

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 5/22/2023  
 Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	238.0
<b>N2</b>	<b>Total SAR Deliveries</b>	238.0
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	1.7
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	79.0
G2	North Fork Canal Weir	7.1
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	19.3
Z2	Cuttle Weir to River	130.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	16.6
<b>U3</b>	<b>Total MC Deliveries</b>	16.6
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	7.3
T3	MC #1 Flow (Cooley Hat)	16.6

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	4.8
<b>V</b>	<b>Total SWP Deliveries</b>	4.8
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	2205.0
Crafton Reservoir Level (21.3)	20.0
Mentone Reservoir Level	17.2

River Recharge	AF
Estimate SAR Recharge (AF)	129
Estimate Mill Creek Recharge (AF)	77
Estimated Total River Recharge (AF)	205

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	33,219	176,000
Santa Ana River to Mill Creek	SAR-MC	1,449	0
Santa Ana River	SWP	234	0
Mill Creek	MC	10,417	106,000
Mill Creek	SWP	1,197	0
Plunge Creek	PLC	2,367	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	3.8	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	3.8	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	1.0	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>4.8</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>4.8</b>									

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	7.1	A2	Newport	0.0	D1	BVMWC River PU (USGS)	41.3	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.9	D2	Boulliou Box Weir	1.7	E1	Main River Gage (USGS)	195.0	B1	BVMWC Highline	1.7
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	14.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	41.3
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>236.3</b>	E1	Main River Gage (USGS)	195.0
W1	Redlands Aqueduct / Sandbox	21.3							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.0							A5	<b>Total SAR Inflows</b>	<b>238.0</b>
	minus		Other								
D1	BVMWC River PU (USGS)	41.3	J1	Big Bear Lake Release	0.3	w	Observation at SOD	2205.0	Edison Generation		
I1	Redlands Tunnel	2.0	L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2204.1	SAR PH#1 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	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	7.1	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	14.0	W1	Redlands Aqueduct / Sandbox	21.3
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	65.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	14.0				Z2	Cuttle Weir To River	130.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>22.0</b>		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	1.7
R1	BVMWC Highline to Boulliou	0.0				L2	<b>SBVWCD Parshall Flume</b>	<b>79.0</b>	C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0	Irrigation				<b>Parshall Flume (SCADA)</b>	<b>66.6</b>	I2	Tailrace Pipeline	22.0
T1	Tate Pump Station to Zanja	0.0	D2	Boulliou Box Weir	1.7				L2	SBVWCD Parshall Flume	79.0
	Greenspot Pipeline	<b>0.0</b>	R1	BVMWC Highline to Boulliou	0.0				L2	Sedimentation Recharge	0.0
			N	BVMWC Boulliou Box	3.8					minus	
									J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	14.0
									I1	Redlands Tunnel	2.0
									N2	<b>Total SAR Deliveries</b>	<b>238.0</b>

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	16.6
B3	M/C #3 Penstock	16.6	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	150.0
D3	<b>Total MC Inflows</b>	<b>16.6</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	Mentore Reservoir Level	17.2
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	7.3	T3	Mill Creek #1 Flow (Cooley Hat)	16.6	R3	Boulliou to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	9.3	U3	<b>Total MC Deliveries</b>	<b>16.6</b>	V3	Zanja West Weir to CWC Canal	6.1
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>16.6</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	<b>Cooley Hat (SCADA)</b>	<b>16.6</b>				Y3	Crafton Reservoir Level (21.3)	20.0

### SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	470.1	I4	33,218.5	176,000	I4	32,731.0	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	234.3	
C4	Mill Creek	MC	G4	301.5	K4	10,417.1	106,000	K4	9,792.3	106,000
D4	Mill Creek	SWP	H4	0.0	L4	1,196.9		L4	<b>962.6</b>	
	Plunge Creek	PLC		17.9		2,366.7			2,245.3	
SAR Passing Cuttle Weir (cfs)	130		Share of Lost SAR Flow	116.07	Estimate SAR flow (cfs)	14	Estimate SAR Recharge (AF)	129		
Mill Creek Passing Garnet (cfs)	150		Share of Lost Mill Creek Flow	134	Estimate Mill Creek flow (cfs)	16	Estimate Mill Creek Recharge (AF)	77		
Flow in the River Above Alabama	280		Flowing Beyond Alabama	250	Total River Flow (cfs)	30	Total River Recharge (AF)	205		

# Santa Ana River - Mill Creek Cooperative Water Project Mill Creek Stations



