2025 ARCA ANNUAL MEETING
ARKANSAS RIVER BASIN REPORT

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US Army Corps of Engineers ®

TOPICS

- Compact Year 2025 Water Management
- Arkansas Basin Water Quality Monitoring
- Operations and Maintenance
- Civil Works Projects
- Emergency Management Coordination

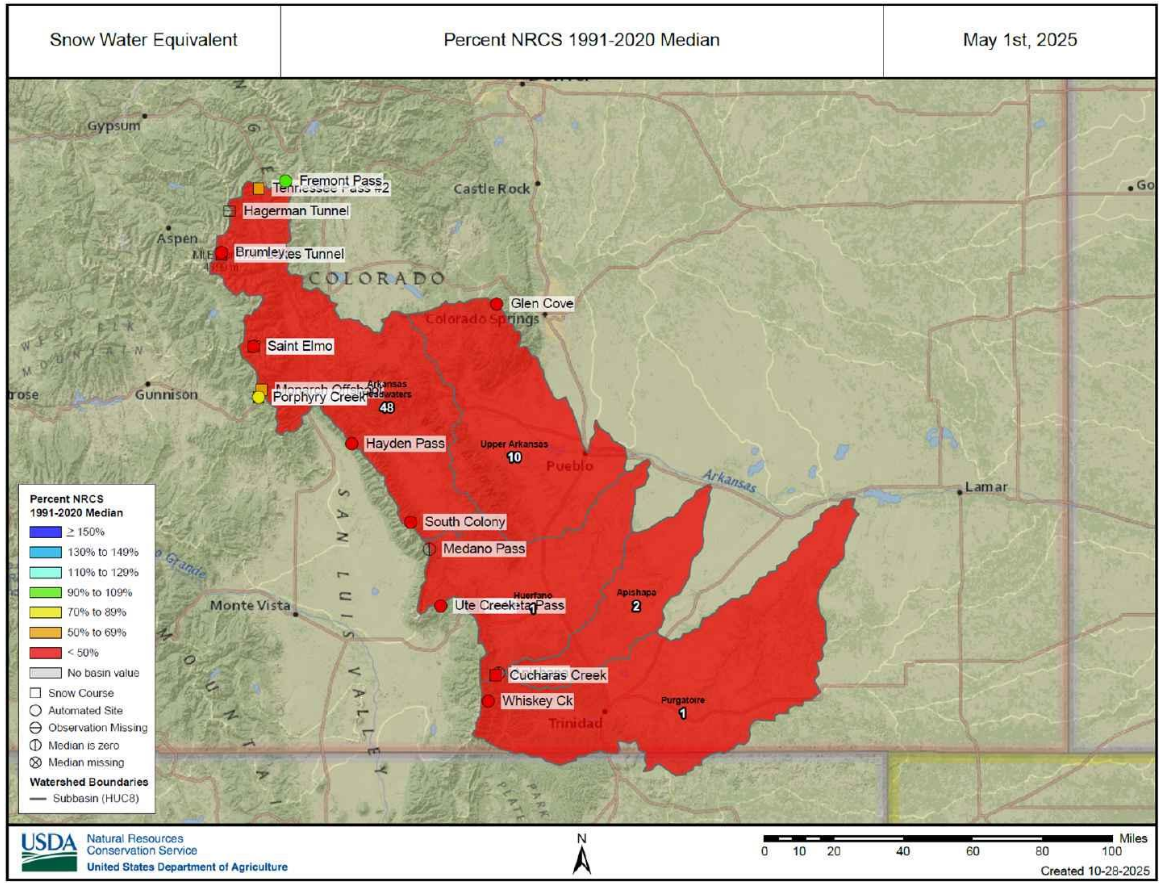
COMPACT YEAR 2025 WATER MANAGEMENT
Snowpack and Runoff

May 1st NRCS Snowpack Analysis		
	# of Sites	% of Median
Cucharas & Huerfano	5	0.6
Upper Arkansas Headwaters	9	58.6
Lower Arkansas Headwaters	3	14.5
Purgatoire	3	0.9
Apishapa	2	1.7

Arkansas River Basin May 1st Most Probable Snowmelt Runoff Forecast

(May 1 – Sep 30 50% Exceedance)

