

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

FROM: Dan W. Bartel

DATE: January 10, 2023

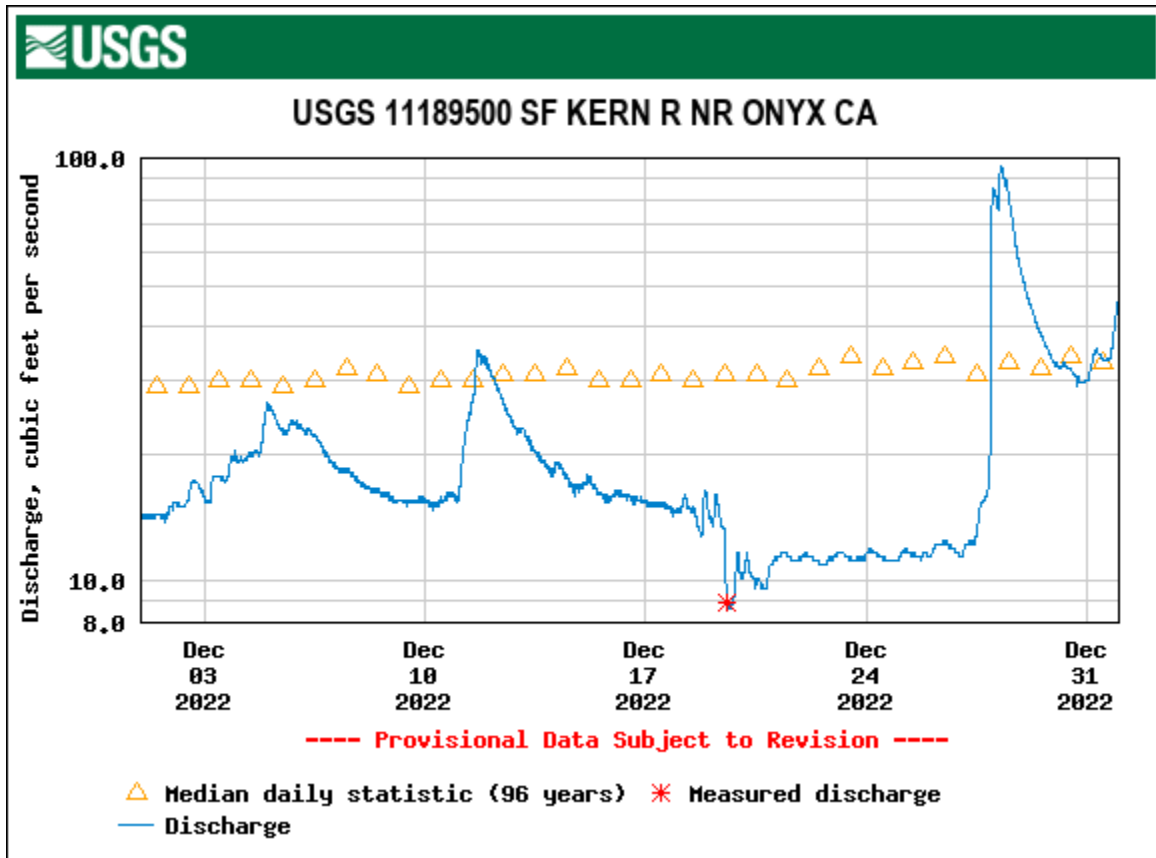
RE: Onyx Ranch Operations Report

Discussion:

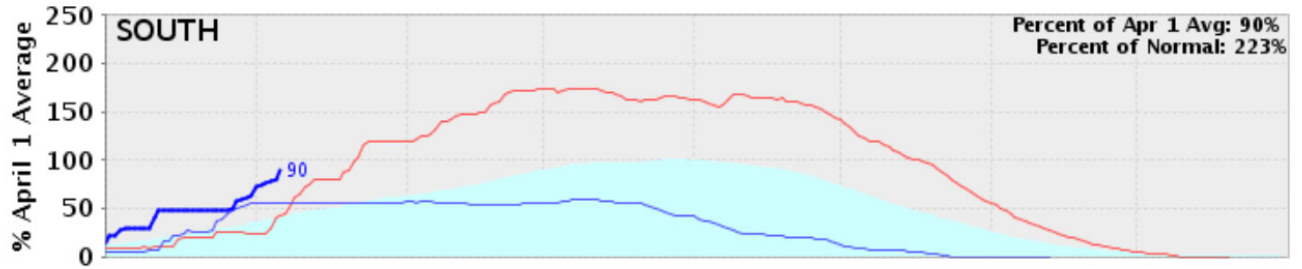
Staff has been working to implement the District’s developing goals and objectives on the Ranch. Specifically, staff has:

- Continued operation of conveyance system
- Staff continued to work on annual maintenance agreements with DFW
- Staff received access agreements from DFW and completed cleaning of ditches
- Staff continued coordination efforts with the Kern River Interests
- Staff redirected flow back to the river as flows increased November 9 which has been filling the river channel downstream.
- Staff working to schedule a presentation to KRI’s on updated model results.
- Staff is finalizing 2022 diversion reports for SF water right holders

South Fork flows downstream of Bloomfield averaged 21 cfs plus calculated accretions of 5 cfs, for a total average flow of about 26 cfs. Ag wells were not operated.



