

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 3/27/2023  
 Time: 6:40:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	328.2
<b>N2</b>	<b>Total SAR Deliveries</b>	328.2
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	175.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	13.2
Z2	Cuttle Weir to River	140.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	71.4
<b>U3</b>	<b>Total MC Deliveries</b>	71.4
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	75.2
T3	MC #1 Flow (Cooley Hat)	9.6

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

Reservoir Levels	Feet
Observation at SOD	2226.8
Crafton Reservoir Level (21.3)	13.7
Mentone Reservoir Level	17.8

River Recharge	AF
Estimate SAR Recharge (AF)	111
Estimate Mill Creek Recharge (AF)	9
Estimated Total River Recharge (AF)	120

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	21,362	176,000
Santa Ana River to Mill Creek	SAR-MC	1,215	0
Santa Ana River	SWP	78	0
Mill Creek	MC	3,155	106,000
Mill Creek	SWP	527	0
Plunge Creek	PLC	1,883	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	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 Boullioun 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	0.0
D	Purchased Water	0.0	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	3.3	R	Tate Treatment Plant	0.0	V	<b>Total SWP Deliveries</b>	<b>3.3</b>
F	Recharge Project	3.3									
G	<b>Total SWP Inflows</b>	<b>3.3</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)	25.5	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	302.7	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	12.3	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	25.5
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>0.0</b>	Z1	<b>SOD Release Subtotal</b>	<b>328.2</b>	E1	Main River Gage (USGS)	302.7
W1	Redlands Aqueduct / Sandbox	14.2						D1a	BV Pick-Up gated	<input type="checkbox"/>	
Y1	Redlands Sandbox Spill	0.0						A5	<b>Total SAR Inflows</b>	<b>328.2</b>	
minus			Other						Edison Generation		
D1	BVMWC River PU (USGS)	25.5	J1	Big Bear Lake Release	0.3	W	Observation at SOD	2226.8	SAR PH#1 Generating <input type="checkbox"/>		
I1	Redlands Tunnel	1.0	L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	2225.3	SAR PH#3 Generating <input type="checkbox"/>		
A1	SAR PH #3 Penstock (calc)	0.0	X1	SAR-MC Spread (Red. Aqueduct)	9.2	Y	Debris Pool Elevation	N/A			
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	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	12.3	W1	Redlands Aqueduct / Sandbox	14.2
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	162.7	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	12.3	Sedimentation Basin Recharge 0.0			Z2	Cuttle Weir To River	140.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>12.3</b>	L2	<b>SBVWCD Parshall Flume</b>	<b>175.0</b>	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0						C1	Greenspot Pipeline	0.0	
S1	Tres Lagos	0.0	Irrigation			Parshall Flume (SCADA) 66.6			I2	Tailrace Pipeline	12.3
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	0.0				L2	SBVWCD Parshall Flume	175.0
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>	R1	BVMWC Highline to Boullioun	0.0				L2	Sedimentation Recharge	0.0
			N	BVMWC Boullioun Box	1.7				minus		
			minus						J2	Tailrace Valve to Parshall Flume	0.0
			B2	Gay Overflow	1.3				K2	Northfork Parshall Flume	12.3
			C2	<b>Irrigation</b>	<b>0.4</b>				I1	Redlands Tunnel	1.0
									N2	<b>Total SAR Deliveries</b>	<b>328.2</b>

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	9.6
B3	M/C #3 Penstock	9.6	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	61.8	G3	Observation at Garnet	2.0
D3	<b>Total MC Inflows</b>	<b>71.4</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	61.8	H3	Mentone Reservoir Level	17.8
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	4.2	T3	Mill Creek #1 Flow (Cooley Hat)	9.6	R3	Boullioun to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	5.4	U3	<b>Total MC Deliveries</b>	<b>71.4</b>	V3	Zanja West Weir to CWC Canal	3.0
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>9.6</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	<b>Cooley Hat (SCADA)</b>	<b>9.6</b>				Y3	Crafton Reservoir Level (21.3)	13.7
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	61.8									
L3	East Weir (MC)	4.2									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	9.2									
O3	<b>SBVWCD MC Spreading</b>	<b>75.2</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	1,372.6		I4	21,362.2	176,000	I4	20,874.7	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	35.9		O4	1,215.1		O4	1,031.6		
B4	Santa Ana River	SWP	F4	17.8		J4	78.0		J4	78.0		
C4	Mill Creek	MC	G4	138.8		K4	3,154.8	106,000	K4	2,530.0	106,000	
D4	Mill Creek	SWP	H4	0.0		L4	527.0		L4	<b>527.0</b>		
	Plunge Creek	PLC		90.1			1,882.8			1,761.3		
SAR Passing Cuttle Weir (cfs)		140	Share of Lost SAR Flow		118.31	Estimate SAR flow (cfs)		22	Estimate SAR Recharge (AF)			111
Mill Creek Passing Garnet (cfs)		2	Share of Lost Mill Creek Flow		2	Estimate Mill Creek flow (cfs)		0	Estimate Mill Creek Recharge (AF)			9
Flow in the River Above Alabama		142	Flowing Beyond Alabama		120	Total River Flow (cfs)		22	Total River Recharge (AF)			120