



**Western Regional Partnership**  
*Reliable Outcomes for America's Defense, Energy,  
Environment and Infrastructure in the West*  
[wrpinfo.org](http://wrpinfo.org)

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OCTOBER 2020 UPDATE

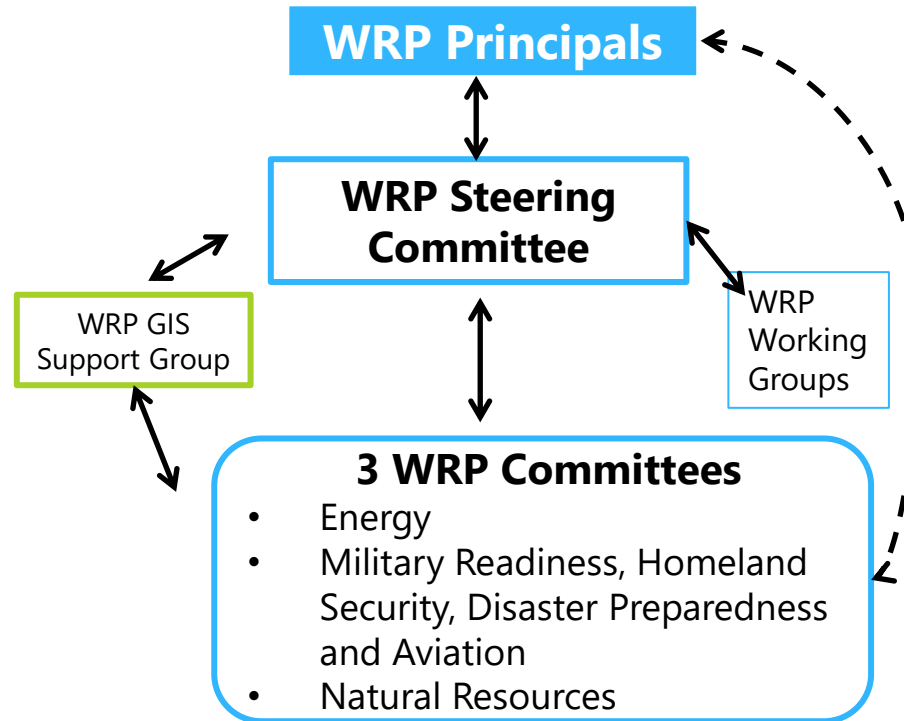
# WRP Mission

WRP provides a proactive and collaborative framework for **senior-policy level Federal, State and Tribal leadership** to identify common goals and emerging issues in the states of **Arizona, California, Colorado, Nevada, New Mexico and Utah** and to develop solutions that support WRP Partners and protect natural and cultural resources, while promoting sustainability, homeland security and military readiness.

## WRP Structure

### WRP Co-Chairs:

- **Honorable Gary Herbert**, Governor of Utah
- **Honorable W. Jordan Gillis**, Assistant Secretary of Defense for Sustainment
- **TBD**, Assistant Secretary for Land and Minerals Management, DOI



# WRP Steering Committee



• Representatives of each of the six WRP States:

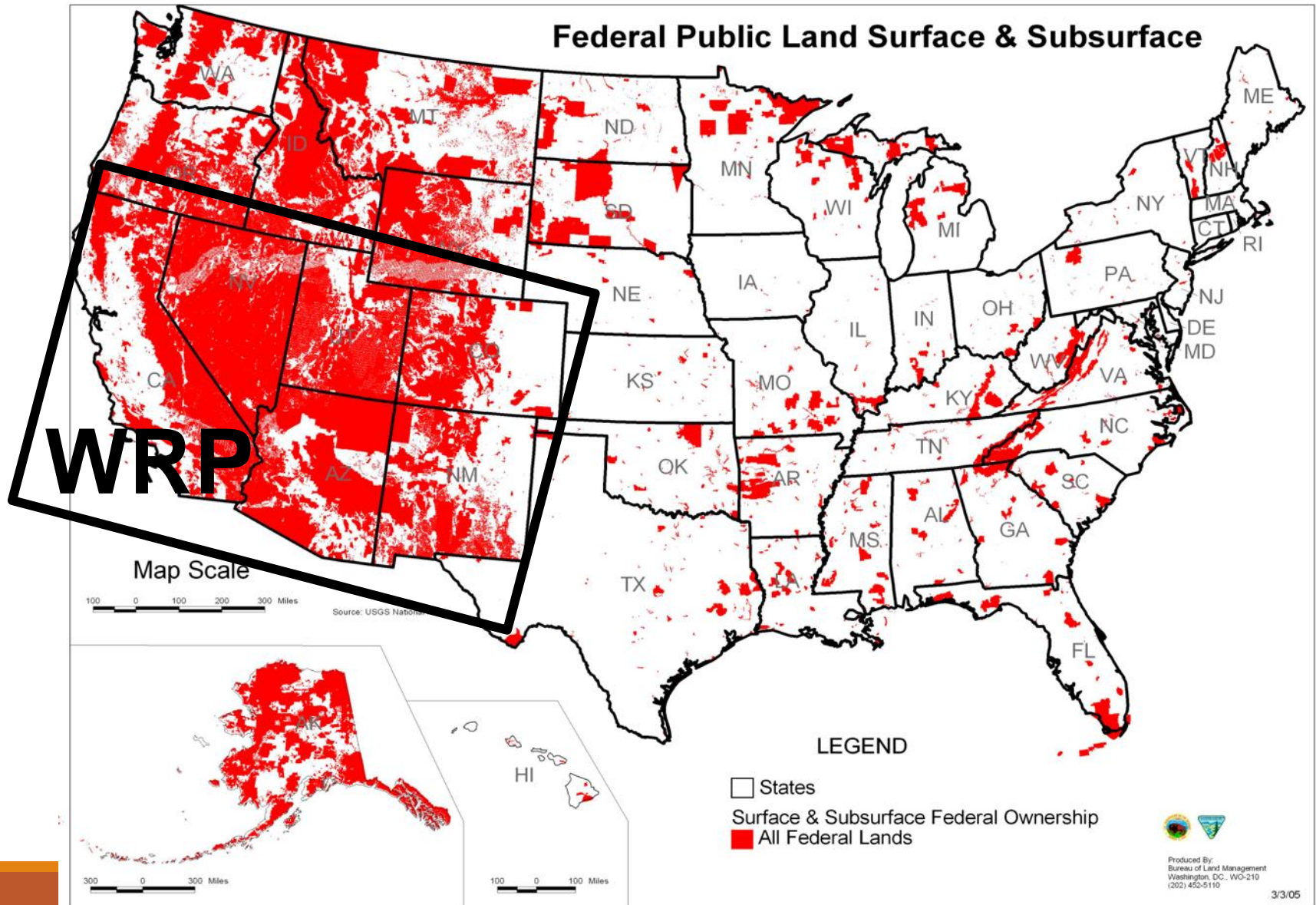
- Arizona, California, Colorado, Nevada, New Mexico and Utah
- Bureau of Indian Affairs
- Bureau of Land Management
- Bureau of Reclamation
- Customs and Border Protection, U.S. Border Patrol
- Department of Homeland Security, HQ
- Federal Aviation Administration
- Federal Emergency Management Agency
- Federal Highway Administration
- National Park Service
- Natural Resources Conservation Service
- National Oceanic and Atmospheric Administration

- Office of Secretary of Defense
- U.S. Air Force Headquarters
- U.S. Army
- U.S. Army Corps of Engineers
- U.S. Department of Energy
- U.S. Environmental Protection Agency
- U.S. Fish and Wildlife Service
- U.S. Forest Service
- U. S. Geological Survey
- U.S. Marine Corps Installations West
- U.S. Navy
- Native American Leadership:
  - Navajo Nation, Inter-Tribal Council of CA, Inc.
- Western Governors Association Liaison

