



## Agenda

**Regular Meeting of the  
Buckman Direct Diversion  
Board  
October 1, 2026 at 4:00 PM  
Council Chambers  
City Hall  
200 Lincoln Avenue**

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### **Procedures for Buckman Direct Diversion Board Meeting**

The agenda and packet for the BDD meeting will be posted  
at <https://santafe.primegov.com/public/portal>

**Join on Zoom:** <https://santafenm-gov.zoom.us/j/87093874170>

1. Call to Order
2. Roll Call
3. Approval of Agenda
4. Approval of Consent Agenda
5. Approval of Minutes
  - a. Request for Approval of the September 3, 2026, Buckman Direct Diversion Board Meeting Minutes.
6. Matters from the Public
7. Presentations and Informational Items
  - a. Monthly Update on BDD Operations. (Matt Sandoval, BDD Operations Superintendent, [mgsandoval@santafenm.gov](mailto:mgsandoval@santafenm.gov), 505-955-4501).
  - b. Report from the BDD Facilities Manager. (Bradley Prada, BDD Facilities Manager, [bxprada@santafenm.gov](mailto:bxprada@santafenm.gov), 505-955-4507)
  - c. Presentation on the San Juan Chama Project Contractors Association (SJCPCA) 2026 fieldtrip and workshop (Kyle Harwood, BDDB Counsel, [kyle@harwoodpierpont.com](mailto:kyle@harwoodpierpont.com))

8. Action Items: Consent Agenda

- a. Request for Approval to Re-authorize Unexpended Funds in the Major Repair and Replacement Fund in the Total Amount of \$xxx,xxx.xx from FY2026 to FY2027. (Kurt Traverse, BDD Accounting Support; [kftraverse@santafenm.gov](mailto:kftraverse@santafenm.gov), 803-207-4396; Bradley Prada, BDD Facilities Manager, [bxprada@santafenm.gov](mailto:bxprada@santafenm.gov), 505-955-4501)
  - i. Request for Board Approval of a Budget Amendment Resolution (BAR) to Re-Authorize the Unexpended Funds.

9. Executive Session

- a. Discussion of the Contents of Competitive Sealed Proposals Solicited Pursuant to the Procurement Code for RFP #FY26-TRFQP-A&E-094, Professional Engineering Services for the Buckman Direct Diversion Facility, During the Contract Negotiation Process as Allowed by Section 10-15-1 (H)(6) NMSA 1978. (Nancy R. Long, BDD Legal Counsel, [nancy@longkomer.com](mailto:nancy@longkomer.com), 505-982-8405)

10. Action Items: Discussion Agenda

11. Matters from the Board

12. Next Meeting:

- a. Thursday, November 5, 2026

13. Adjourn

Persons with disabilities in need of accommodations, contact the City Clerk's office at 955-6521, five (5) working days prior to meeting date.

**MINUTES OF THE  
CITY OF SANTA FE & SANTA FE COUNTY  
BUCKMAN DIRECT DIVERSION BOARD MEETING**

**September 3, 2026**

1. **Call to Order:** This meeting of the City of Santa Fe & Santa Fe County Buckman Direct Diversion Board meeting was called to order by Councilor Jamie Cassutt, BDD Board Chair at approximately 4:00 p.m. in the Council Chambers, City Hall, 200 Lincoln Avenue, Santa Fe, New Mexico. This meeting was conducted as a hybrid with participation in person and on line.

2. **Roll Call:** Roll was called and a quorum was present as shown:

**BDD Board Members Present:**

Councilor Jamie Cassutt, Chair  
Commissioner Justin Greene, Chair  
Councilor Patricia Feghali  
Commissioner Hank Hughes  
R. Schmidt-Petersen, Citizen Member  
T. Egelhoff, The Club at Las Campanas, [non-voting member – appearing by Zoom]

**Member(s) Excused:**

None

**BDD Board Alternate(s) Present:**

Peter Ives, Citizen Member – Alternate

**Others Present:**

Bradley Prada Facilities Manager  
Nancy Long, BDD Board Consulting Attorney  
Kyle Harwood, BDD Board Consulting Attorney  
Bernardine Padilla, BDD Public Relations Coordinator  
Matt Sandoval, BDD Operations Superintendent  
Chris Encinias, Acting Superintendent of Maintenance  
Alexis Garcia, BDD Administrative Manager  
David Malczewski, BDD Administrative Assistant  
Jesse Roach, City of Santa Fe, Water Director  
Larry “Boots” Pierce, GZA  
Wayne Lorenz, Wright Water Engineers

[Chair Cassutt read the agenda captions throughout the meeting.]

**3. Approval of Agenda**

Chair Cassutt requested that item #7, Executive Session, occur following item #10, Adjournment. BDD Board Counsel Nancy Long confirmed that adjourning the meeting and going into Executive Session is allowed under the Open Meetings Act. She adding that at the next meeting, she will provide a statement, for the record, regarding the Executive Session.

Commissioner Greene moved to approve as amended. Commissioner Hughes seconded and the motion passed by unanimous [5-0] voice vote.

**4. Approval of Minutes**

**a. Approval of the August 5, 2026 Buckman Direct Diversion Board Meeting Minutes**

Councilor Feghali moved to approve the minutes as presented. Commissioner Greene seconded. The motion passed by unanimous [5-0] voice vote.

**5. Matters from the Public – None were presented.**

**6. Presentations and Informational Items**

**a. Monthly Update on BDD Operations**

MATT SANDOVAL (BDD Operations Superintendent): Thank you, Madam Chair, members of the Board. I'll be presented the BDD operations report for the month of August 2026.

BDD diversions and deliveries have averaged a million gallons per day as follows: raw water diversions, 6.16 million gallons per day; raw water delivery to Las Campanas at Booster Station 2A, .75 million gallons per day; drinking water deliveries to Booster Stations 4A and 5A, 6 million gallons per day.

BDD contributed 41 percent of the drinking water to the City and County for August 2026. And I will stand for questions.

CHAIR CASSUTT: Thank you so much. Any questions from the Board?  
Commissioner Greene.

COMMISSIONER GREENE: Thanks, Matt. Do you attribute these higher volumes, because it didn't come down from significantly from Canyon Road? I mean, we've taken a lot more water across the board. The Buckman wells were rested. That's the main thing we take away from this?

MR. SANDOVAL: I'll defer to Mr. Roach.

JESSE ROACH (City Water Director): Members of the board, Commissioner Greene, I don't have these numbers directly in front of me, but I will say that as you know, we try to use surface water preferentially and reserve the wells for when we need them. And we have been essentially using up almost all the water at the Santa Fe River and leaning on BDD to keep producing as long as the turbidity doesn't get in the way. And it's been an incredible effort by the team for us to go through one of the driest summers on the Rio Grande, probably the

driest summer in terms of the, the flows that we've seen from June, July, August, and still produce at the level that BDD has produced to allow us to continue to rest the wells.

Very recently, we've seen some higher turbidity, and we've had to go to the wells because we don't have much in storage at Canyon Road. But I would say, an amazing job by the BDD team this summer. Thank you.

COMMISSIONER GREENE: And so it looks – I can't quite do the math of what general complete portfolio between City and County use is beyond BDD, but just since we're looking at the whole portfolio; are we using a lot more water because everybody's got to whatever water their basil and their flowers a little bit more?

MR. ROACH: We have looked a little bit at demand, and the demand overall in terms of the amount that's going through meters this year is up compared to the last couple of years. It's still down compared to the year where we were having trouble and needing to put potable water on golf courses, but it is up compared to the last couple of years.

And so it's some combination of growth and weather, and we're trying to tease out the pieces to understand how much of this is new demand and how much of this is weather-related demand because it's been so dry.

COMMISSIONER GREENE: So I think it's kind of related, and I'm going to bring it up here just because somebody brought it up to me as a statistical anomaly, and you may be able to answer it, somebody here will. So it doesn't have to be answered right now, but somebody who knows the answer. We are always credited with doing a sharp demand drop back in the '90s or whenever that was where we asked everybody to reduce their use. And somebody brought up to me that in their statistics that it was because we divided City and County users at the time. So it wasn't nearly as dramatic, and we shouldn't pat ourselves on the back quite as much. But, I want to make sure that I get the information straight on that.

MR. ROACH: Madam Chair, Commissioner Greene, there was a reduction in total population served at times as we split that apart. But we do calculate a GPCD metric, which should be independent of that because it's the total amount of water produced divided by the population served. And we have seen steady declines in the GPCD as well. There were some big achievements, and they had more to do with other true conservation efforts and then overall production by the City, reported by the City, was assisted, shall we say, to some degree by splitting off some of the customers.

But I think whoever's making that statement should look at the GPCD trend because that sort of removes that factor.

COMMISSIONER GREENE: Great. Thank you for pointing that.

CHAIR CASSUTT: Thanks so much. Member Schmidt-Petersen.

MEMBER SCHMIDT-PETERSEN: Thank you. Actually probably for Jesse or Matt, but I think – the first instance I think more Jesse is, I believe Indian Market is usually like the highest demand day for the City of Santa Fe or somewhere in there, and I wondered if there were any issues given just how dry it's been and how high that was.

MR. ROACH: Madam Chair, Commissioner Rolf Schmidt-Petersen. When we look at the peak days, interestingly, we tend to see them on Monday, Wednesday, Friday because of irrigation timers tend to be set for often Monday, Wednesday, Friday. And so I'm not familiar with the Indian Market day or weekend sticking out to us as something that is a high demand day. You might be right, and I would need to check back. I don't have that data at my fingertips.

MEMBER SCHMIDT-PETERSEN: Thank you. And, I guess one question and remark is do you know what the San Juan-Chama contract allocation is for this year? Like what came through the tunnels?

MR. ROACH: Twenty-seven percent I'm being told.

MEMBER SCHMIDT-PETERSEN: So, worse than last year, but not as bad as 2002.

MR. ROACH: Worse than last year so far. Yeah. We didn't receive any shortages on our allocation until 2014.

MEMBER SCHMIDT-PETERSEN: Two thousand and two was the lowest diversion. There was water in storage. Thank you. And I just remark also from my thirty-five years of actual work experience that what has been experienced on the river this year was as low as we could conceptualize it ever being. Maybe not the snowmelt runoff, but since then, with no monsoon, and to have the operations occur in the way that they have, and to basically be able to go forward with really almost no disruption whatsoever is remarkable and a tribute to BDD staff and Santa Fe City and County. So thank you.

MR. ROACH: Let me just add to that. There's one other piece that deserves mentioning in this forum of what the staff have been able to achieve at BDD. Because it's been so low, we have not been able to divert a drop of native water for months. And what that means is typically the native water in the river provides a buffer where whatever we release from Abiquiu on a given day needs to be diverted by BDD the next day when it arrives there from an accounting purpose. When we have the sort of native water in the river also, we can be a little sloppy because we make sure we get the San Juan-Chama, and then whatever extra we get is native. To not be able to divert any native means that this team is hitting to almost a drop the amount of water that's in the river, and, and they've done it to a remarkable degree for now three months. And so not only have they been able to keep diverting, they've been diverting the exact amount that they're able to divert based on their calls to the reservoir. So really impressive job by the team.

CHAIR CASSUTT: Thanks so much for adding that. That's detailed information that is way beyond/above my pay grade and up to yours. So, thank you for sharing that. Any other questions or comments this moment in time? No. Councilor Ives, I'm so sorry.

MR. IVES: No worries, no worries. Thank you. It's really a follow-up question to the question from Commissioner Greene. And Jesse, what you've just been reporting, and that's on the BDD listing on that first page in the water supply to the City and County from all sources. Is it possible to get a breakdown between the City San Juan-Chama, County San Juan-Chama, and County raw water?

MR. ROACH: For August? I think we can say it's, to my knowledge, there hasn't been County San Juan-Chama water released.

MR. IVES: I'm just wondering if we could include that in the report.

MR. SANDOVAL: Yes, yes.

MR. IVES: And then on the next page it talks about the daily needs regional water demand. So is that all the participants in Buckman: Las Campanas, the City and the County?

MR. SANDOVAL: Yes, but it's combined with this one. Not Las Campanas.

MR. IVES: I'm just wondering if it's possible to break that down to City and County just because I know in the past, the City has had trigger points of 12 million gallons in a

day for certain actions. I don't know whether that's still the case at the Water Company. But, it would just be handy to know what that breakdown is on a going forward basis, if we could.

CHAIR CASSUTT: Matt, can you respond into the mic? Because people on the Zoom cannot hear you if you're not on the mic.

MR. SANDOVAL: Thank you, Madam Chair. Yes, we can, we can do that and include that in the report.

MR. IVES: Great.

MR. ROACH: And just for clarification, under current operations, there's not a 12 MGD threshold for city operations

CHAIR CASSUTT: Any other questions, comments? No. All right.

**b. Report from the BDD Facilities Manager**

BRADLEY PRADA (BDD Facilities Manager): Thank you, Madam Chair and members of the board. Today I will be presenting the BDD facility manager monthly update for September 2026. We will be covering progress on major infrastructure initiatives, key insights from recent site visits, and our current staffing

First, regarding design-build project, the team comprising of Wright Water Engineering, AECOM, and BDD staff is finalizing the draft contract for 30 percent design phase. We anticipate completing this draft prior to launching negotiations with the firm selected through the RFQ process.

On the field side of things, staff toured an active Ranney well construction site with Wright Water Engineering and AECOM to evaluate construction methods and mechanics, and it was eye-opening to say the least.

Additionally, BDD staff participated in an interagency tour of the San Juan-Chama Project Diversion and Watershed. This provided excellent coordination opportunities with statewide governing agencies and long-term water conveyance for long-term water conveyance and management.

Onto staffing, we continue to collaborate closely with city HR to fill these vacancies. I'm pleased to share that our candidate for accounting manager has accepted, and when I wrote this report, we were waiting for a start date, but I think I got a confirmation today that he's going to start on the 26<sup>th</sup>. The PUD Operator Ladder position was closed August 30<sup>th</sup> so we will be conducting interviews here shortly. And for the Automation and Security Administrative position, interviews were completed. However, none were selected, and we're moving on, reposting that position. Lastly, the Journeyman Electrician, we're still waiting for that position to be re-classified. And then that is the conclusion of my report. I'll stand for questions.

CHAIR CASSUTT: Thank you so much, Brad. Any questions? Comments? Yes, Councilor Ives.

MR. IVES: Thank you, Madam Chair. Just a few quick questions. I'm not sure everybody knows, and I myself may not be clear what a Ranney or rainy well is. If you might explain that. And you said that you gained many insights. I'm just curious what those insights were.

MR. PRADA: There's lots of mechanics to that, excuse me. Thank you, Madam Chair. There are a lot of mechanics that go into actually constructing these wells. There's like a 14- or 16-foot caisson that goes into the ground, and then you have a bunch of laterals that are drilled out. So the word Ranney sometimes reflects, people think it's like rainy.

It's not at all. It's just the name of the manufacturer who does the work. But, it's a vertical, excuse me, horizontal wells that are drilled in that caisson, and then they're fed. So, you know, speaking more to that, it would only ever be a supplement to the Big Fix. We would never – we couldn't get enough flow out of a Ranney well to actually take the place of the diversion.

MR. IVES: And where, out of curiosity, is the Ranney well located?

MR. PRADA: Aurora, Colorado, the one that we visited. The Pojoaque Regional Water Plant has all Ranney wells. We wanted to see one under construction, and that's why we visited that.

MR. IVES: Gotcha. Thank you.

COMMISSIONER GREENE: Councilor.

MR. IVES: Thank you, Madam Chair.

COMMISSIONER GREENE: If you would like to see one, not quite in action, but the Pojoaque Basin Regional Water System has built two. They will be utilizing two more at full capacity. I think each one kind of has the capacity of about 750 – sorry, let me take the statistic out. But they're large tubes in the ground, pipes in under the river. Technically, they become surface water. They're using surface water even though the wells are underground a little bit.

MR. IVES: Thank you.

MEMBER SCHMIDT-PETERSEN: Madam Chair, I have one other question for Brad.

CHAIR CASSUTT: Please, go ahead.

MEMBER SCHMIDT-PETERSEN: After a San Juan-Chama project tour, I wondered, knowing a little bit about that, I think you went to all of the diversion structures that are in Colorado. And I remember years ago that people talking about the risk of wildfire and debris flows, and I wondered if there's a new status on that or – because I believe money had been put to trying to address those issues, and if you talked about that.

MR. PRADA: I see Kyle getting up, so I'll let him answer that question.

KYLE HARWOOD (BDD Board Counsel): With your permission, Mr. Facilities Manager, thank you, Madam Chair and Member Schmidt-Petersen, I organized a large part of that tour last week, and I'd like to suggest I bring you back a memo at the next meeting summarizing it. It's a lot of information, amazing progress. I mean, the really short version is we have a \$9.8 million grant to do wildfire mitigation work above the three diversions. But I do have materials from the tour last week. And if it's okay, I'll just prepare something for next month's board meeting so you get a fuller picture. Will that be alright?

MEMBER SCHMIDT-PETERSEN: Fine by me.

CHAIR CASSUTT: That sounds great.

MR. HARWOOD: Okay, thank you.

CHAIR CASSUTT: Anything else? No. All right.

## **8. Matters from the Board**

CHAIR CASSUTT: Yes, Member Schmidt-Petersen.

MEMBER SCHMIDT-PETERSEN: Madam Chair, I just was wondering if there's been any action on the letter that the board received from, I believe, the general manager of Eldorado Water, related to recording meetings, I think. I met her just the other day and was

asked, and I said, Well, I'll bring it up. But those are normally things that'd be taken on by the manager, the chair, and others.

CHAIR CASSUTT: A letter? I did not receive that letter. I received a different letter recently.

MEMBER SCHMIDT-PETERSEN: The letter that I'm referring to was the general manager of Eldorado Water, and it was simply a request that the Buckman Direct Diversion Board tape our meetings and make them available. And the comment was, City does that and County does that and is there a reason why Buckman Direct Diversion Board doesn't. And I said, Well, you know, I don't know, but I'll, I'll bring it up.

CHAIR CASSUTT: Okay. If we could get that letter that was sent because I don't – it missed me somewhere.

MR. PRADA: Madam Chair, we record the meetings, and they're available.

CHAIR CASSUTT: They're online?

MR. PRADA: Yes.

CHAIR CASSUTT: Okay.

MR. PRADA: So, whether we see the letter or not, they're online.

CHAIR CASSUTT: And then where can they find them? On Civic Clerk?

MR. PRADA: Yes, we're on the same area that you guys are on.

MEMBER SCHMIDT-PETERSEN: I would just add, I received, and I think it was from Berni that I received the letter. It wasn't like it was sent to me.

CHAIR CASSUTT: Okay.

MEMBER SCHMIDT-PETERSEN: And so I was thinking it was sent to the, to the Board and then distributed. But maybe I'm wrong.

