

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 11/16/2023  
 Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	3.0
<b>N2</b>	<b>Total SAR Deliveries</b>	3.0
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	3.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	0.0
	Other	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	24.1
<b>U3</b>	<b>Total MC Deliveries</b>	24.1
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	24.1

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	92.9
<b>V</b>	<b>Total SWP Deliveries</b>	92.9
J	Northfork Canal	0.0
L	Redlands Aqueduct	8.8
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2190.3
Crafton Reservoir Level (21.3)	17.5
Mentone Reservoir Level	17.8

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	14
Estimated Total River Recharge (AF)	14

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	4,488	176,000
Santa Ana River to Mill Creek	SAR-MC	6	0
Santa Ana River to Mill Creek	SWP	1,066	0
Santa Ana River	SWP	981	0
Mill Creek	MC	0	106,000
Mill Creek	SWP	3,297	0
Plunge Creek	PLC	12	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 Mill Creek at the east weir is being turned out to river due to Mill Creek diversion project.

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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	49.0	N	BVMWC Boulliou Box	5.1	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	6.7	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	8.8	R	Tate Treatment Plant	0.0	V	<b>Total SWP Deliveries</b>	<b>92.9</b>
F	Recharge Project	86.2									
G	<b>Total SWP Inflows</b>	<b>92.9</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)	3.0	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boulliou Box Weir	0.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	0.0
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	3.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	3.0
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>0.0</b>	Z1	<b>SOD Release Subtotal</b>	<b>3.0</b>	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	0.7	<b>Other</b>			<b>minus</b>			D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	1.0	W	Observation at SOD	2190.3	A5	<b>Total SAR Inflows</b>	<b>3.0</b>
<b>Minus</b>			L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	2187.5	<b>Edison Generation</b>		
D1	BVMWC River PU (USGS)	3.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	N/A	SAR PH#1 Generating	<input type="checkbox"/>	
I1	Redlands Tunnel	0.7							SAR PH#3 Generating	<input type="checkbox"/>	
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>0.0</b>									
K1	<b>PH#3 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	3.0	W1	Redlands Aqueduct / Sandbox	0.7
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	3.0	<b>minus</b>			Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>3.0</b>	L2	<b>SBVWCD Parshall Flume</b>	<b>3.0</b>	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boulliou	0.0	<b>Irrigation</b>			<b>Parshall Flume (SCADA)</b>			C2	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0	D2	Boulliou Box Weir	0.0				I2	SBVWCD Parshall Flume	3.0
T1	Tate Pump Station to Zanja	0.0	R1	BVMWC Highline to Boulliou	0.0				L2	Sedimentation Recharge	0.0
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>	N	BVMWC Boulliou Box	5.1				<b>minus</b>		
			B2	Gay Overflow	3.4				J2	Tailrace Valve to Parshall Flume	0.0
			<b>Irrigation</b>						K2	Northfork Parshall Flume	3.0
					1.7				I1	Redlands Tunnel	0.7
									N2	<b>Total SAR Deliveries</b>	<b>3.0</b>

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	8.6	E3	M/C #1 Penstock Flow	24.1
B3	M/C #3 Penstock	15.5	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	20.0
D3	<b>Total MC Inflows</b>	<b>24.1</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	17.8
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	20.6	T3	Mill Creek #1 Flow (Cooley Hat)	24.1	R3	Boulliou to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	3.5	U3	<b>Total MC Deliveries</b>	<b>24.1</b>	V3	Zanja West Weir to CWC Canal	2.3
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>24.1</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	<b>Cooley Hat (SCADA)</b>	<b>28.6</b>				Y3	Crafton Reservoir Level (21.3)	17.5

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	<b>SBVWCD MC Spreading</b>	<b>0.0</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	5.6	I4	4,488.2	176,000	I4	51,517.3	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	6.0		O4	1,444.3		
	Santa Ana Rvr to Mill Creek	SWP		25.0		1,066.4			1,935.2		
B4	Santa Ana River	SWP	F4	80.4	J4	980.8		J4	2,593.2		
C4	Mill Creek	MC	G4	0.0	K4	0.0	106,000	K4	16,006.0	106,000	
D4	Mill Creek	SWP	H4	69.4	L4	3,297.4		L4	<b>5,961.3</b>		
	Plunge Creek	PLC		6.0		11.6			1,614.2		
	SAR Passing Cuttle Weir (cfs)	0		Share of Lost SAR Flow	0		Estimate SAR flow (cfs)	0		Estimate SAR Recharge (AF)	0
	Mill Creek Passing Garnet (cfs)	20		Share of Lost Mill Creek Flow	9		Estimate Mill Creek flow (cfs)	11		Estimate Mill Creek Recharge (AF)	14
	Flow in the River Above Alabama	20		Flowing Beyond Alabama	9		Total River Flow (cfs)	11		Total River Recharge (AF)	14