

Minutes of the Board Meeting of the  
**TRUCKEE-CARSON IRRIGATION DISTRICT**  
 Special Session Board Meeting Minutes  
**March 8, 2022**

The Board of Directors of the Truckee-Carson Irrigation District, in the counties of Churchill and Lyon, State of Nevada, met in special session at the Office of the District, 2666 Harrigan Road, Fallon, Nevada, on **Tuesday, March 8, 2022** at 9:00 a.m.

The following Directors were present constituting a quorum:

Present:	Eric Olsen	President
	David Stix Jr.	Vice-President
	Robert Oakden	Secretary
	Lester deBraga	Treasurer
	Joseph Gomes	Director
	Abrahm Schank	Director
	Wade Workman	Director
Others Present:	Rusty Jardine	General Manager
	Helen-Marie Morrow	Finance Manager
	Kelly Herwick	District Water Master
	Cody Biggs	Construction/Maintenance Manager
	Mark Solinski	Hydroelectric Manager
	Mike Adams	Systems & Technologies Manager
	Michele Wisnefski	Assistant Secretary to the Board

<b>Teleconference/Zoom Guests</b>	<b>Representing</b>
Laurie Nicholas	Bureau of Reclamation
Jason Villarreal	Bureau of Reclamation
Robert Owen	Bureau of Reclamation
Dan Lahde	Bureau of Reclamation
Bethany Chagnon	US Fish & Wildlife Service
Ann Schofield	Naval Air Station, Fallon
Adrena Cohen	Naval Air Station, Fallon
Mike Zharadka	Nevada Department of Wildlife
Isaac Metcalf	Nevada Department of Wildlife
Chris Bardsley	National Weather Service, Reno
Chris Smallcomb	National Weather Service, Reno
Leanna Hale	Fallon Paiute Shoshone Tribe
Rachel Dahl	The Fallon Post

<b>In-Person Guests</b>	<b>Representing</b>
Jack Worsley	Bureau of Reclamation
Robert Martinez	Bureau of Reclamation
Jacob Ward	Nevada Department of Wildlife
Dave Wathen	Federal Water Master
Nancy Upham	CC Mosquito, Vector & Noxious Weed

	Abatement District
J.D. McKay	CC Mosquito, Vector & Noxious Weed Abatement District
Ben Matley	Water User
Don Hesselgesser	Water User
Ben Shawcroft	Self
Chris Rogne	E.H. Hursh, Inc.

The following agenda items are not necessarily in the order they were heard or decided but in the order as appearing on the agenda.

**1. Call to Order**

President Olsen called the meeting to order in accordance with NRS 241 at 9:05 a.m.

**2. Pledge of Allegiance**

The Pledge of Allegiance was led by Joseph Gomes, Director.

**3. Approval of the Agenda**

**A motion was made by Vice President Stix to adopt the agenda as presented, seconded by Secretary Oakden, request for comment and the motion was unanimously approved.**

**4. General Public Comment**

There was no public comment.

**5. Resolution No. 2022-02 Providing for a Change in the Schedule of Regular Monthly Meetings Held by the Board of Directors for the Truckee-Carson Irrigation District**

Deliberation was had relating to approval/denial of Resolution No. 2022-02, providing change to the schedule of regular meetings conducted by the Board of Directors. The schedule, as changed, will allow for conducting the regular meeting of the Board held in March of each year on the second Tuesday of the Month. All other regular meetings conducted in all other months shall continue being conducted on the first Tuesday of each month. All regular meetings will be conducted at the Office of the Truckee-Carson Irrigation District located at 2666 Harrigan Road, Fallon, Nevada. All regular meetings conducted at the Office commence at 9:00 a.m. and are open to the public.

**A motion was made by Vice President Stix to approve Resolution 2022-02, seconded by Director Gomes, request for comment and the motion was unanimously approved.**

**6. Determination of 2022 Water Supply and Approval of 2022 Water Delivery Rules**

Deliberation relating to determination of the available water supply or allocation for the Newlands Federal Reclamation Project, Nevada, for water season 2022 and approval of water delivery rules, including, without limitation, setting of the water season start date, end date, dates upon which to commence water ordering and scheduling, and setting of dates, times, places, and format for the 2022 water user annual meeting(s), and setting of any limitations of use or uses imposed upon Newlands Project facilities, such as the

Truckee Canal -as a result of improvements to be made thereto commencing in October of 2022, or at other times and places, during the 2022 water season.