CHAIR CASSUTT: We'll take a look at it. And Civic Clerk can be a little funky on the public's use. So if they need assistance, send them my way, and I'll see if I can do it.

MEMBER SCHMIDT-PETERSEN: Okay.

CHAIR CASSUTT: And sometimes I can't, and then I send them to Bernie. I'll take a look.

MEMBER SCHMIDT-PETERSEN: Sounds good.

CHAIR CASSUTT: But apparently that problem has been solved – and we can double-check on Civic Clerk's site.

MEMBER SCHMIDT-PETERSEN: Great. Thank you.

CHAIR CASSUTT: Any other matters from the Board?

**9. New Meeting**

**a. Thursday, October 1, 2026**

**7. Executive Session**

**a. Discussion of the Contents of Competitive Sealed Proposals Solicited Pursuant to the Procurement Code for RFP #FY26-TRFQP-A&E-094, Professional Engineering Service for the Buckman Direct Diversion Facility, During the Contract Negotiations Process as Allowed by Section 10-15-1 (H)(6) NMSA 1978**

CHAIR CASSUTT: Nancy, do we have to make a motion to go into executive session and then adjourn?

MS. LONG: Yes, Madam Chair. So the motion would be a motion to adjourn and go into executive session for the full caption that's stated on the agenda.

CHAIR CASSUTT: All right. Can I have somebody make said motion?

COMMISSIONER GREENE: I will make a motion to adjourn this meeting and go into executive session.

CHAIR CASSUTT: And then read the long caption.

COMMISSIONER GREENE: To discuss, the mission of the executive session is discussion of the contents of the competitive sealed proposal solicited pursuant to the procurement code or RFP number FY26-TRFQP-A&E-094 professional engineering services for the Buckland Direct Diversion Facility during the contract negotiation process as allowed by section 10-15-1 (H)(6) NMSA 1978.

COUNCILOR FEGHALI: Second.

CHAIR CASSUTT: Motion and a second. Roll call, please.

The motion to adjourn and go into executive session passed by unanimous [5-0] roll call vote as follows:

|                                     |     |
|-------------------------------------|-----|
| R. Schmidt Petersen, Citizen Member | Yes |
| Commissioner Justin Greene          | Yes |
| Councilor Patricia Feghali          | Yes |
| Commissioner Hank Hughes            | Yes |
| Councilor Jamie Cassutt, Chair      | Yes |

## 10. Adjourn

Chair Cassutt declared this meeting adjourned at 4:25 p.m.

Approved by:

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Jamie Cassutt, Board Chair

**ATTEST TO**

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Geralyn Cardenas, City Clerk

**Date:** October 1, 2026  
**To:** Buckman Direct Diversion Board  
**From:** Matthew Sandoval, BDD Operations Superintendent *MS*  
**Subject:** Update on BDD Operations for the Month of September 2026

**ITEM:**

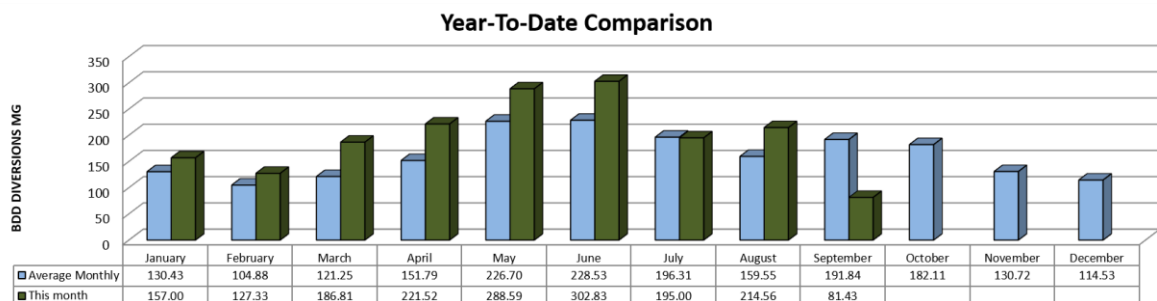
1. This memorandum is to update the Buckman Direct Diversion Board (BDDDB) on BDD operations during the month of September 2026. The BDD diversions and deliveries have averaged, in Million Gallons Per Day (MGD), as follows:

| September                                               | 2026     | 2025     |
|---------------------------------------------------------|----------|----------|
| Raw water diversions                                    | 3.12 MGD | 4.22 MGD |
| Raw water delivery to Las Campanas at BS2A              | 0.58 MGD | 0.39 MGD |
| Drinking water deliveries through Booster Station 4A/5A | 3.43 MGD | 4.08 MGD |

2. Water supply to the City and County from all sources.

| September     | 2026   | 2025   |
|---------------|--------|--------|
| BDD           | 36.2 % | 37.2 % |
| Canyon Rd WTP | 13 %   | 38.6 % |
| City Wells    | 25.7 % | 8.2 %  |
| Buckman Wells | 25.1 % | 1.6%   |

3. The BDD year-to-date diversions are depicted below:





## Regional Water Overview

Daily metered regional water demand for the month averaged approximately: 10.7 MGD

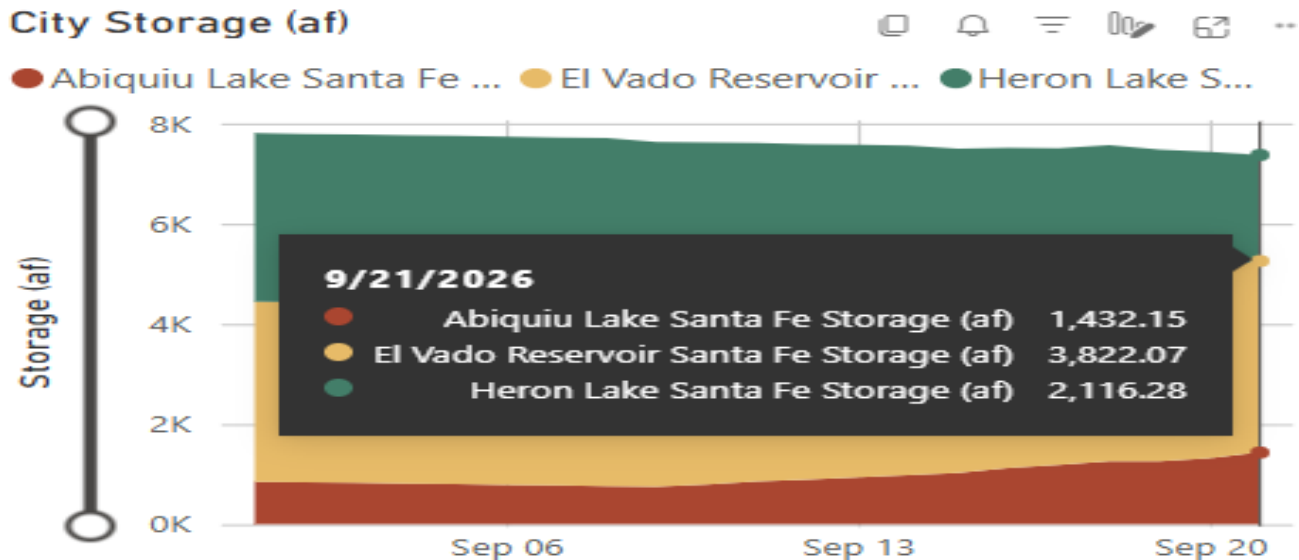
Rio Grande flows averaged approximately: 235 CFS (cubic feet per second)

SJC diversions for the month:

|                  |     |
|------------------|-----|
| City SJC         | 99% |
| County SJC       | 0%  |
| Las Campanas SJC | 1%  |

City/County/Las Campanas Storage- as updated by partners. As of Septmebr 21, 2026 City of SF Abiquiu SJC storage is at about 1432.15 AF.

## City Storage (af)



## Regional Water Supply

BDD Finished water percent of total BDD delivery (not including Canyon Rd WTP or any wells):

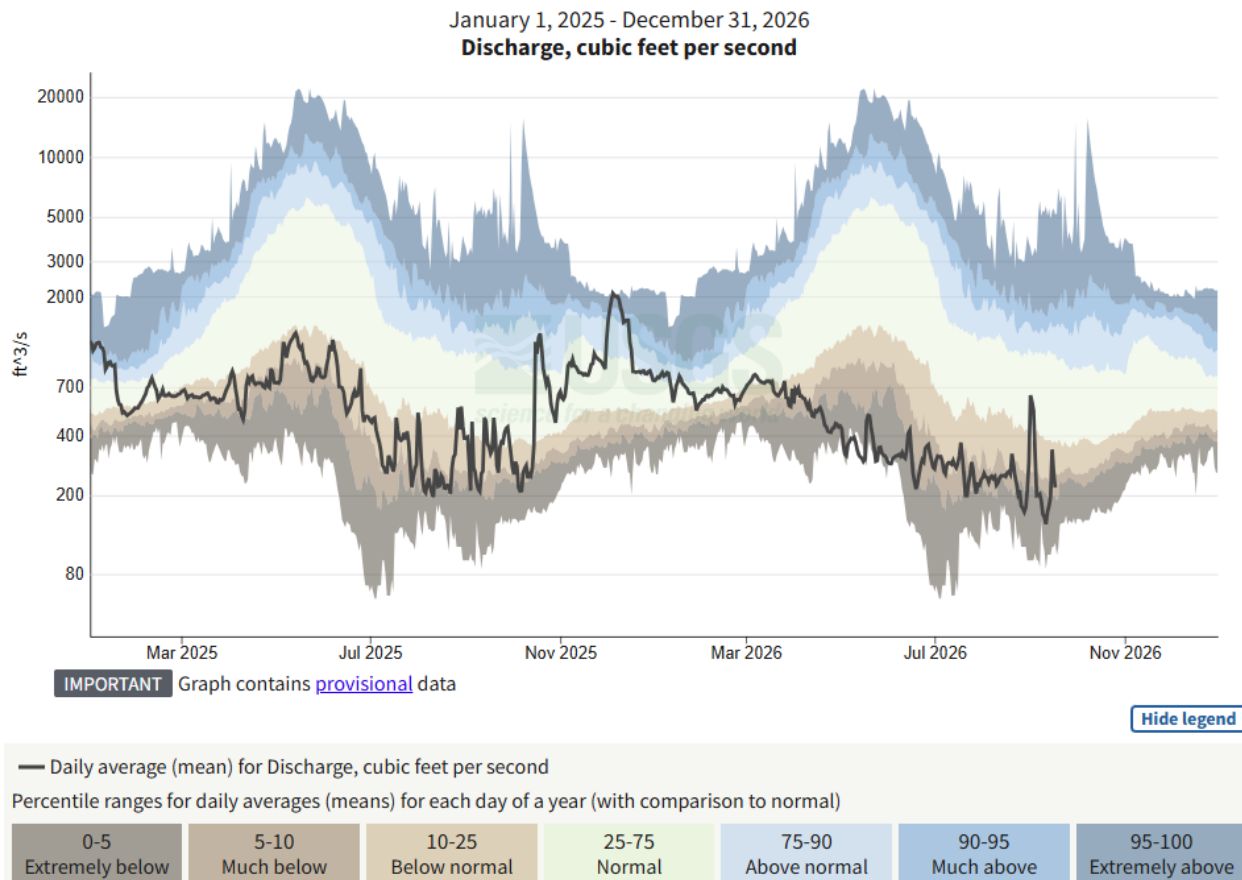
|              |       |
|--------------|-------|
| City         | 51.6% |
| County       | 29.4% |
| Las Campanas | 19%   |

CRWTP reservoir storage: Nichols: 46.65% McClure: 13.50% Watershed Inflow: 12.28 MGD

- Santa Fe SNOTEL
  - Cumulative snow Water/Equiv. Inches 0.0
  - Cumulative Snow in Depth in Inches 0.0

### Current Rio Grande Flows

Rio Grande flows (measured at the Otowi gage, shown below) are significantly below normal (5-10% of historic mean flows).



Source: <https://waterdata.usgs.gov/monitoring-location/USGS-08313000/statistical-graphs/>

### Current El Niño Southern Oscillation (ENSO) Status Summary

At the time this report is being prepared (9/18/26) NOAA is reporting the presence of El Niño conditions. Sea surface temperatures are above average in the eastern equatorial Pacific, with a temperature index of +3.0°C. Additionally, the equatorial subsurface temperature index increased in July, now reaching +10.0°C at depth. NOAA is forecasting that the El Niño system will continue to strengthen and expects (greater than 90% chance) that a very strong event will occur in the fall and winter of 2026 - 2027.

Source: [cpc.ncep.noaa.gov](https://cpc.ncep.noaa.gov)

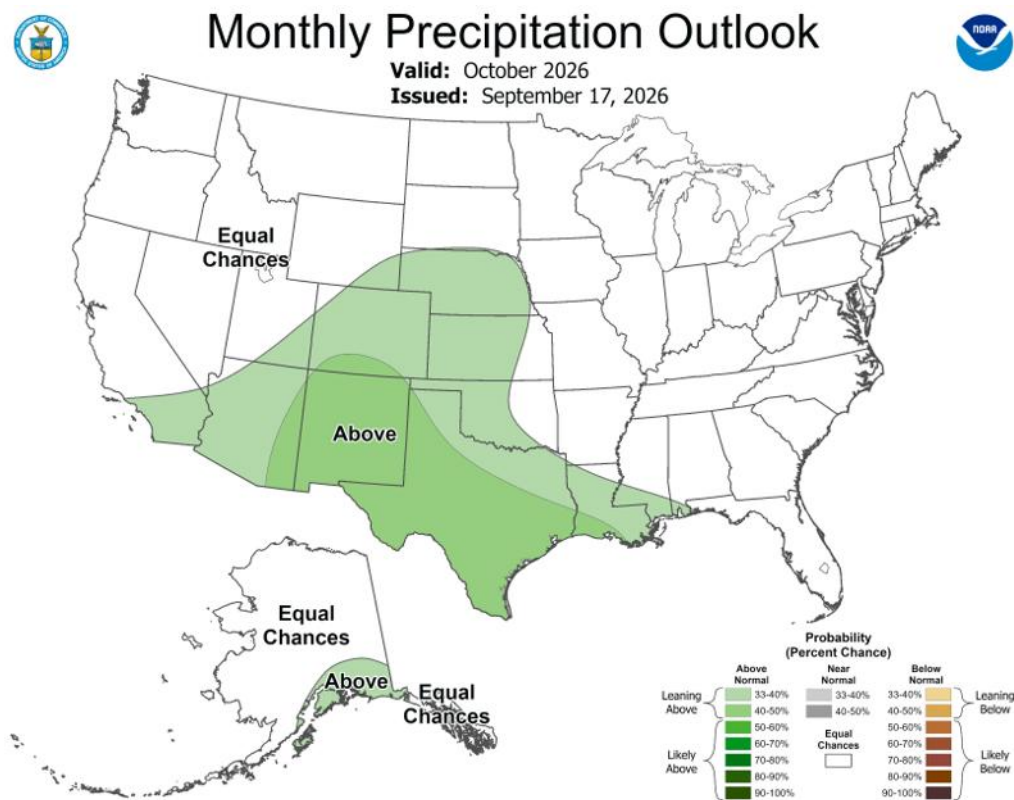


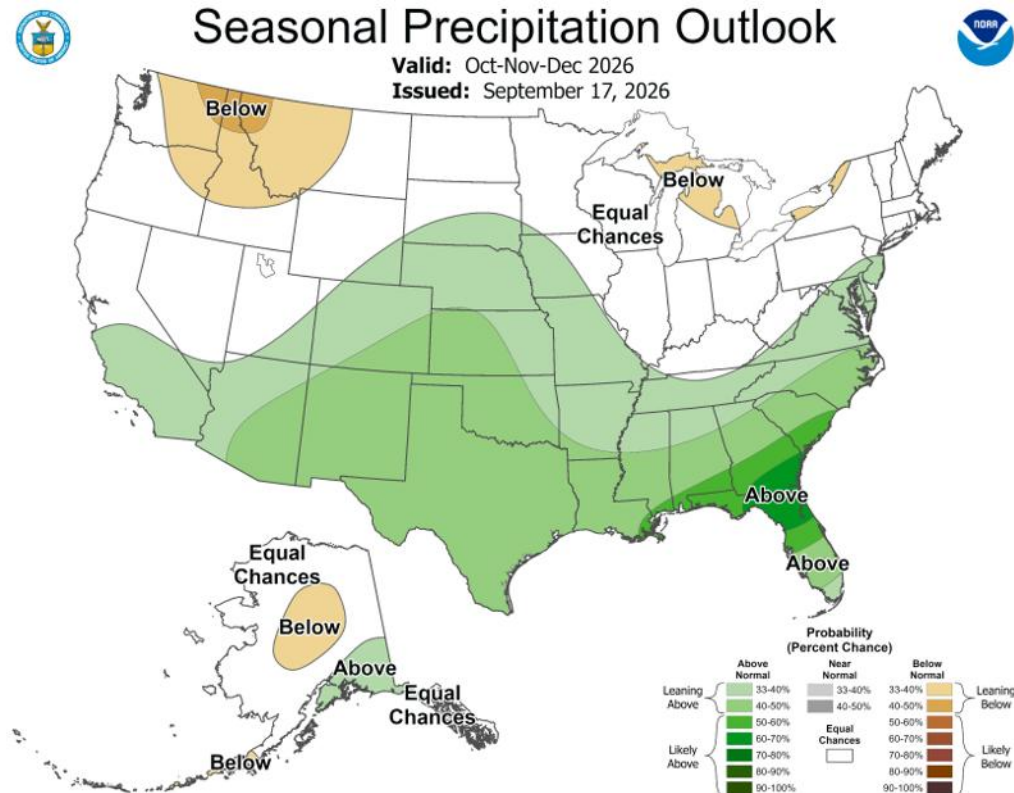
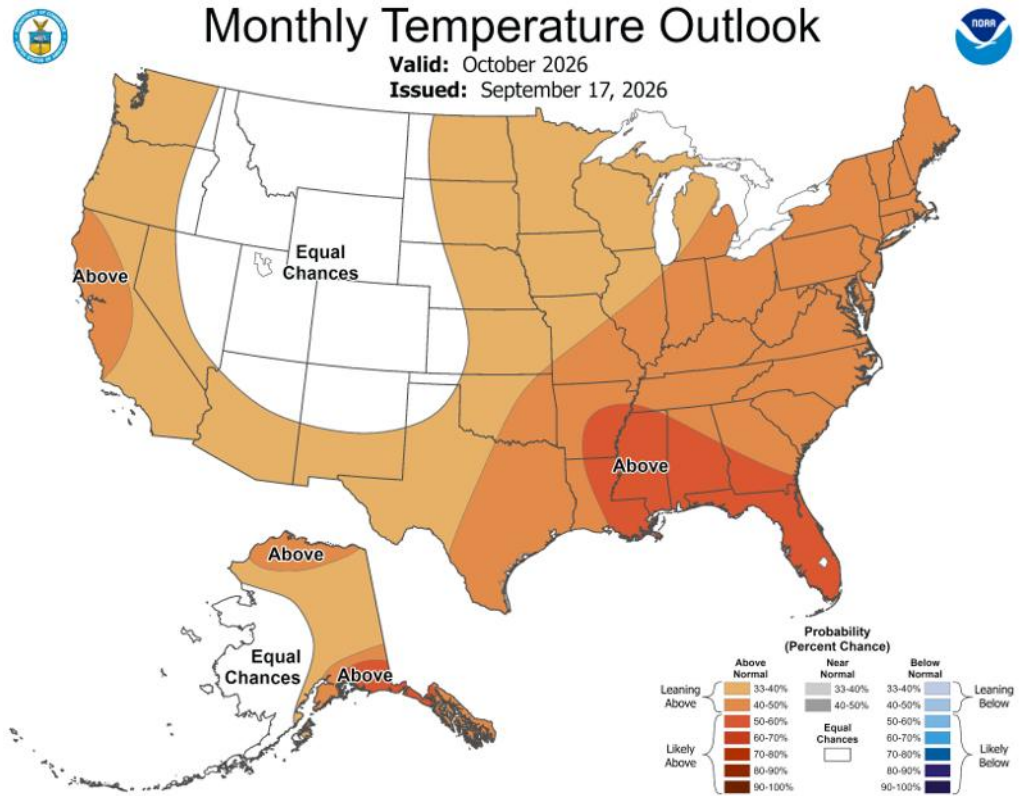
## Seasonal Precipitation and Temperature Outlooks:

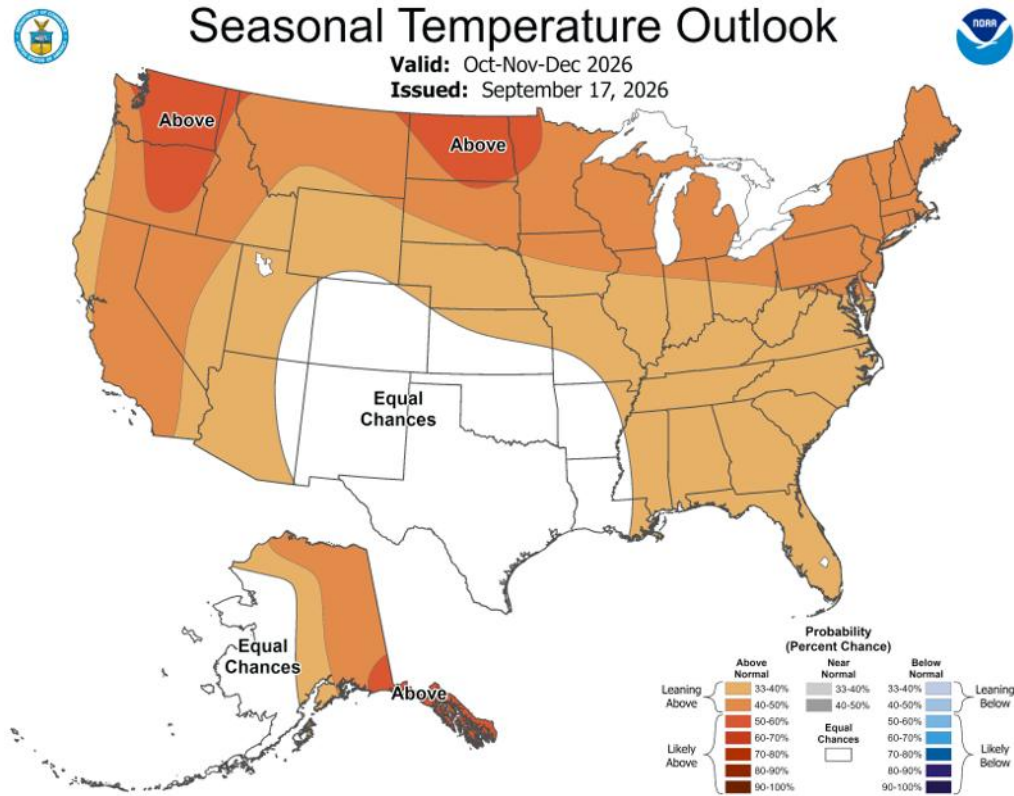
The current NOAA one-month outlook indicates precipitation forecasts are leaning above normal for all of New Mexico. The one-month outlook indicates equal chances of above- or below-normal temperatures for the northern portion of the state. The current NOAA three-month outlook indicates that precipitation forecasts are leaning above normal for New Mexico and the Colorado River Basin. The three-month temperature outlook suggests there are equal chances of above- or below-normal temperatures for New Mexico.

Maps of one- and three-month temperature and precipitation forecasts are provided below.

Source: <https://www.cpc.ncep.noaa.gov>







## Summary/Interpretation

Observed low Rio Grande flows are likely to continue unless/until monsoon precipitation becomes a significant source of flow. San Juan Chama Project allocations for 2026 will likely be significantly less than 100%, with allocations through July at 27.2% of full allocations. The three-month precipitation outlook is promising, with the current presence of El Niño conditions potentially resulting in higher-than-normal precipitation during late summer and fall monsoons.

## Buckman Direct Diversion Monthly Native and SJC Diversions (ac-ft)

|                      | Total Diverted   | Total Native Diverted | County Native Rio Grande Diversions |                       |                         |                                               | TCLC Native Rio Grande Diversion                     |                            |                       |                                                    | San Juan-Chama Diversions |                             |                               |                                                |
|----------------------|------------------|-----------------------|-------------------------------------|-----------------------|-------------------------|-----------------------------------------------|------------------------------------------------------|----------------------------|-----------------------|----------------------------------------------------|---------------------------|-----------------------------|-------------------------------|------------------------------------------------|
|                      |                  |                       | Total County Native Diverted        | County Native SP-4842 | County Native SP-4842-A | County Native RG-20516 et al. -C into SP-4842 | County Native RG-20516 et al. -A & -B into SP-4842-A | Total TCLC Native Diverted | TCLC Native SP-4842-A | TCLC Native RG-20516 et al. -A & -B into SP-4842-A | Total SJC Diverted        | City SJC SP-2847-E Diverted | County SJC SP-2847-E Diverted | TCLC SJC SP-02847-N into SP-4842-A1-T Diverted |
| 2026 Jan             | 496,024          | 380,983               | 380,983                             | 380,983               | 0.000                   | 0.000                                         | 0.000                                                | 0.000                      | 0.000                 | 0.000                                              | 115,041                   | 115,041                     | 0.000                         | 0.000                                          |
| Feb                  | 412,395          | 283,548               | 283,548                             | 283,548               | 0.000                   | 0.000                                         | 0.000                                                | 0.000                      | 0.000                 | 0.000                                              | 128,846                   | 128,846                     | 0.000                         | 0.000                                          |
| Mar                  | 711,799          | 493,340               | 493,340                             | 493,340               | 0.000                   | 0.000                                         | 0.000                                                | 0.000                      | 0.000                 | 0.000                                              | 218,460                   | 185,415                     | 0.000                         | 33,045                                         |
| Apr                  | 679,891          | 679,891               | 679,891                             | 200,659               | 0.000                   | 372,384                                       | 106,847                                              | 0.000                      | 0.000                 | 0.000                                              | 0.000                     | 0.000                       | 0.000                         | 0.000                                          |
| May                  | 879,985          | 42,405                | 42,405                              | 0.000                 | 0.000                   | 0.000                                         | 42,405                                               | 0.000                      | 0.000                 | 0.000                                              | 837,580                   | 837,580                     | 0.000                         | 0.000                                          |
| Jun                  | 929,428          | 0.000                 | 0.000                               | 0.000                 | 0.000                   | 0.000                                         | 0.000                                                | 0.000                      | 0.000                 | 0.000                                              | 929,428                   | 874,235                     | 0.000                         | 55,192                                         |
| Jul                  | 656,339          | 0.000                 | 0.000                               | 0.000                 | 0.000                   | 0.000                                         | 0.000                                                | 0.000                      | 0.000                 | 0.000                                              | 656,339                   | 547,878                     | 0.000                         | 108,461                                        |
| Aug                  | 675,132          | 0.000                 | 0.000                               | 0.000                 | 0.000                   | 0.000                                         | 0.000                                                | 0.000                      | 0.000                 | 0.000                                              | 675,132                   | 604,489                     | 0.000                         | 70,643                                         |
| Sep                  | 190,220          | 0.000                 | 0.000                               | 0.000                 | 0.000                   | 0.000                                         | 0.000                                                | 0.000                      | 0.000                 | 0.000                                              | 190,220                   | 188,494                     | 0.000                         | 1,726                                          |
| <b>Total</b>         | <b>5,631,212</b> | <b>1,880,166</b>      | <b>1,880,166</b>                    | <b>1,358,530</b>      | <b>0.000</b>            | <b>372,384</b>                                | <b>149,252</b>                                       | <b>0.000</b>               | <b>0.000</b>          | <b>0.000</b>                                       | <b>3,751,046</b>          | <b>3,481,979</b>            | <b>0.000</b>                  | <b>269,067</b>                                 |
| <b>Max Allowable</b> |                  | <b>2,440,368</b>      | <b>2,174,204</b>                    | <b>1,358,530</b>      | <b>0.000</b>            | <b>372,384</b>                                | <b>443,290</b>                                       | <b>266,164</b>             | <b>69,804</b>         | <b>196,360</b>                                     | <b>7,454,125</b>          | <b>6,406,750</b>            | <b>459,375</b>                | <b>588,000</b>                                 |
| <b>Remaining</b>     |                  | <b>560,202</b>        | <b>294,038</b>                      |                       |                         |                                               | <b>294,038</b>                                       | <b>266,164</b>             | <b>69,804</b>         | <b>196,360</b>                                     | <b>3,703,079</b>          | <b>2,924,771</b>            | <b>459,375</b>                | <b>318,933</b>                                 |

## Projected Diversions (ac-ft)

|                        | Total Diverted | Total Native Diverted | Total County Native Diverted | County Native SP-4842 | County Native SP-4842-A | County Native RG-20516 et al. -C into SP-4842 | County Native RG-20516 et al. -A & -B into SP-4842-A | Total TCLC Native Diverted | TCLC Native SP-4842-A | TCLC Native RG-20516 et al. -A & -B into SP-4842-A | Total SJC Diverted | City SJC SP-2847-E Diverted | County SJC SP-2847-E Diverted | TCLC SJC SP-02847-N into SP-4842-A1-T Diverted |
|------------------------|----------------|-----------------------|------------------------------|-----------------------|-------------------------|-----------------------------------------------|------------------------------------------------------|----------------------------|-----------------------|----------------------------------------------------|--------------------|-----------------------------|-------------------------------|------------------------------------------------|
| 2026 Oct               | 680            | 50                    | 50                           | 0                     | 0                       | 0                                             | 50                                                   | 0                          | 0                     | 0                                                  | 630                | 610                         | 0                             | 20                                             |
| Nov                    | 520            | 120                   | 120                          | 0                     | 0                       | 0                                             | 120                                                  | 0                          | 0                     | 0                                                  | 400                | 380                         | 0                             | 20                                             |
| Dec                    | 530            | 120                   | 120                          | 0                     | 0                       | 0                                             | 120                                                  | 0                          | 0                     | 0                                                  | 410                | 410                         | 0                             | 0                                              |
| <b>Total Projected</b> | <b>1,730</b>   | <b>290</b>            | <b>290</b>                   | <b>0</b>              | <b>0</b>                | <b>0</b>                                      | <b>290</b>                                           | <b>0</b>                   | <b>0</b>              | <b>0</b>                                           | <b>1,440</b>       | <b>1,400</b>                | <b>0</b>                      | <b>40</b>                                      |

Data is current as of 9/21/2026

## Buckman Direct Diversion Monthly Native and SJC Diversions (ac-ft)

|               | County Native Rio Grande Diversions |                              |                       | TCLC Native Rio Grande Diversion |                                              |                                                     |                            | San Juan-Chama Diversions |                                                   |                    |                             |                               |                                                |
|---------------|-------------------------------------|------------------------------|-----------------------|----------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------|---------------------------|---------------------------------------------------|--------------------|-----------------------------|-------------------------------|------------------------------------------------|
|               | Total Native Diverted               | Total County Native Diverted | County Native SP-4842 | County Native SP-4842-A          | County Native RG-20516 et al.-C into SP-4842 | County Native RG-20516 et al.-A & -B into SP-4842-A | Total TCLC Native Diverted | TCLC Native SP-4842-A     | TCLC Native RG-20516 et al.-A & -B into SP-4842-A | Total SJC Diverted | City SJC SP-2847-E Diverted | County SJC SP-2847-E Diverted | TCLC SJC SP-02847-N into SP-4842-A1-T Diverted |
| 2025          | Jan                                 | 326.141                      | 123.689               | 123.689                          | 0.000                                        | 0.000                                               | 0.000                      | 0.000                     | 0.000                                             | 202.453            | 202.453                     | 0.000                         | 0.000                                          |
|               | Feb                                 | 313.427                      | 28.205                | 28.205                           | 0.000                                        | 0.000                                               | 0.000                      | 0.000                     | 0.000                                             | 285.223            | 285.223                     | 0.000                         | 0.000                                          |
|               | Mar                                 | 563.860                      | 257.038               | 257.038                          | 0.000                                        | 0.000                                               | 0.000                      | 0.000                     | 0.000                                             | 306.823            | 306.823                     | 0.000                         | 0.000                                          |
|               | Apr                                 | 677.035                      | 471.649               | 471.649                          | 0.000                                        | 0.000                                               | 0.000                      | 0.000                     | 0.000                                             | 205.388            | 205.388                     | 0.000                         | 0.000                                          |
|               | May                                 | 918.542                      | 292.560               | 292.560                          | 0.000                                        | 0.000                                               | 0.000                      | 0.000                     | 0.000                                             | 625.983            | 625.983                     | 0.000                         | 0.000                                          |
|               | Jun                                 | 754.206                      | 62.214                | 62.214                           | 0.000                                        | 0.000                                               | 0.000                      | 0.000                     | 0.000                                             | 691.993            | 691.993                     | 0.000                         | 0.000                                          |
|               | Jul                                 | 748.447                      | 35.193                | 35.193                           | 0.000                                        | 0.000                                               | 0.000                      | 0.000                     | 0.000                                             | 713.256            | 713.256                     | 0.000                         | 0.000                                          |
|               | Aug                                 | 446.168                      | 0.000                 | 0.000                            | 0.000                                        | 0.000                                               | 0.000                      | 0.000                     | 0.000                                             | 446.169            | 446.169                     | 0.000                         | 0.000                                          |
|               | Sep                                 | 418.331                      | 65.790                | 65.790                           | 0.000                                        | 0.000                                               | 0.000                      | 0.000                     | 0.000                                             | 352.542            | 352.542                     | 0.000                         | 0.000                                          |
|               | Oct                                 | 304.622                      | 148.107               | 22.192                           | 0.000                                        | 125.915                                             | 0.000                      | 0.000                     | 0.000                                             | 156.516            | 156.516                     | 0.000                         | 0.000                                          |
|               | Nov                                 | 301.012                      | 282.448               | 0.000                            | 0.000                                        | 246.469                                             | 35.979                     | 0.000                     | 0.000                                             | 18.565             | 18.565                      | 0.000                         | 18.565                                         |
|               | Dec                                 | 425.163                      | 425.164               | 0.000                            | 0.000                                        | 0.000                                               | 425.164                    | 0.000                     | 0.000                                             | 0.000              | 0.000                       | 0.000                         | 0.000                                          |
| Total         | 6,196.954                           | 2,192.057                    | 2,192.057             | 1,358.530                        | 0.000                                        | 372.384                                             | 461.143                    | 0.000                     | 0.000                                             | 4,004.911          | 3,986.345                   | 0.000                         | 18.565                                         |
| Max Allowable |                                     | 2,440.368                    | 2,224.234             | 1,358.530                        | 0.000                                        | 372.384                                             | 493.320                    | 216.134                   | 146.330                                           | 7,362.500          | 6,407.000                   | 367.500                       | 588.000                                        |
| Remaining     |                                     | 248.311                      | 32.177                |                                  |                                              | 32.177                                              | 216.134                    | 69.804                    | 146.330                                           | 3,357.589          | 2,420.655                   | 367.500                       | 569.435                                        |

## Projected Diversions (ac-ft)

|  |  |
|--|--|
|  |  |
|--|--|

## SJC in Storage as of Thursday, January 1, 2026 (ac-ft)

| City SJC in Storage | County SJC in Storage | TCLC SJC in Storage |
|---------------------|-----------------------|---------------------|
| 10,558              | 1,003                 | 1,109               |

# *Memorandum*



## Buckman Direct Diversion

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**Date:** September 23, 2026

**To:** Buckman Direct Diversion Board

**From:** Kyle Harwood (BDD General Counsel)

**Subject:** San Juan Chama Project Contractors Association Annual Field Trip

The San Juan Chama Project Contractors Association (SJCPCA) organizes a yearly field trip/workshop for the Contractors, Bureau of Reclamation, New Mexico state agencies and others. This year, over 50 participants visited Pagosa Springs, Colorado and surrounding areas for 3 days in August. Numerous presenters discussed topics with attendees at various locations on the fieldtrip, including stops at 2 of the 3 intakes (Blanco and Oso), Azotea Tunnel Outlet, Heron Reservoir, and Ohkay Owingeh.

One of the primary themes of this field trip was to discuss the crucial work of fire mitigation above the project intake facilities. A second theme of this field trip was to review the planned reconstruction of the intake facilities, which are over 55 years old.

City of Santa Fe designees serve in a leadership role on the Contractors Association. Many of this year's participants were from the City of Santa Fe and Santa Fe County utility staff.

Handouts from the field trip are attached for the Board's reference.

