SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND POWER DISTRICT MEETING NOTICE AND AGENDA

WATER COMMITTEE

Tuesday, June 16, 2026, 9:30 AM

SRP Administration Building
1500 N. Mill Avenue, Tempe, AZ 85288

Committee Members: Robert Arnett, Chair; Stephen Williams, Vice Chair; and Ken Clark, Melissa Harlan, Kevin Johnson, Kathy Mohr-Almeida, and Krista O'Brien

Call to Order
Roll Call

1. **CONSENT AGENDA:** The following agenda item(s) will be considered as a group by the Committee and will be enacted with one motion. There will be no separate discussion of these item(s) unless a Committee Member requests, in which event the agenda item(s) will be removed from the Consent Agenda and considered as a separate item ..... CHAIR ROBERT ARNETT

   - Request for approval of the minutes for the meeting of May 19, 2026.

2. Evaporation Study Related to Solar Over Canals ..... BOB PANE

   Informational presentation regarding SRP's work with Arizona State University (ASU) in measuring evaporation in the canal system as it related to solar over canals.

3. SRP Biochar Initiative..... ELVY BARTON

   Informational presentation regarding SRP's Biochar Initiative and Biochar Initial Adopters Program, which is a part of SRP's forest health efforts.

4. Executive Session, Pursuant to A.R.S. §38-431.03(A)(3) and (A)(4), to Have Discussion or Consultation with Attorneys for Legal Advice and to Give Instructions on 1) Pending Litigation, Gallagher & Kennedy, P.A. v. City of Phoenix, et al., Case No. 23-15938, 2:16-cv-04447, and 2) Legal Issues and Potential Settlement/Remedy for the West Van Buren Water Quality Assurance Revolving Fund (WQARF) Site to Avoid Additional Litigation
   ..... MICHAEL O'CONNOR

5. Report on Current Events by the General Manager and Chief Executive Officer or Designees ..... JIM PRATT

6. Future Agenda Topics ..... CHAIR ROBERT ARNETT

The Committee may vote during the meeting to go into Executive Session, pursuant to A.R.S. §38-431.03 (A)(3), for the purpose of discussion or consultation for legal advice with legal counsel to the Committee on any of the matters listed on the agenda.

The Committee may go into Closed Session, pursuant to A.R.S. §30-805(B), for records and proceedings relating to competitive activity, including trade secrets or privileged or confidential commercial or financial information.

Visitors: The public has the option to attend in-person or observe via Zoom and may receive teleconference information by contacting the Corporate Secretary's Office at (602) 236-4398. If attending in-person, all property in your possession, including purses, briefcases, packages, or containers, will be subject to inspection.

THE NEXT WATER COMMITTEE MEETING
IS SCHEDULED FOR TUESDAY, AUGUST 18, 2026

MINUTES
WATER COMMITTEE
SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND
POWER DISTRICT

DRAFT

May 19, 2026

A meeting of the Water Committee of the Salt River Project Agricultural Improvement and Power District (the District) convened at 9:30 a.m. on Tuesday, May 19, 2026, from the Hoopes Board Conference Room at the SRP Administration Building, 1500 North Mill Avenue, Tempe, Arizona. This meeting was conducted in-person and via teleconference in compliance with open meeting law guidelines. The District and Salt River Valley Water Users' Association (the Association) are collectively known as SRP.

Committee Members present at roll call were P. Rovey, Chair; and C. Clowes, K. O'Brien, and M. Pace; and L. Williams of the Association.

Also present were President C. Dobson; Vice President B. Paceley; Board Members R. Arnett, K. Clark, M. Harlan, K. Johnson, and S. Williams; Board Member L. Rovey of the Association; Council Chair R. Shelton; Council Vice Chair S. Naylor; Council Liaison P. Van Hofwegen; Council Members N. Brown, E. Gorsegner, M. Rakow, and C. Resch-Geretti; I. Avalos, M. Burger, A. Davis, D. Dreiling, T. Hayes, L. Hobaica, B. Koch, S. Lutz, C. McJunkin, M. Mendonca, C. Moore, S .Morris, M. O'Connor, B. Olsen, B. Pane, J. Pratt, M. Purnell, L. Shaw, C. Sifuentes-Kohlbeck, P. Sigl, and R. Taylor of SRP; Paul Bergelin of Arizona Municipal Water Users Association (AMWUA); and Angie Lohse of Central Arizona Project (CAP).

In compliance with A.R.S. §38-431.02, Andrew Davis of the Corporate Secretary's Office had posted a notice and agenda of the Water Committee meeting at the SRP Administration Building, 1500 North Mill Avenue, Tempe, Arizona, at 9:00 a.m. on Friday, May 15, 2026.

Chair P. Rovey called the meeting to order.

Consent Agenda

Chair P. Rovey requested a motion for Committee approval of the Consent Agenda, in its entirety.

On a motion duly made by Board Member M. Pace and seconded by Board Member C. Clowes, the Committee unanimously approved and adopted the following item on the Consent Agenda:

- Minutes of the Water Committee meeting on April 21, 2026, as presented.

Assistant Corporate Secretary L. Hobaica polled the Committee Members on Board Member M. Pace 's motion to approve the Consent Agenda, in its entirety. The vote was recorded as follows:

YES:	Board Members P. Rovey, Chair; and C. Clowes, K. O'Brien, and M. Pace	(4)
NO:	None	(0)
ABSTAINED:	None	(0)
ABSENT:	None	(0)

Colorado River Update

Using a PowerPoint presentation, Christa McJunkin, SRP Senior Director of Water Supply and System, stated that the purpose of the presentation was to provide an update on the status of the negotiations among the Colorado River Basin States and the United States for post-2026 operations, including the Lower Basin States recent proposal submitted to the Department of the Interior.

