

**Paperwork Reduction Act Statement:** We are collecting this information subject to the Paperwork Reduction Act (44 U.S.C. 3501) to enable interested parties to provide input on issues to be addressed by the U.S. Geological Survey's integrated monitoring and science programs being developed for the Headwaters of the Upper Colorado River/Gunnison River Basin, as well as the data, analyses and products that will be generated. Your response is voluntary, and we will not share the results publicly. We may not conduct, or sponsor and you are not required to respond to a collection of information unless it displays a currently valid OMB Control Number. OMB has reviewed and approved this survey and assigned OMB Control Number 1090-0011, which expires 10-31-2021 Estimated Burden Statement: We estimate the survey will take you 15 minutes to complete, including time to read instructions, gather information, and complete and submit the survey. You may submit comments on any aspect of this information collection to the Information Collection Clearance Officer, US Geological Survey, [gsinfo\\_collections@usgs.gov](mailto:gsinfo_collections@usgs.gov).

**Privacy Act Statement:** You are not required to provide your contact information in order to submit your survey response. However, if you do not provide contact information, we may not be able to contact you for additional information to verify your responses. If you do provide contact information, this information will not be shared with any other organization and will only be used to initiate follow-up communication with you if needed. The records for this collection will be maintained in the appropriate Privacy Act System of Records identified as [DOI Social Networks (Interior/USGS-8) published at 76 FR 44033, 7/22/2011].

### Survey Questions:

#### 1. Which category best describes your organization?

- Federal
- State Agency (Colorado)
- State Agency (Utah)
- State Agency (Wyoming)
- City, Town, Township
- County
- Tribe
- University
- NGO
- Private
- Other (please specify)

#### 2. Which category best describes your role?

- Scientist/researcher
- Natural resource manager
- Policy maker
- Regulator
- Advocate
- Consultant
- Lobbyist
- Landowner
- Business owner
- Other (please specify)

**3. Which sector do you primarily belong too?**

- Water resources
- Wastewater
- Manufacturing
- Energy/minerals
- Agriculture
- Forestry
- Fishing
- Disaster management
- Land development/construction
- Environment/conservation
- Climate change adaptation
- Transportation
- Health
- Tourism
- Private citizen
- Other (please specify)

**4. What is the most common type of water resources-related decision that you make?**

- Emergency response
- Flood forecasting
- Infrastructure planning, design and (or) operation
- Ecosystem management
- Water supply planning
- Drinking water delivery
- Water-use allocation / restriction
- Permit compliance, includes water quality
- Recreational safety and enjoyment
- Other (please specify)
- N/A

**5. Which data and information would be most helpful to you?**

- Streamflow
- Groundwater
- Connections between groundwater and surface water
- Water quality (constituents of interest can be selected below)
- Snowpack and snowmelt
- Soil moisture
- Evapotranspiration
- Runoff
- Water use
- Water reuse
- Post-flood conditions
- Post-fire conditions
- Impacts of hydrologic drought

- Instream flow requirements for ecosystems and habitat
- Other (please specify)

**6. Which water quality constituents are of greatest interest to you?**

- Basic parameters (pH, DO, SC)
- Bacteria
- Carbon
- eDNA (endangered or invasive species, pathogen source tracking)
- Algae
- Metals
- Microplastics
- Nutrients
- PFAS
- Pesticides
- Salinity
- Sediment toxicity
- Suspended sediment
- Water temperature
- Other (please specify)

**7. Which water-quantity, quality, and use assessments are most needed?**

- Long-term trends in water availability and cause(s) of those trends, including economics
- Current water supply & demand and factors that influence water availability
- Seasonal to decadal forecasts of water availability
- Changes in water use over time
- Predictive capabilities for key water budget components (snow, soil moisture, ET, runoff, streamflow, groundwater)
- Streamflow trends and forecasts under a warming climate
- Snowpack and snowmelt & changes over time, includes forecasts of low-elevation snowmelt runoff
- Status of groundwater resources and changes over time
- Integration of water quality into water availability assessments
- Status of water quality and changes over time
- Relation between drought and water quality
- Short- and long-term effects of wildfire on water availability, inclusive of water quality
- Relation between oil & gas development and water availability (quantity & quality)
- Major sources of sediment to reservoirs
- Streambed load transport
- Other (please specify)

**8. How would you prefer to access USGS data?**

- Daily graphics of current conditions
- Manual download of data
- Automated data retrievals (use of web services)

- Simple visualizations of water quantity, quality, and (or) use
- Complex, integrated visualizations with capacity for user scenarios
- Other (please specify)

**9. What are the big water-resource issues that keep you up at night?**

**10. What is not being monitored but should be and (or) not being monitored enough and needs expansion?**

**11. Are you involved in any monitoring efforts? If yes, please describe.**

**12. What are the primary gaps in water-resource modeling and prediction in the basin?**

**13. Are there others who we should contact about water issues in the Headwaters of the Upper Colorado/Gunnison River Basin?**

**14. Do you want to be contacted for future meetings and updates?**

- Yes (first name, last name, organization, position, email address, state, work phone)
- No