# 2026 SJCPCA Field Trip and Infrastructure Tour



## Day 1 (Tuesday, 08/25)

5:30 - 7:30 PM

Join us for an evening mixer at El Camino Lounge and introduction about the San Juan-Chama Project Contractors Association (SJCPCA) and watershed from SJCPCA Chair Mark Kelly.  
651 W U.S. Hwy 160, Pagosa Springs, CO 81147

[Menu](#)

Appetizers courtesy of Harwood Pierpont Attorneys at Law

## Day 2 (Wednesday, 08/26)

7:00 AM

Breakfast on your own

7:45 AM

Meet at Motel SoCo parking lot  
651 W U.S. Hwy 160, Pagosa Springs, CO 81147

- We will carpool to reduce number of vehicles

8:45 - 10:00 AM

1. Blanco Diversion  
37.204611, -106.810389

### *Fire Planning*

*Emma Metcalf, Bureau of Reclamation (BOR)*

*A Plan in Action - An example of SJCP Fire Planning Project*

*Josh Peck, United States Forest Service*

11:00 AM - 2:15 PM

2. Banded Peaks Ranch Tour  
37.077366, -106.693128

### *Banded Peaks Ranches Tour and Collaborative Forest Management Discussions*

*Steve Bassett, The Nature Conservancy (TNC); Natasha Kerr, TNC;*

*Tim Haarmann Ph.D, Banded Peaks Ranch; Nick Dolocek, Dolocek Enterprises Inc.*

Lunch provided courtesy of The Nature Conservancy

3:00 - 4:00 PM

3. Oso Diversion  
37.030306, -106.7355

### *Oso Diversion Dam Schedule Repairs*

*Cord Everetts, BOR*

# Agenda Continued

[Menu](#)

6:00 PM

Dinner and a Talk at Gustosos

117 Navajo Trail Dr, Pagosa Springs, CO 81147

***SJCPCA Past, Present, and Future***

*Kyle Harwood, SJCPCA Administrator*

***Colorado River: Post-2026 Record of Decision and DROA Update***

*Diane Agnew, Albuquerque Bernalillo County Water Utility Authority*

## Day 3 (Thursday, 08/27)

7:00 AM

Breakfast on your own

- Check out of hotels
- Make sure to pack a lunch for the day

8:00 AM

Meet at Motel SoCo parking lot and head to Azotea Tunnel Outlet

651 W U.S. Hwy 160, Pagosa Springs, CO 81147

9:00 - 10:00 AM

4. Azotea Tunnel Outlet

36.850551, -106.671908

**PPE REQUIRED (Hard Hat, Safety Vest, Close Toed Shoes)**

***Climate and Hydrology of San Juan River Basin: A Conversation on the Latest Climate Hydrology Modelling, Diversion Efficiencies of the SJCP, and What Do Past Super El Nino years tell us About What We May Expect This Winter***

*Bill Schneider, City of Santa Fe (CoSF), Steve Shultz (CoSF), and Levi Newell (CoSF)*

10:30 AM - 12:30 PM

5. Heron Lake State Park

194 NM-95, Los Ojos, NM 87551

***From Diversion to Recreation: The Role of Your State Parks in New Mexico's Water Story***

*Toby Velasquez, New Mexico State Parks*

- **Note:** All entry fees have been waived
- **Lunch** will happen during this stop, please plan ahead to bring your own lunch!

2:00 - 3:00 PM

6. Ohkay Owingeh Lakes

2016 N Riverside Dr, Espanola, NM 87532 Ohkay Owingeh

***Rio Chama Water Rights Settlement, Bosque Restoration, and How SJCP Water Supports These Efforts***

*Tyler Lystash, Ohkay Owingeh*

## Contact Information

Willem Martin , SJCPCA Support Staff

505-322-7070

# San Juan-Chama Project Contractors Field Trip Stops

1. Blanco Diversion
2. Banded Peaks Ranch
3. Oso Diversion

4. Azotea Tunnel Outlet

5. Heron Lake

6. Ohkay Owingeh

El Vado Reservoir

Abiquiu Lake

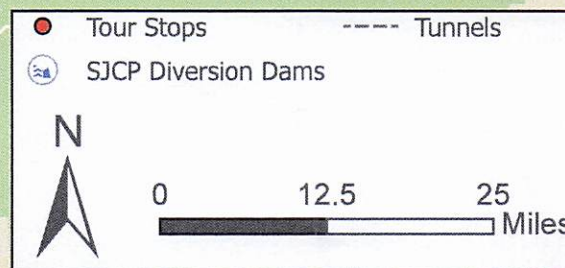
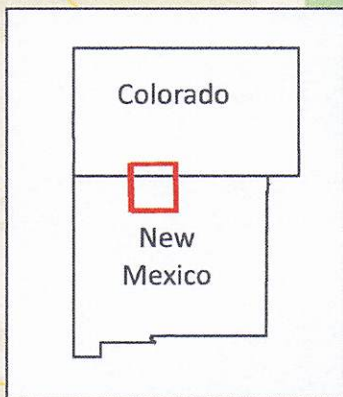
Carson National Forest

Santa Fe National Forest

Río Grande del Norte National Monument

National Monument

Santa Fe



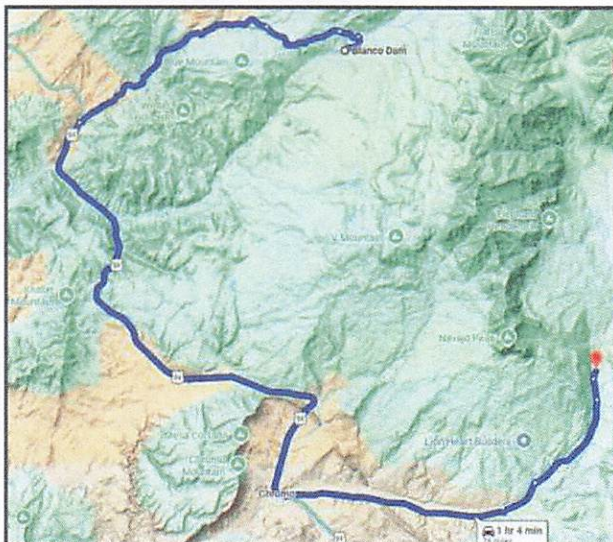
# Directions

## Motel SoCo to Blanco Diversion



- From Motel SoCo take US-160 E for 1.6 Miles
- Turn right onto US-84 E (signs for Chama) and drive for 8.4 miles
- Turn left onto Blanco Basin Rd and drive for 6.2 miles
- Continue onto FS 657 for 2.3 miles
- Take a slight right onto Blue Mountain Pl for half a mile
- Turn right onto Nofishum Pl until you arrive at Blanco Diversion

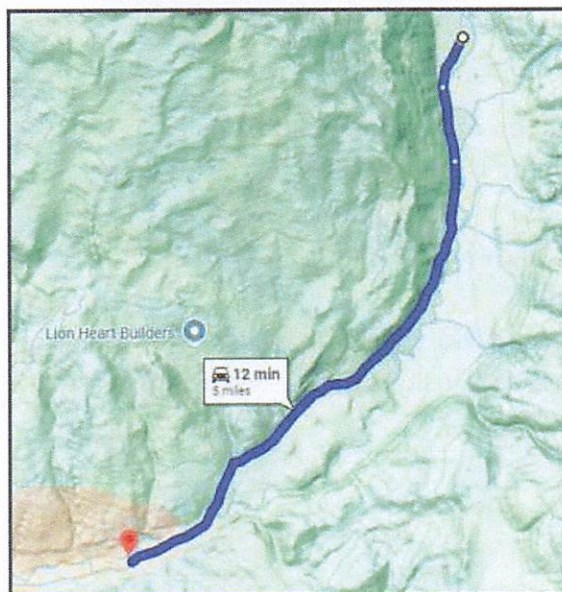
## Blanco Diversion to Banded Peaks



- Take FS 657 and Blanco Basin Rd to US-84 E for 9.8 mi
- Turn left onto US-84 E and drive 15.4 miles
- Turn left onto Navajo River Rd and drive for 7.0 miles
- Turn right to stay on Navajo River Rd (R 382) for another 3.5 miles
- Slight right onto Banded Peak Ranch Rd for 0.2 miles

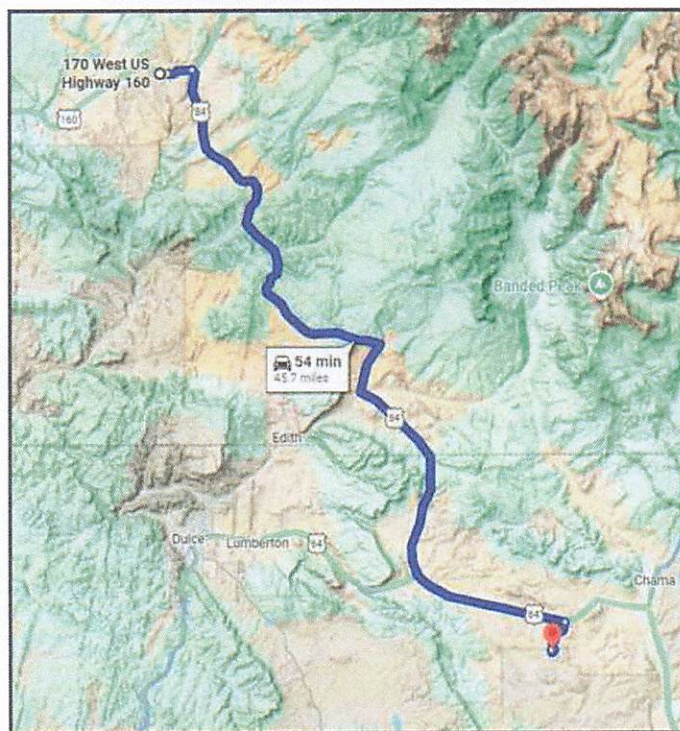
# Directions

## Banded Peaks to Oso Diversion



- Head south on Banded Peak Ranch Rd South
- Veer left onto Navajo River Rd and drive for 4 miles
- Oso Diversion will be on the right

## Motel SoCo to Azotea Tunnel Outlet



- Head east on US-160 E
- Turn right onto US-84 E (signs for Chama) and drive for 42 miles
- Turn right onto Azotea Tunnel Rd and drive for 2 miles

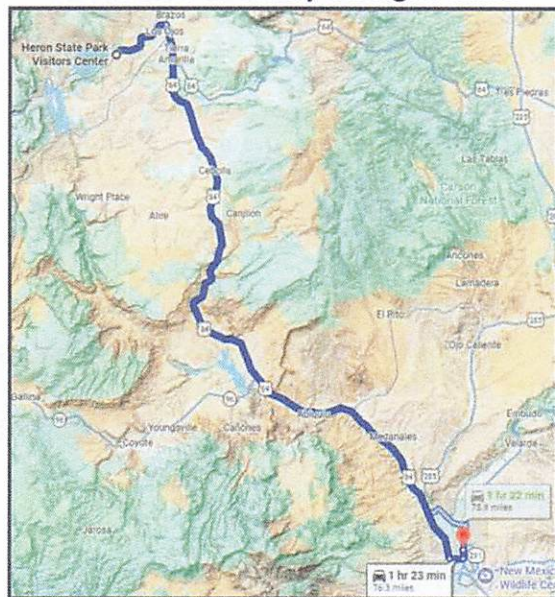
# Directions

## Azotea Tunnel Outlet to Heron Lake



- Head North on Azotea Tunnel Rd for 2 miles
- Take a right on US-64E/US-84E for 4.6 miles
- Turn right to stay on US-64E/US-84E for 10.5 miles
- Turn right onto NM-95 S for 6.3 miles
- Heron State Park Visitors Center will be on the right

## Heron Lake to Ohkay Owingeh Lakes



- Exit the parking lot toward NM-95 N
- Turn left onto NM-95 N for 6.3 miles
- Turn right onto US-64 E/US-84 E
- Continue on US-84 for 67.7 miles
- Turn left onto Fairview Ln for 1.3 miles
- Turn left onto N Riverside Dr and continue for 0.9 miles
- Turn left and the destination will be on the left



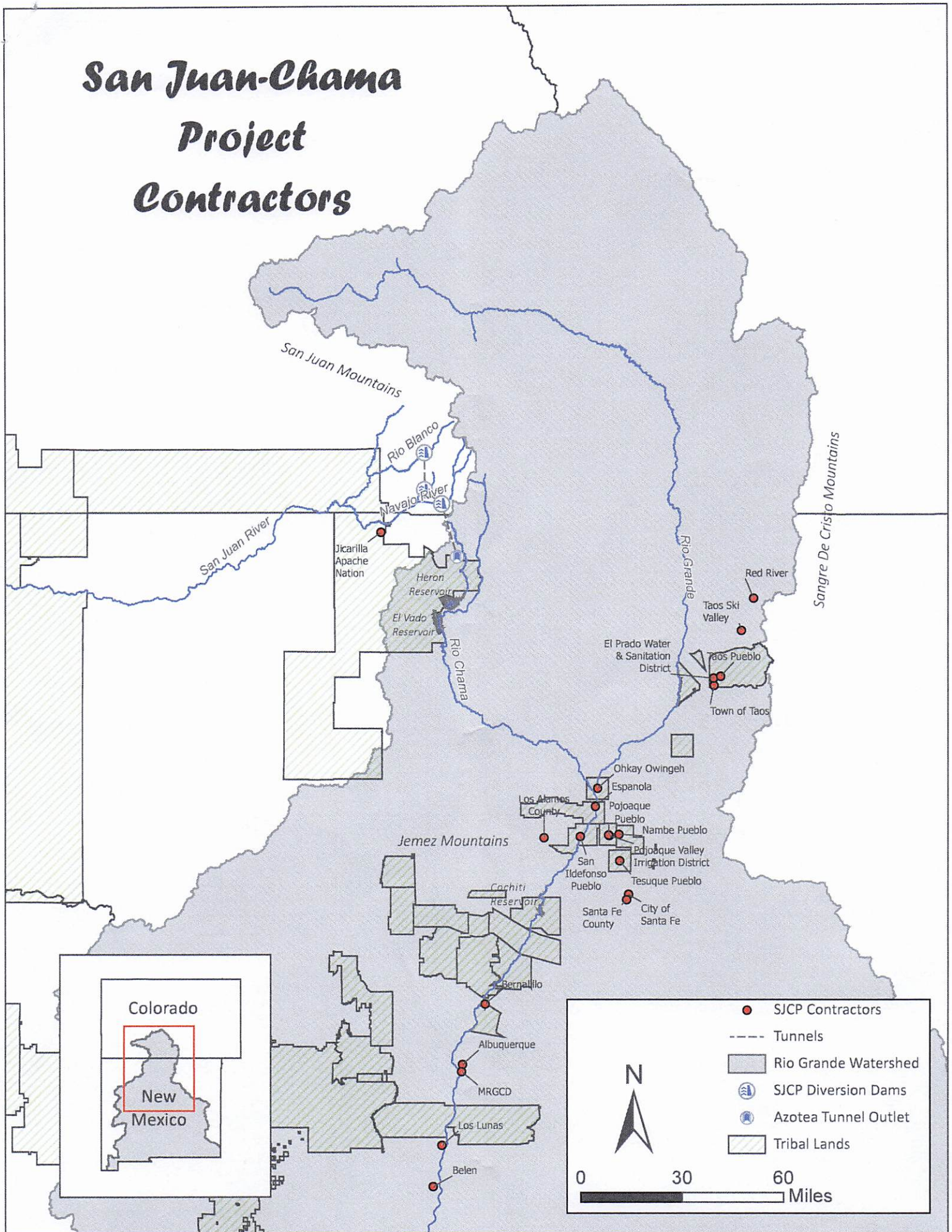
Albuquerque-Bernalillo County  
Water Utility Authority,  
Fiscal Agent

PO Box 568  
ABQ, NM 87103

City of Belen  
Town of Bernalillo  
El Prado Water  
& Sanitation District  
Village of Los Lunas  
Middle Rio Grande  
Conservancy District

Ohkay Owingeh  
Pojoaque Valley  
Irrigation District  
City of Santa Fe  
Town of Taos  
Village of Taos  
Shi Valley

# San Juan-Chama Project Contractors





## San Juan – Chama Project Fire Planning

---

**Location:** San Juan–Chama Project headwaters in southern Colorado

**Lead partners:** The Nature Conservancy and the U.S. Bureau of Reclamation

**Funding:** \$341,738

**Project start:** 2025

**Focus:** Reduce wildfire risk and protect critical SJCP water supply

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### Background:

The San Juan–Chama Project moves water from three Colorado headwater basins—the Navajo River, Little Navajo River, and Rio Blanco—to the Rio Grande Basin to provide water to various Contractors in New Mexico. Wildfire poses a significant risk to the headwater forests that make up these basins. A severe fire could damage water infrastructure, reduce water supplies, and cause flooding, erosion, and debris flows that could disrupt the SJCP for years. This planning project's goal is to prepare now, before a major fire occurs.

---

### Planning Project Details:

This planning initiative has brought together water managers, fire agencies, conservation partners, and landowners to develop a three-pronged wildfire plan. A Quantitative Wildfire Risk Assessment was performed to identify the threats and benefits of fire on the landscape, and three working groups were created to tackle the three pieces of the plan: pre-fire mitigation, immediate fire response, and post-fire rehabilitation.

#### 1. Pre-Fire Mitigation

Working to identify:

- Where wildfire risk is highest
- Where forest and watershed treatments are most needed
- What treatments should be prioritized
- What those treatments may cost

More than \$40 million in risk-reduction treatments have been identified as needed, making this planning an important step toward securing future implementation funding.

## 2. Immediate Fire Response

Partners are developing a coordinated approach for responding when a fire starts.

This includes:

- Identifying roles and responsibilities
- Pre-positioning resources
- Improving communication and contact information
- Planning for difficult fire conditions

The goal is to help agencies act quickly and work together during the critical early stages of a fire.

## 3. Post-Fire Rehabilitation

The project also provides quantitative data on the impacts that can follow wildfire, including:

- Erosion and debris flows
- Damage to roads and water infrastructure
- Watershed and stream impacts
- Sediment and debris
- Restoration needs

---

## Collaborative Partners

Wildfire does not stop at property or agency boundaries. The project brings together partners who manage forests, water, emergency response, and private lands. The work builds on years of forest and watershed restoration already underway in the region. Partners have completed treatments, but previously lacked one coordinated plan covering pre-fire mitigation, fire response, and post-fire recovery.