C. McJunkin presented an apportionment map of the Colorado River water allocations in the Upper Basin, Lower Basin, and Mexico. They provided a brief overview of the Arizona v. California U.S. Supreme Court decision and the Colorado River Basin Project Act and the Colorado River priorities in Arizona.

C. McJunkin explained that the Colorado River reservoir contents have decreased drastically since 2000 and provided a graph of the unregulated inflow to Lake Powell from 1964 to 2026. They concluded with an overview of the Lower Basin states' proposal elements, reductions and additional conservation targets, and post-2026 timeline updates.

C. McJunkin responded to questions from the Committee.

Copies of the PowerPoint slides used in this presentation are on file in the Corporate Secretary's Office and, by reference, made a part of these minutes.

J. Pratt of SRP left the meeting during the presentation. Board Members N. Brown and S. Kennedy; Council Member W. Lines; and P. Likens of SRP entered the meeting during the presentation.

Agreements with Cities to Recover Water Stored Underground

Using a PowerPoint presentation, Colette Moore, SRP Senior Manager of Water Strategy and Contracts, stated that the purpose of the presentation was to provide information regarding proposed Water Recovery Agreements between certain cities and SRP where SRP would use SRP designated wells to recover water stored underground and accounted for as Long-Term Storage Credits (LTSCs) under state law.

C. Moore provided an overview and background of the LTSCs, the existing Water Delivery and Use Agreements (WDUAs), and Water Transportation Agreements (WTAs). They highlighted that through these various agreements, SRP uses SRP infrastructure to recover LTSCs held by cities and said that the agreements support regional, long-term municipal water planning while prioritizing delivery to SRP shareholders.

C. Moore provided images of underground storage projects and a groundwater savings facility and explained the groundwater recharge process and SRP's water delivery system. They concluded by explaining the scope of the project, the term and governance, and next steps.

C. Moore responded to questions from the Committee.

Copies of the PowerPoint slides used in this presentation are on file in the Corporate Secretary's Office and, by reference, made a part of these minutes.

P. Sigl of SRP left the meeting during the presentation. J. Felty of SRP entered the meeting during the presentation.

Gilbert Road Pipeline Project

Using a PowerPoint presentation, Sharon Morris, SRP Senior Manager of Aquifer Management and Data Analytics, stated that the purpose of the presentation was to provide an overview of SRP's Gilbert Road pipeline project and an update on construction progress.

S. Morris presented aerial view images and explained that the Gilbert Road pipeline project is a major water infrastructure project and is a collaboration across numerous SRP groups. They said that the new pipeline will run from Thomas Road to the Arizona Canal, close to the Granite Reef Underground Storage Project (GRUSP).

S. Morris concluded with images, along with explanations, of the following: water supply; strategic new wells; site preparation, drilling, and analysis; well drilling; material inspections; pipeline installation; and the delivery of a discharge box to the Arizona Canal.

S. Morris responded to questions from the Committee.

Copies of the PowerPoint slides used in this presentation are on file in the Corporate Secretary's Office and, by reference, made a part of these minutes.

Report on Current Events by the General Manager and Chief Executive Officer or Designees

Michael O'Connor, SRP Associate General Manager and Chief Legal Executive, reported on a variety of federal, state, and local topics of interest to the Committee.

Future Agenda Topics

Chair P. Rovey asked the Committee if there were any future agenda topics. None were requested.

There being no further business to come before the Water Committee, the meeting adjourned at 10:41 a.m.

Lora Hobaica
Assistant Corporate Secretary

Update to the Evaporation Study Related to Solar Over Canals

Bob Pane, Director, Water Engineering and Transmission

June16, 2026

Agenda

- Solar Over Canals Projects and Drivers
- SRP System Overview and Approach
- Evaporation Study

First Solar Over Canal Project

- 2012 - Narmada Canal, Gujarat, India
- Approximately 1 MW pilot project
- 750 meters of canal length
- Key drivers were land conservation, reduced evaporation, renewable energy deployment
- Secondary benefits were potential panel cooling, and reduced transmission losses
- Key challenge was higher capital cost, complex construction and maintenance

Gila River Indian Community

- Gila River Indian Reservation, Casa Blanca Canal
- 2,782-foot-long solar array over canal
- ~1.3 -1.6 MW of renewable energy with over 2,500 solar panels
- Funding nearly $6M from the Inflation Reduction Act and $6.7M in partnership with the Army Corp of Engineers
- Energy Production, Water Conservation, Environmental Protection

Project Nexus – Turlock Irrigation District

- Central Valley of California(San Joaquin Valley)
- State Grants ~ $20M
- Commissioned in 2025
- Demonstrate proof of concept of narrow and wide span canal coverage with solar panels
- Increase renewable power generation
- Reduce water evaporation in canals
- Experience water quality improvements
- Reduce vegetative growth in the canals

SRP Solar Over Canals Approach

- Initiated internal study in early 2022
- Established a multidiscipline technical team across 12 different departments
- Hired George Cairo Engineering to develop 15% engineering plans
- Awarded ASU funding for their research proposal to assist in site location and to measure evaporation in our canal system
- Applied for federal funding through the Inflation Reduction Act
- Presented to Water Committee twice providing progress updates and recommendations

Potential Benefits

- Multi-use of existing canal land
- Change in Evaporation
- Impacts to aquatic vegetation growth
- Renewable generation source
- Solar panel improved efficiency
- Extending lifespan of existing water infrastructure