- Kelly Herwick, District Water Master, provided a presentation detailing current conditions, forecasts and District operations as outlined per Exhibit A.
- Chris Smallcomb, Warning Coordination Meteorologist, PIO, National Weather Service provided a presentation to the Board as outlined provided per Exhibit B.
- Tim Bardsley, Senior Service Hydrologist, National Weather Service provided a presentation to the Board as outlined per Exhibit C.
- Dave Wathen, Hydrologist, US District Court Federal Water Master provided a presentation to the Board as outlined per Exhibit D.

Highlights of presentations included the following:

- Exceptionally wet October and December.
- Historically dry January and February.
- Drier weather forecasted for March.
- Soil moisture is still above average and better than 2021 (record low soil moisture for the Carson basin) and 2013 (near median).
- Soil moisture more favorable compared to last year resulting in more efficient runoff.
- Carson and Truckee snowpack similar to 2013 for this date; below median.
- Late winter warm periods have melted snowpack.
- Snow Water Equivalent (SWE) in the Carson Basin currently at 75% of median.
- Carson River runoff at Fort Churchill in 2022 forecasted to be 80,000 acre feet.
- Water supply exceedance values (percentage that a given value will be equaled or exceeded) of 70% (drier) expected per Herwick.
- Lake Tahoe rim control (no storage release to meet demand) expected in late July to mid-August per Wathen – based on 50% forecast.
- Expect to meet Floriston Rate demand in the Truckee River until early November per Wathen – based on 50% forecast.

Discussion had by the Board included the following:

- Start of water season, March 15 or April 15 in Carson Division, considering water demand based on soil type and crops planted in Lahontan Valley (i.e. winter grain).
- Efficiency relative to starting the irrigation season; flushing and charging system, minimum orders, starting and stopping water from Lahontan Reservoir (reduced efficiency).
- Review of the 2021 irrigation water season: reliance on 50% exceedance value when establishing water allocation, allocation set at 90% (“high”) start irrigation season; “panic” ordering when water allocation reduced to 70%; no set date for end of season, water season ended in August (versus October for a 70% year) and; high water demand for corn.
- Truckee Canal shutdown required in October to initiate the Extraordinary Maintenance (XM) Project.
- Upper Carson River water use monitoring; Truckee River diversions and storage.

**A motion was made by Vice President Stix to set the annual water allocation for the Carson Division at 70% and accept water orders starting March 15<sup>th</sup>; and set**

the annual water allocation for the Truckee Division at 90% and accept water orders starting April 15<sup>th</sup>, with no end of irrigation season established, seconded by Secretary Oakden, request for comment and the motion was unanimously approved.

Leanna Hale, Land & Water Manager, Fallon Paiute Shoshone Tribe concurred with start of water season and allocation as determined by the Board.

**7. Policy of Insurance for the District's New Lahontan Power Plant**

Deliberation relating to approval/denial of a policy of insurance coverage for the District's New Lahontan Power Plant located at Lahontan Dam in Churchill County, Nevada, by ACE American. Approval of a policy, including cost, policy limits, exclusions, business interruption coverage, and/or other conditions, will also include, and be made subject to, a determination of a replacement value and/or anticipated construction costs for a power plant facility by reference to the Handy Whitman Index, the facility's original cost of construction, and/or other factors.

Chris Rogne, President/Insurance Agent at E.H. Hursh, Inc. presented to the Board the following:

- Current "all risk" coverage for New Lahontan Power Plant is \$8 million with a premium cost of \$60,100. "All risk" coverage excludes flood and earthquake.
- Recommendation to increase coverage to \$10.16 million with a premium cost of \$73,645; however, cost increase can be measured increase over three to five years.
- Last increase in coverage occurred in 2014.
- An on-site inspection has been ordered for value determination.

**A motion was made by Treasurer deBraga to approve a policy for insurance coverage at the current coverage level of \$8 million, seconded by Director Schank, request for comment and the motion was unanimously approved.**

**8. Additional Public Comment**

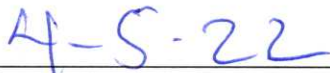
No additional public comment.

**9. Adjournment**

The meeting was adjourned subject to the call of the Board President at 11:07 a.m.