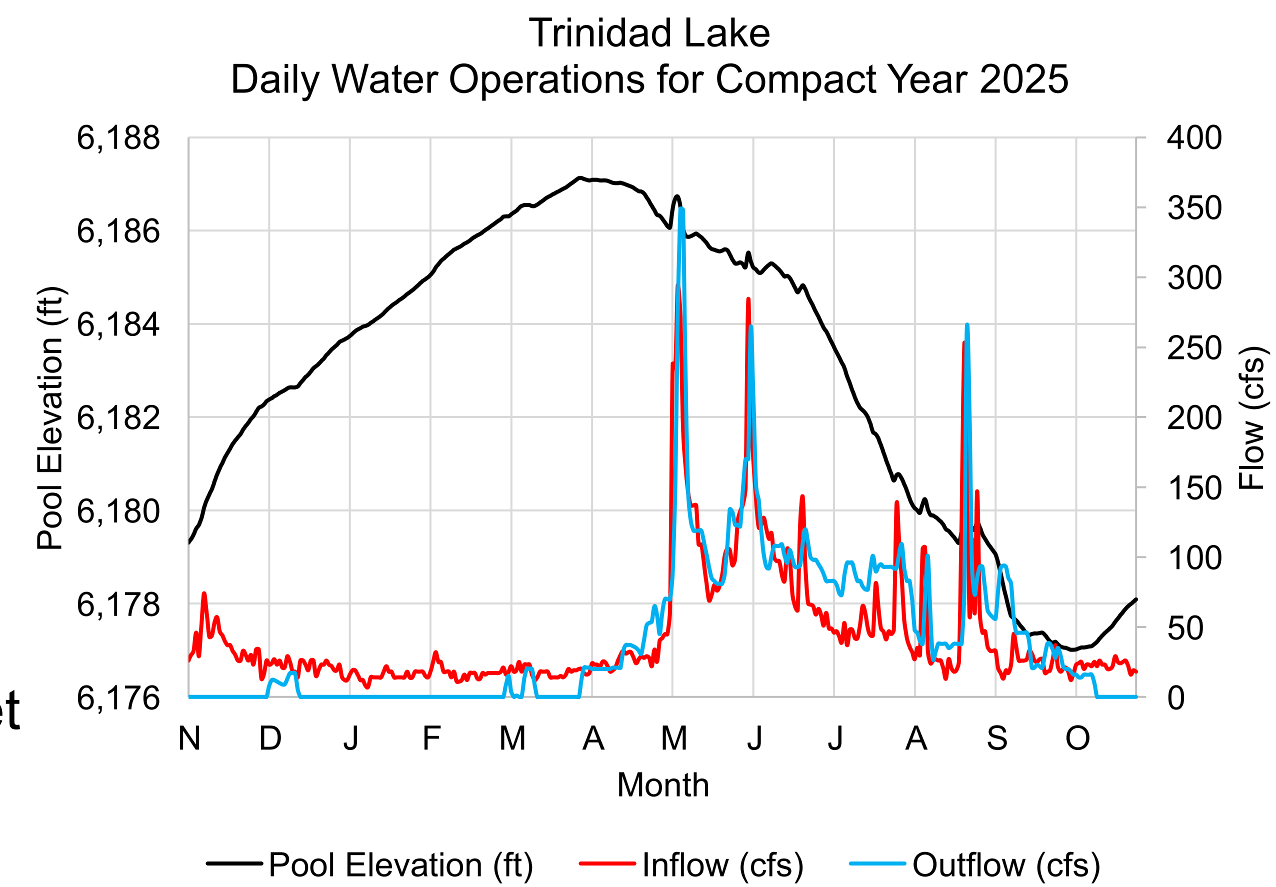
Measurement Location	Snowmelt Runoff (x 1,000 Acre-Feet)		Percent of Median/Normal	
	May Forecast	Computed Inflow	May Forecast	Computed Inflow
Pueblo Dam and Reservoir (Normal: 360 kaf)	285	159.2	79%	44%
Trinidad Dam and Lake (Normal: 35 kaf)	17.7	16.2	51%	46%
John Martin Dam and Reservoir (Normal: 172 kaf)	216	55.3	126%	32%
Arkansas River at Las Animas (Normal: 148 kaf)	201	-	136%	-
Purgatoire River at Las Animas (Normal: 24 kaf)	15	-	60%	-