Project Concerns

- Public safety
- Clearance for equipment
- Reduce maintenance efficiencies and increase costs
- Cost compared to Utility Scale Projects
- May require specialized equipment
- Increased shade may promote quagga mussel infestation

Safety

- SRP's canal system is open to the public and the canal banks are heavily used for recreation activities, adding overhead infrastructure increases foreseeable risk and liability
- Covering the canal could impede self rescue or emergency personnel rescue attempts
- Solar panels will be an attractive nuisance and pose additional public safety risks and increased vandalism
- Maintenance personnel will be exposed to additional hazards
- Public safety regarding proximity of electrical equipment and water
- Close proximity to homes can cause additional heat and reflective light impacts

Canal Incidents

- In 2025 there were 156 incidents reported to Security Operations Center (SOC), not all incidents get reported

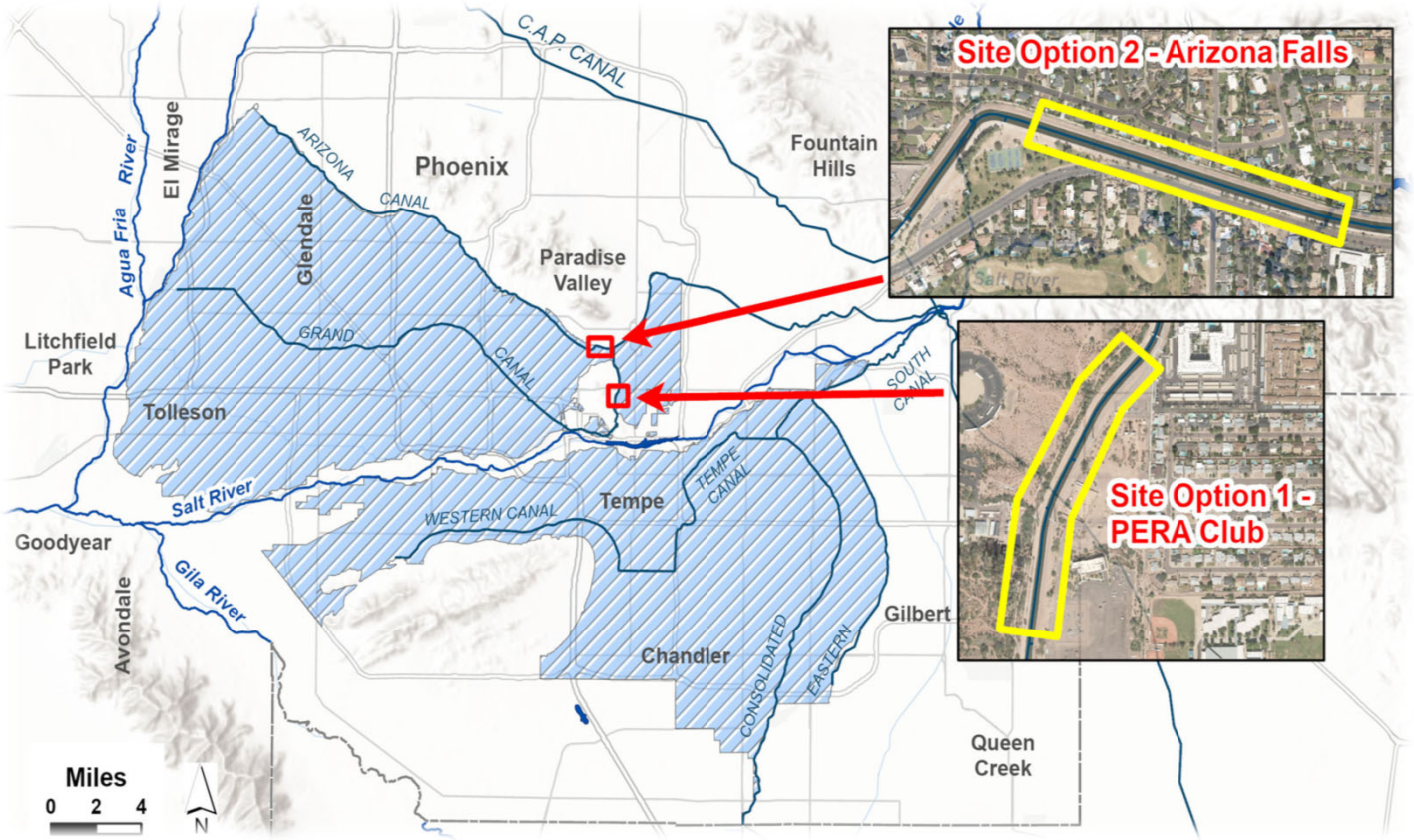
- Emergency Responses
  - 34 Vehicle incidents
  - 14 Rescues, medical emergencies, deceased people

- Vandalism
  - 17 Hazardous substances and illegal dumping
  - 18 Criminal damage and theft