Eric Olsen - President



Date



Robert Oakden - Secretary



Date



# Truckee-Carson Irrigation District

## Newlands Project

**EXHIBIT**      **A**

3/08/2022

### SPECIAL BOARD MEETING

#### CURRENT CONDITIONS:

- **Truckee Div.**
  - Truckee River @ Vista gauge: 456cfs
  - Truckee Canal: 333cfs
    - <1cfs in Gilpen Spill
    - 333cfs at TC canal at Wadsworth
    - Water Master "Derby flow Target": 40.5cfs
    - Below Derby Gauge: 57cfs
    - 317cfs at TC canal at Hazen
- **Carson Div.**
  - Carson River @ Ft. Churchill gauge: 253cfs
  - Lahontan Storage: 114,300 a.f. / prev. 02/01/2022 @ 85,097 a.f. ; Diff. +29,203 a.f.
  - Release below Lahontan: <1cfs
  - Total Inflows: 570cfs/ approx. 1128 a.f. at 24hrs
  - Month End Storage target: 222,500 af/ would require approx. 86,500 af of Diversions
    - This is greater than the amount of water available for diversion from the Truckee River.

BOARD OF DIRECTORS  
Eric Olsen, President  
David Stix, Jr., Vice-President  
Bob Oakden, Secretary  
Lester deBraga, Director/Treasurer  
Abraham Schank, Director  
Joseph Gomes, Director  
Wade Workman, Director  
Rusty D. Jardine, Esq., District Manager &  
General Counsel

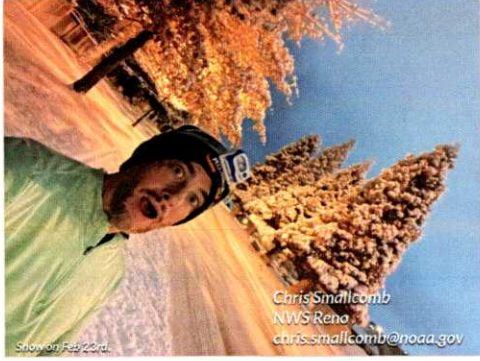
#### DISTRICT STATUS: Forecasting

- February, 2021 TROA outlook : Reservoir End of Month values
  - FEB-2022
    - Projected 113,690/ actual 106,769; Accuracy at 93.9%
  - MAR-2022
    - 160,702 a.f. end of month storage (this will require an avg. inflow of 865cfs)
      - Current inflow 570cfs; is less than forecasted in TROA models & is an indicator that actual flows are performing less than the 50% exceedance.
- Additional Information:
  - *TC canal using historical Inflow data*
    - Mar thru Sep: approx. 58,675 a.f.
  - *Using current Lake Storage: 114,300 a.f.*
  - *These combined: approx. 172,975 a.f.*
    - *Now add a forecasted Exceedance value based on all the information presented*
      - $172,975 + 80,000(\text{Apr-Jul } 50\%) - 4,000(\text{min pool}) - 14,000(\text{evap/loss Lake}) = 234,975 / 298,900(\text{max. allowable diversions } 100\%) = 78\% \text{ allocation}$
- March 1, 2022 Water Supply Outlook Report
  - **Carson R @ Ft Churchill – Mar-Jul**
    - 70% exceedance : 48kaf
    - 50% exceedance : 95kaf
    - 30% exceedance : 142kaf
      - *March has been very dry & with very little precipitation; this may be another indicator the Mar-Jul forecast of 50% is under performing.*
  - **Carson R @ Ft Churchill – Apr-Jul**
    - 70% exceedance : 39kaf
    - 50% exceedance : 80kaf
    - 30% exceedance : 110kaf



## March 2022 Weather Outlook Update

Weather Forecast Office  
Reno, NV  
Tuesday, March 8



Chris Smallcomb  
NWS Reno  
chris.smallcomb@noaa.gov

Exceptionally wet  
October & December.

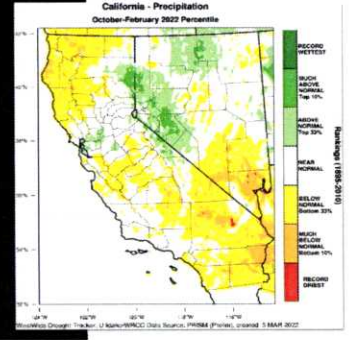
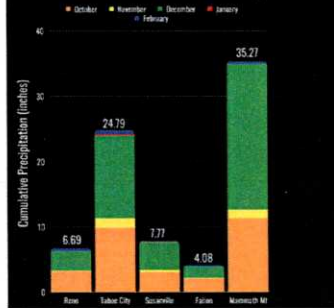
Historically Dry  
January & February

Time is Running Out,  
So Is Anything on the  
Horizon for  
March-April?