COMPACT YEAR 2025 WATER MANAGEMENT
Trinidad Dam and Lake

Compact Year 2025 Water Management

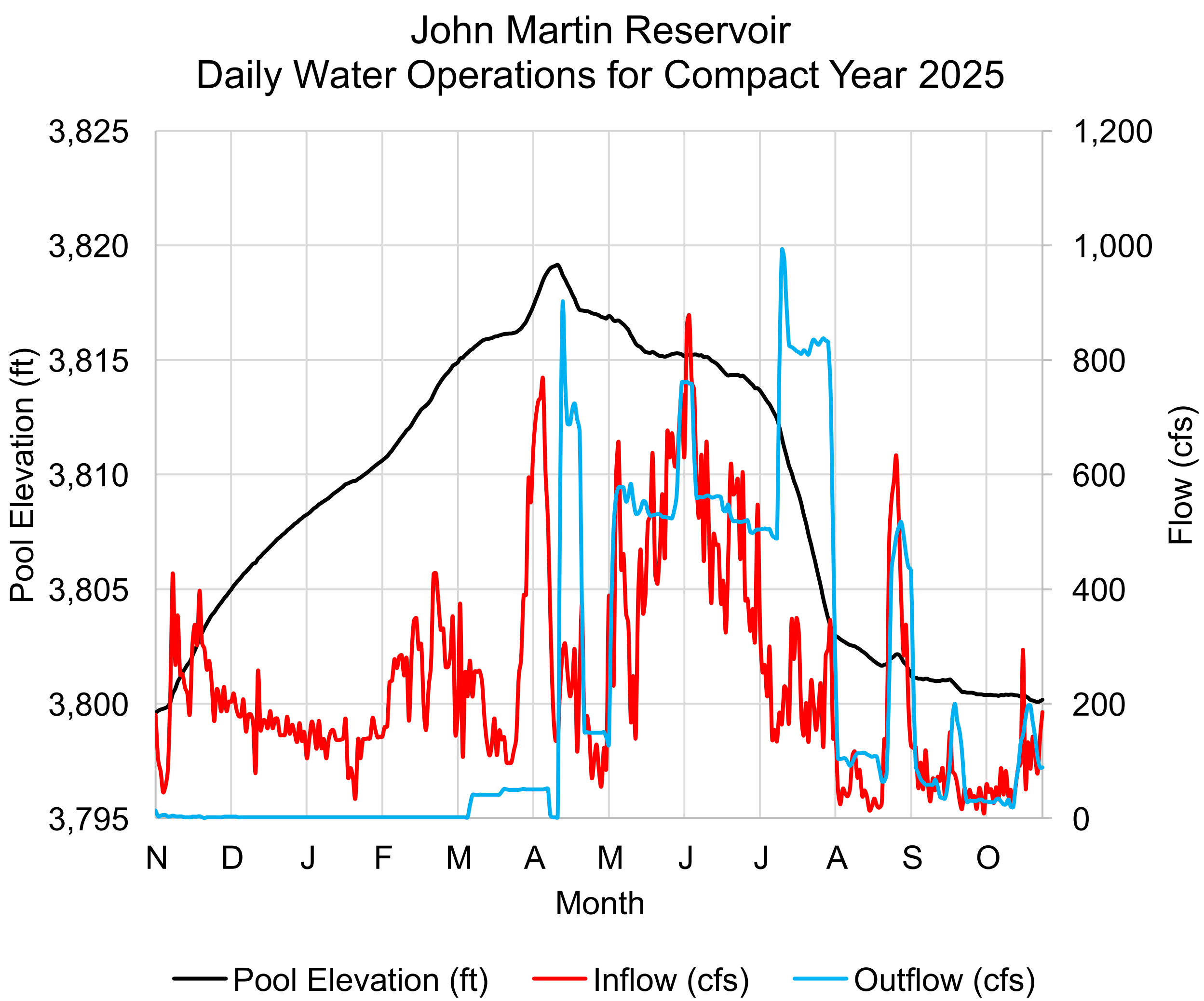
- Total Computed inflow: 31,487 acre-feet
- Total Release: 30,823 acre-feet
- Maximum storage: 23,245 acre-feet
- Minimum storage: 16,285 acre-feet
- End of Compact Year storage: 16,978 acre-feet
- No Flood Risk Management Operations
- No evidence of zebra or quagga mussels



COMPACT YEAR 2025 WATER MANAGEMENT
John Martin Dam and Reservoir

Compact Year 2025 Water Management

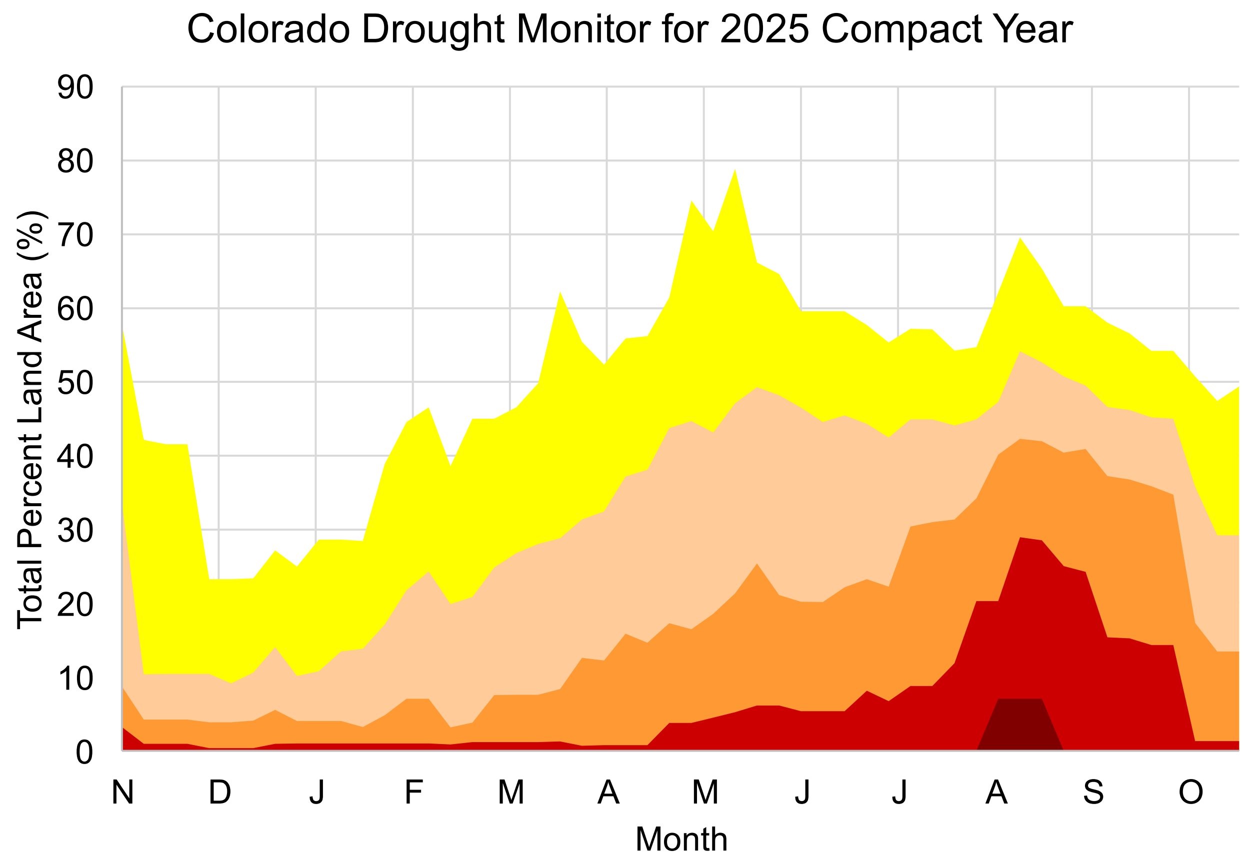
- Total Computed inflow: 174,277 ac-ft
- Total Release: 154,844 ac-ft
- Maximum storage: 82,162 acre-feet
- Minimum storage: 16,277 acre-feet
- End of Compact Year storage: 17,543 acre-feet
- No Flood Risk Management Operations
- No evidence of zebra or quagga mussels



