

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 5/22/2024  
 Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	93.3
<b>N2</b>	<b>Total SAR Deliveries</b>	93.3
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	2.7
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	15.9
V1/Z2	Cuttle Weir and PH3 Afterbay	74.7

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	51.0
<b>U3</b>	<b>Total MC Deliveries</b>	51.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	38.0
T3	MC #1 Flow (Cooley Hat)	13.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	11.1
<b>V</b>	<b>Total SWP Deliveries</b>	11.1
J	Northfork Canal	5.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2176.8
Crafton Reservoir Level (21.3)	17.7
Mentone Reservoir Level	16.4

River Recharge	AF
Estimate SAR Recharge (AF)	30
Estimate Mill Creek Recharge (AF)	9
Estimated Total River Recharge (AF)	40

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	23,567	176,000
Santa Ana River to Mill Creek	SAR-MC	332	0
Santa Ana River to Mill Creek	SWP	1,696	0
Santa Ana River	SWP	6,045	0
Mill Creek	MC	8,115	1,068
Mill Creek	SWP	8,999	0
Plunge Creek	PLC	1,205	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 the Redlands Sandbox spill is coming from the Redlands Aqueduct.

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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	0.0	N	BVMWC Boulliou Box	5.1	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	5.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	0.0
D	Purchased Water	11.1	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	1.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0	V	<b>Total SWP Deliveries</b>	<b>11.1</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>11.1</b>									

### 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)	24.8	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boulliou Box Weir	0.0	E1	Main River Gage (USGS)	68.5	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boulliou Box to Zanja	0.0	minus		C1	Greenspot Pipeline	0.0	
K2	Northfork Parshall Flume	0.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	24.8
V1	PH#3 Afterbay SpillLoss to SAR	8.9	B1	<b>BVMWC Highline</b>	<b>0.0</b>	Z1	<b>SOD Release Subtotal</b>	<b>93.3</b>	E1	Main River Gage (USGS)	68.5
W1	Redlands Aqueduct / Sandbox	8.7							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	8.0							A5	<b>Total SAR Inflows</b>	<b>93.3</b>
Minus			Other					Edison Generation			
D1	BVMWC River PU (USGS)	24.8	J1	Big Bear Lake Release	0.6	w	Observation at SOD	2176.8	SAR PH#1 Generating	<input type="checkbox"/>	
I1	Redlands Tunnel	0.8	L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2175.5	SAR PH#3 Generating	<input type="checkbox"/>	
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>0.0</b>	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A			
K1	<b>PH3# Penstock (SCADA)</b>	<b>0.0</b>									

### 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	8.9
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	8.7
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	2.7	Y1	Redlands Sandbox Spill	8.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	Sedimentation Basin Recharge		0.0	Z2	Cuttle Weir To River	65.8
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>0.0</b>	L2	<b>SBVWCD Parshall Flume</b>	<b>2.7</b>	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boulliou	0.0				Parshall Flume (SCADA)		0.0	C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0	Irrigation					I2	Tailrace Pipeline	0.0	
T1	Tate Pump Station to Zanja	0.0	D2	Boulliou Box Weir	0.0				L2	SBVWCD Parshall Flume	2.7
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>	R1	BVMWC Highline to Boulliou	0.0				L2	Sedimentation Recharge	0.0
			N	BVMWC Boulliou Box	5.1				minus		
			minus					J2	Tailrace Valve to Parshall Flume	0.0	
			B2	Gay Overflow	3.0				K2	Northfork Parshall Flume	0.0
			C2	<b>Irrigation</b>	<b>2.1</b>				I1	Redlands Tunnel	0.8
									N2	<b>Total SAR Deliveries</b>	<b>93.3</b>

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	14.8
B3	M/C #3 Penstock	13.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	38.0	G3	Observation at Garnet	20.0
D3	<b>Total MC Inflows</b>	<b>51.0</b>			

### Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)		Total MC Deliveries			Other			
H3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.0	C3	SBVWCD Mill Creek Diversion	38.0	H3	Mentone Reservoir Level	16.4
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	13.0	R3	Boulliou to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	6.0	U3	<b>Total MC Deliveries</b>	<b>51.0</b>	V3	Zanja West Weir to CWC Canal	2.9
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>13.0</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	<b>Cooley Hat (SCADA)</b>	<b>14.6</b>				Y3	Crafton Reservoir Level (21.3)	17.7

  

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	38.0
L3	East Weir Recharge (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	<b>SBVWCD MC Spreading</b>	<b>38.0</b>

### SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target	
A4	Santa Ana River	SAR	E4	6.9	I4	23,567.0	176,000	I4	15,956.6	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	332.4		O4	325.9		
	Santa Ana Rvr to Mill Creek	SWP		0.0		1,695.9			286.5		
B4	Santa Ana River	SWP	F4	0.0	J4	6,044.6		J4	2,714.6		
C4	Mill Creek	MC	G4	75.4	K4	8,114.6	1,068	K4	7,905.6	106,000	
D4	Mill Creek	SWP	H4	0.0	L4	8,999.2		L4	<b>3,369.5</b>		
	Plunge Creek	PLC		6.0		1,204.6			1,183.0		
	SAR Passing Cuttle Weir (cfs)	66		Share of Lost SAR Flow	49.848		Estimate SAR flow (cfs)	16		Estimate SAR Recharge (AF)	30
	Mill Creek Passing Garnet (cfs)	20		Share of Lost Mill Creek Flow	15		Estimate Mill Creek flow (cfs)	5		Estimate Mill Creek Recharge (AF)	9
	Flow in the River Above Alabama	86		Flowing Beyond Alabama	65		Total River Flow (cfs)	21		Total River Recharge (AF)	40