## The Very Definition of Boom vs Bust

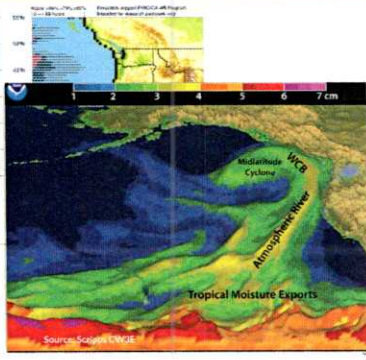
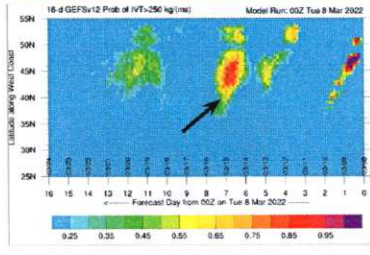
Weather Forecast Office  
Reno, NV  
Tuesday, March 8

### See-Saw Precipitation



## Atmospheric River Outlook Next Two Weeks

Weather Forecast Office  
Reno, NV  
Tuesday, March 8

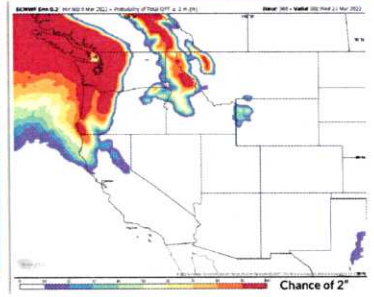
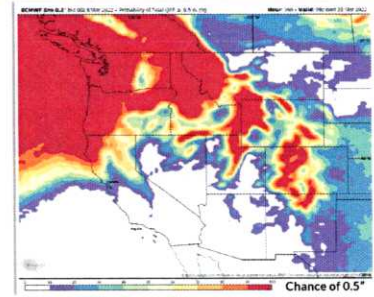


Atmospheric River landfall charts from Center for Western Weather & Water Extremes. AR's account for a large portion of annual totals!  
Next two weeks - no screaming big storm signals, but possible brush-by early next week

Map: <https://www.cwwe.ucdavis.edu/arc/arc.html>

## Likely No Direct AR Hits, But Anything Else?

Weather Forecast Office  
Reno, NV  
Tuesday, March 8



Images show threshold probabilities for total precipitation through March 22nd. Storms possible, but unlikely to see really meaningful wet storms for snowpack, water supply.

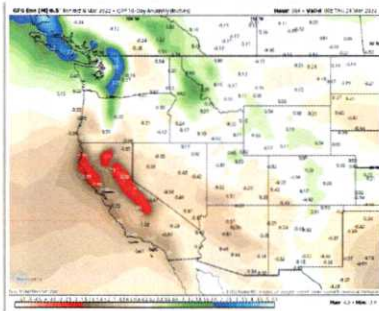
Map: ECMWF Ensemble via Weather-B4E Subscriptions

### Not Surprising, Lots of Red Next Two Weeks

Weather Forecast Office Reno, NV Tuesday, March 8

Lack of big Sierra storms really stands out when comparing forecast precipitation to normal.

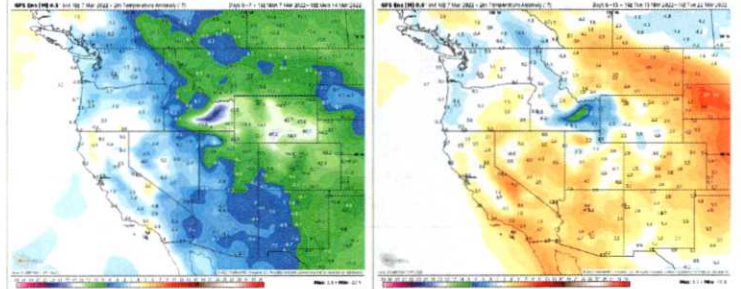
Central/Eastern Nevada fare "slightly better" - more inland track storms next few days.



Map: GFS Ensemble via Weatherbell (subscription)

### Temperatures: Typical Spring Variability

Weather Forecast Office Reno, NV Tuesday, March 8

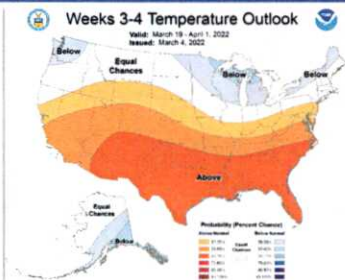
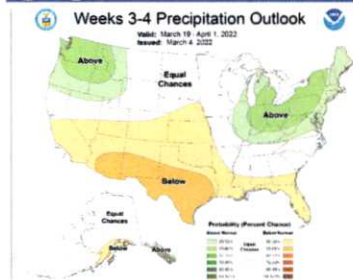


Lots of ups and downs, typical of spring, but a trend toward warmer than normal conditions as we head into mid-March. No major heatwaves.