# WRP Region's Uniqueness

- **Importance to the Military**
  - Extensive Training Ranges, Premier Testing Facilities, Unmatched Military Air Space
    - **Army:** ~55% of the Army's landholdings
    - **Navy:** Over 33% of Navy's landholdings
    - **Marine Corps:** 67% of Marine Corps' airspace  
85% of Marine Corps' Live Fire Ranges
    - **Air Force:** Includes four of the largest USAF range complexes - Edwards, Nellis/Creech/NTTR; Luke/Goldwater; and UTTR
    - 75% of DoD Special Use Airspace is located within the WRP Region
- **Significant amounts of Federally managed land**
  - In WRP states, Federal land ranges from 34.1% - 84.9% of total state
- **Significant State Trust Landholdings**
- **Approximately 172 Federally recognized Tribes**

# 88% of Federal Public Land is in the 12 most western states



# SURVEY RESULTS

Words that describe **WRP**

coordination  
**collaboration**  
partnership communication information military  
effective sharing Amy Duffy planning awareness regional western results policy strategic  
leadership knowledge facilitation southwest transparency solutions experienced professional people  
7 generations coaching innovative engagement science cooperation needed opportunity  
diverse open-minded education progressive open participation webinar network

# ***Background on WRP Water Security Deep-Dive***

## ■ **Current WRP Priority:**

- *Building Resilience in the West for America's Defense, Energy, Environment and Infrastructure through Enhanced Collaboration among Federal, State and Tribal Entities.*
  - **Explore** tools and resources needed to build resilience to **support** the diverse missions of Federal, State and Tribal entities in the WRP Region

## ■ **Phase one:** Survey of WRP Leadership identified four deep-dives

- Resilient Energy Infrastructure
  - Resiliency of Airspace in the WRP Region
  - Disaster Mitigation
  - **Water Security**
- WRP Water Security Outline drafted

# Background on WRP Water Security Deep-Dive (continued)

## ▪ **Timing:**

- Mid-Update: January 2021 (WRP SC Virtual Meeting)
- Report Finalized: April 2021
- Final Presentation: May 2021 (WRP Principals' Meeting)

## ▪ **Desired End State:**

- Brief overview of water security (what does “water security” mean for the WRP Region)
- Highlights of Water Security Deep-Dive Efforts (info on each “bucket”)
  - Case studies/vignettes to assist efforts
- Identify areas of commonality and recommendations (enforcement; water quality and quantity; financing/funding; resources, areas of potential WRP partner commonality to address water security efforts; recommendations)

Started a collection of water security resources and agency definitions of “water security”

# WRP Water Security Team

First Name	Last Name	Title	Agency
Adel	Abdallah	Ph.D., WaDE Program Manager	Western States Water Council
Erin	Adams	Erin M Adams Director, Government & External Affairs	Marine Air Ground Task Force Training Command Marine Corps Air Ground Combat Center Twentynine Palms, CA
Roger	Bales	Distinguished Professor of Engineering, UC Merced Adjunct Professor, Civil & Environmental Engineering	UC Berkeley
Melanie	Barnes	Ph.D., Deputy State Director	New Mexico Bureau of Land Management
Gayle	Barry	Special Assistant to the State Conservationist	NRCS California
Stephen	Bartell	Assistant Chief, Natural Resources Section, Environment & Natural Resources Division	United States Department of Justice
Astor	Boozar	Regional Conservationist-West	USDA-NRCS
Michelle	Bushman	Assistant Director/Legal Counsel	Western States Water Council
Christopher	Carlson	Assistant Director – Water and Aquatic Resources	USDA Forest Service
Seth	Cohen	Dr.	USACE Collaboration & Public Participation Center of Expertise Institute for Water Resources
Mike	Dick	Biologist (IT)	U.S. Fish & Wildlife Service, Region 2, Regional Office
Bradley	Doorn	Ph.D., Science Mission Directorate, Earth Science Division	NASA HQ
John	Echohawk	Executive Director	Native American Rights Fund
Julie	Ekstrom	Ph.D., Senior Environmental Scientist Supervisor, Water Use Efficiency Implementation Branch – Urban Unit	California Department of Water Resources
Micheline	Fairbank	Deputy Administrator	Nevada Division of Water Resources
Mary Kay	Faryan	DoD Regional Environmental Counsel	Navy Region Southwest
Tom	Finnegan	Colonel Army (Retired)	Arizona Military Affairs Commission
Roger	Gorke	Senior Policy Advisor, Office of Water	U.S. Environmental Protection Agency
Kamyar	Guivetchi, P.E.	Manager, Division of Planning	California Department of Water Resources
Clayton	Honyumptewa	Director, Department of Natural Resources	The Hopi Tribe
Junko	Hoshi	Dr.	California Department of Fish & Wildlife
John	Kersey	Community Planning Liaison Officer	Naval Air Weapons Station, China Lake