COMPACT YEAR 2025 WATER MANAGEMENT
Drought

No high flows occurred that affected John Martin Reservoir or Trinidad Lake Water Management. Rather, a drought occurred, peaking in May.

	Abnormally Dry
	Moderate Drought
	Severe Drought
	Extreme Drought
	Exceptional Drought



ARKANSAS WATER QUALITY MONITORING

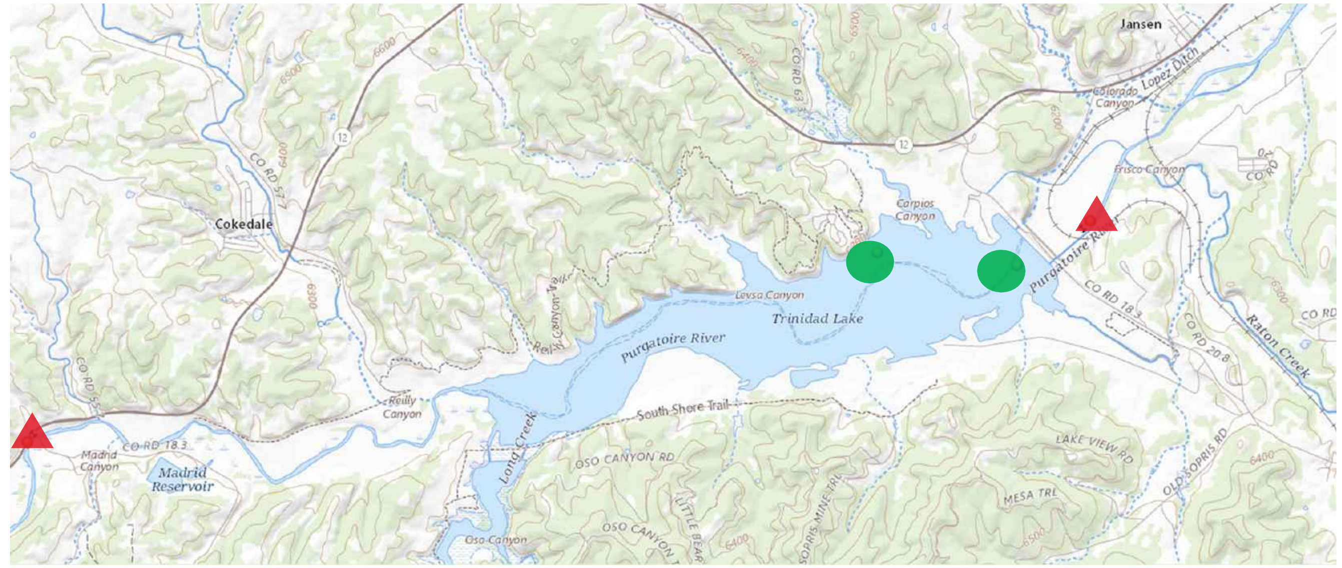
Reservoir Stations (2012 – Current)

