

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/20/2023

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	53.8
N2	Total SAR Deliveries	53.8
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	33.0
G2	North Fork Canal Weir	3.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	14.7
V1	PH3 Afterbay Spill Loss to SAR	2.2

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	34.7
V	Total SWP Deliveries	34.7
J	Northfork Canal	3.3
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	25.7
U3	Total MC Deliveries	25.7
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	8.7
T3	MC #1 Flow (Cooley Hat)	25.7

Reservoir Levels	Feet
Observation at SOD	2201.8
Crafton Reservoir Level (21.3)	17.1
Mentone Reservoir Level	18.0

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	10
Estimated Total River Recharge (AF)	10

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	6,951	176,000
Santa Ana River to Mill Creek	SAR-MC	7	0
Santa Ana River to Mill Creek	SWP	1,409	0
Santa Ana River	SWP	2,729	0
Mill Creek	MC	16,631	106,000
Mill Creek	SWP	4,820	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	11.6	N	BVMWC Boullioun Box	4.7	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	3.3	P	SARC West	0.0	U	M/C spreading at Zanja Tate	15.1
D	Purchased Water	8.0	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries 34.7	
F	Recharge Project	26.7									
G	Total SWP Inflows	34.7									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	3.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	27.3	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	26.5	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	6.5	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	27.3
V1	PH#3 Afterbay Spill/Loss to SAR	2.2	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	53.8	E1	Main River Gage (USGS)	26.5
W1	Redlands Aqueduct / Sandbox	15.2							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.0	Other						A5	Total SAR Inflows	53.8
Minus			J1	Big Bear Lake Release	0.9	w	Observation at SOD	2201.8	Edison Generation		
D1	BVMWC River PU (USGS)	27.3	I1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2200.7	SAR PH#1 Generating		
I1	Redlands Tunnel	0.5	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#3 Generating		
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH3# 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	3.0	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	2.2
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	6.5	W1	Redlands Aqueduct / Sandbox	15.2
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	26.5	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	6.5				Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	10.4	Sedimentation Basin Recharge			B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0	Irrigation			L2	SBVWCD Parshall Flume	33.0	C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0	D2	Boullioun Box Weir	0.0	Parshall Flume (SCADA)			I2	Tailrace Pipeline	10.4
T1	Tate Pump Station to Zanja	0.0	R1	BVMWC Highline to Boullioun	0.0				L2	SBVWCD Parshall Flume	33.0
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	4.7				L2	Sedimentation Recharge	0.0
			minus						minus		
			B2	Gay Overflow	2.5				J2	Tailrace Valve to Parshall Flume	0.0
			C2	Irrigation	2.2				K2	Northfork Parshall Flume	6.5
									I1	Redlands Tunnel	0.5
									N2	Total SAR Deliveries	53.8

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	11.8	E3	M/C #1 Penstock Flow	25.7
B3	M/C #3 Penstock	13.9	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	8.5
D3	Total MC Inflows	25.7			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
H3	Yucaipa Regional Park	0.0	P3	Tate Inflow	13.5	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	8.7	T3	Mill Creek #1 Flow (Cooley Hat)	25.7	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	3.5	U3	Total MC Deliveries	25.7	V3	Zanja West Weir to CWC Canal	1.2
			T3	MC #1 Flow (Cooley Hat)	25.7				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	19.7				Y3	Crafton Reservoir Level (21.3)	17.1

