

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 11/20/2023
 Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	2.6
N2	Total SAR Deliveries	2.6
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	2.6
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	0.0
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	32.9
U3	Total MC Deliveries	32.9
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	32.9

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	95.5
V	Total SWP Deliveries	95.5
J	Northfork Canal	0.0
L	Redlands Aqueduct	10.4
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2197.2
Crafton Reservoir Level (21.3)	18.1
Mentone Reservoir Level	18.0

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	78
Estimated Total River Recharge (AF)	78

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	4,512	176,000
Santa Ana River to Mill Creek	SAR-MC	6	0
Santa Ana River to Mill Creek	SWP	1,133	0
Santa Ana River	SWP	1,370	0
Mill Creek	MC	0	106,000
Mill Creek	SWP	3,535	0
Plunge Creek	PLC	18	0

Notes: Numbers on the Daily Flow Report are a snapshot of water at a given location at the time of the read, normally very early in the morning. Water in Mill Creek at the east weir is being turned out to river due to Mill Creek diversion project.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	0.0	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	50.0	N	BVMWC Boullioun Box	5.1	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	0.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	30.0
D	Purchased Water	7.2	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	10.4	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	95.5
F	Recharge Project	88.3									
G	Total SWP Inflows	95.5									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	0.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	2.6	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boullioun Box to Zanja	0.0	minus		C1	Greenspot Pipeline	0.0	
K2	Northfork Parshall Flume	2.6	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	2.6
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	2.6	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	0.3	Other					D1a	BV Pick-Up gated	-	
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	1.0	w	Observation at SOD	2197.2	A5	Total SAR Inflows	2.6
Minus			L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2195.0	Edison Generation		
D1	BVMWC River PU (USGS)	2.6	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#1 Generating		
I1	Redlands Tunnel	0.3							SAR PH#3 Generating		
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH#3 Penstock (SCADA)	0.0									

Santa Ana River Deliveries

Greenspot Pipeline		Tailrace Pipeline		SBVWCD Parshall Flume To Basins		Deliveries					
M1	Redlands sand box	0.0	G2	Northfork Canal Weir	0.0	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	2.6	W1	Redlands Aqueduct / Sandbox	0.3
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	2.6	minus		Z2	Cuttle Weir To River	0.0	
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	2.6	L2	Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0	Irrigation					C1	Greenspot Pipeline	0.0	
S1	Tres Lagos	0.0	D2	Boullioun Box Weir	0.0		SBVWCD Parshall Flume	2.6	I2	Tailrace Pipeline	2.6
T1	Tate Pump Station to Zanja	0.0	R1	BVMWC Highline to Boullioun	0.0		Parshall Flume (SCADA)	0.0	L2	SBVWCD Parshall Flume	2.6
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	5.1				L2	Sedimentation Recharge	0.0
			minus					minus			
			B2	Gay Overflow	3.1				J2	Tailrace Valve to Parshall Flume	0.0
			C2	Irrigation	2.0				K2	Northfork Parshall Flume	2.6
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	2.6

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	17.8	E3	M/C #1 Penstock Flow	32.9
B3	M/C #3 Penstock	15.1	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	14.0
D3	Total MC Inflows	32.9			