Monthly during ice-free period

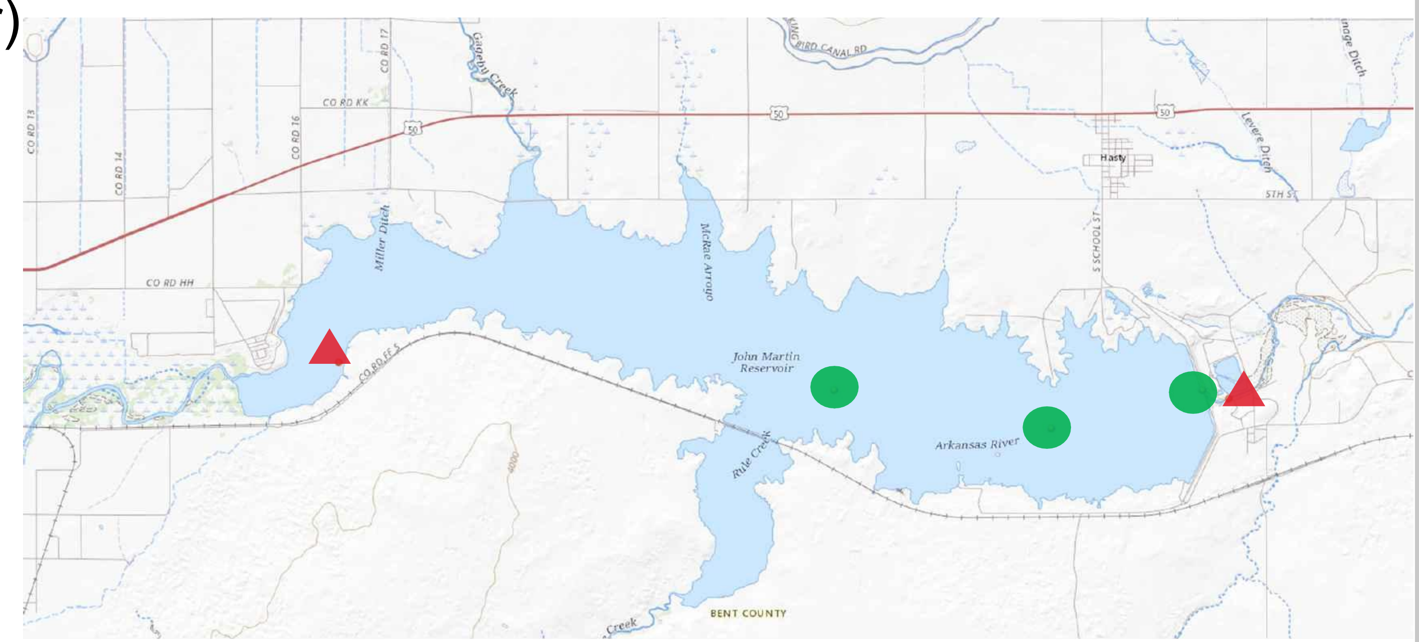
- Vertical profiles
  - Temperature
  - Dissolved oxygen
- Surface measurements
  - Turbidity
  - pH
  - Specific conductance
- Secchi depth
- Zebra and quagga mussel (June-October)

Riverine Stations (2020 – 2025)

- 15-minute interval
  - Water Temperature
  - Dissolved oxygen
  - Turbidity
  - pH
  - Specific conductance
- Monthly anions/cations and total suspended sediment