- Trespass
  - 39 Occurrences of people in the canal
  - 12 Encampments

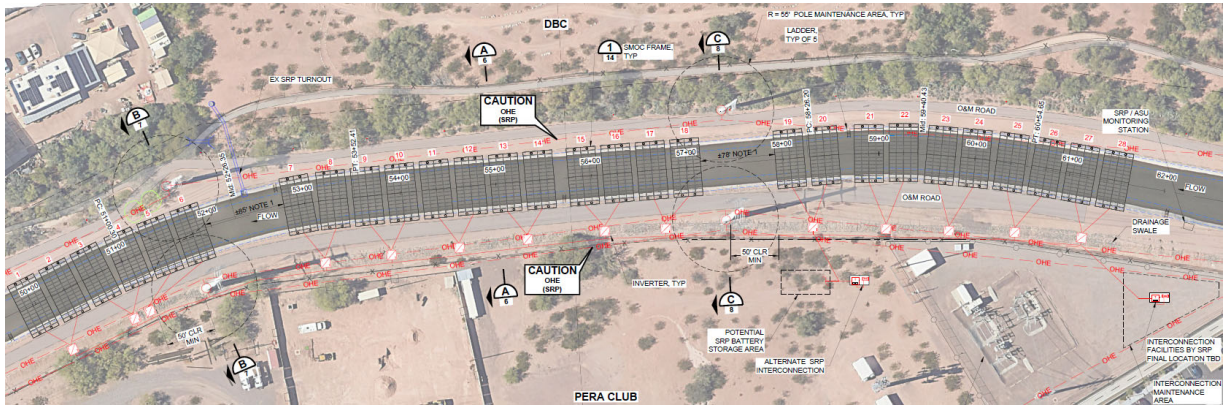
- Miscellaneous
  - 22 Lost and found property, threats, items in canals

Solar over Canals – Considered Pilot Project Locations

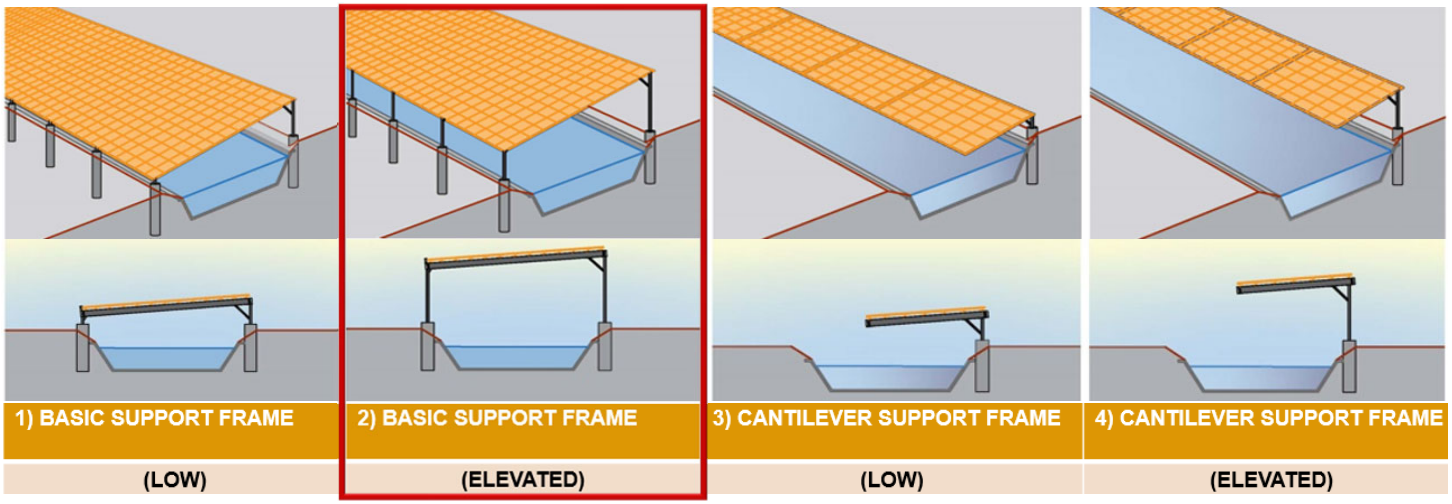


Proposed Pilot Project Location

- Grand Canal – Near PERA
- Create 15% Design
- 3 Design Alternatives – ~1000 LF
  - Full Span Basic Support (Elevated) → 1MW
  - Full Span Basic Support (Low) → 1MW
  - Cantilever (Elevated) → 400KW



Proposed Pilot Project Typographies



- Developed a 46-point site selection criteria to rank the best location and typography
- Representation from across the technical team in addition to ASU ranked different options
- Top ranked solution was the Elevated – Basic Support Frame

Pilot Project – Construction Estimates

Typography	Capacity	Estimated Cost	Cost per kW
Full Span Basic Support (Elevated)	1 MW	$5.7 Million	$5,700 per kW
Full Span Basic Support (Low)	1 MW	$5.0 Million	$5,000 per kW
Cantilever (Elevated 1,000’)	400 kW	$3.4 Million	$8,100 per kW
Cantilever (Elevated 2,600’)	1 MW	$6.7 Million	$6,600 per kW

Pilot Project Cost Comparison

Other Solar Projects	Capital Cost (2024)	SMOC – 1000 LF Full Span (Elevated) $5.7/watt or $5700/kW
Parking Lot Solar	$2500/kW $3000/kW (from Distributed Energy Program)	2.3X more than 1.9X more than
Residential Solar	$2680/kW $2770/kW $2899/kW (from Resource Planning, Acquisition, & Development)	2.1X more than 2.0X more than 1.9X more than
Commercial Solar	$1862/kW $1918/kW $2000/kW (from Resource Planning, Acquisition, & Development)	3X more than 2.9X more than 2.8X more than
Utility Scale Solar	$1840/kW (from Resource Planning, Acquisition, & Development)	3X more than

Levelized Cost Comparison (2024)

Fixed-tilt Solar Mounted Over Canal (SMOC) is considerably more expensive than fixed-tilt rooftop and utility scale single-axis-tracking on $/MWh basis