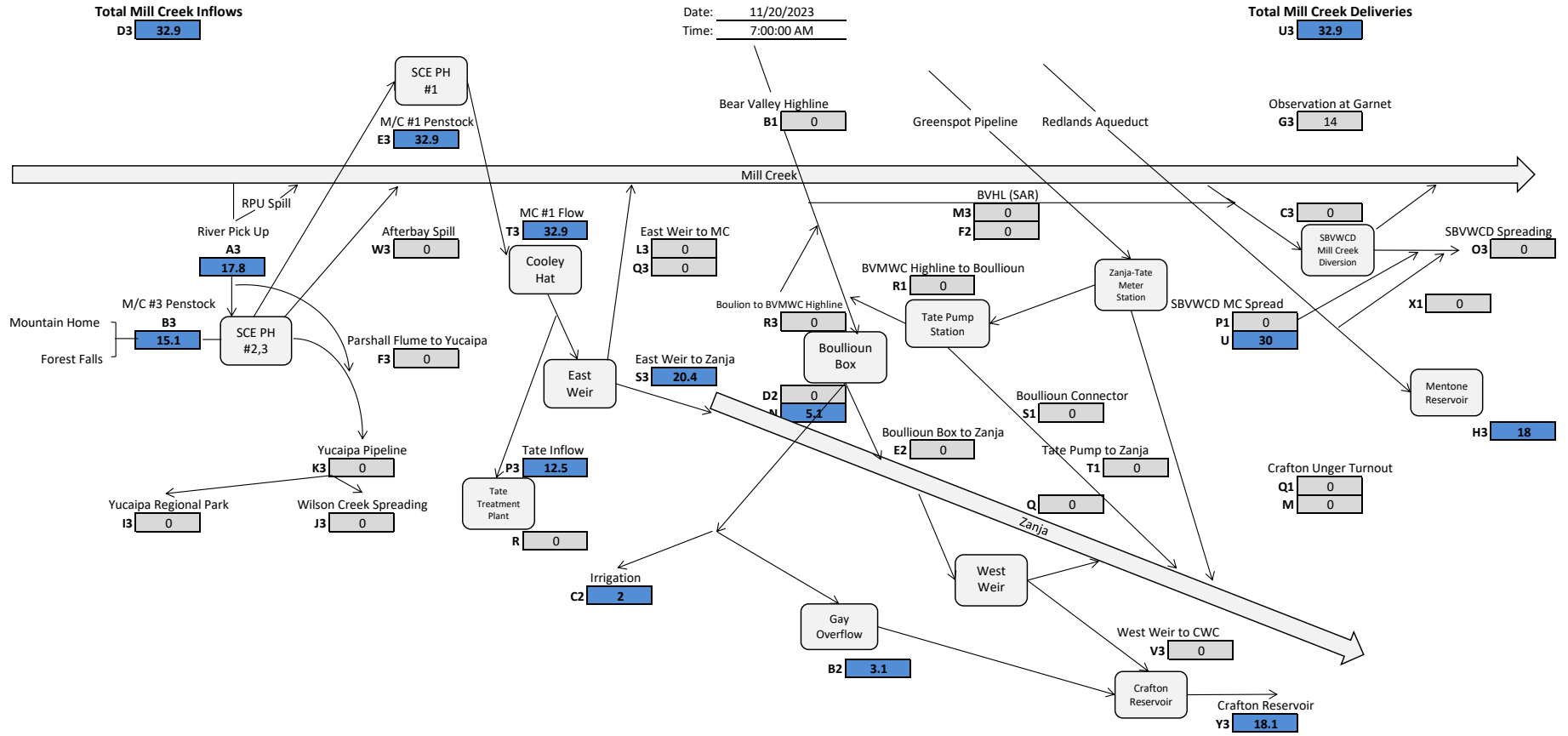
Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
H3	Yucaipa Regional Park	0.0	P3	Tate Inflow	12.5	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	18.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	32.9	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	20.4	U3	Total MC Deliveries	32.9	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	32.9				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	28.6				Y3	Crafton Reservoir Level (21.3)	18.1
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	0.0									
L3	East Weir (MC)	0.0									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	0.0									
O3	SBVWCD MC Spreading	0.0									

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	17.9	I4	4,512.0	176,000	I4	51,541.1	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	6.0		O4	1,444.3	
	Santa Ana Rvr to Mill Creek	SWP		52.4		1,133.1			2,001.9	
B4	Santa Ana River	SWP	F4	291.6	J4	1,369.5		J4	2,982.0	
C4	Mill Creek	MC	G4	0.0	K4	0.0	106,000	K4	16,006.0	106,000
D4	Mill Creek	SWP	H4	178.5	L4	3,535.4		L4	6,199.3	
	Plunge Creek	PLC		6.0		17.5			2,620.1	
SAR Passing Cuttle Weir (cfs)	0		Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	0		Estimate SAR Recharge (AF)	0	
Mill Creek Passing Garnet (cfs)	14		Share of Lost Mill Creek Flow	5	Estimate Mill Creek flow (cfs)	9		Estimate Mill Creek Recharge (AF)	78	
Flow in the River Above Alabama	14		Flowing Beyond Alabama	5	Total River Flow (cfs)	9		Total River Recharge (AF)	78	

Santa Ana River - Mill Creek Cooperative Water Project Mill Creek Stations



Santa Ana River - Mill Creek Cooperative Water Project

Santa Ana Stations