Map: GFS Ensemble via Weatherbell (subscription)

### Late March - No Big Wet Patterns

Weather Forecast Office Reno, NV Tuesday, March 8

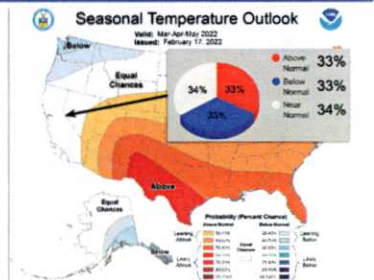
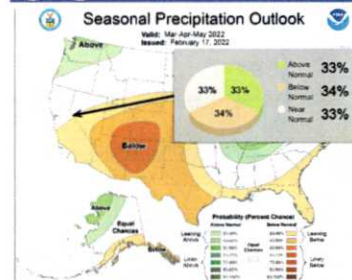


Typically at 3-4 week lead times is where we look for major pattern shifts toward super wet or dry. Not seeing that here - so no clear signal either way for the Sierra. Can't rule out low-moderate end storms which are less predictable at these lead times.

Map: <https://www.weather.gov/reno/ensemble>

### What's Spring Have in Store?

Weather Forecast Office Reno, NV Tuesday, March 8



Key message from the models: Any scenario is on the table for Spring in Northern Nevada and the Sierra. Dice are loaded toward drier/warmer than normal for Southern Nevada, Four Corners.

Map: <https://www.weather.gov/reno/ensemble>



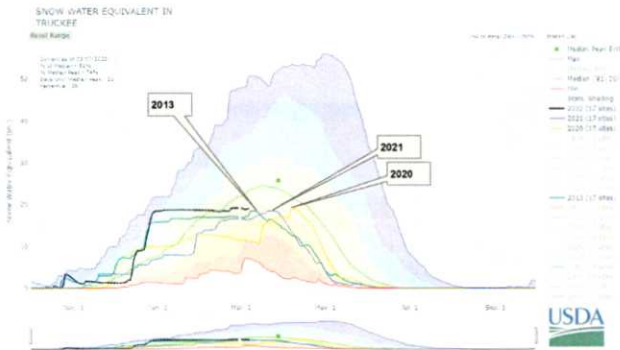






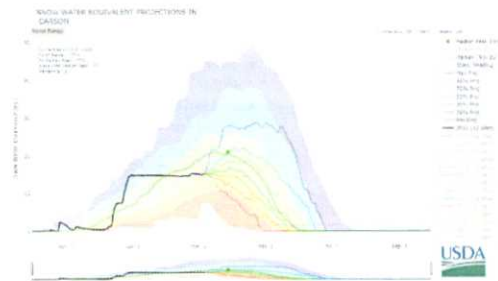
### Truckee Snowpack

Weather Forecast Office  
Reno, NV  
Tuesday, March 8



### Carson Snowpack Projections

Weather Forecast Office  
Reno, NV  
Tuesday, March 8

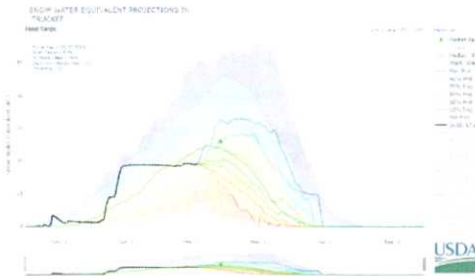


Probabilities based on historic SWE changes  
Showing ~ 10% chance of reaching median SWE  
Does not account for dry outlook. Actual odds are likely worse.



### Truckee Snowpack Projections

Weather Forecast Office  
Reno, NV  
Tuesday, March 8

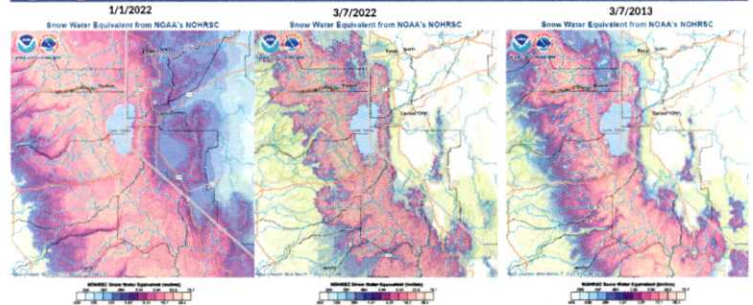


Probabilities based on historic SWE changes  
Showing < 30% chance of reaching median SWE  
Does not account for dry outlook. Actual odds are likely worse.