Trinidad Dam and Lake

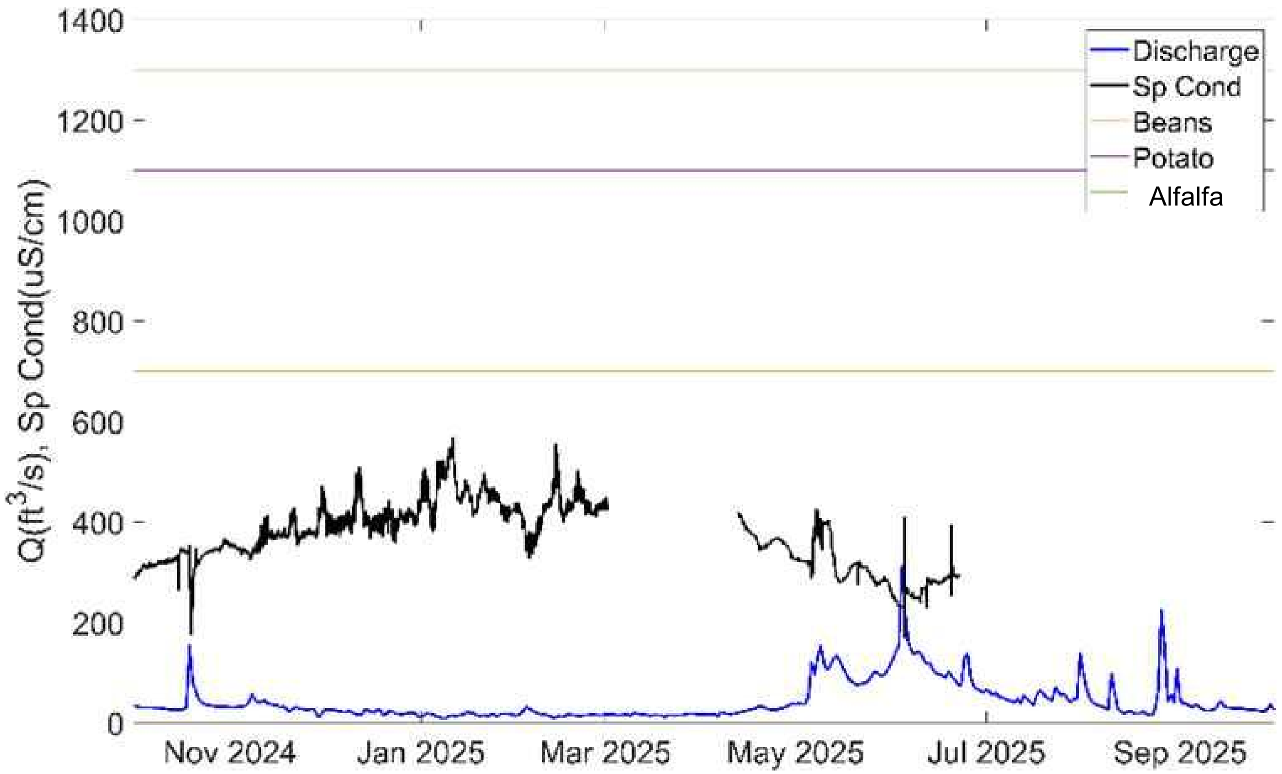


John Martin Dam and Reservoir

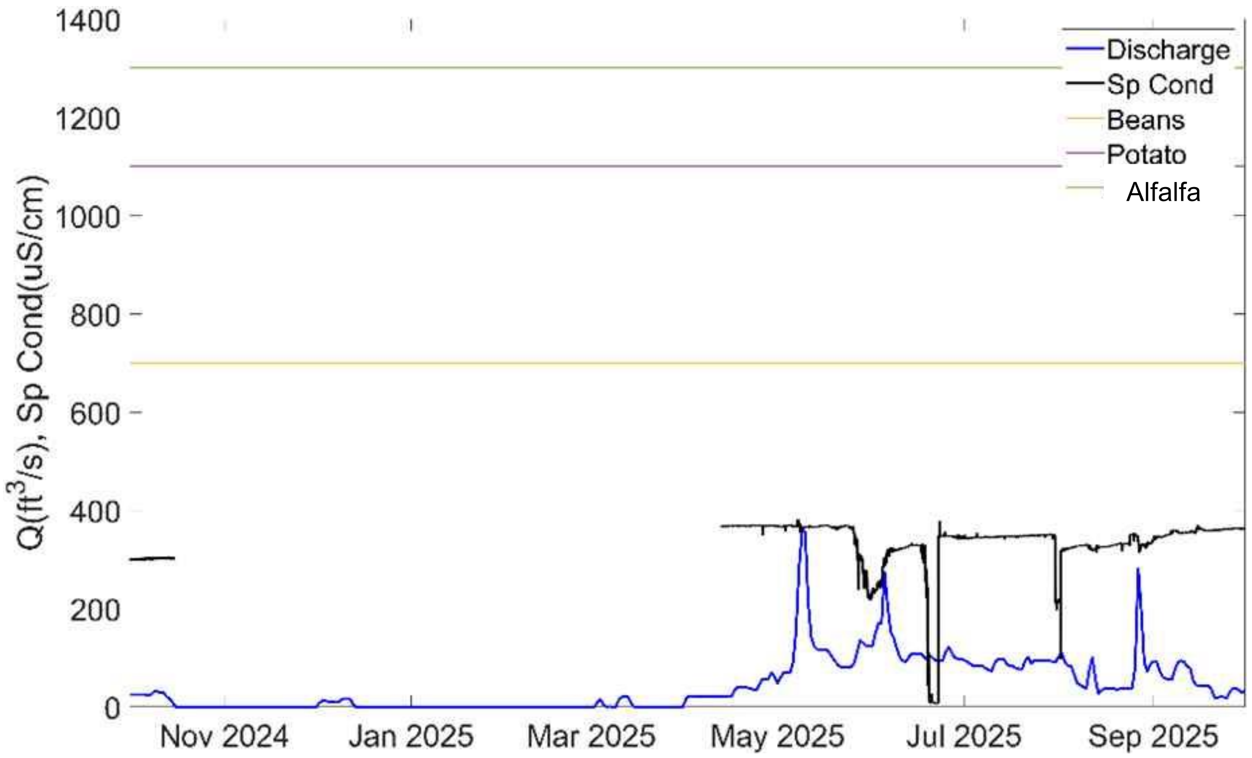
ARKANSAS WATER QUALITY MONITORING DATA

2025 Discharge, Specific Conductance, and Crop thresholds

Upstream of Trinidad Lake



Downstream of Trinidad Lake



ARKANSAS WATER QUALITY MONITORING DATA

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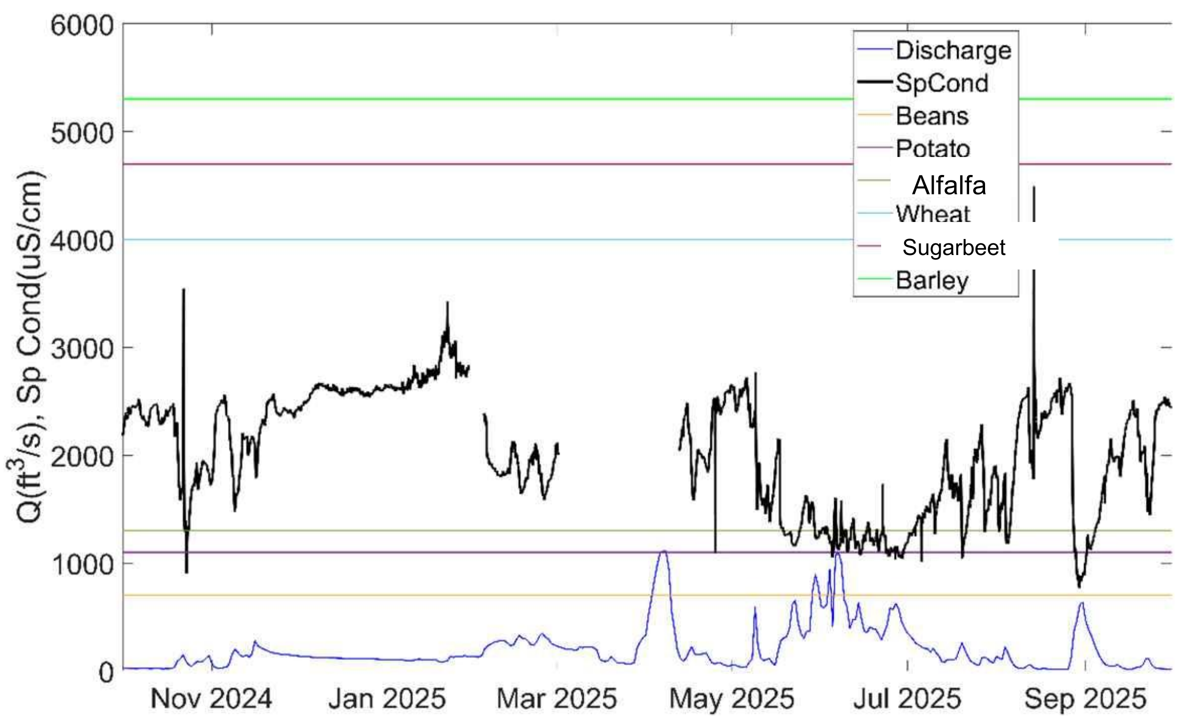
