

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

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

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	159.8
<b>N2</b>	<b>Total SAR Deliveries</b>	159.8
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	3.9
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	79.0
G2	North Fork Canal Weir	7.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	23.6
Z2	Cuttle Weir to River	46.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	58.0
<b>U3</b>	<b>Total MC Deliveries</b>	58.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	58.0
T3	MC #1 Flow (Cooley Hat)	0.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	0.0
<b>V</b>	<b>Total SWP Deliveries</b>	0.0
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	2187.3
Crafton Reservoir Level (21.3)	16.2
Mentone Reservoir Level	17.0

River Recharge	AF
Estimate SAR Recharge (AF)	33
Estimate Mill Creek Recharge (AF)	17
Estimated Total River Recharge (AF)	50

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	36,973	176,000
Santa Ana River to Mill Creek	SAR-MC	1,449	0
Santa Ana River	SWP	234	0
Mill Creek	MC	13,140	106,000
Mill Creek	SWP	1,197	0
Plunge Creek	PLC	2,549	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 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	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	0.0	R	Tate Treatment Plant	0.0	V	<b>Total SWP Deliveries</b>	<b>0.0</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>0.0</b>									

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline		SOD Release Subtotal		Total SAR Inflows				
G2	Northfork Canal Weir	7.3	A2	Newport	0.0	D1	BVMWC River PU (USGS)	32.6	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boulliou Box Weir	3.9	E1	Main River Gage (USGS)	123.3	B1	BVMWC Highline	3.9
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	1.7	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	32.6
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>3.9</b>	Z1	<b>SOD Release Subtotal</b>	<b>155.9</b>	E1	Main River Gage (USGS)	123.3
W1	Redlands Aqueduct / Sandbox	24.6							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.0	Other						A5	<b>Total SAR Inflows</b>	<b>159.8</b>
	<b>Minus</b>		J1	Big Bear Lake Release	0.3	w	Observation at SOD	2187.3			
D1	BVMWC River PU (USGS)	32.6	L1	SCE SAR AVM (SCADA)	3.2	x	SOD Reservoir Elevation (scada)	2186.8	Edison Generation		
I1	Redlands Tunnel	1.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#1 Generating	<input type="checkbox"/>	
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>0.0</b>							SAR PH#3 Generating	<input type="checkbox"/>	
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	7.3	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	1.7	W1	Redlands Aqueduct / Sandbox	24.6
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	77.3	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	1.7				Z2	Cuttle Weir To River	46.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>9.0</b>				B1	BVMWC Highline	3.9
R1	BVMWC Highline to Boulliou	0.0							C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0	Irrigation						I2	Tailrace Pipeline	9.0
T1	Tate Pump Station to Zanja	0.0	D2	Boulliou Box Weir	3.9	L2	<b>SBVWCD Parshall Flume</b>	<b>79.0</b>	L2	SBVWCD Parshall Flume	79.0
	<b>Greenspot Pipeline</b>	<b>0.0</b>	R1	BVMWC Highline to Boulliou	0.0		<b>Parshall Flume (SCADA)</b>	<b>60.2</b>	L2	Sedimentation Recharge	0.0
			N	BVMWC Boulliou Box	0.0					<b>minus</b>	
									J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	1.7
									I1	Redlands Tunnel	1.0
									N2	<b>Total SAR Deliveries</b>	<b>159.8</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	58.0	G3	Observation at Garnet	30.0
D3	<b>Total MC Inflows</b>	<b>58.0</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	58.0	H3	Mentore Reservoir Level	17.0
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>58.0</b>	V3	Zanja West Weir to CWC Canal	0.7
									W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	16.2
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	58.0	T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>0.0</b>						
L3	East Weir (MC)	0.0	N3	<b>Cooley Hat (SCADA)</b>	<b>0.0</b>						
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	0.0									
O3	<b>SBVWCD MC Spreading</b>	<b>58.0</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	156.7	I4	36,973.4	176,000	I4	36,485.9	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	1,448.8		O4	1,265.3	
B4	Santa Ana River	SWP	F4	0.0	J4	234.3		J4	234.4	
C4	Mill Creek	MC	G4	119.0	K4	13,140.3	106,000	K4	12,515.5	106,000
D4	Mill Creek	SWP	H4	0.0	L4	1,196.9		L4	<b>962.6</b>	
	Plunge Creek	PLC		4.0		2,549.2			2,427.8	
SAR Passing Cuttle Weir (cfs)	46		Share of Lost SAR Flow	24.211	Estimate SAR flow (cfs)	22	Estimate SAR Recharge (AF)	33		
Mill Creek Passing Garnet (cfs)	30		Share of Lost Mill Creek Flow	16	Estimate Mill Creek flow (cfs)	14	Estimate Mill Creek Recharge (AF)	17		
Flow in the River Above Alabama	76		Flowing Beyond Alabama	40	Total River Flow (cfs)	36	Total River Recharge (AF)	50		