

TO: Rosedale-Rio Bravo Water Storage District Board of Directors  
Agenda Item 7.a.i

FROM: Dan W. Bartel

DATE: March 12, 2024

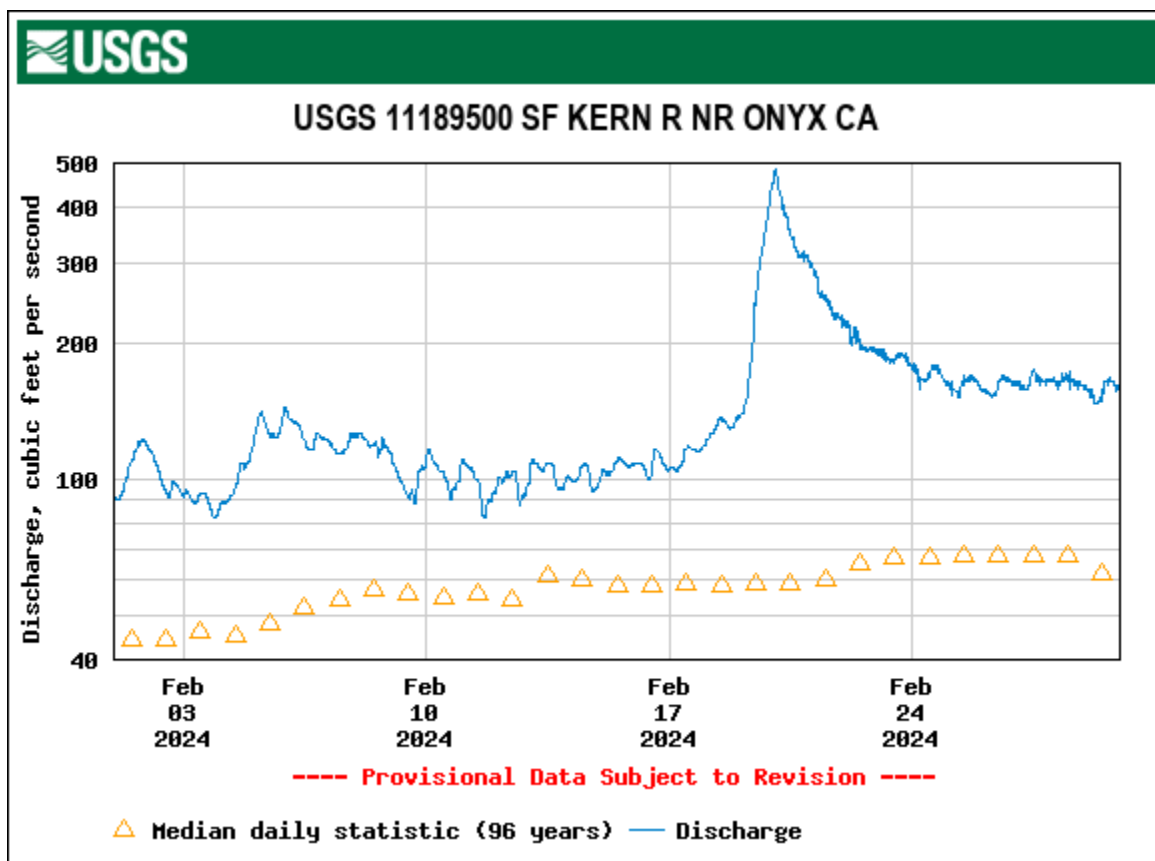
RE: Onyx Ranch Operations Report

**Discussion:**

Staff has:

- Continued operation of conveyance facilities
- Irrigation activities were off in February due to precipitation.
- USGS did not verify the South Fork station in February.
- Staff stream gaged and calculated accretions 3 times during the month.
- Staff completed ditch cleaning activities on the Boone, Nicoll, and Mack ditches.
- Staff ordered the new shop building after receiving three bids. To be delivered in May.
- Staff is preparing slab design and will place with District forces.
- Staff participated in community event.

South Fork flows downstream of Bloomfield averaged 145 cfs plus calculated accretions of 12 cfs, for a total average flow of about 157 cfs.