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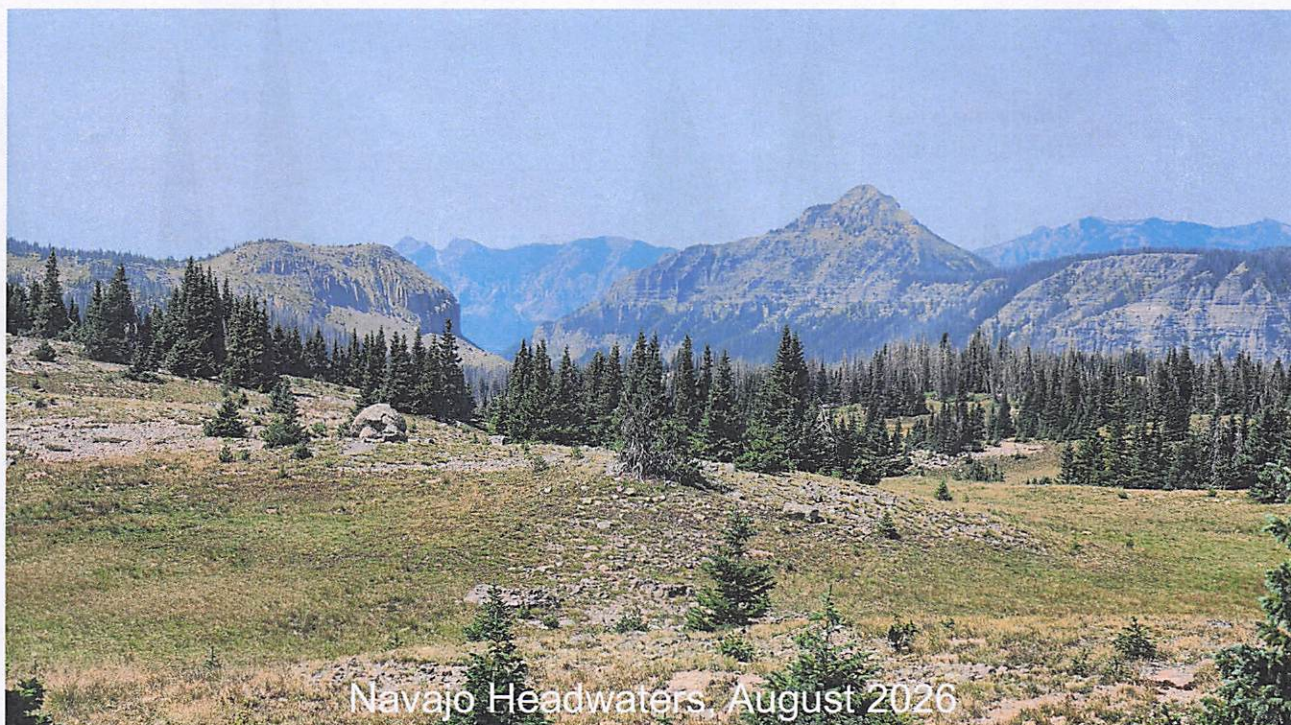
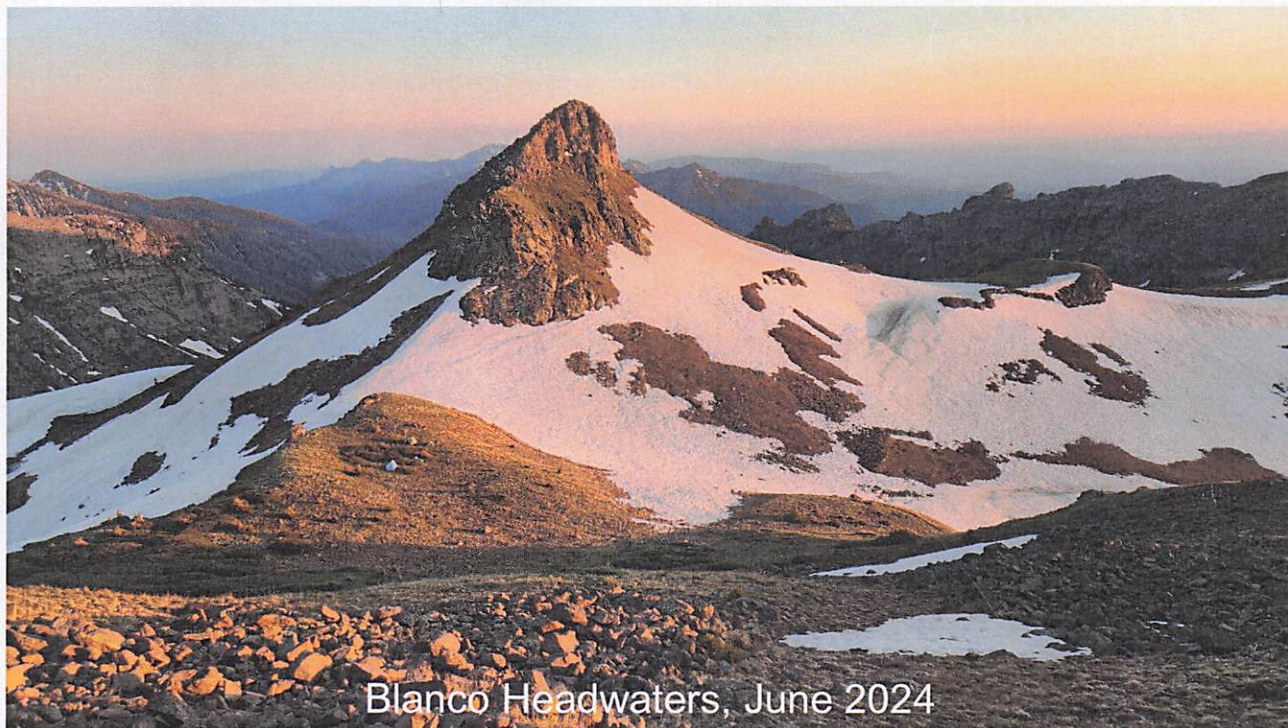
## Anticipated Results

- Wildfire risk reduction: Identify and prioritize the most important mitigation projects.
- Water supply protection: Reduce the potential for wildfire to damage the San Juan–Chama Project and its source watersheds.
- Emergency response improvement: Ensure agencies know what to do and who to contact when a fire starts. Emphasize criticality of SJCP to local emergency response agencies.
- Post-fire recovery preparedness: Prepare for erosion, debris flows, infrastructure damage, and watershed restoration. Identify wetland restoration projects as opportunities to reduce impacts from post-fire events.
- Funding identification: Target funding opportunities for future implementation work.

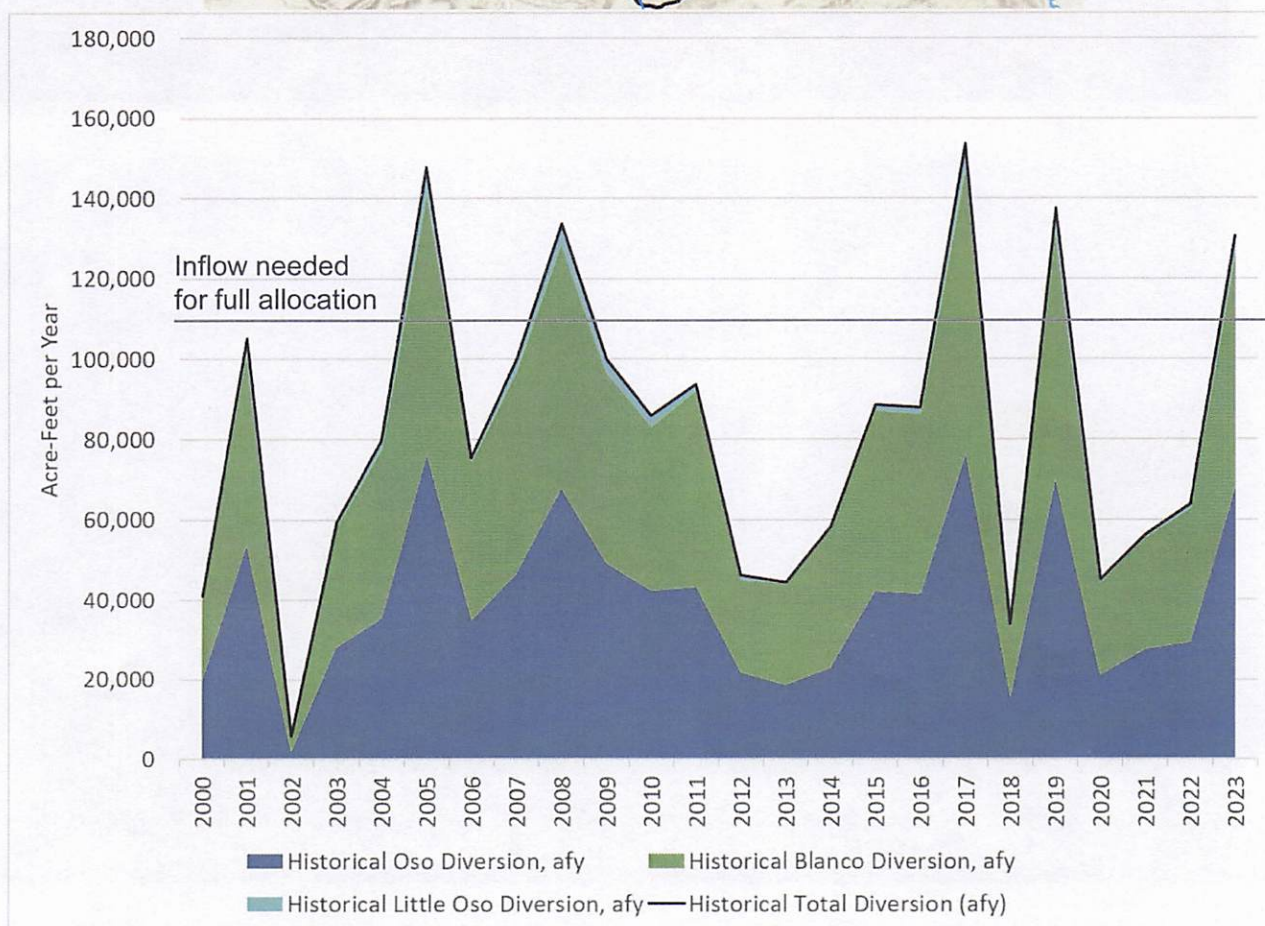
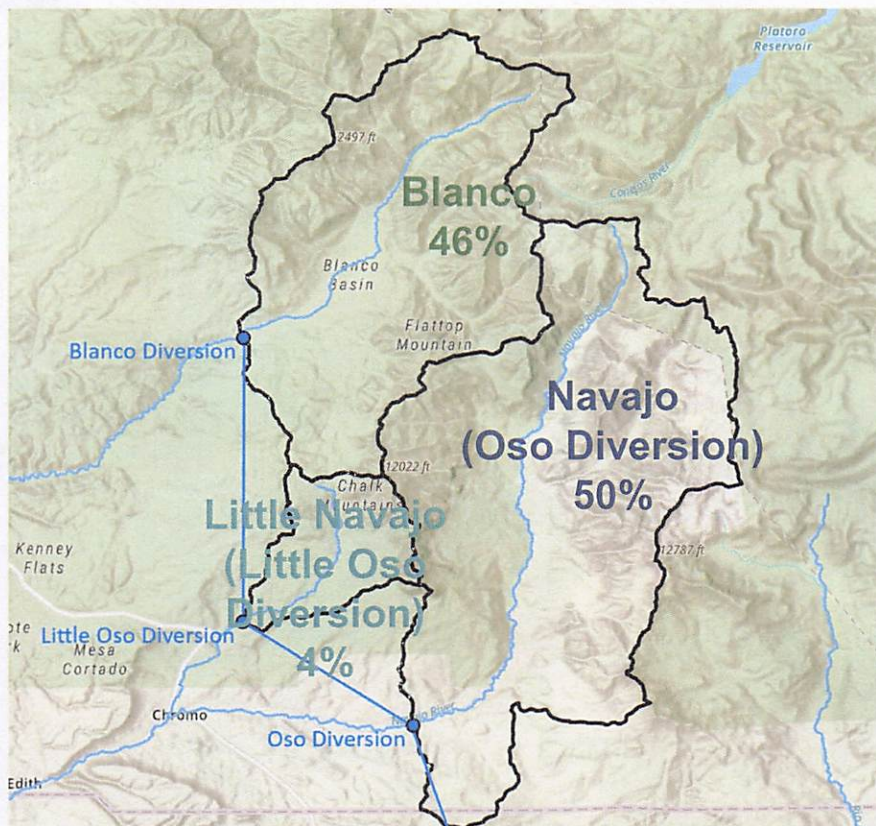
# San Juan-Chama Project Hydrology



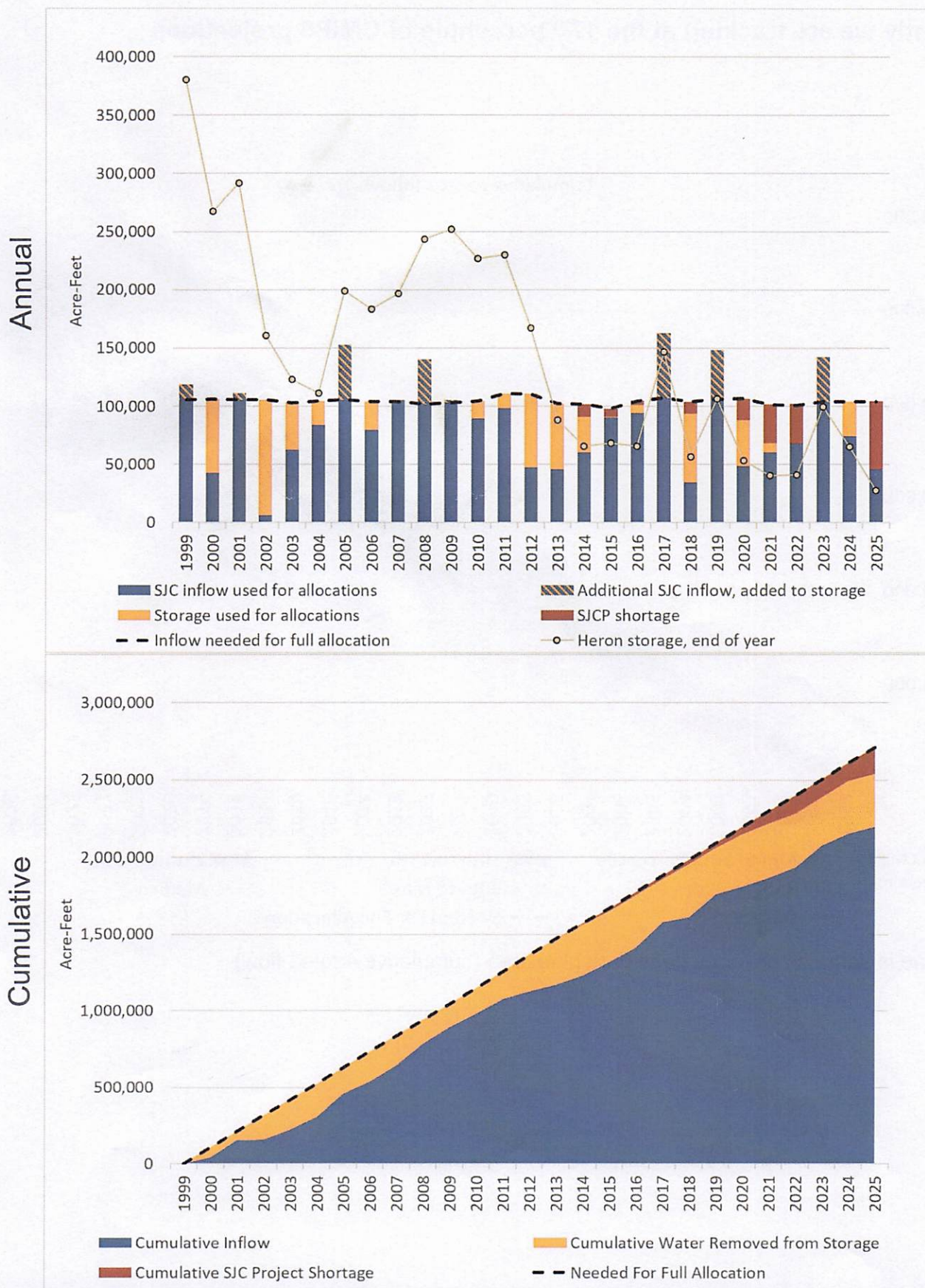
San Juan-Chama Project Contractors Association Field Trip, August 2026