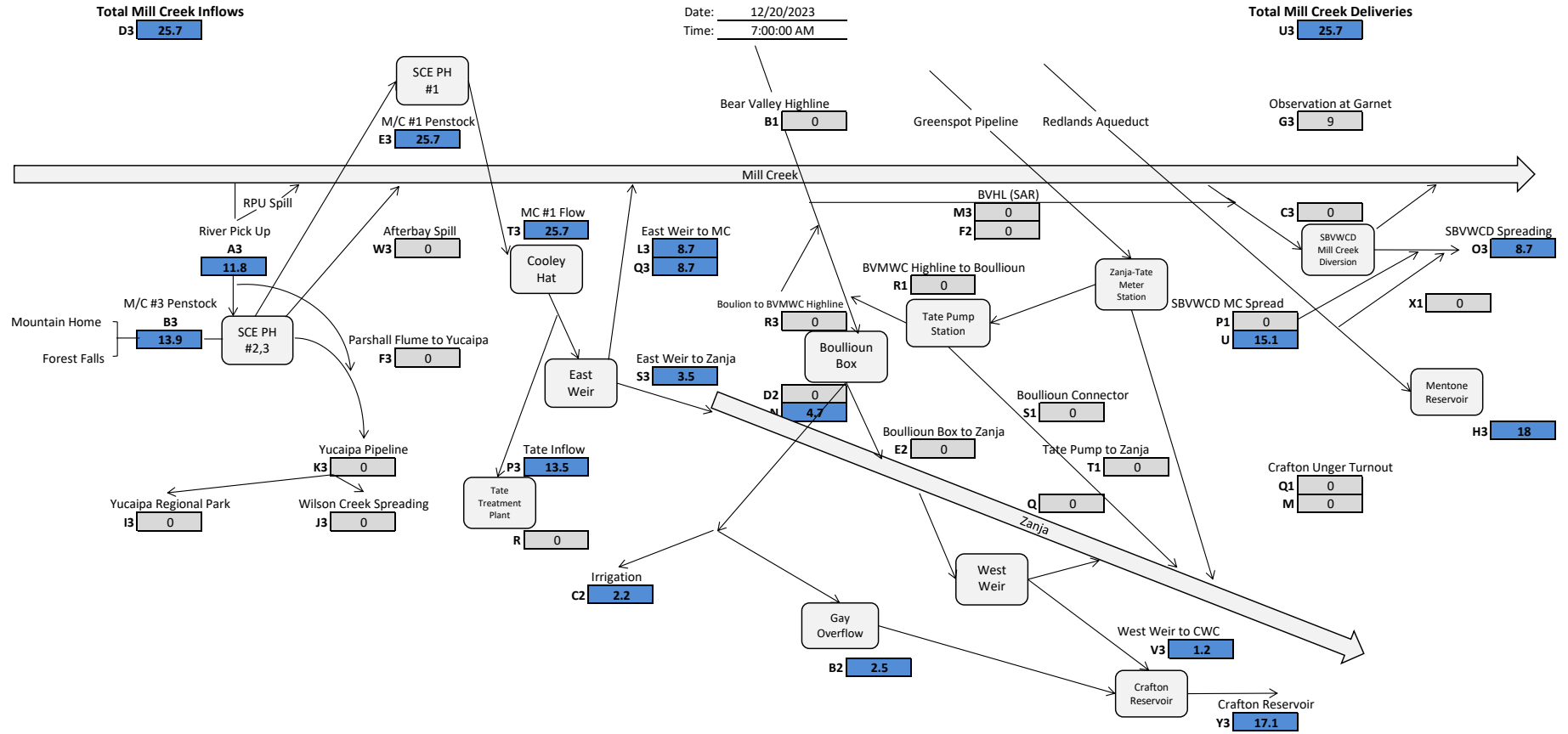
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	8.7
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	8.7

SBVWCD Recharge

Location		Type	Previous Day (AF)			WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	67.4		I4	6,950.9	176,000	I4	53,980.0	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0		O4	6.5		O4	1,444.3	
	Santa Ana Rvr to Mill Creek	SWP		0.0			1,409.4			2,278.2	
B4	Santa Ana River	SWP	F4	19.8		J4	2,728.7		J4	4,341.1	
C4	Mill Creek	MC	G4	0.0		K4	16,630.8	106,000	K4	16,006.0	106,000
D4	Mill Creek	SWP	H4	29.8		L4	4,819.7		L4	7,483.6	
	Plunge Creek	PLC		0.0			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)		9	Share of Lost Mill Creek Flow		4	Estimate Mill Creek flow (cfs)		5	Estimate Mill Creek Recharge (AF)		10
Flow in the River Above Alabama		9	Flowing Beyond Alabama		4	Total River Flow (cfs)		5	Total River Recharge (AF)		10

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Mill Creek Stations



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Santa Ana Stations