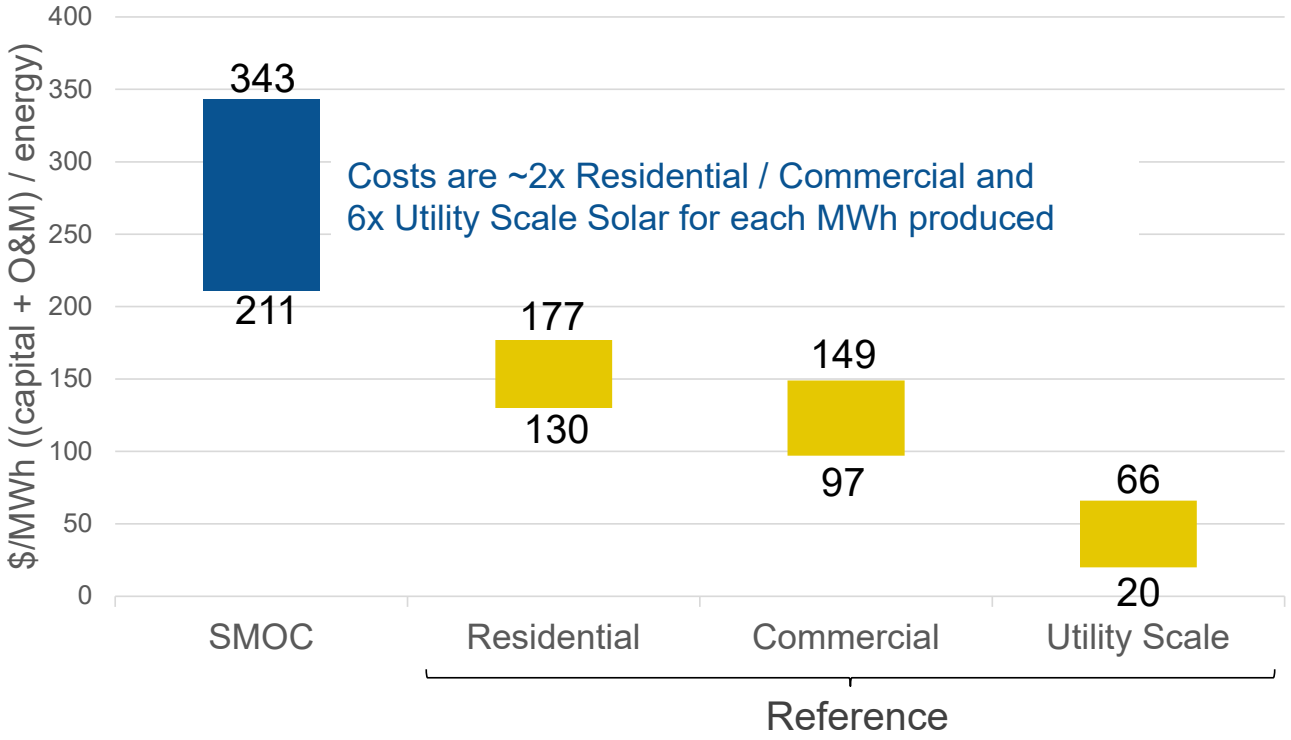


*Chart adapted from Power Committee Presentation, Solar and Storage RFI on 10/24/2024. Utility scale pricing based on all proposals received from the 2024 All-Source RFP and do not reflect selected project pricing. Residential and commercial costs are from the Distribution Connected Solar and Storage RFI conducted in summer of 2024.

Evaporation Study

- Assembled technical team from ASU with expertise in evaporation and solar panel technology
- Site Selection and Solar Panel Technology Assessment
- Open Canal Sensor Selection and Siting
  - Air and water temperature, atmospheric humidity, net radiation and wind speed
- Sensor Data Collection and Analysis
- Canal Water Sampling for Isotope Analysis
  - Evaporative losses based on isotopic enrichment of oxygen-18 and deuterium
- Summarize outcomes of solar panel technology selection, canal measurements, water sampling and isotope analysis, and estimates of canal evaporation for open site.

SRP/ASU Evaporation Study Methodology

- Evaporation Measurement Methodologies
  - Pan Evaporation
  - Penman-Brutsaert Equation
  - Water Isotope Enrichment
  - ECOSTRESS

Sensor Installation Examples

Cantilever

Canal Mounted

Bridge Mounted

Evaporation Findings

- 2025 SRP total water supply delivered 795,488 acre-feet
- 10-year average total water supply delivered 804,897 acre-feet
- 2025 lost and unaccounted for water was 36,351 acre-feet or 4.6% of total deliveries
  - seepage, evaporation, and unmeasured water
- 10-year average 28,940 are-feet, 3.6% of total deliveries
- 2025 Evaporation Measurements on canal system
  - Penman-Brutsaert Evaporation Calculation - 4,714 acre-feet of water lost to evaporation or 0.59% of 2025 water supply delivered, 13% of lost and unaccounted for water
  - ASU Evaporation Pan - 4,980 acre-feet of water lost to evaporation or 0.63% of 10-year average water supply delivered. 13.7% of lost and unaccounted for water

BOR - Water Loss Components Based on SRP 2025

(Total Water Supply Delivered 795,488 acre-feet, 36,351 Acre-Feet L&U)

Component	% Delivered	Volume (AF)
Evaporation (canal)	0.6–1.0%	4,700–8,000
Seepage (lined canal)	0.5–1.0%	4,000–8,000
Operational spills	1.0–5.0%	8,000–40,000
Measurement / accounting error	1.0–3.0%	8,000–24,000
Bank storage / wetting	0.5–2.0%	4,000–16,000
Vegetation / transpiration	0.2–1.0%	1,500–8,000
Structure leakage	0.2–1.0%	1,500–8,000
TOTAL SYSTEM LOSS	**~4–10%**	**32,000–80,000**