# Azotea Source of Water, by Tributary

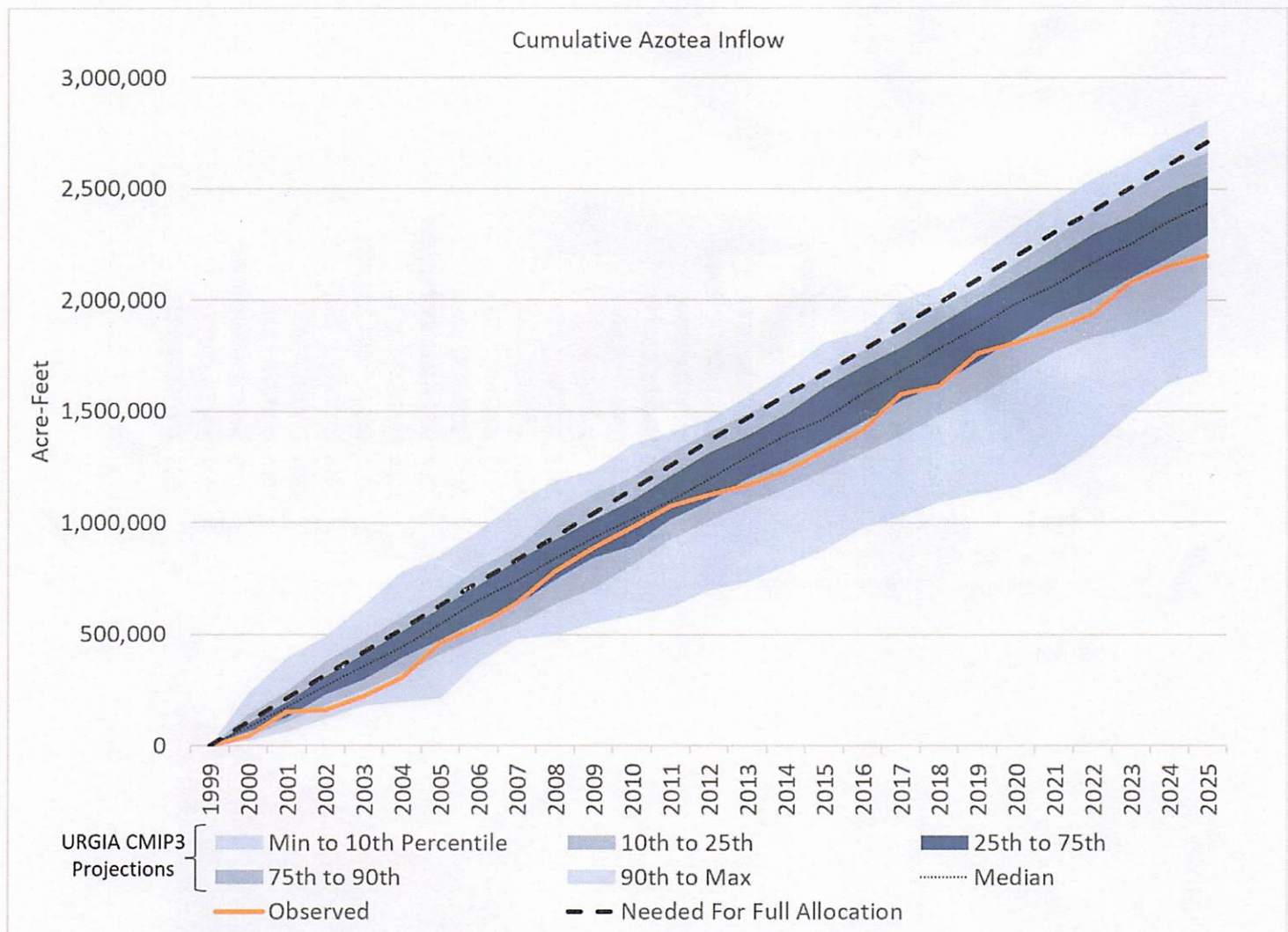


# Recent San Juan-Chama Diversions and Allocations



## How are our most recent planning projections holding up?

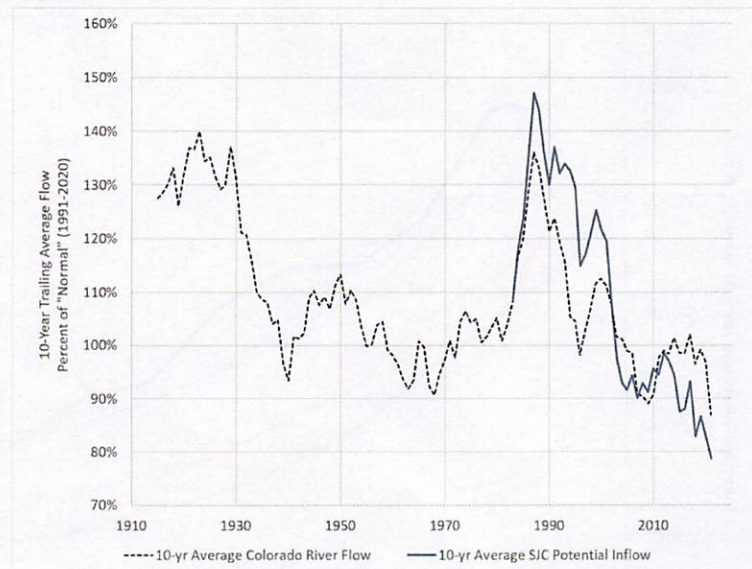
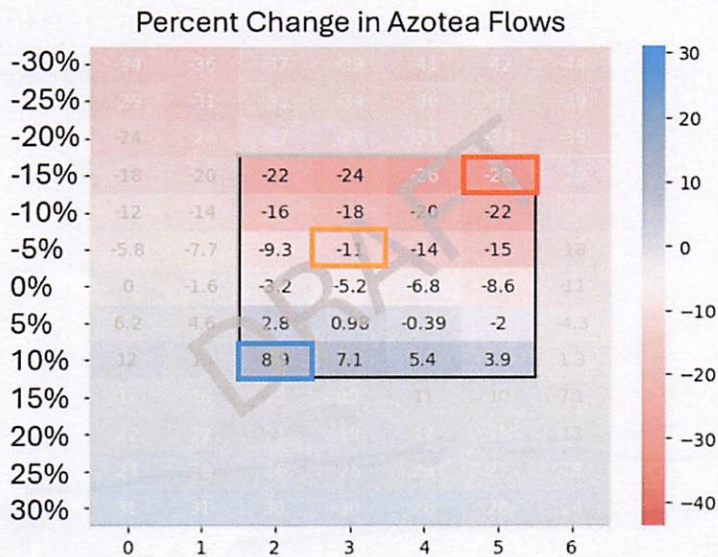
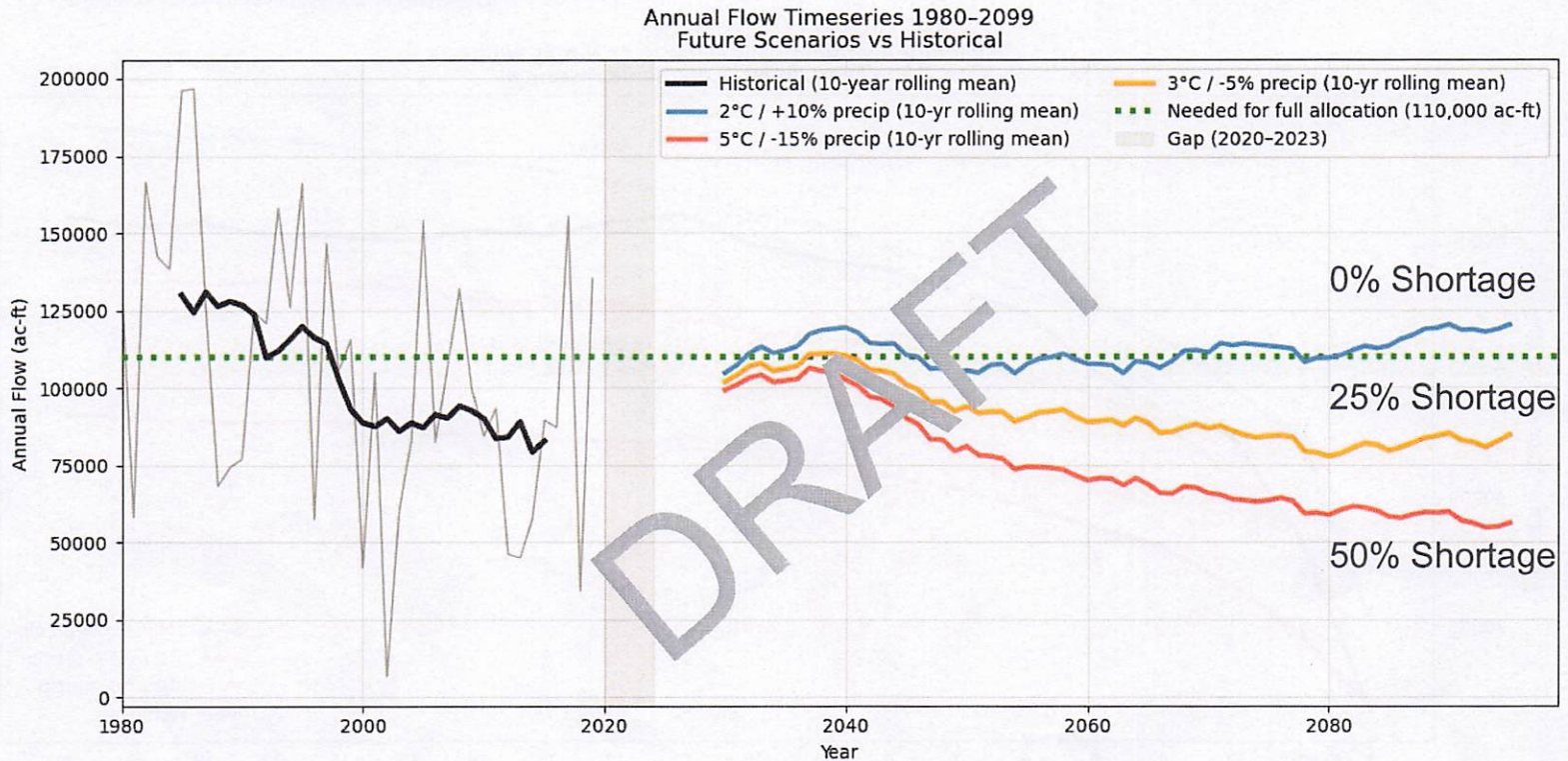
Currently we are tracking at the 17<sup>th</sup> percentile of CMIP3 projections



Orange line is same as previous page dark blue area (cumulative Azotea flow)

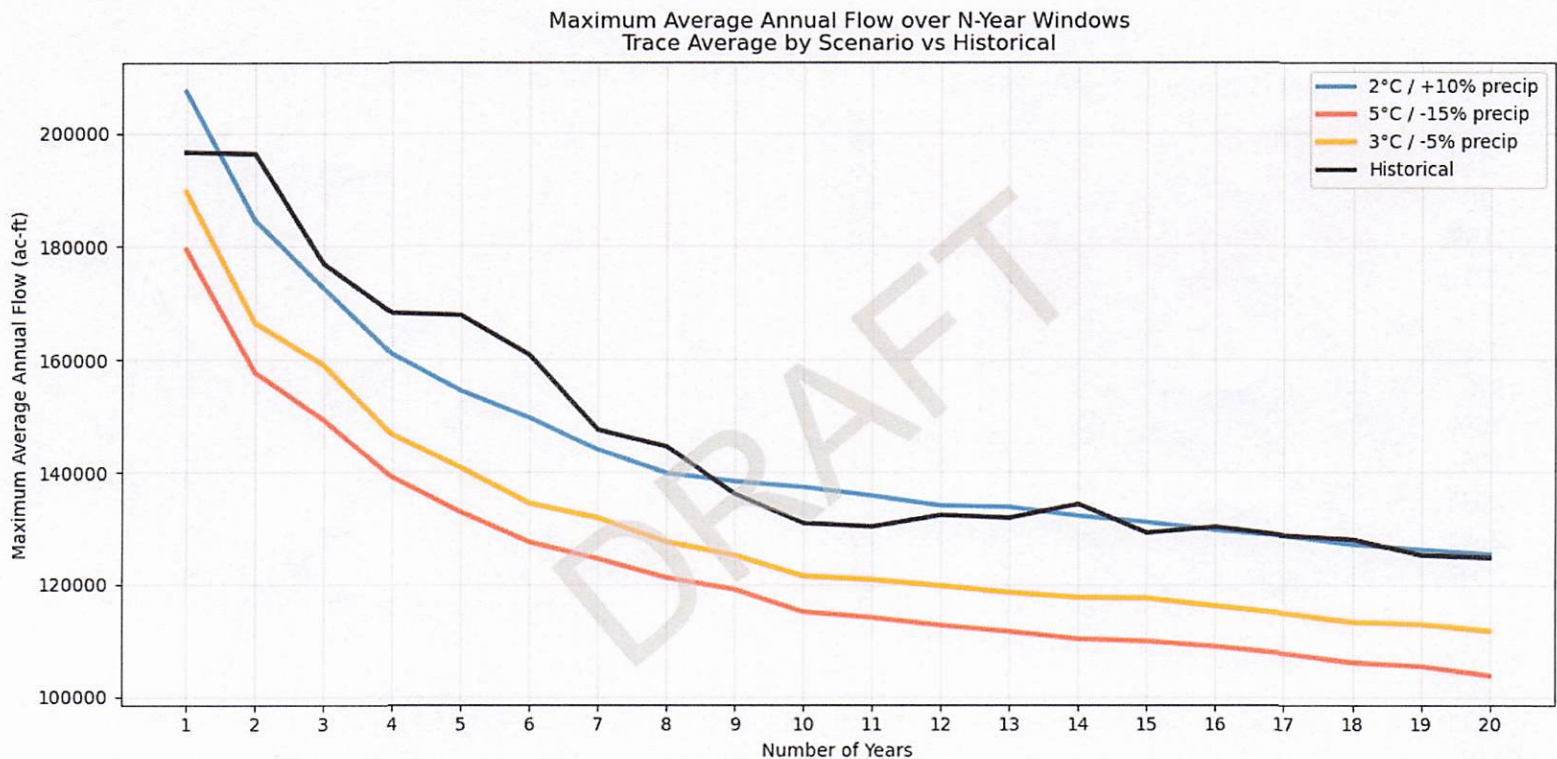
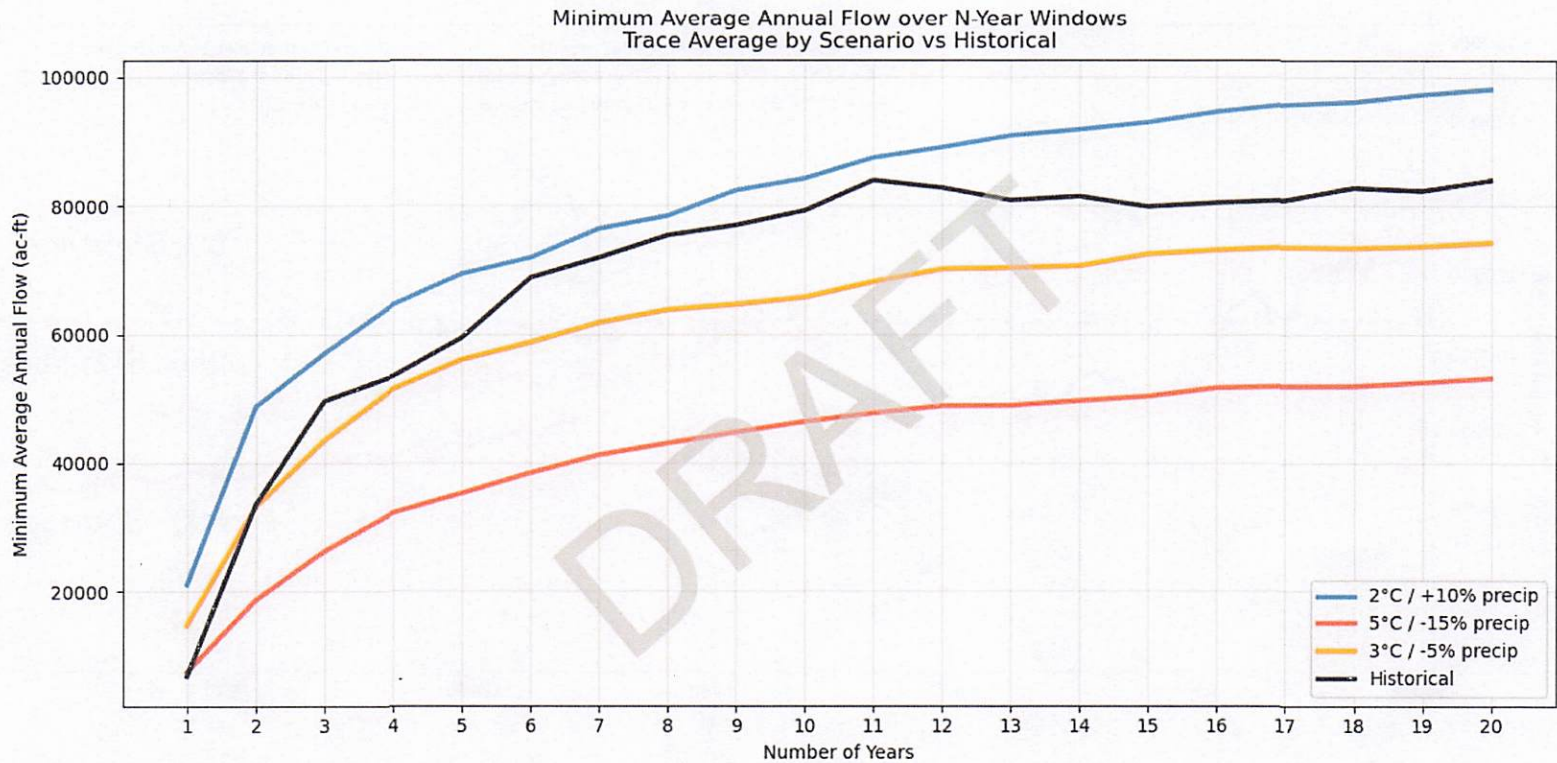
# Current projections and planning ranges

What are the bounds we are considering given the wide range of potential scenarios?



# Climate Hydrology Modeling as part of RGBS

A key component of our focus is comparing projections to historical wet and dry periods of different lengths.



# SJC Diversion Efficiency

## What are the limits on diversions?

- Minimum bypass requirements
  - Downstream flow first priority
  - Enforced daily
  - Rates vary by month

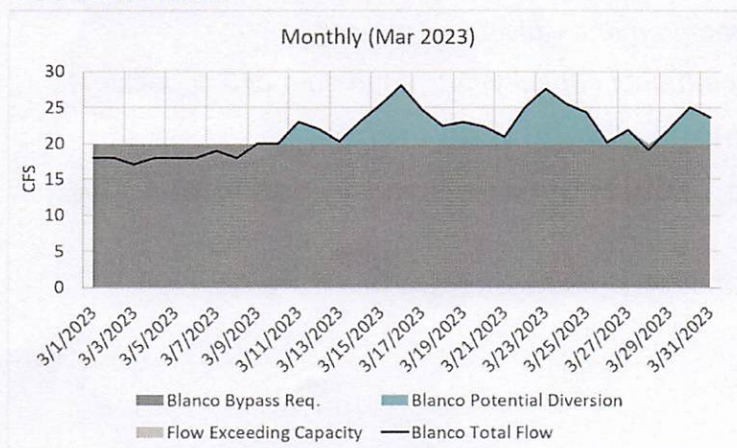
|       | BYPASS FLOW (cfs) |     |            |
|-------|-------------------|-----|------------|
| Month | Blanco            | Oso | Little Oso |
| Jan   | 15                | 30  | 4          |
| Feb   | 15                | 34  | 4          |
| Mar   | 20                | 37  | 4          |
| Apr   | 20                | 37  | 4          |
| May   | 40                | 88  | 27         |
| Jun   | 20                | 55  | 27         |
| Jul   | 20                | 55  | 27         |
| Aug   | 20                | 55  | 27         |
| Sep   | 20                | 55  | 27         |
| Oct   | 20                | 37  | 4          |
| Nov   | 20                | 37  | 4          |
| Dec   | 15                | 37  | 4          |

- Diversion and tunnel capacities

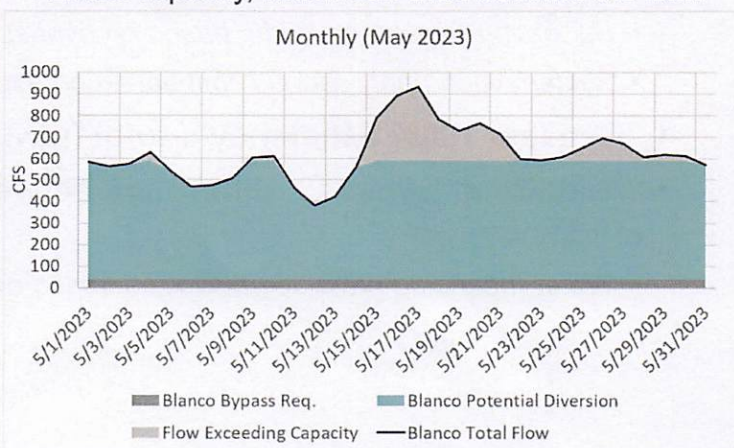
| Max Diversion (capacity), cfs |     |            |        |
|-------------------------------|-----|------------|--------|
| Blanco                        | Oso | Little Oso | Azotea |
| 550                           | 650 | 150        | 950    |

- Examples, “potential diversion”