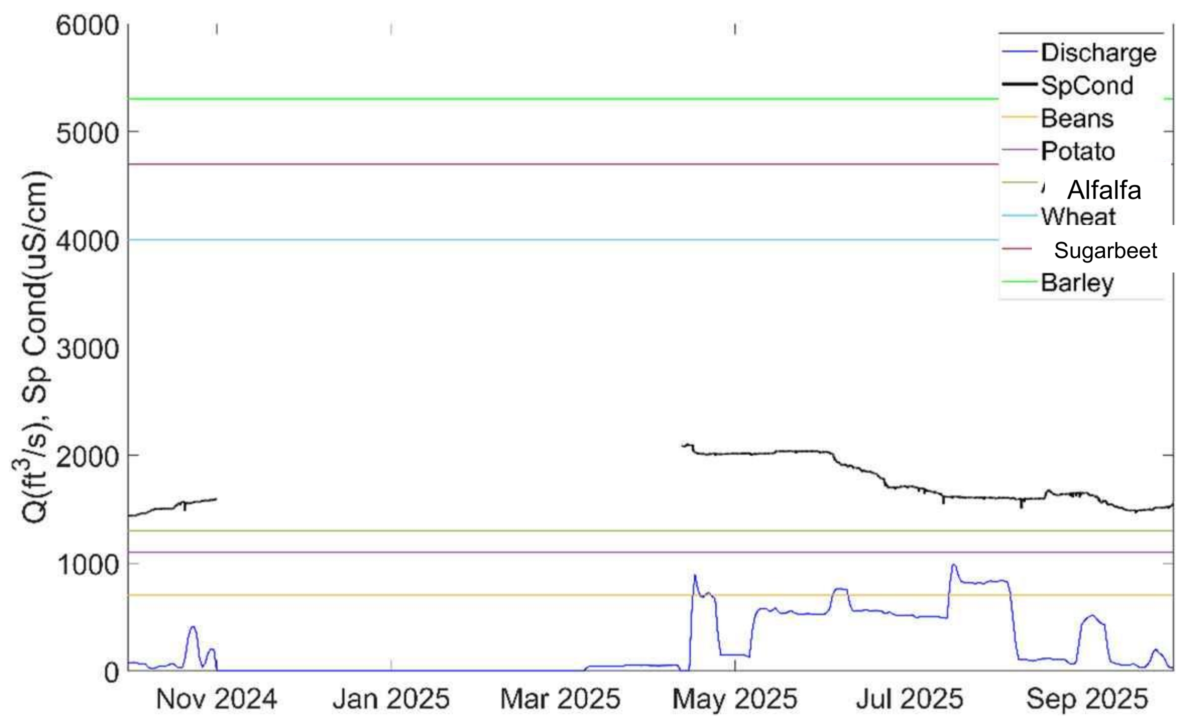
Upstream of John Martin Reservoir



Downstream of John Martin Reservoir



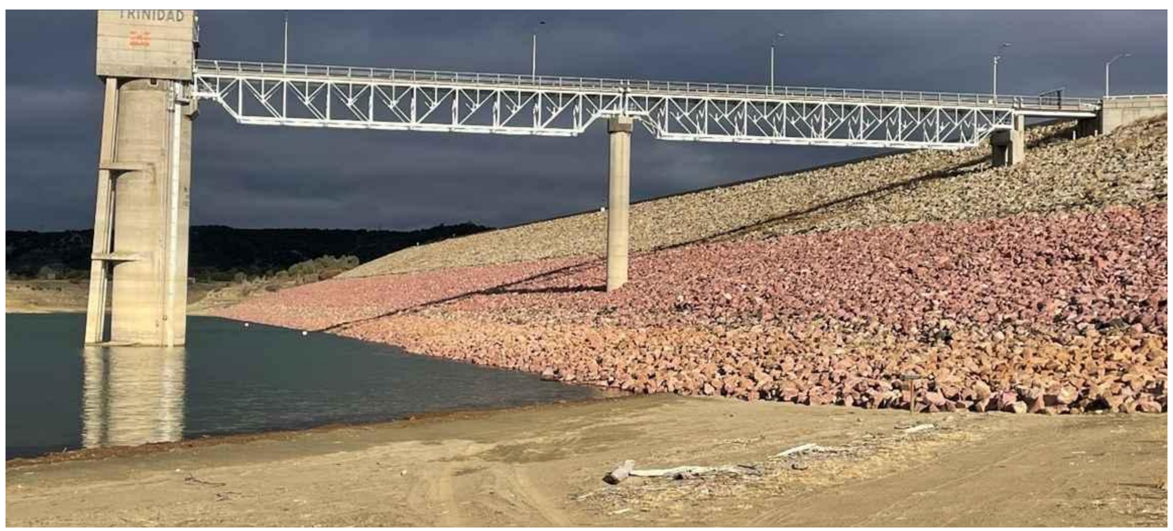
OPERATIONS AND MAINTENANCE

John Martin Dam and Reservoir

- Gate stem seal replacement.
- Tainter Gate Motor Work.
- Tainter Gate Cover Panels and Operation Arms.
- Boundary Survey in progress.
- WCM nearly finalized.