Kevin	Kinsall	Natural Resources Intergovernmental Coordinator	Arizona Game and Fish Department
Ron	Kneebone	Ph.D. Director	Tribal Nations Technical Center of Expertise Albuquerque District
Deb	Lawler	Special Assistant	Western State Water Council Federal Liaison Officer/Special Assistant U.S. Bureau of Reclamation
Dean	Marrone	Manager, Water Resources and Planning Office	U.S. Bureau of Reclamation
Marissa	McInnis	Program Manager, Water Resources and Climate Resilience	U.S. Department of Defense
Kevin	McLaury	Deputy Director, Field Services - West	Federal Highway Admin.
Forrest	Melton	Program Scientist	NASA Western Water Applications Office
Scott	Morgan	Chief Deputy Director	CA Governor's Office of Planning & Research
Jessica	Palmer	Regulatory Affairs	Navy - DoD REC 9
Steve	Pennix	Branch Head Range Sustainability Office	Naval Air Warfare Center, Weapons Division China Lake Ranges
Jessica	Reimer	Policy Analyst	Western States Water Council
Chris	Rich	Attorney Advisor	Regional Solicitor's Office, Intermountain Region
Adam	Ringia	Executive Director, SWTFC Tribal Liaison, National Fish Habitat Partnership Water Rights Office Manager, Pueblo of Laguna	SWTFC; National Fish Habitat Partnership; Pueblo of Laguna
Ryan	Rowland	Data Chief	USGS Utah Water Science Center
David	Sandino	Senior Staff Counsel	California Department of Water Resources
Ward	Scott	Policy Advisor	Western Governors' Association
Allison	Shipp	Deputy Regional Director for Science Rocky Mountain Region, DOI Region 7: Upper Colorado	USGS
Jack	Simes	Acting Area Manager	Bureau of Reclamation
Crystal	Tulley-Cordova	M.W.R., Ph.D.   Principal Hydrologist	Navajo Nation Department of Water Resources Water Management Branch
Mathew	Walsh	Executive Liaison to the Commanding General	U.S. Army Intelligence Center of Excellence & Fort Huachuca
Anthony	Willardson	Executive Director	Western States Water Council
Matt	Wunder, Ph.D.	Chief, Ecological and Environmental Planning Division	New Mexico Department of Game and Fish
José	Zambrana, Jr.	PhD; Tribal Science Council EPA Co-Chair; Senior Science Advisor, Center for Environmental Measurement and Modeling (CEMM); Office of Research and Development (ORD)	US EPA
Jeffrey	Zimmerman	Acting Regional Director	NOAA/National Weather Service/Western Region

# ***Water Security “Buckets”***

## **DATA:**

Develop understanding of the scientific data to support water availability and infrastructure capacities in the WRP Region and identify gaps and best practices

## **POLICY PLANNING and IMPLEMENTATION:**

How statutes, regulations, policy, and guidance are implemented to promote planning for water security

## **WATER RESOURCE MANAGEMENT STRATEGIES:**

Identify best practices and new technologies for implementing water resource management strategies to reduce water demand, increase supply reliability, improve quality, reduce flood risk, restore ecosystems, and ensure equity