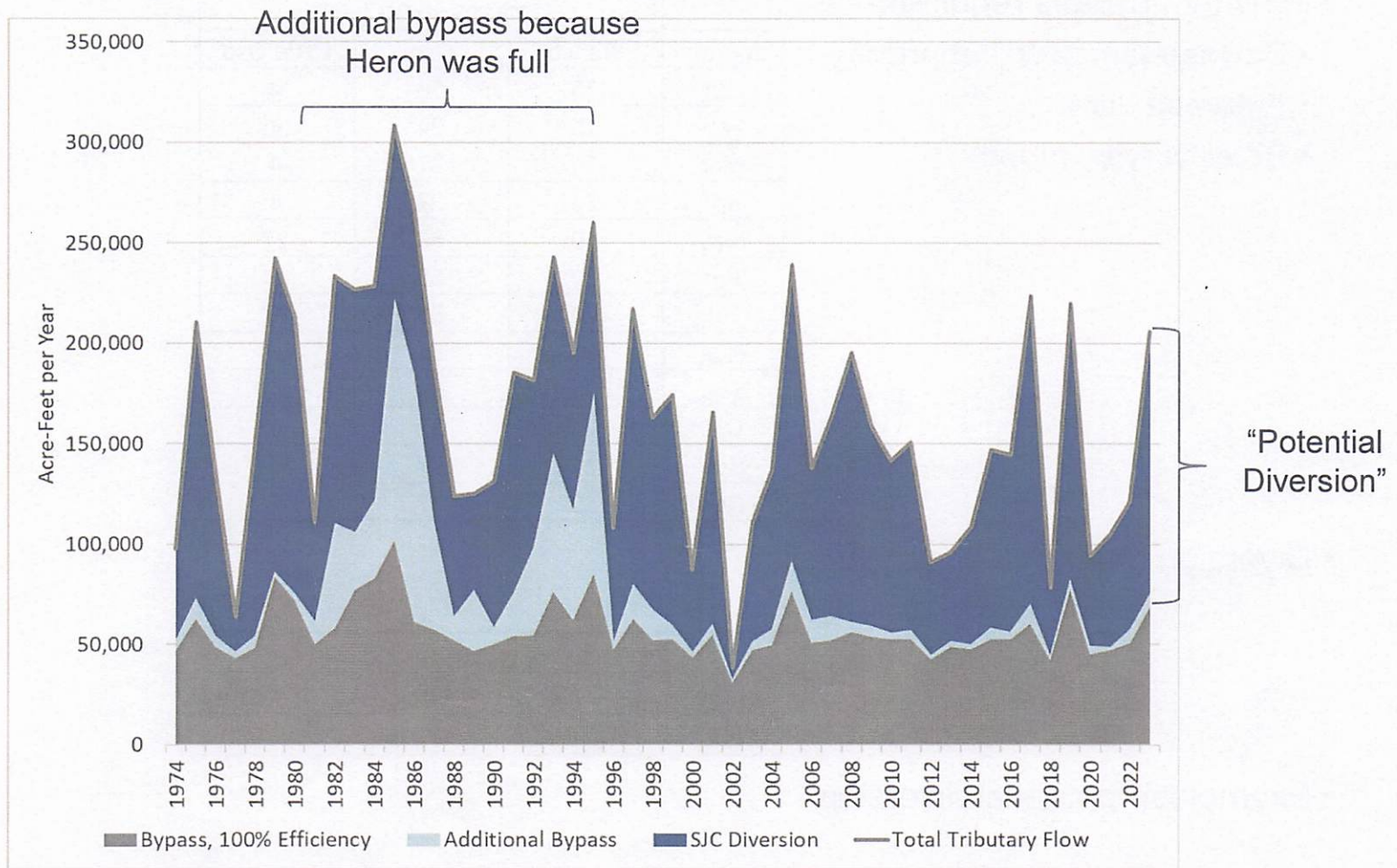
Bottom end limit: bypass requirement for Blanco in March = 20 cfs, anything above that can be diverted.



Top end limit: cannot exceed diversion capacity.  
Note that sum of diversion capacities is greater than Azotea capacity, which can then become the limit



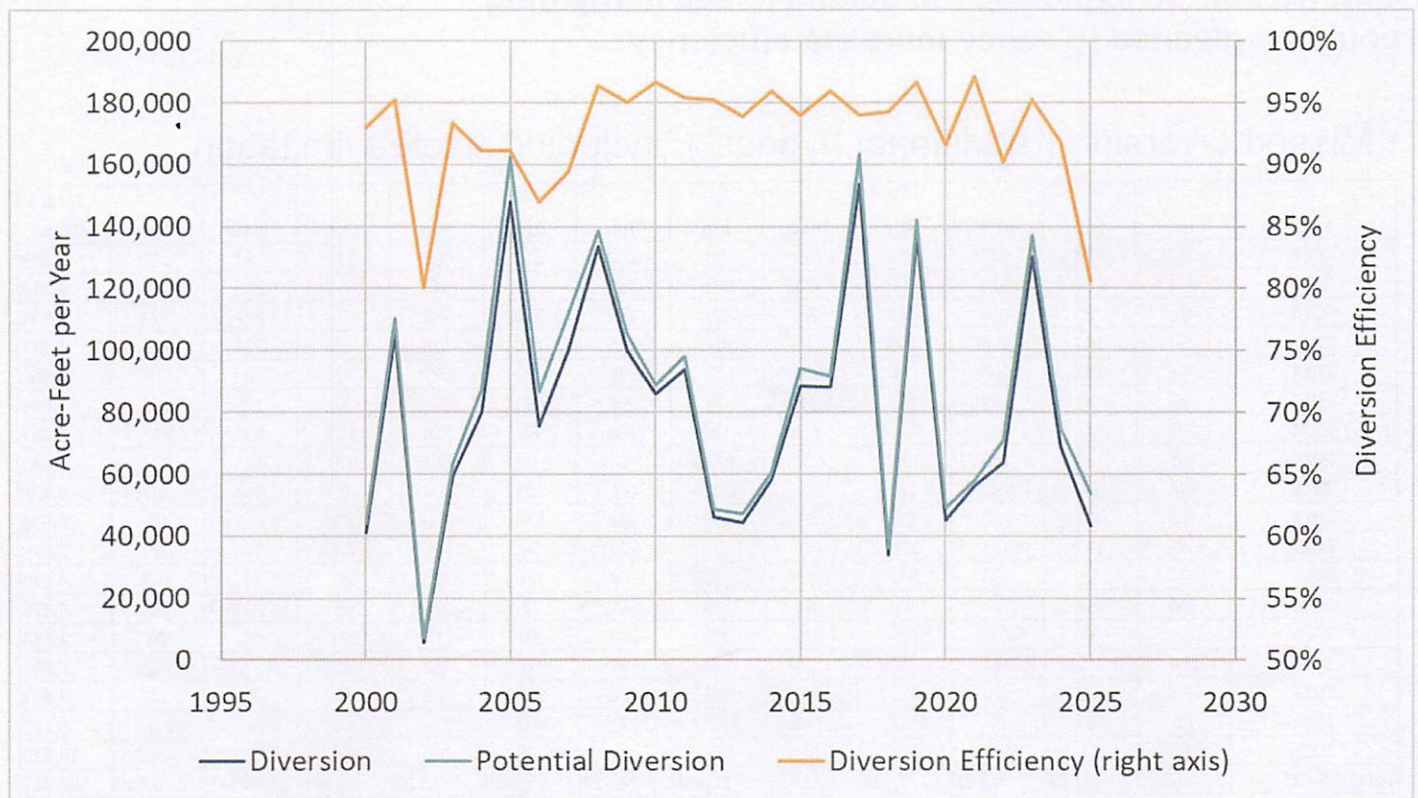
# Historical Tributary Flows, Apportioned to SJC and Bypass



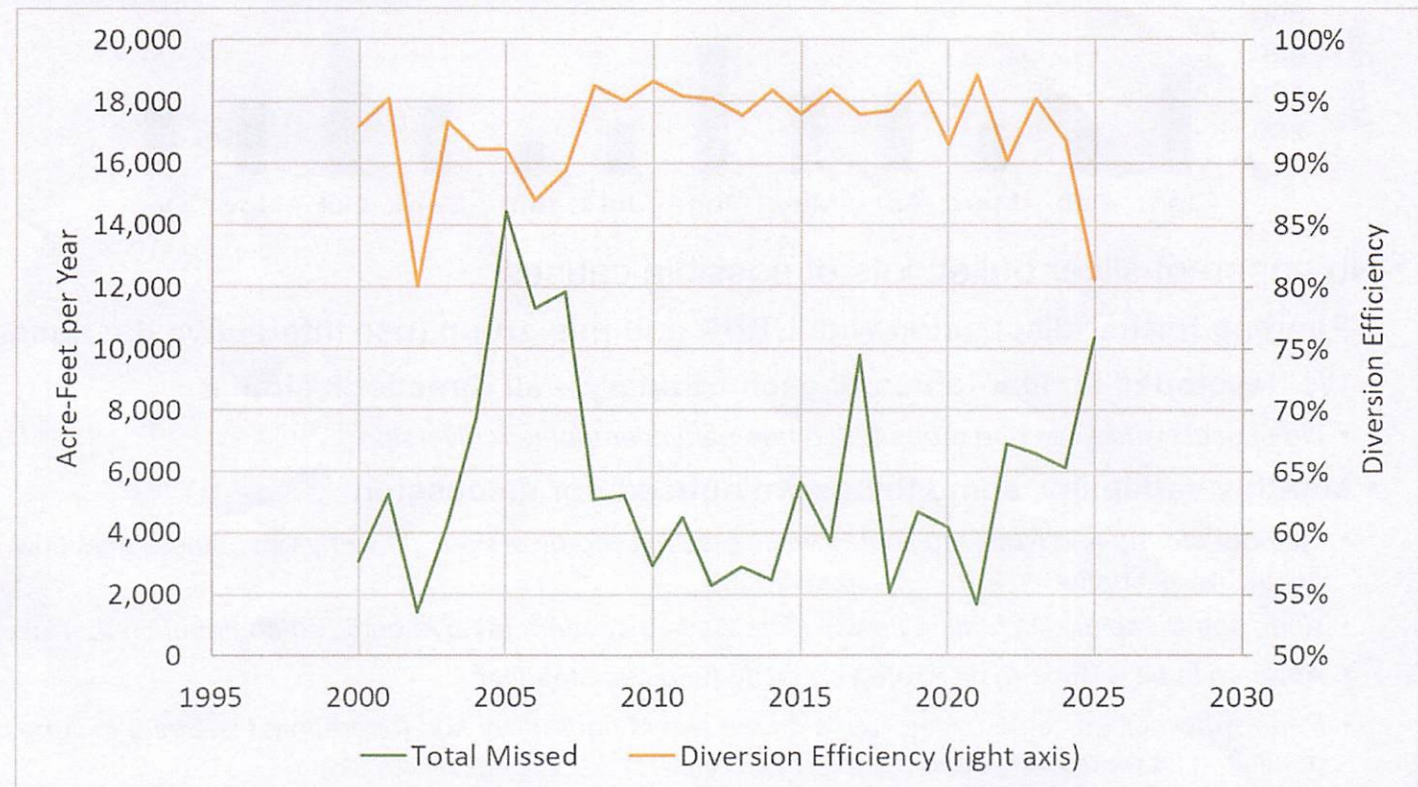
## • Definitions

- **"Potential Diversion":** calculated as per previous page, rolled up annually
  - For each tributary, calculate based on bypass requirement + diversion capacity
  - System-wide apply second limit based on Azotea tunnel capacity (less than sum of 3 capacities)
- **"Bypass, 100% Efficiency":** total flow minus potential diversion
- **"Additional Bypass":** difference between actual bypass and bypass with 100% efficiency
  - Water that could have been diverted based on the rules, but wasn't

## Diversion Efficiency (actual diversion / potential diversion)



## Missed Diversion Volumes



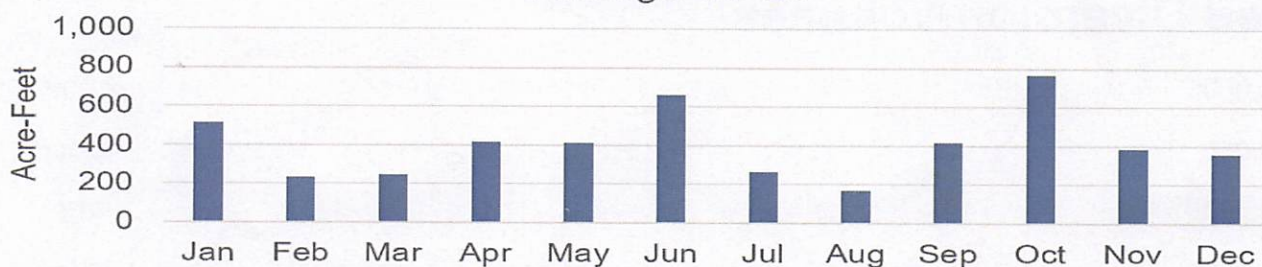
## 95 percent / ~4,000 AFY missed is impressive!

But, we started exploring the details to see if anything could be gleaned to easily increase efficiency

- Missed diversion (“additional bypass”), including Azotea limitation

| Year            | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul   | Aug   | Sep   | Oct    | Nov   | Dec   | Total Missed |
|-----------------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|--------------|
| 2008            | 1,107 | 774   | 627   | 351   | 250   | 30     | 109   | 356   | 396   | 637    | 182   | 250   | 5,069        |
| 2009            | 831   | 462   | 523   | 696   | 424   | 716    | 260   | 5     | 312   | 664    | 296   | 22    | 5,212        |
| 2010            | 97    | 6     | 228   | 419   | 333   | 222    | 133   | 372   | 291   | 425    | 202   | 222   | 2,951        |
| 2011            | 294   | 147   | 398   | 159   | 549   | 420    | 125   | 110   | 615   | 522    | 224   | 964   | 4,527        |
| 2012            | 958   | 198   | 263   | 74    | -46   | 27     | 286   | 56    | 487   | -2     | 0     | 0     | 2,302        |
| 2013            | 50    | 10    | 198   | 197   | -245  | 76     | 294   | 692   | 735   | 87     | 111   | 700   | 2,905        |
| 2014            | 173   | 93    | 79    | 195   | 85    | 111    | 288   | 69    | 574   | 310    | 206   | 272   | 2,457        |
| 2015            | 555   | 133   | 196   | 89    | 422   | 2,193  | -54   | -25   | 884   | 629    | 401   | 224   | 5,648        |
| 2016            | 444   | 630   | 162   | 123   | 21    | 1,029  | -22   | 203   | 107   | 189    | 444   | 397   | 3,728        |
| 2017            | 750   | 462   | 139   | 463   | 1,111 | 950    | 381   | 234   | 999   | 3,312  | 932   | 98    | 9,830        |
| 2018            | 343   | 172   | 121   | 276   | 80    | 178    | 302   | -8    | -13   | 570    | 54    | 2     | 2,078        |
| 2019            | 0     | 12    | 198   | 872   | 633   | 2,306  | 264   | 116   | 113   | 20     | -7    | 167   | 4,693        |
| 2020            | 206   | 158   | 36    | 540   | 161   | 313    | 1,451 | -7    | 236   | 69     | 950   | 61    | 4,175        |
| 2021            | 36    | 87    | 205   | 629   | 18    | 212    | 184   | 16    | -15   | 271    | -4    | 26    | 1,665        |
| 2022            | 894   | 417   | 774   | 692   | 126   | 322    | 198   | 95    | 410   | 1,029  | 1,011 | 933   | 6,901        |
| 2023            | 367   | 228   | 85    | 653   | 3,160 | 960    | 278   | 390   | 426   | 48     | 0     | 10    | 6,603        |
| 2024            | 69    | 153   | 69    | 558   | 370   | 1,472  | 272   | 357   | 213   | 1,038  | 951   | 615   | 6,137        |
| 2025            | 2,062 | 88    | 191   | 548   | -35   | 350    | 3     | -8    | 748   | 3,961  | 993   | 1,477 | 10,379       |
| Total '08-'25   | 9,235 | 4,229 | 4,491 | 7,535 | 7,416 | 11,888 | 4,752 | 3,025 | 7,520 | 13,781 | 6,947 | 6,440 | 87,261       |
| Average '08-'25 | 513   | 235   | 250   | 419   | 412   | 660    | 264   | 168   | 418   | 766    | 386   | 358   |              |

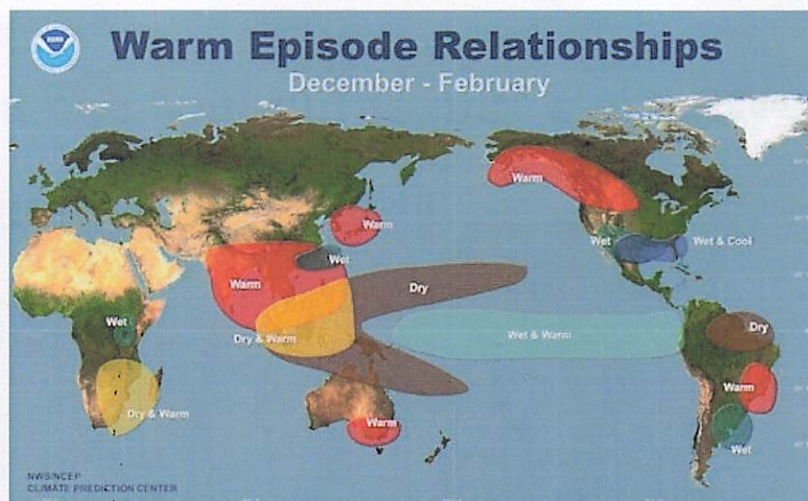
Average '08-'25



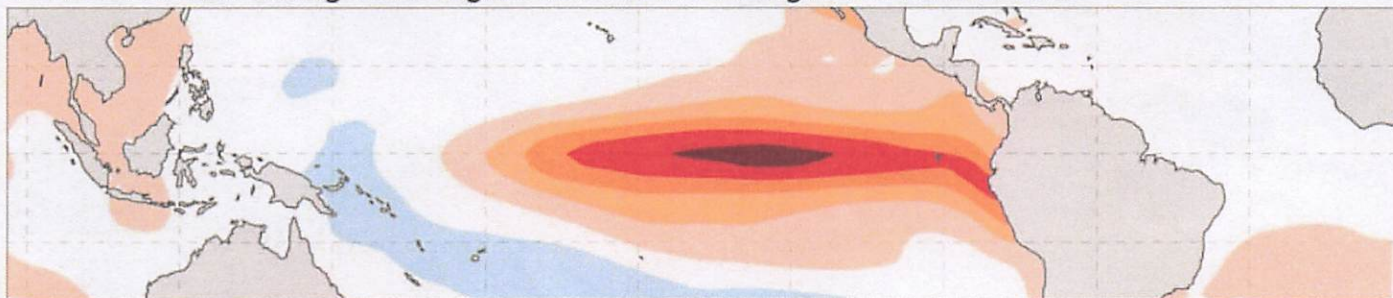
- No apparent silver bullet: lots of possible causes
  - Pending further discussion with USBR and this group (use interactive dashboard)
  - We developed similar tables of each tributary – all three look similar
    - No spatial trend / can't be attributed to one particular tributary diversion
  - Monthly variability, some things we noticed, for discussion
    - October storms and Nov-Dec shutdowns cause missed diversions (in wet years; other years flow is below bypass requirement)
    - April: due to rapidly fluctuating flows? Little Navajo appears to have outsized contribution to missed
    - Appears to be difficult to hit Azotea capacity (950 cfs) steadily?
    - Peak snowmelt: in some cases, just a day or two of underdiversion (operational issues?) in June can result in a lot of missed water

# What is El Niño

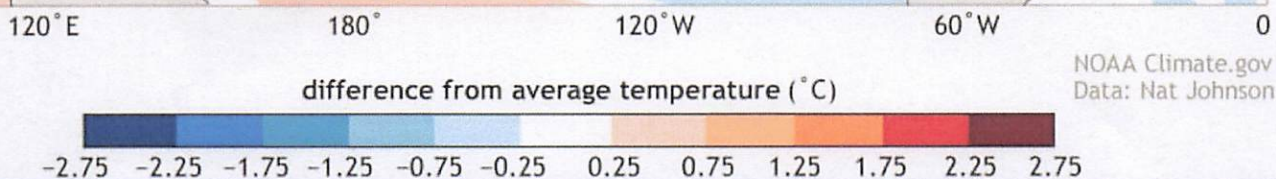
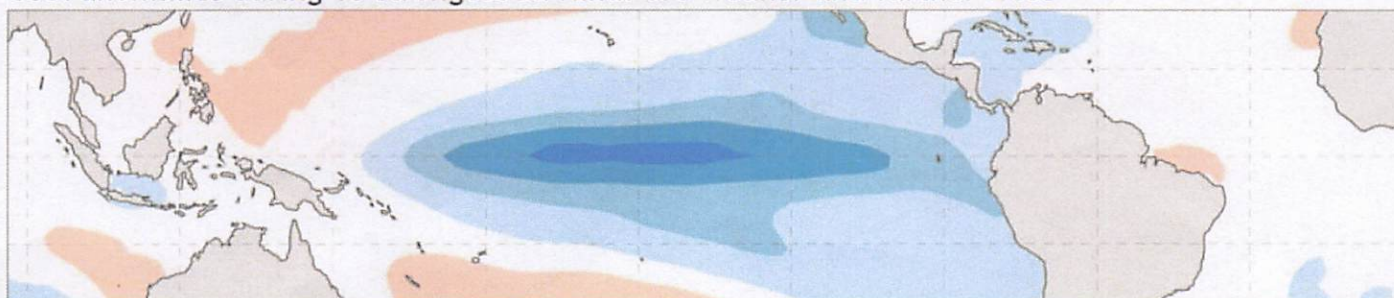
El Niño is the warmer half of a climate pattern that can affect weather worldwide. It is measured by examining the ocean temperature anomalies in the Pacific.