South Fork Kern River Monthly Measurement Report

February-2024

Daily values in SFD = Second Foot Days, Monthly total in AF = Acre-Feet

Date	South Fork				D.Prince (4,5,17,20-22,37)			Hafenfeld (5)			RRBWSD (1,3,6,7,12, Wirth1, 30,33, Boone,1/3 Smith)				J.Nicoll (3)	Audubon (4,5,9,Wirth1,17,18) (20-22,Wirth2,27,29,37)		Smith (2/3 Smith)	Total Diverted	South Fork		RRBWSD to Isabella	Simulated Per Project Parameters	
	Mean Flow	USGS - Onyx @ 0500	Accretions	Doyle Ranch Road	Mill/Hillside	Miller	Prince	Miller	Landers	Cottonwood	Scodie/Mack	Landers	Nicoll	Redirected "Gross Project Water"	Nicoll	Cottonwood	Nicoll	Smith			Sierra Way "Flow"	Patterson "Flow"	"Net Project Water"	Redirected "Gross Project Water"
1	107	92	19																0	Yes	Yes	0	0.0	0
2	101	109	19																0	Yes	Yes	0	0.0	0
3	90	91	19	107															0	Yes	Yes	0	0.0	0
4	98	88	19																0	Yes	Yes	0	0.0	0
5	131	138	16																0	Yes	Yes	0	0.0	0
6	126	134	16																0	Yes	Yes	0	0.0	0
7	120	121	16																0	Yes	Yes	0	0.0	0
8	120	124	16																0	Yes	Yes	0	0.0	0
9	99	101	16																0	Yes	Yes	0	0.0	0
10	103	110	16	115												4.5			5	Yes	Yes	0	0.0	0
11	98	106	16													4.0			4	Yes	Yes	0	0.0	0
12	98	98	9													4.0			4	Yes	Yes	0	0.0	0
13	104	107	8													4.0			4	Yes	Yes	0	0.0	0
14	101	100	8													4.0			4	Yes	Yes	0	0.0	0
15	106	104	8													4.0			4	Yes	Yes	0	0.0	0
16	108	108	8													4.0			4	Yes	Yes	0	0.0	0
17	112	105	8													4.0			4	Yes	Yes	0	0.0	0
18	130	127	8	NM												4.0			4	Yes	Yes	0	0.0	0
19	257	147	8													4.0			4	Yes	Yes	0	0.0	0
20	369	427	8													3.0			3	Yes	Yes	0	0.0	0
21	257	289	8													3.0			3	Yes	Yes	0	0.0	0
22	204	219	8													3.0			3	Yes	Yes	0	0.0	0
23	186	192	8													5.5			6	Yes	Yes	0	0.0	0
24	171	159	8	163												5.5			6	Yes	Yes	0	0.0	0
25	162	159	8													5.0			5	Yes	Yes	0	0.0	0
26	161	156	9													5.0			5	Yes	Yes	0	0.0	0
27	165	162	8													5.0			5	Yes	Yes	0	0.0	0
28	165	162	8													5.0			5	Yes	Yes	0	0.0	0
29	158	165	8													4.5			5	Yes	Yes	0	0.0	0
SFD	4,206	4,200	334		0	0	0	0	0	0	0	0	0	0	0	85	0	0	85	0	0	0	0	0
AF	8,343	8,331	663		0	0	0	0	0	0	0	0	0	0	0	169	0	0	169	0	0	0	0	0

Note:

Cottonwood via the Landers

Redirected Historic Irrigation Demand Limit =

23

Irrigation off 2/1-2/29 due to precip

Bold ## on USGS denotes USGS gage verification

## Saturday South Fork Doyle Ranch Flow measurement, value carries for next week Tuesday-Monday.

Numbers under Patterson Lane signifies RRB Staff flowtracking

USGS-Onyx = USGS SFork at 0500



## KERN RIVER BASIN SNOW SENSOR FORECAST MODEL

Readings of Water Content  
are in Inches.....

DATE: 04-Mar 2024

Previous Year April-July inflow  
to Isabella Reservoir =

358 % of Average

### SNOW SENSOR SITE

	Upper Tyndall Creek	Crabtree Meadow	Chagoopa Plateau	Pascoe	Wet Meadow	Tunnel Guard	Casa Vieja	Beach Meadow	Eight Sensor Index
Elevation (feet)	11,400	10,700	10,300	9,150	8,950	8,900	8,300	7,650	--
Actual Water Content This Date	17.3	11.0	19.4	20.4	24.8	8.5	17.8	8.4	15.9
Normal Water Content This Date	25.3	18.1	19.9	22.7	27.6	14.2	20.4	10.7	20.0
% of Normal Water Content This Date	68%	61%	98%	90%	90%	60%	87%	79%	78%
April 1 Average Water Content	27.7	19.8	21.8	24.9	30.3	15.6	20.9	11.0	21.6
% of April 1 Average Water Content	62%	56%	89%	82%	82%	54%	85%	76%	73%

1)	3-Gage Precipitation Index For this Date	=	<u>46.37 inches</u>
	3-Gage Precipitation Index Normal For this Date	=	<u>45.19 inches</u>
	3-Gage Precipitation Index in % of Normal	=	<u>103%</u>
2)	Estimated 2024 April-July Inflow to Isabella Reservoir	=	<u>444,501 acre-feet</u>
3)	Estimated 2024 April-July Runoff in % of Average	=	<u>100%</u>

- 1) 3-Gage precipitation index = October 1 to date cumulative rainfall totals for Glennville, Pascoe & Isabella Dam
- 2) Assumes median snowpack accumulation subsequent to date of estimate
- 3) April-July average inflow to Isabella Reservoir = 446,300 acre-feet