

## 2022 National Water Use Data Workshop

August 16-18, 2022

Salt Lake City, Utah

Utah Department of Environmental Quality Building

195 North 1950 West, Salt Lake City



**Draft, May 27, 2022**

### What are water use data?

Water use data represent reported or estimated site-specific water withdrawals or consumptive use at daily, monthly, or annual scales for the USGS use categories of public supply, domestic, irrigation, thermoelectric power, industrial, mining, livestock, and aquaculture from surface or groundwater sources.

### Workshop Goals

- ❖ Provide a platform for state agencies' staff to learn from each other about the latest state and federal efforts related to water use data management and sharing.
- ❖ Engage state IT and water resources management staff regarding the USGS National Water Use/Water Use Data and Research (WUDR) Program and the WSWC Water Data Exchange (WaDE) Programs.
- ❖ Present the latest technological developments on water use data collection, storage and data Findable, Accessible, Interoperable, Reusable (FAIR) sharing methods and how States can benefit from them.
- ❖ Identify challenges related to States' data collection, storage and sharing efforts and potential solutions to consider

- ❖ Share strategies for enhanced data quality assurance and quality control.

## Focus Areas

- Programs or initiatives related to improving FAIR data collection, sharing, and access
- Historic annual/monthly/weekly/daily site-specific water withdrawals and use data reporting and sharing efforts.
- Data gaps and ways that have been developed to fill them. Present on metadata for water use information.

## Tentative Agenda

### Day 1 - Tuesday, August 16, 2022 (12:30 – 5:00 pm)

- 12:30 pm: **Workshop registration and refreshments**
- 1:00-2:15 pm: **Welcoming remarks/talks**
  - ✓ WSWC, ICWP, USGS, and Internet of Water remarks
  - ✓ Federal legislation update: Water Data Act
  - ✓ USGS Water Use Vision
  - ✓ Water Data Exchange (WaDE) Program Water Use Data Sharing Efforts
- 2:15-3:00 pm: **Regional and National Efforts**
  - ✓ Bureau of Reclamation water use models update
  - ✓ Internet of Water Geoconnex update
  - ✓ OpenET Update
- **3:00-3:30 pm: Afternoon refreshment break**
- **3:30-4:15 Initiatives related to improving data collection, sharing, and access**
  - ✓ California AB 1755 Open Water Data Sharing
  - ✓ New Mexico Water Data Initiative
  - ✓ Oregon Water Data Initiative
- 4:15-4:45 pm: WUDR grants – feedback, discussion, and lessons learned  
Discussion on the obstacles/ perceived or real problems on getting WUDR grants. Regional grant idea - strategy. Get the conversation going about having multiple states applying for a regional WUDR grant.

- 4:45 pm: Wrap Up and adjourn

### 6:00 pm Organizers' dinner?

## Day 2: Wednesday, August 17, 2022 (08:30 am – 5:00 pm)

- 8:30 am: Recap prior day and refreshments
- 9:00 to 10:15 am: **Data Sharing Efforts**
  - ✓ WSWC Report on Sates Capabilities + summarize/present insights
  - ✓ Nebraska: Real-time groundwater management with Big Data and the Internet of Things: Examples from the Twin Platte Natural Resources District Water Data Program
  - ✓ New Jersey Water Data Sharing
  - ✓ Texas Water Data Hub

### 10:15-10:45 am: Morning refreshment break

- 10:45 am – 12:00 pm: **Data Sharing Efforts** (a theme TBD)
  - ✓ Utah Data Sharing efforts (Invited)
  - ✓ Alaska Data Sharing efforts (Invited)
  - ✓ New Mexico Data Sharing efforts (Invited)
  - ✓ Wyoming Data Sharing efforts (Invited)
  - ✓ Idaho Data Sharing efforts (Invited)

### 12:00 – 1:30 pm Lunch (On Your Own)

- 1:30 – 2:45 pm: **Data Sharing Efforts** (a theme TBD)
  - ✓ Nebraska Data Sharing efforts (Invited)
  - ✓ Arizona Data Sharing efforts (Invited)
  - ✓ Nevada Data Sharing efforts (Invited)
  - ✓ Alabama Data Sharing efforts (Invited)
  - ✓ Kansas Data Sharing Efforts (Invited)

### 2:45 – 3:15 pm Afternoon refreshment break

- 3:15 – 4:00 pm **Data Sharing Efforts** (a theme TBD)
  - ✓ Pennsylvania Data Sharing efforts (Invited)
  - ✓ Virginia Data Sharing efforts (Invited)
  - ✓ Vermont Data Sharing efforts (Invited)
  - ✓ Washington Data Sharing efforts (Invited)
  - ✓ Colorado Data Sharing efforts (Invited)

### 4:00 – 4:45 pm Short break out session

- What are ways that have improved capability tools/databases/API to share water data?
- 4:45 pm: Wrap Up and Adjourn

6:00 pm: Dinner at Red Iguana in-lieu of a social event(?)

### Day 3: Thursday, August 18, 2022 (08:30 am -12:30 pm)

- 8:30 am: Recap prior day and refreshments
- 9:00 to 9:50 am: **Data Sharing Efforts** (a theme TBD)
  - ✓ Indiana Data Sharing efforts (Invited)
  - ✓ Missouri Data Sharing efforts (Invited)
  - ✓ Montana Data Sharing efforts (Invited)
  - ✓ Oklahoma Data Sharing efforts (Invited)
- 10:00-11:30 am: Breakout sessions 4 or 5 groups + **Short break and refreshments**
- 11:30-12:00 pm: Breakout Session Reporting - about 5-10 min each
- 12:15 pm: Wrap Up and Adjourn

### Questions to consider answering during the talks and breakout sessions

1. What are ways that have improved capability tools/databases/API to share water data?
2. What data related assessments (QA/QC) do you use such as identification of gaps, ways/tools for evaluating data, analysis to identify outliers or overcome data latency issues?
3. What are the challenges in getting the data you need to meet your water rights regulatory needs, water planning and other obligations? Do you have adequate information/data on surface/groundwater uses to make more informed decisions that are not here now? If not, do you have plans for a solution to those challenges?  
**What data are missing now?**
4. What metadata is needed, critical attributes for ensuring best use of data? What attributes of data are attainable, what can we add to a list for assessing accuracy or

uncertainty in values? How do we use, or exclude data, without adequate metadata?

5. What is your state's water use reporting systems and are there gaps in technical support, and methods? What future updates/plans for data collaboration, models, data services do you have? If water use data are reported voluntarily by water users, does your agency provide guidelines for reporting?
6. What can WaDE or WUDR do to help your state meet its challenges?