Data as of AM 1/6/2023



SNOW WATER EQUIVALENTS								
Station	ID	Coop. Agency	Elev (FT)	Apr 1 Avg (IN)	Today (IN)	Percent Apr 1	24 Hrs Ago (IN)	1 Week Ago (IN)
KINGS RIVER								
Bishop Pass	BSH	DWR/DFM/	11,200	29.7	---	---	---	---
Charlotte Lake	CRL	DWR/DFM/	10,400	26.8	---	---	---	18.2 e
State Lakes	STL	USACE	10,300	34.0	27.6	81%	24.6	18.2
Blackcap Basin	BCB	DWR/DFM/	10,300	34.1	24.0 r	70%	22.1 r	16.1 r
Mitchell Meadow	MTM	USACE	9,900	32.5	27.1	83%	24.3	18.0
Upper Burnt Corral	UBC	DWR/DFM/	9,700	35.2	27.0	77%	25.3	18.1
West Woodchuck Meadow	WWC	USACE	9,100	30.7	24.7	81%	22.3	16.1
Upper Bull	KUB		8,073	---	---	---	---	17.0
Big Meadows	BIM	DWR/DFM/	7,600	23.5	27.0 r	115%	23.4 r	20.5 r
Upper Providence	KUP		5,611	---	---	---	---	9.9
KAWEAH & TULE RIVERS								
Farewell Gap	FRW	DWR/DFM/	9,500	37.3	29.4	79%	26.5	19.6
Quaking Aspen	QUA	DWR/DFM/	7,200	17.2	13.3 r	77%	11.3 r	8.4 r
Giant Forest	GNF	USACE	6,650	7.3	8.4	115%	6.5	5.5
KERN RIVER								
Upper Tyndall Creek	UTY	USACE	11,400	22.2	16.0	72%	13.8	10.0
Crabtree Meadow	CBT	DWR/DFM/	10,700	16.1	12.7 r	79%	11.2 r	7.5 r
Chagoopa Plateau	CHP	DWR/DFM/	10,300	17.6	18.6	105%	16.6	12.2
Pascoes	PSC	USACE	9,150	27.7	19.3	70%	17.0	13.6
Wet Meadows	WTM	USACE	8,950	20.8	19.0	92%	16.2	12.0
Tunnel Guard Station	TUN	DWR/DFM/	8,900	10.9	11.6	107%	10.3	4.7
Casa Vieja Meadows	CSV	DWR/DFM/	8,300	17.3	14.8 r	86%	13.2 r	10.4 r
Beach Meadows	BCH	DWR/DFM/	7,650	5.0	9.6 r	191%	8.5 r	6.2 r

South Fork Kern River Monthly Measurement Report

December-2022

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)			RRBWS (1,3,6,7,12, Wirth1, 30,33, Boone, Smith 1/3)				J.Nicoll (3)	Audubon (4,5,9,Wirth1,17,18) (20-22,Wirth2,27,29,37)		Smith (Smith 2/3)	Total Diverted	South Fork		RRBWS to Isabella
	Mean Flow	USGS - Onyx	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"	
1	16	16	5.3									1.1	14.1				5.7	7	No	No	0	
2	17	17	5.3									1.9	14.8				5.7	8	No	No	0	
3	19	19	5.3									1.1	17.6				5.4	7	No	No	0	
4	22	22	5.3									1.0	20.0				5.9	7	No	No	0	
5	25	25	5.3									1.1	19.9				6.2	7	No	No	0	
6	23	23	5.0									2.0	19.0				5.6	8	No	No	0	
7	19	19	5.0									1.5	17.5				5.5	7	No	No	0	
8	18	18	5.0									1.4	16.0				5.1	6	No	No	0	
9	17	17	5.0									0.6	16.1				5.0	6	No	No	0	
10	17	17	5.0	17								1.1	15.6				5.1	6	No	No	0	
11	28	28	5.0									1.0	20.0				6.2	7	No	No	0	
12	28	28	5.0									1.4	19.6				7.5	9	No	No	0	
13	22	22	5.0									1.2	19.8				5.7	7	No	No	0	
14	19	19	5.0									0.3	17.6				5.6	6	No	No	0	
15	17	17	5.0									1.1	15.6				5.4	7	No	No	0	
16	16	16	5.0									0.9	15.6				5.0	6	No	No	0	
17	16	16	5.0									0.9	14.6				5.0	6	No	No	0	
18	15	15	5.0									2.8	12.3				5.0	8	No	No	0	
19	12	12	5.0									0.8	11.7				4.7	5	No	No	0	
20	10	10	5.0	15								1.0	9.9				4.4	5	No	No	0	
21	11	11	5.0									1.2	10.5				4.7	6	No	No	0	
22	11	11	5.0									1.3	10.1				4.9	6	No	No	0	
23	11	11	5.0									1.1	10.5				4.9	6	No	No	0	
24	11	11	5.0									1.4	10.3				4.8	6	No	No	0	
25	12	12	5.0									1.1	10.6				4.9	6	No	No	0	
26	12	12	5.0									0.9	11.3				4.8	6	No	No	0	
27	17	17	5.0									0.7	17.1				4.6	5	No	No	0	
28	75	75	5.0									1.1	19.9				8.2	11	No	No	0	
29	40	40	5.0									1.0	20.0				7.5	10	No	No	0	
30	31	31	5.0									0.9	20.1				6.4	9	No	No	0	
31	35	35	5.0									1.3	19.7				6.8	10	Yes	No	0	
SFD	643	643	157	34	0	0	8	0	0	0	0	36	0	487	0	0	0	172	216	0	0	0
AF	1,276	1,276	311		0	0	16	0	0	0	0	72	0	967	0	0	0	341	429	0	0	0
		21	5				16					0		1,039	0		0	5.5	7			0.0

