interstate Council on Water Policy hosting 3 stakeholder meetings Aug – Nov, 2015.
- Encourages cooperation and collaboration between State agency and USGS to improve and build better water-use databases.
- Tiered criteria for major categories in guidelines.
- Ultimate goals for site-specific, watershed (HUC 8) and aquifer-based data, including improved consumptive use.

FY16 President's Budget, + \$14.6M

- **+\$3.0M on Water Use.** Major push on water use, including work on irrigation sources, public supply monthly volumes, improvements to thermoelectric data, and inclusion of wastewater discharge data.
- **+\$2.5M on Ecological Water.** Develop a national application of the Upper Delaware River Decision Support System.
- **+\$1.3M for enhanced streamflow** data collection, estimate streamflow in remote areas, and supplement work on monthly streamflow statistics.
- **+\$1.0M on Water Use Research** through Cooperative Water Funding.
- **+\$1.0M** to enhance the **National Groundwater Monitoring Network.**
- **+\$1.0M** for improvements to the **National Hydrography Database** to address modeling needs.
- **+0.8M** for remote sensing to support the initiative on **dynamic surface water extent.**
- **+0.8M** for development of a **National Hydrologic Model** for the CENRS water availability initiative.
- **+\$3.2M** for **drought science.**

House/Senate Marks for FY16

House mark has flat funding for the WAUSP for FY16

Senate Mark

- +\$1.0M Mississippi River Alluvial Plain Aquifer Assessment
- +\$1.0M U.S. Mexico Transboundary Aquifer Assessment
- +\$301K WaterSMART: Drought
- -\$550K HR&D Monitoring and Assessments
- -\$440K Model Development and Research
- -\$1.044M redirection of funding