## **WATER LAWS and REGULATIONS:**

Develop understanding of water quality and quantity laws and regulations in the context of water security

*Each of the buckets are to explore their interdependencies with each other, including enforcement, water quality and quantity as well as financing/funding*

## Water Data “Bucket” Mission/Goal

Develop understanding of the scientific data to support water availability and infrastructure capacities in the WRP Region and identify gaps and best practices:

- Current data available
- Identified data gaps (to better monitor, forecast and plan)
  - How to measure consumptive use
  - Groundwater and surface water delivery, quantity, quality and use
  - Improve forecasts of water availability and demand
  - Environmental flow requirements
- Watershed-scale approaches for assessing vulnerability and risk
- Highlight proven conservation practices

# Water Policy Planning and Implementation “Bucket”

- Highlight recent policy (government policy, planning, plan implementation and enforcement) changes impacting water security and identify any gaps and opportunities for WRP Partners
  - Any trends/predictions?
  - Policy changes with funding?
  - Agency challenges/hurdles?
- Summarize best practices for policy planning and implementation – especially at a regional/watershed scale or that could be replicated in the WRP Region
  - Efforts to create water security in cost effective manner/leveraging funds
  - Addressing multi-sector/multiple projects
  - Enforcement vs. voluntary
  - Approval processes for plans that create incentives
  - Implementation successes - Not becoming a shelf queen
  - Understanding size of the bucket and matching policies/diversifying water supplies
  - How to best address turnover among policy makers (new administrations etc.)
  - Water SubCabinet
  - Co-Management of ground and surface water
  - Strengthening partnerships

# Water Policy changes impacting Water Security

- State:
  - CA - Sustainable Groundwater Management Act (SGMA)
  - Drought Contingency Plans/working with BuRec on shortages
  - NV: Co-Management of ground and surface water
  - [WGA Policy Resolution 2020-01, Strengthening the State-Federal Relationship](#)
- Federal:
  - American Water Infrastructure Act (2018)
  - Efforts to quantify water rights
  - EPA Navigable Waters Protection Rule
  - [Executive Order 13132](#) on Federalism
  - National Water Reuse Action Plan (WRAP)
  - Water Infrastructure Finance and Innovation Act (WIFIA)
  - WaterSmart programs
  - Waters of the United States (WOTUS)

Any gaps or opportunities to make note of?

# Water Resource Management Strategies “Bucket”

## Mission/Goal

- Identify best practices and new technologies for implementing water resource management strategies to reduce water demand, increase supply reliability, improve quality, reduce flood risk, restore ecosystems, and ensure equity
  - Regional/watershed-based planning
  - Portfolio of cost-effective water management strategies (see California Water Plan 30+ Resource Management Strategies to reduce demand, reduce flood risk, increase supply reliability, improve quality, restore ecosystems, and ensure equity)
  - Co-management of water sectors to implement multi-benefit projects
- Gaps and recommendations
  - Water technologies to support water security, resilience and sustainability

# **30+ Resource Management Strategies**

## Tools for Diversifying Regional Water Portfolios

*Taken from CA Water Plan with slight modifications*

### **Reduce Water Demand**

- Agricultural Water Use Efficiency
- Urban Water Use Efficiency

### **Improve Operational Efficiency & Transfers**

- Conveyance – Regional / Local
- System Reoperation
- Water Transfers

### **Increase Water Supply**

- Conjunctive Management & Groundwater Storage
- Desalination – Brackish & Seawater
- Precipitation Enhancement
- Recycled Municipal Water
- Surface Storage – Regional / Local

### **Improve Flood Management**

- Flood Management

### **Navigation**

### **Improve Water Quality**

- Drinking Water Treatment & Distribution
- Groundwater / Aquifer Remediation
- Matching Quality to Use
- Pollution Prevention
- Salt & Salinity Management
- Urban Stormwater Runoff Management

### **Practice Resource Stewardship**

- Agricultural Lands Stewardship
- Ecosystem Restoration
- Forest Management
- Land Use Planning & Management
- Recharge Areas Protection
- Sediment Management
- Watershed Management