Foundational Canal Loss Paper, Lancaster, Dale M. Measurement of Seepage Losses from Irrigation Canals. Bureau of Reclamation, Design and Construction Division, Denver, Colorado, 1952. [usbr.gov]

BOR Water Measurement Manual, U.S. Bureau of Reclamation. Water Measurement Manual. 3rd ed., U.S. Department of the Interior, Bureau of Reclamation, Washington, DC, 1997 (revised reprint 2001)

BOR Modern Seepage / Loss Research, Lindenbach, Evan J., Kang, Jong Beom, Rittgers, Justin B., and Naranjo, Ramon C. Select Techniques for Detecting and Quantifying Seepage from Unlined Canals. Bureau of Reclamation, Research and Development Office, Science and Technology Program, Final Report No. ST-2020-19144-01, September 30, 2020.

Water Committee Recommendation – April 22, 2025

- Based on cost estimates and project concerns, Staff recommended, and the Water Committee agreed, to not proceed with further design efforts or a potential pilot project
- It was agreed to complete the SRP/ASU Evaporation Study
- Work has continued on the Evaporation Study and we are gathering useful, and repeatable data, regarding evaporation rates in our canal system
- According to our ASU Research Team this is one of the most scientific evaporation analysis with real world data performed on a canal system

Next Steps

- Continue to collect and analyze evaporation data
- Evaluate potential to use ECOSTRESS to measure evaporation rates
- Monitor progress of others performing similar analysis
- Publish findings

thank you!