Trinidad Dam and Lake

- Granite riprap placement completed Nov 2024.
- EAP exercised.
- Bridge Inspection completed.
- Boundary Survey published.
- Master Plan finalized and signed.
- Contracts awarded
  - Repairs to the control tower crane load brake awarded.
  - New security system
  - Modernize the weather station
- WCM in progress.



CIVIL WORKS
SECTION 206- ECOSYSTEM RESTORATION

Spring Creek, Colorado

Sponsor: City of Colorado Springs

- Aquatic Ecosystem Restoration along Spring Creek in Colorado Springs
- Will improve stream and wetland function in the former bird sanctuary
- Study scheduled to complete in May 2026 to be followed by design and implementation

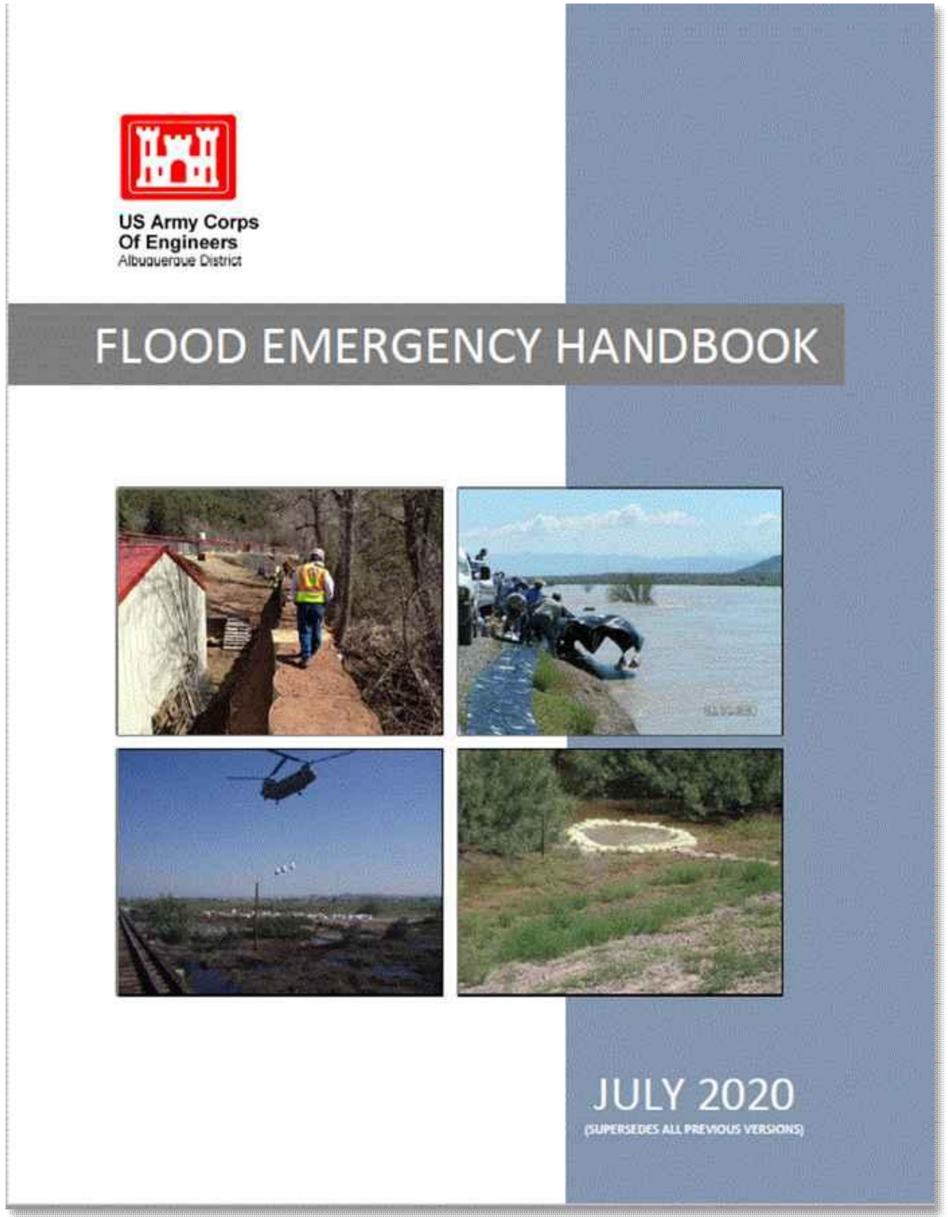
Project site location in Colorado Springs, CO. Former wetland outlined in light blue.

EMERGENCY MANAGEMENT COORDINATION

Public Law 84-99 authorized USACE to assist state and local governments before, during, and after flood events.

Assistance can be obtained by contacting:

Albuquerque District, U.S. Army Corps of Engineers, Emergency Management Branch, Operations Office
cespa-eoc@usace.army.mil
505-342-3686



QUESTIONS