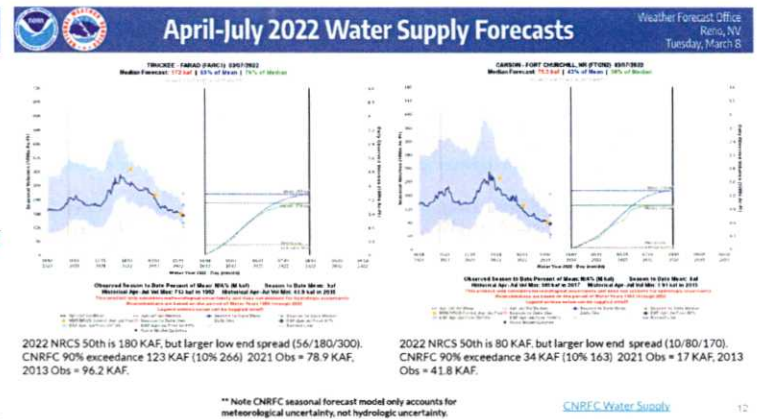
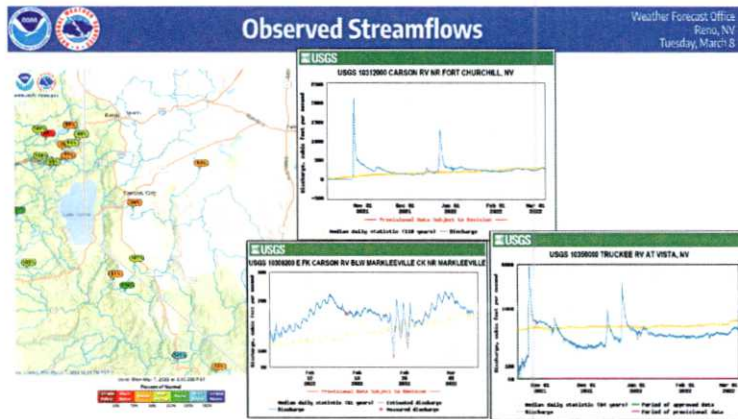
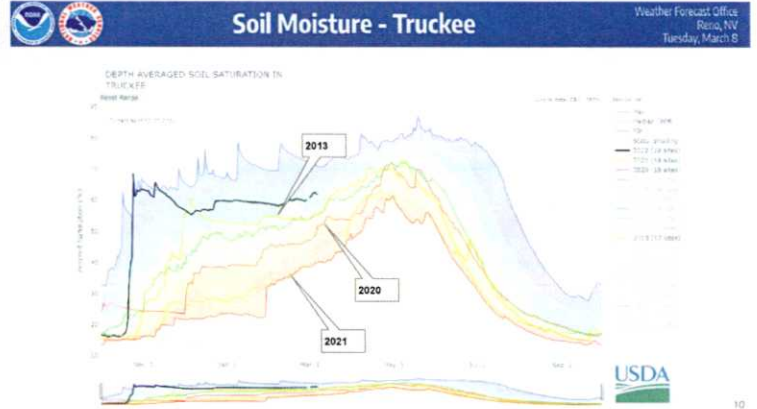
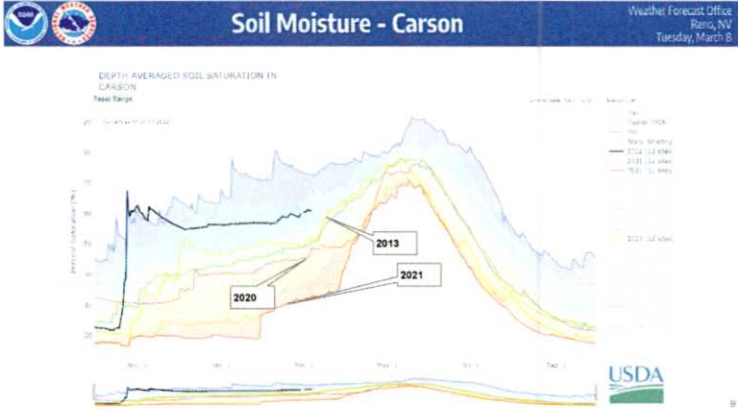


### Snowpack Spatial Comparison

Weather Forecast Office  
Reno, NV  
Tuesday, March 8



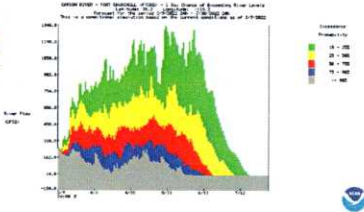
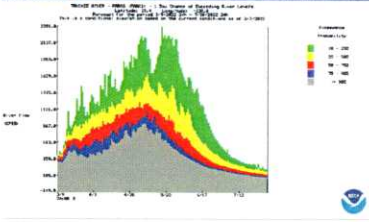
[NOHRSC SWE on CNRFC page](#)





# Daily Ensemble Flow Simulations

Weather Forecast Office  
Reno, NV  
Tuesday, March 8



\*\* Note CNRFC seasonal forecast model only accounts for meteorological uncertainty, not hydrologic uncertainty.