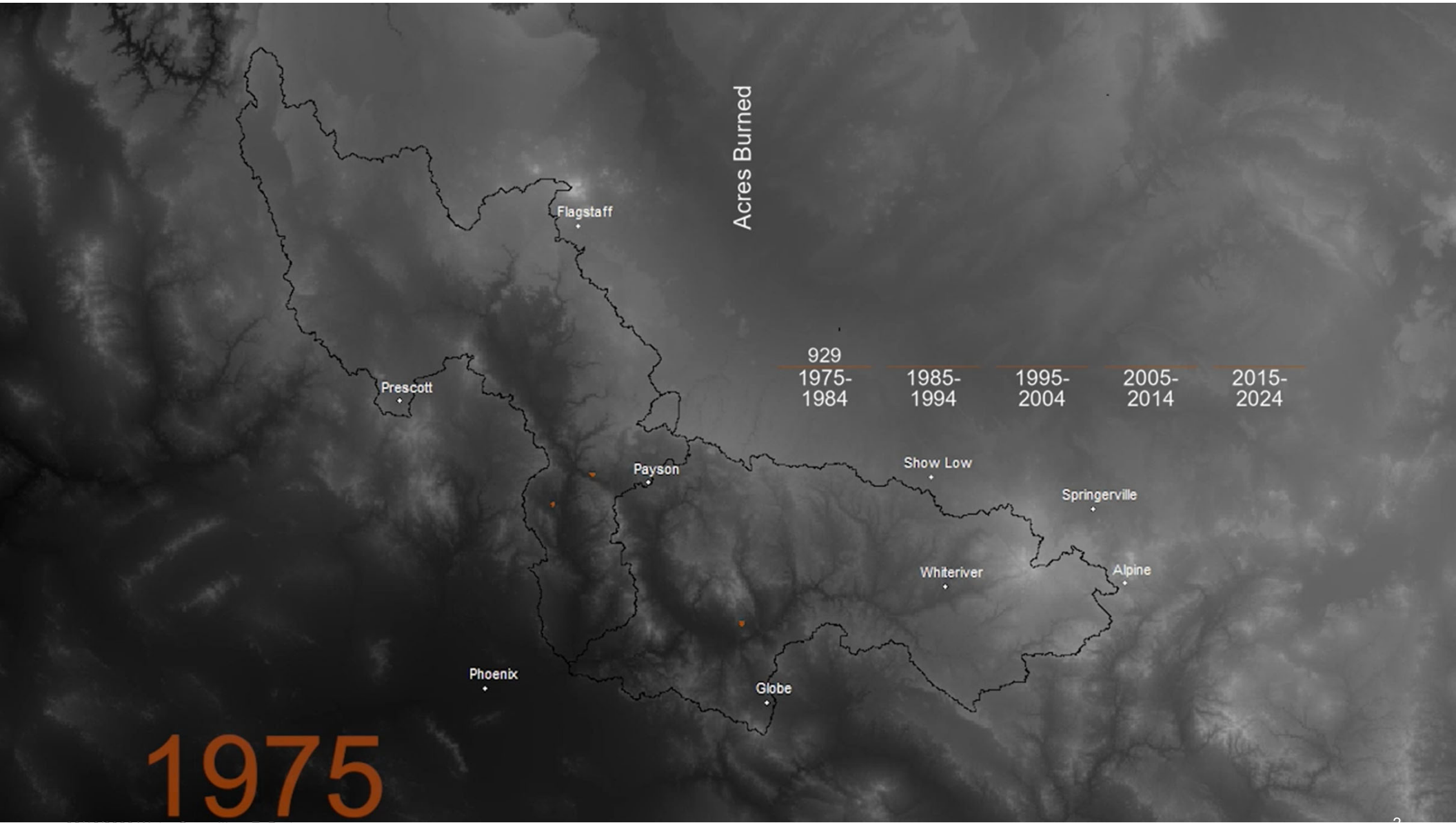
SRP Biochar Initiative

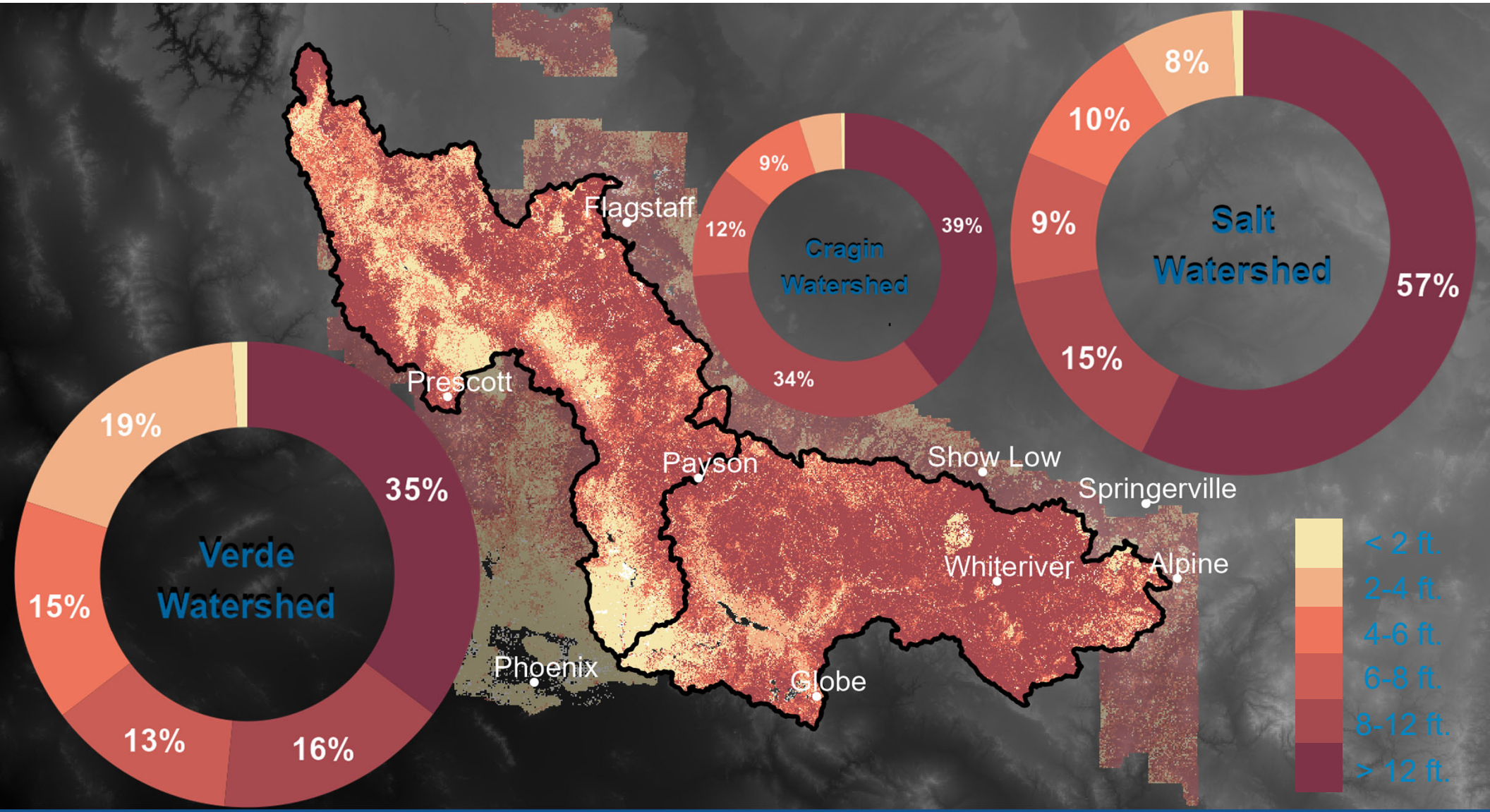
Water Committee

June 16, 2026

Elvy Barton, Sr. Manager

Water and Forest Sustainability


Acres Burned
929
1975-1984
1985-1994
1995-2004
2005-2014
2015-2024
Flagstaff
Prescott
Payson
Show Low
Springerville
Whiteriver
Alpine
Phoenix
Globe
1975



