

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 3/16/2023  
 Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	332.2
<b>N2</b>	<b>Total SAR Deliveries</b>	332.2
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	1.7
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	210.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	20.5
Z2	Cuttle Weir to River	100.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	0.0
<b>U3</b>	<b>Total MC Deliveries</b>	0.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	12.0
T3	MC #1 Flow (Cooley Hat)	0.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	36.1
<b>V</b>	<b>Total SWP Deliveries</b>	36.1
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2025.6
Crafton Reservoir Level (21.3)	15.6
Mentone Reservoir Level	18.4

River Recharge	AF
Estimate SAR Recharge (AF)	57
Estimate Mill Creek Recharge (AF)	171
Estimated Total River Recharge (AF)	40

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	16,832	176,000
Santa Ana River to Mill Creek	SAR-MC	1,138	0
Santa Ana River	SWP	13	0
Mill Creek	MC	2,391	106,000
Mill Creek	SWP	105	0
Plunge Creek	PLC	1,561	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.

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### State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	3.1	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	0.0	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	3.1	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	<b>Total SWP Deliveries</b>	<b>36.1</b>
F	Recharge Project	33.0		Redlands Aqueduct Spreading	3.0						
G	<b>Total SWP Inflows</b>	<b>36.1</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)	33.0	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boulliou Box Weir	1.7	E1	Main River Gage (USGS)	297.5	B1	BVMWC Highline	1.7
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boulliou Box to Zanja	0.0	<b>minus</b>			C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	12.5	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	33.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>1.7</b>	Z1	<b>SOD Release Subtotal</b>	<b>330.5</b>	E1	Main River Gage (USGS)	297.5
W1	Redlands Aqueduct / Sandbox	21.3	<b>Other</b>						D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	0.3	W	Observation at SOD	2025.6	A5	<b>Total SAR Inflows</b>	<b>332.2</b>
<b>Minus</b>			L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	N/A	<b>Edison Generation</b>		
D1	BVMWC River PU (USGS)	33.0	X1	SAR-MC Spread (Red. Aqueduct)	9.0	Y	Debris Pool Elevation	N/A	SAR PH#1 Generating		<input type="checkbox"/>
I1	Redlands Tunnel	0.8							SAR PH#3 Generating		<input type="checkbox"/>
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>0.0</b>									
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	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	12.5	W1	Redlands Aqueduct / Sandbox	21.3
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	197.5	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	12.5	<b>minus</b>			Z2	Cuttle Weir To River	100.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>12.5</b>	L2	Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	1.7
R1	BVMWC Highline to Boulliou	0.0	<b>Irrigation</b>			L2	<b>SBVWCD Parshall Flume</b>	<b>210.0</b>	C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0	D2	Boulliou Box Weir	1.7	<b>Parshall Flume (SCADA)</b>			I2	Tailrace Pipeline	12.5
T1	Tate Pump Station to Zanja	0.0	R1	BVMWC Highline to Boulliou	0.0				L2	SBVWCD Parshall Flume	210.0
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>	N	BVMWC Boulliou Box	0.0				L2	Sedimentation Recharge	0.0
			<b>minus</b>						<b>minus</b>		
			B2	Gay Overflow	1.6				J2	Tailrace Valve to Parshall Flume	0.0
			C2	<b>Irrigation</b>	<b>0.1</b>				K2	Northfork Parshall Flume	12.5
									I1	Redlands Tunnel	0.8
									N2	<b>Total SAR Deliveries</b>	<b>332.2</b>

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	0.0
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	120.0
D3	<b>Total MC Inflows</b>	<b>0.0</b>			

### Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
H3	Yucaipa Regional Park	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	18.4
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	0.0	R3	Boulliou to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	0.0	U3	<b>Total MC Deliveries</b>	<b>0.0</b>	V3	Zanja West Weir to CWC Canal	0.0
<b>SBVWCD MC Spreading</b>			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>0.0</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
C3	SBVWCD Mill Creek Diversion	0.0	N3	<b>Cooley Hat (SCADA)</b>	<b>0.0</b>				Y3	Crafton Reservoir Level (21.3)	15.6
L3	East Weir (MC)	0.0									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	9.0									
	Redlands Aqueduct Spreading	3.0									
O3	<b>SBVWCD MC Spreading</b>	<b>12.0</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	407.5	I4	16,831.8	176,000	I4	16,344.3	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	9.5	O4	1,138.0		O4	1,447.0		
B4	Santa Ana River	SWP	F4	5.9	J4	12.6		J4	12.5		
C4	Mill Creek	MC	G4	0.0	K4	2,390.8	106,000	K4	1,766.1	106,000	
D4	Mill Creek	SWP	H4	57.5	L4	105.0		L4	105.0		
	Plunge Creek	PLC		59.5		1,560.6			1,474.2		
SAR Passing Cuttle Weir (cfs)			100	Share of Lost SAR Flow			100	Estimate SAR Recharge (AF)			57
Mill Creek Passing Garnet (cfs)			120	Share of Lost Mill Creek Flow			120	Estimate Mill Creek Recharge (AF)			171
Flow in the River Above Alabama			120	Flowing Beyond Alabama			120	Total River Recharge (AF)			40
				Estimate SAR flow (cfs)			100				
				Estimate Mill Creek flow (cfs)			120				
				Total River Flow (cfs)			220				