# EXHIBIT D

## US District Court Water Master Operations and Water Supply Forecast – Based on NRCS/RFC March 1, 2022 Coordinated Forecast

Truckee Carson Irrigation District  
Special Board Meeting  
March 8, 2022

March 8, 2022 Truckee Update

### Water Master Daily Worksheet – March 8, 2022

<https://www.troa.net/reports/dwmr/>

March 8, 2022 Truckee Update

## FLORISTON RATE STORAGE REPORT

Floriston Rates Storage Report  
#8 Fully Storage Report

This report includes all of the following available in TRM:

- The System PVI Storage rates will include regular System Storage
- The PVI Storage rates will include any Storage rights stored in the Truckee River Basin

The storage is shown in columns on the right side of the table. The PVI Storage rates will include the amount each year of PVI Storage. The rates in the table are shown as follows: Storage including the current day, New Storage rates (assumes to be) The column that the PVI storage are shown as negative numbers including the Storage, Storage & current (assumes to be) Storage. Storage PVI is shown that way instead of a line when the storage is not used to meet the PVI Storage. When this value is released it will be shown as a positive number. The PVI Storage is shown in the Storage column. Storage rates will be shown as a positive number.

Date	Daily Storage	PVI Storage	Storage		Storage		Storage		Storage		Storage		Storage	
			Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
3/1/2022	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	

March 8, 2022 Truckee Update

## March 1, 2022 NRCS/RFC Coordinated Forecast

Based on the National Water & Climate Center  
\* Data updated as of March 01, 2022 08:15 AM MT  
Based on March 01, 2022 Forecast Volume  
Truckee, Inc., Hydrologist  
Coordinated Forecasts

March 1, 2022

**LAKE TOWER BASIN**

Forecast Point	Period	Q1	Q2	Q3	Q4	Max	Min
Truckee at Lake Tower PVI	10/1/21-9/30/22	1.2	1.2	1.2	1.2	1.2	1.2

**TRUCKEE RIVER BASIN**

Forecast Point	Period	Q1	Q2	Q3	Q4	Max	Min
Truckee at Lake Tower PVI	10/1/21-9/30/22	1.2	1.2	1.2	1.2	1.2	1.2

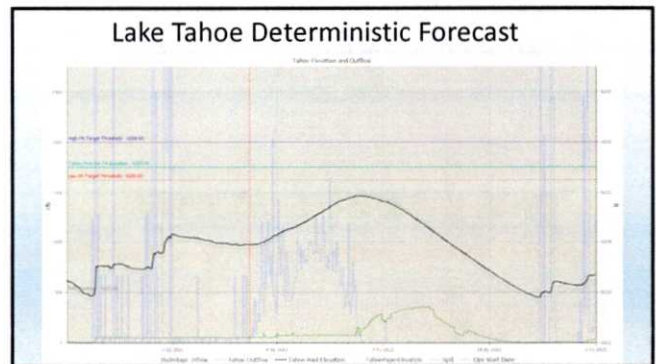
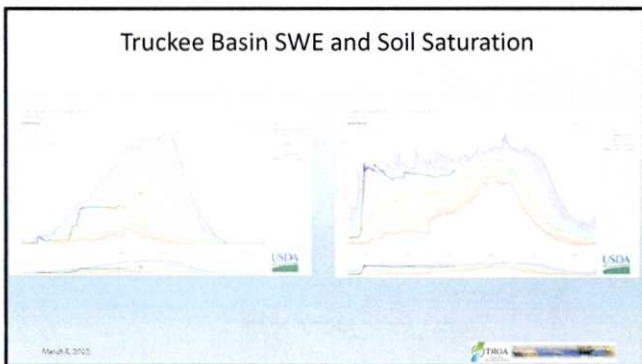
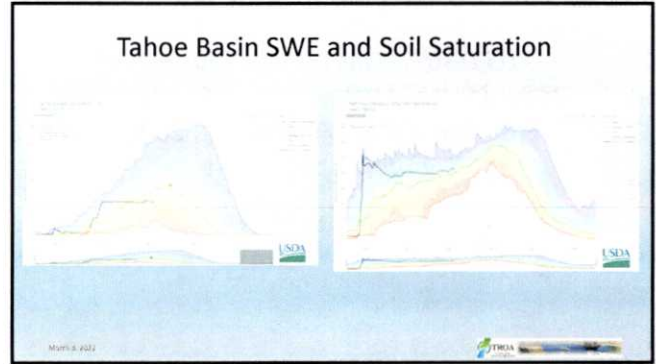
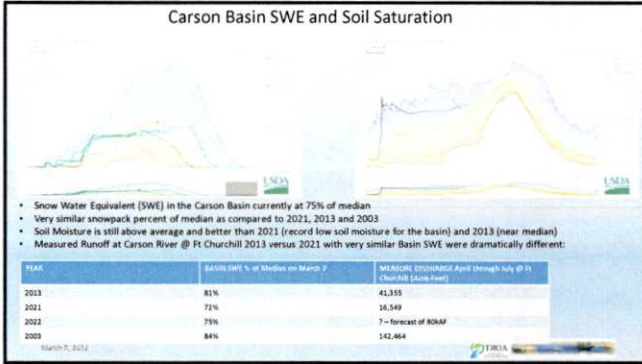
**CARSON RIVER BASIN**