Consequences of high-intensity fire


Woodbury Fire, 2019

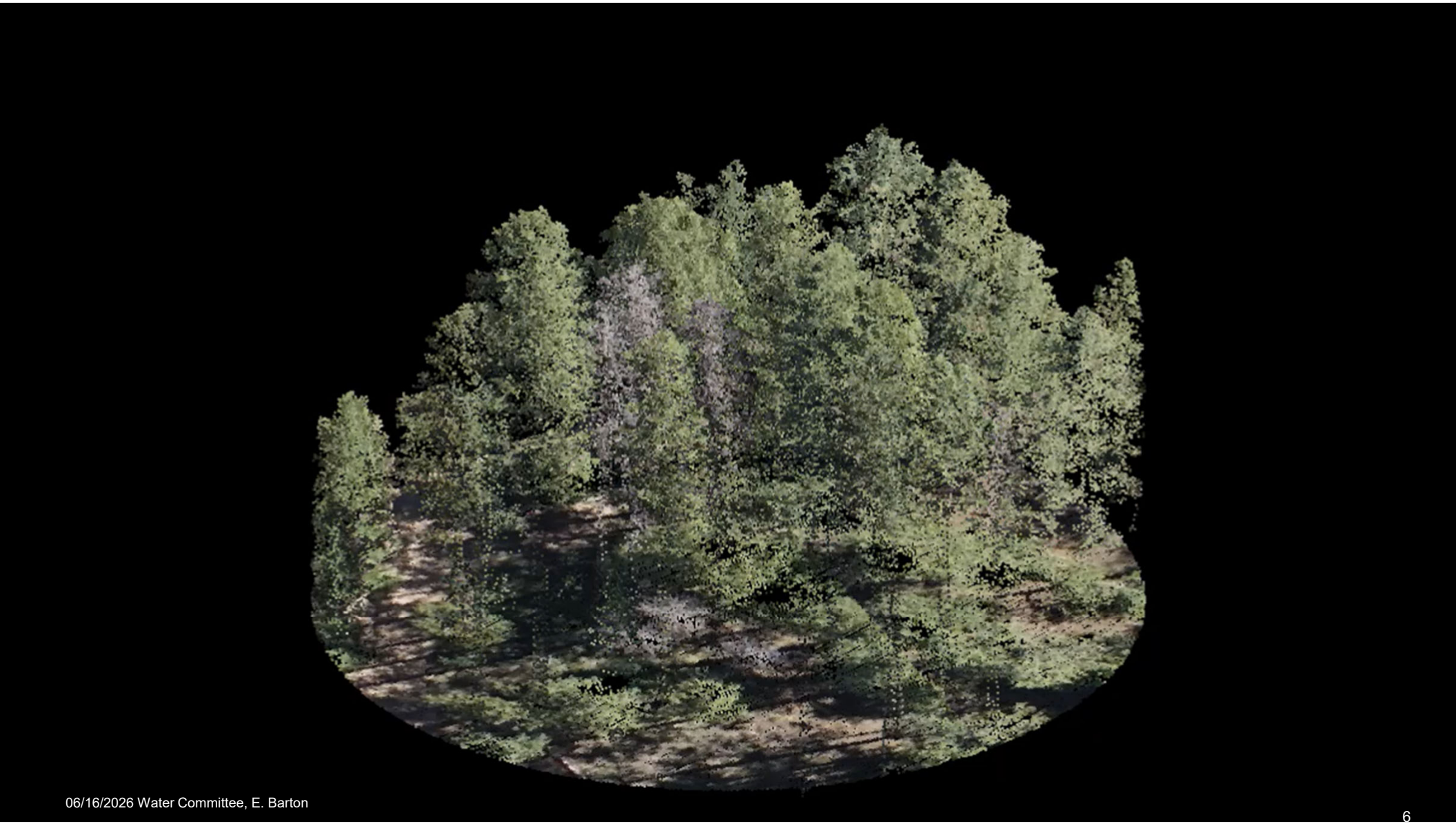
Sunflower Fire, 2012


Camp Fire, 2018


Shultz Fire, 2010

SRP's Forest Health Goal

Increase SRP’s leadership role in forest restoration treatments through partnerships, influence, education and support for industry to thin **800,000** acres total by 2035



SRP Biochar Initiative

Biochar

- Benefits of Biochar
  - Cost efficient biomass utilization mechanism
  - Environmental co-benefits
  - Scalable
  - Lower capital cost
  - Multiple end uses
- Challenges of Biochar
  - Little to no biochar industry in region
  - Biomass supply chain
  - End user market
  - Large-scale application
  - Storage

Source: Liu C, et al. Biochar-Assisted Agriculture: From Healthy Soil to Healthy Plants. *Plants*. 2025; 14(21):3273.

Biochar without fertilizer compared with plain soil.

Source: Climate Solutions Advancement Network

SRP Biochar Initiative

SRP Biochar RFP

- Goal: to attract and grow biochar industry
- Outcome: to issue 1 or more, 10-year biochar contracts
- Biochar industry benefits of biochar contract:
  - Set amounts of purchased biochar
  - SRP guarantees off-take
  - Helps create end user market
  - Allows for capital investment
- SRP benefits of biochar contract:
  - Utilizes biomass from forest thinning projects
  - Provides different locations and capacity
  - SRP owns environmental benefits

SRP Biochar Initial Adopters Program

- Goal: to increase the biochar community of practice

Biochar Next Steps

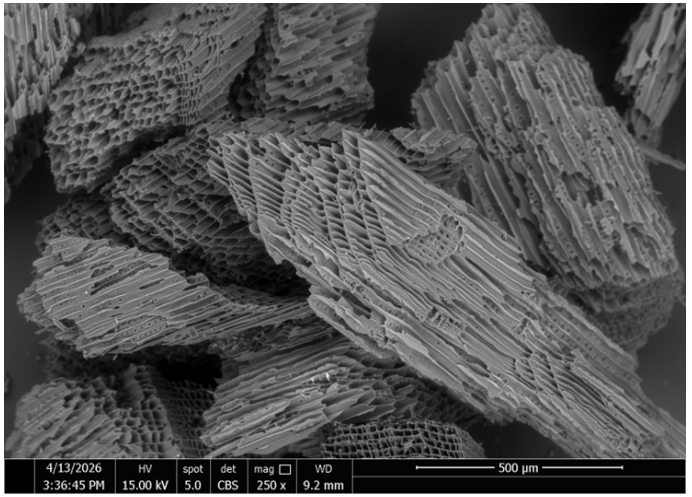
Issue one or more biochar contracts

Announce Biochar Initial Adopters Program

- Enter into agreements with Initial Adopters
- Create and monitor pre-application conditions

Create biochar carbon credits offering for SRP customers

Continue biochar research with ASU



thank you!