

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 9/21/2023  
 Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	95.4
<b>N2</b>	<b>Total SAR Deliveries</b>	95.4
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	79.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	1.4
z2	Cuttle Weir to River	15.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	14.6
<b>U3</b>	<b>Total MC Deliveries</b>	14.6
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	14.6

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	71.3
<b>V</b>	<b>Total SWP Deliveries</b>	71.3
J	Northfork Canal	0.0
L	Redlands Aqueduct	20.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2185.9
Crafton Reservoir Level (21.3)	16.9
Mentone Reservoir Level	17.9

River Recharge	AF
Estimate SAR Recharge (AF)	16
Estimate Mill Creek Recharge (AF)	35
Estimated Total River Recharge (AF)	52

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	45,761	176,000
Santa Ana River to Mill Creek	SAR-MC	1,622	0
Santa Ana River to Mill Creek	SWP	712	0
Santa Ana River	SWP	932	0
Mill Creek	MC	16,631	106,000
Mill Creek	SWP	2,664	0
Plunge Creek	PLC	2,721	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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Date: 9/21/2023  
Time: 6:45:00 AM

### State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	8.6	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	35.3	N	BVMWC Boullioun Box	6.2	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	28.0	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	1.2
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	20.0	R	Tate Treatment Plant	0.0	V	<b>Total SWP Deliveries</b>	<b>71.3</b>
F	Recharge Project	43.3									
G	<b>Total SWP Inflows</b>	<b>71.3</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)	12.7	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	82.7	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boullioun Box to Zanja	0.0	<b>minus</b>		C1	Greenspot Pipeline	0.0	
K2	Northfork Parshall Flume	11.3	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	12.7
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>95.4</b>	E1	Main River Gage (USGS)	82.7
W1	Redlands Aqueduct / Sandbox	0.0	<b>Other</b>					D1a	BV Pick-Up gated	<input type="checkbox"/>	
Y1	Redlands Sandbox Spill	2.2	J1	Big Bear Lake Release	1.2	W	Observation at SOD	2185.9	A5	<b>Total SAR Inflows</b>	<b>95.4</b>
<b>Minus</b>			L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	2185.5	<b>Edison Generation</b>		
D1	BVMWC River PU (USGS)	12.7	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	N/A	SAR PH#1 Generating	<input type="checkbox"/>	
I1	Redlands Tunnel	0.8							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	11.3	W1	Redlands Aqueduct / Sandbox	0.0
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	67.7	Y1	Redlands Sandbox Spill	2.2
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	11.3	<b>minus</b>		Z2	Cuttle Weir To River	15.0	
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>11.3</b>	L2	<b>SBVWCD Parshall Flume</b>	<b>79.0</b>	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0	<b>Irrigation</b>					C1	Greenspot Pipeline	0.0	
S1	Tres Lagos	0.0	D2	Boullioun Box Weir	0.0		Sedimentation Basin Recharge	0.0	I2	Tailrace Pipeline	11.3
T1	Tate Pump Station to Zanja	0.0	R1	BVMWC Highline to Boullioun	0.0		<b>Parshall Flume (SCADA)</b>	<b>61.3</b>	L2	SBVWCD Parshall Flume	79.0
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>	N	BVMWC Boullioun Box	6.2				L2	Sedimentation Recharge	0.0
			<b>minus</b>					<b>minus</b>			
			B2	Gay Overflow	3.0				J2	Tailrace Valve to Parshall Flume	0.0
			C2	<b>Irrigation</b>	<b>3.2</b>				K2	Northfork Parshall Flume	11.3
									I1	Redlands Tunnel	0.8
									N2	<b>Total SAR Deliveries</b>	<b>95.4</b>

### Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	14.6
B3	M/C #3 Penstock	14.6	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	30.0
D3	<b>Total MC Inflows</b>	<b>14.6</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	Mentone Reservoir Level	17.9
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	14.6	R3	Boullioun to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	14.6	U3	<b>Total MC Deliveries</b>	<b>14.6</b>	V3	Zanja West Weir to CWC Canal	2.1
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>14.6</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	<b>Cooley Hat (SCADA)</b>	<b>13.5</b>				Y3	Crafton Reservoir Level (21.3)	16.9
<b>SBVWCD MC Spreading</b>											
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	147.6	I4	45,760.8	176,000	I4	45,273.3	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	1,621.9		O4	1,438.3		
	Santa Ana Rvr to Mill Creek	SWP		15.9		712.4			712.4		
B4	Santa Ana River	SWP	F4	71.0	J4	931.7		J4	931.7		
C4	Mill Creek	MC	G4	0.0	K4	16,630.8	106,000	K4	16,006.0	106,000	
D4	Mill Creek	SWP	H4	0.0	L4	2,663.9		L4	<b>2,663.9</b>		
	Plunge Creek	PLC		0.4		2,720.9			2,599.4		
	SAR Passing Cuttle Weir (cfs)	15		Share of Lost SAR Flow	3.3333		Estimate SAR flow (cfs)	12		Estimate SAR Recharge (AF)	16
	Mill Creek Passing Garnet (cfs)	30		Share of Lost Mill Creek Flow	7		Estimate Mill Creek flow (cfs)	23		Estimate Mill Creek Recharge (AF)	35
	Flow in the River Above Alabama	45		Flowing Beyond Alabama	10		Total River Flow (cfs)	35		Total River Recharge (AF)	52