Note: Cottonwood via the Landers
 Redirected Historic Irrigation Demand Limit = 21
 Saturday South Fork Doyle Ranch Flow measurement, value carries for next week Tuesday-Monday.

Accumulated Net
1,114

South Fork Kern River Annual Diversion Report - 2022

All units in AF

Date	South Fork	D.Prince (4,5,17,20-22,37)			Hafenfeld (5)			RRBWSD (1,3,6,7,12,Wirth1,30,33,Boone,Smith 1/3)				J.Nicoll (3)	Audubon (4,5,9,Wirth1,17,18) (20-22,Wirth2,27,29,37)		Smith (Smith 2/3)	Total Diverted	South Fork	RRBWSD into Isabella
	USGS - Onyx	Mill/Hillside	Miller	Prince	Miller	Landers	Cottonwood	Scodie/Mack	Landers	Nicoll	Redirected "Gross Project Water"	Nicoll	Cottonwood	Nicoll	Smith		Sierra Way "Flow"	"Net Project Water"
January	1,220	0	0	351	0	0	0	0	634	0	0	0	0	0	109	1,093	Yes	0
February	1,166	0	118	188	118	0	0	0	641	0	0	0	0	0	323	1,388	No	0
March	2,239	0	271	305	271	0	0	0	622	155	162	257	24	0	504	2,410	Yes	0
April	2,097	0	176	374	176	0	0	0	70	0	1,100	175	0	19	380	1,369	Yes	880
May	911	0	51	20	51	0	0	0	76	24	323	115	0	0	427	764	Yes	234
June	303	0	0	0	0	0	0	0	151	5	0	0	0	0	153	308	Yes	0
July	154	0	0	0	0	0	0	0	106	0	0	0	0	0	31	137	No	0
August	297	0	0	0	0	0	0	0	226	0	0	0	0	0	16	242	No	0
September	198	0	0	0	0	0	0	0	155	0	0	0	0	0	7	162	No	0
October	293	0	0	0	0	0	0	0	227	0	0	0	0	0	44	271	No	0
November	682	0	0	0	0	0	0	0	106	0	417	0	0	0	307	413	No	0
December	1,276	0	0	16	0	0	0	0	72	0	967	0	0	0	341	429	Yes	0
AF	10,837	0	616	1,254	616	0	0	0	3,086	184	2,969	546	24	19	2,641	8,986		1,114
				1,870			616				6,239		44					

Note: Cottonwood via the Landers Smith split of 1/3 - 2/3 started April 2022

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT - ONYX RANCH
MONTHLY GROUNDWATER MONITORING RUN
DEC

2022

Well Name	DATE	Depth to Water (ft)	Notes
Onyx Store - Domestic	12/30/2022	44.5	
Ranch HQ - Domestic	12/30/2022	24.7	
Landers Sand - Old Ag Well	12/30/2022	23.4	
Onyx Store - Old Ag Well	12/30/2022	24.6	
Mack Well	12/30/2022	27.1	
Nicoll Field - Old Ag Well	12/30/2022	20.2	
Mack Field West - Domestic	12/30/2022	18.3	
Gibboney-2 Piezo			
Gibboney-3 Piezo			
Boone Piezo	12/30/2022	10.7	
Lieb Piezo	12/30/2022	13.3	
Pruitt Piezo	12/30/2022	17.6	
Scodie Well	12/30/2022	27.2	
Pruitt Well	12/30/2022	19.8	
Nicoll Well	12/30/2022	21.8	
Mack Piezo	12/30/2022	21	