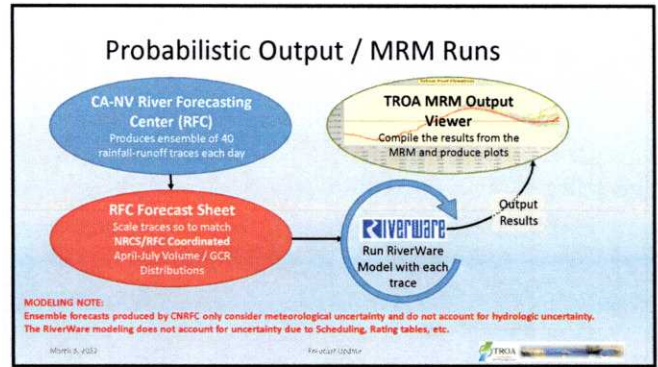
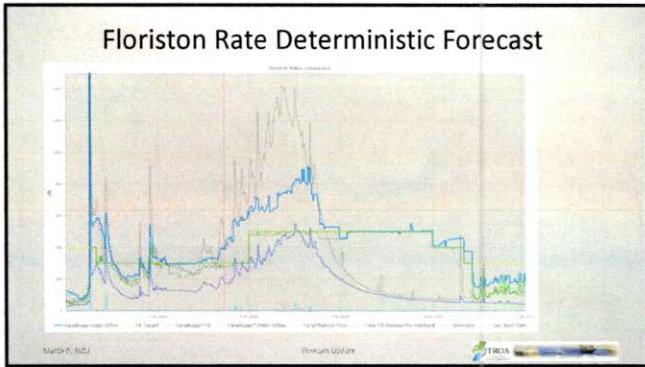
Forecast Point	Period	Q1	Q2	Q3	Q4	Max	Min
Carson at Lake Tower PVI	10/1/21-9/30/22	1.2	1.2	1.2	1.2	1.2	1.2

Note: (Q1), (Q2), (Q3), (Q4) and Max (Max) values that actual volume will exceed forecast.  
Minimum are for the 10/1/21-9/30/22 period.  
All volumes are in thousands of acre-feet.  
Footnotes:  
1) Max and Min are Q1 and Q4 values that actual volume will exceed forecast.  
2) Streamline is reported for upstream storage.  
3) Forecasts are coordinated with the user.

March 8, 2022 Truckee Update

EXHIBIT





### March 1 NRCS/RFC Coordinated Forecast Volumes

NRCS/RFC Coordinated Volume Analysis			
Exceedance	Farad AJ Vol (KAF)	Ri, Churchill AJ Volume (KAF)	Tahoe OCR(F)
100%	417.3	231.6	2.21
10%	320.8	177.0	1.80
20%	284.6	151.4	1.88
30%	258.2	130.8	1.92
40%	236.4	102.8	1.91
50%	218.6	79.3	1.90
60%	199.3	58.9	1.90
70%	148.2	44.0	1.70
80%	126.4	29.2	1.59
90%	97.8	18.3	1.42
Min	63.7	1.8	1.24
April-July Volume to Date	0.0	0.0	0.00
2002-2021 Average	269.0	164.1	1.64
Percent of Average	84%	43%	1.1%

March 1, 2022

Forecast Update

TREDA