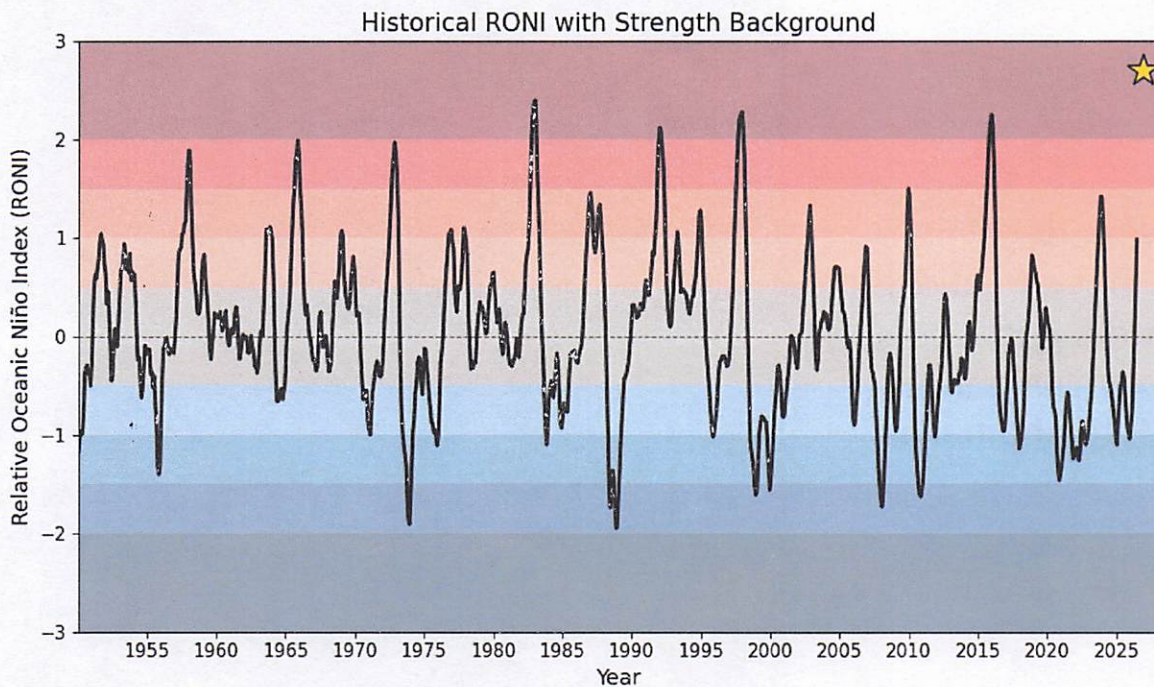
Warm anomalies during 10 strongest El Niños are stronger and farther east



Cool anomalies during 10 strongest La Niñas are weaker and farther west



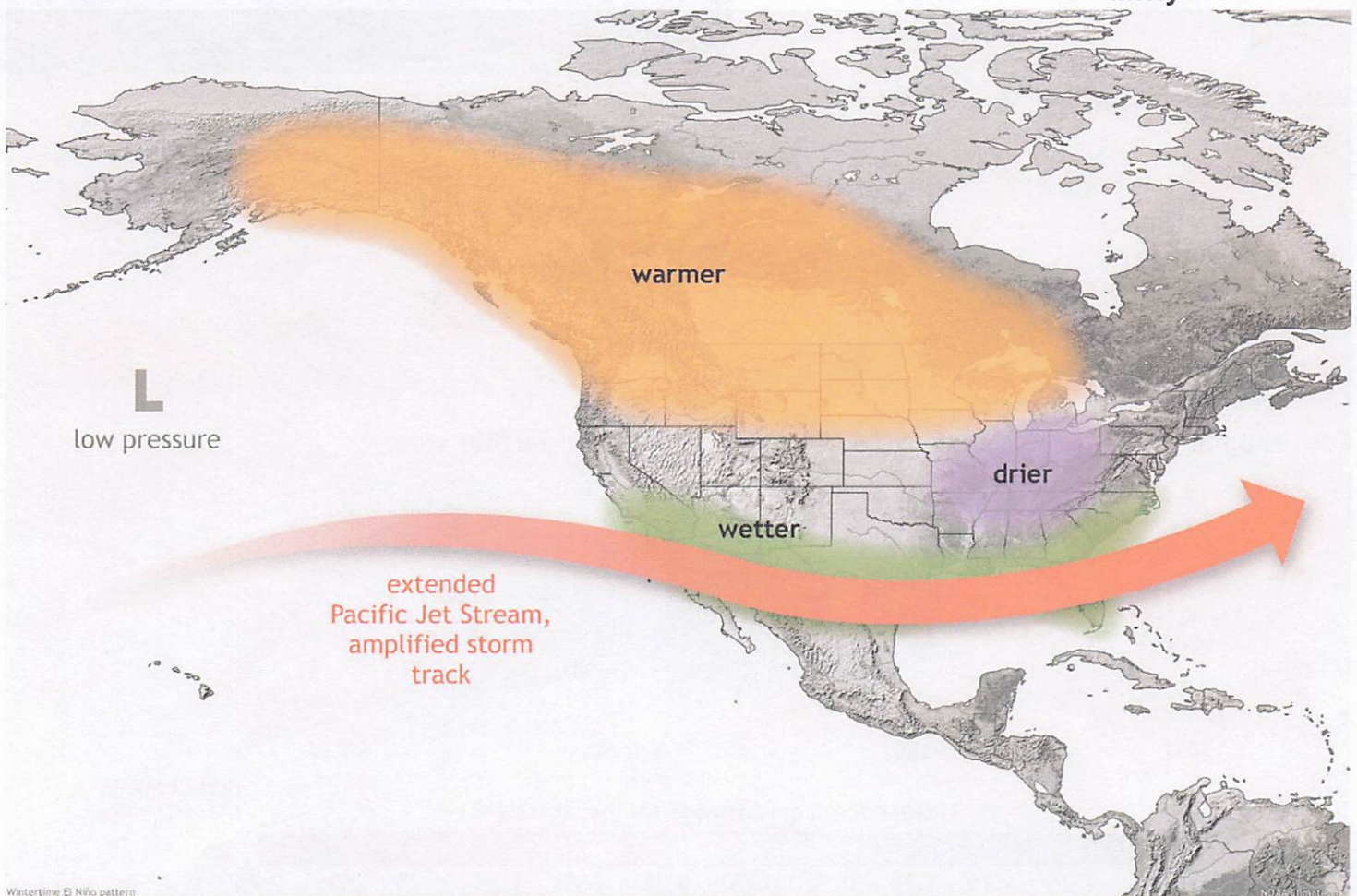
# What is a "Super El Niño" and how does it affect us?



Current RONI forecast peak, strongest since at least 1950

| Strength            |  |
|---------------------|--|
| Very Strong El Niño |  |
| Strong El Niño      |  |
| Moderate El Niño    |  |
| Weak El Niño        |  |
| Neutral             |  |
| Weak La Niña        |  |
| Moderate La Niña    |  |
| Strong La Niña      |  |
| Very Strong La Niña |  |

**Note: Stronger El Niño's do not always correspond to stronger impacts, they just make the impacts more likely**



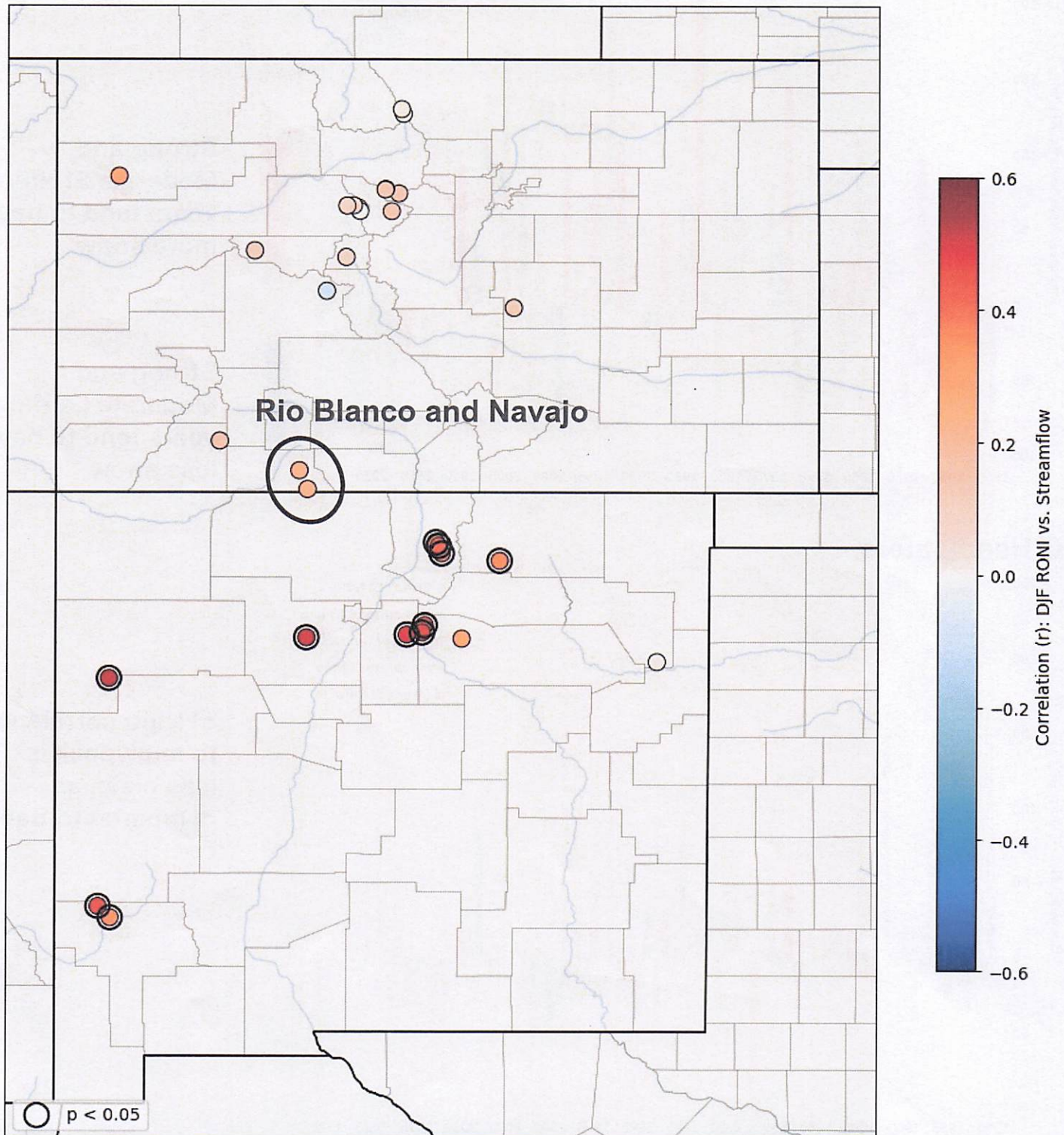
Wintertime El Niño pattern



# Correlation of wintertime RONI and Streamflow

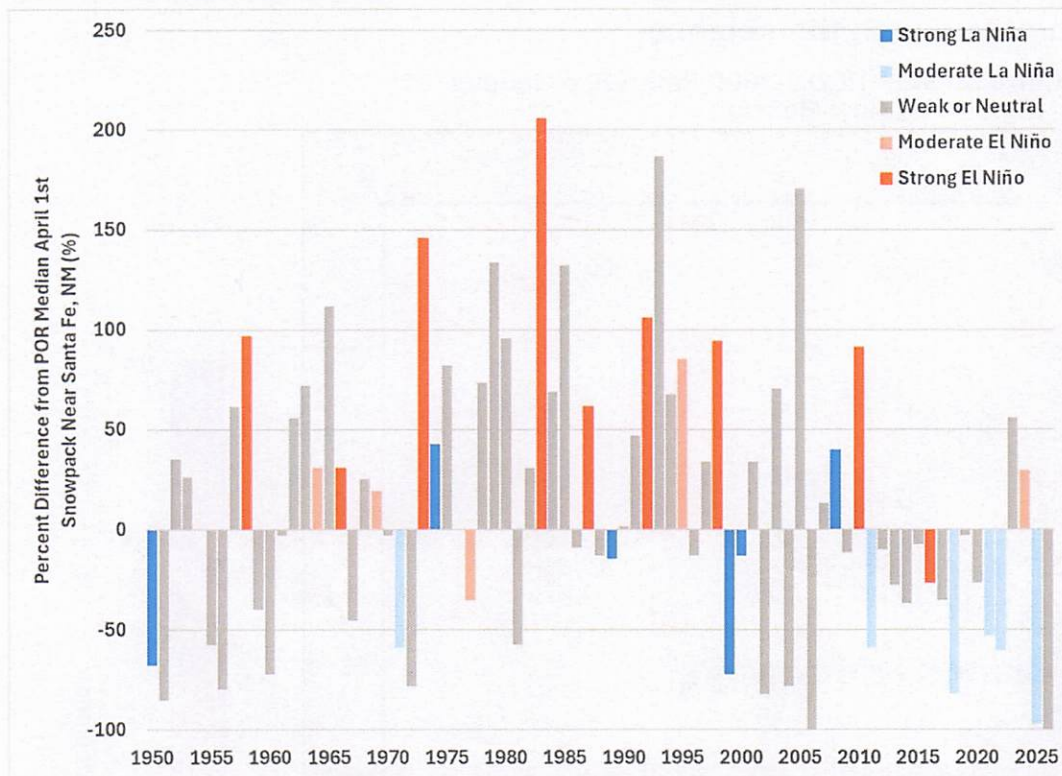
Statistically significant moderate to strong correlations are limited to New Mexico. Colorado shows very little correlation, which is consistent with the science.

ENSO-Streamflow Correlation at HCDN-2009 Reference Gauges  
Colorado / New Mexico



# Correlation of wintertime RONI and Snowpack

## Santa Fe Watershed

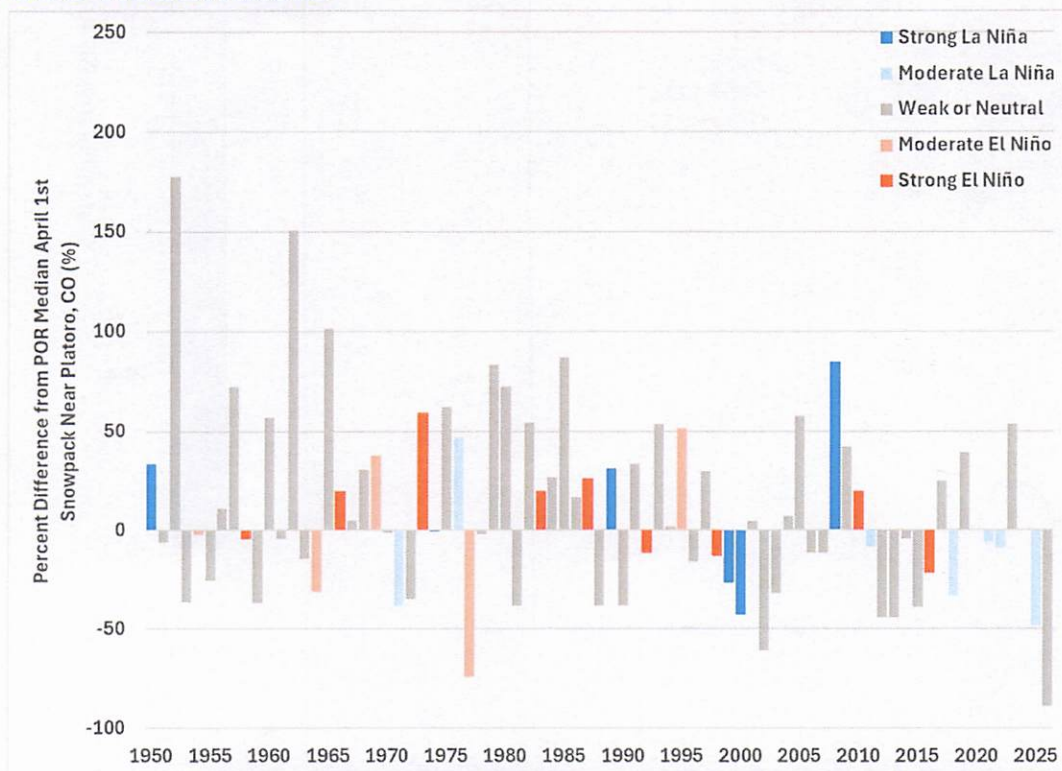


Strong and Moderate El Niño years tend to have more snow



Strong and Moderate La Niña years tend to have less snow

## SJC Headwaters



El Niño correlation to snowpack is less clear, as compared to Santa Fe