### **People & Culture**

- Economic Incentives (Loans, Grants & Water Pricing)
- Outreach & Engagement
- Water & Culture
- Water-Dependent Recreation

# Water Laws and Regulations “Bucket” Mission/Goal

- Develop understanding of water quality and quantity laws and regulations in the context of water security
  - Federal, State and Tribal roles, interests and perspectives regarding the interrelationship between water availability and quality on long-term water security
  - Advancing water security through water quality laws, regulations and programs
    - Advantage of consistent water policies and agreement on performance indicators (incentives and regulations)
  - Trends in water rights, regulations and water accounting
    - Tribal water rights (recognition, integration and the potential for uncertainty for the unquantified water rights)
    - Water resource management advancements in quantification, use and enforcement
    - Water rights and competing needs (private, public, urban, rural, individual, environmental, etc.)
    - Conversion of land and water uses (ag to urban) and the impacts on resource management, etc.
  - Collaborative tools to resolve water disputes to avoid litigation and improve water security:
    - Approaches to enhance awareness of potential issues and structure.
    - Enhancing communication among State, Federal, Tribal and other parties in the West



# WRP Water-Related Webinars:

Two confirmed; three in coordination

# Fort Huachuca Sentinel Landscape/Partnership Water Efforts Webinar

October 15: 1:00 pm to 2:30 pm Pacific

## This webinar will highlight:

- Highlights from the Southeastern Arizona/New Mexico Region (SoAZ/NM) demonstration project
- Fort Huachuca Sentinel Landscape purpose and current efforts
- Overview of the area's water security challenges and successes

## Presenters:

- Colonel Tom Finnegan, Army (Retired): WRP Natural Resources Committee Co-Chair and Project Lead for the completed WRP Southeastern Arizona/New Mexico Project
- **Dr. Holly Richter**, Arizona Water Projects Director for The Nature Conservancy in Arizona, is a founding member of both the Upper San Pedro Partnership and the Cochise Conservation and Recharge Network.
- **Mr. Matt Walsh**, Executive Liaison Assistant to the Commanding General, U.S. Army Intelligence Center of Excellence & Ft. Huachuca: Supports the Commanding General including the areas of engagements with Congress, the Arizona Governor's Office and State Legislature, Federal and State agency partners, the Western Regional Partnership and the Arizona Commanders Summit

# Collaborative Tools for Resolving Water Disputes Webinar

Oct 22: 9:00 to 11:00 am Pacific

- **Part 1:** Intro to Water Laws and Regulations (why you should care)
- **Part 2:** Federal, State and Tribal Water Rights
- **Part 3:** Trends in Water Rights and Regulations (what to watch out for)
- **Part 4:** Collaborative tools for potential water disputes (to avoid legal action):
  - Approaches to enhance situational awareness of potential issues and structure.
  - Improve communication among State – Federal – Tribal and other parties in the West
  - Resources to assist with legal questions
- **Speakers:**
  - Stephen Bartell, Assistant Chief, Natural Resources Section, Environment & Natural Resources Division, United States Department of Justice
  - Michelle Bushman, Assistant Director/Legal Counsel, Western States Water Council
  - John Echohawk, Executive Director, Native American Rights Fund
  - Chris Rich, Attorney Advisor, Regional Solicitor's Office, Intermountain Region

# Value of WRP

## Resource: WRP Leadership Perspective



A forum to engage with high-level representatives of states, federal and Tribal entities across WRP Region



Opportunities to enhance situational awareness of policy and emerging issues



Enable interagency dialogue for identifying, addressing, and avoiding these potential conflicts



Recommendations and innovative solutions in the gap between real time problems and long-term policy development



Access to tools and WRP Deliverables



# Any Questions?



[www.wrpinfo.org](http://www.wrpinfo.org)



**Western Regional Partnership Principals' Meeting**  
Marine Corps Base Camp Pendleton  
November 19, 2019



**173 senior policy-level leaders (and their staff) in attendance**