

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 6/4/2019

Time: 7:45:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	234.0
<b>N2</b>	<b>Total SAR Deliveries</b>	234.0
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	108.0
G2	North Fork Canal Weir	5.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	19.7
Z2	Cuttle Weir to River	101.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	35.5
<b>U3</b>	<b>Total MC Deliveries</b>	35.5
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	17.0
T3	MC #1 Flow (Cooley Hat)	18.5

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	41.5
<b>V</b>	<b>Total SWP Deliveries</b>	41.5
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	6.0

Reservoir Levels	Feet
Observation at SOD	2234.8
Crafton Reservoir Level (21.3)	16.0
Mentone Reservoir Level	19.8

River Recharge	AF
Estimate SAR Recharge (AF)	23
Estimate Mill Creek Recharge (AF)	0
Estimated Total River Recharge (AF)	23

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	25,683	176,000
Santa Ana River to Mill Creek	SAR-MC	213	0
Santa Ana River	SWP	8,595	0
Mill Creek	MC	8,727	106,000
Mill Creek	SWP	5,562	0
Redlands	SWP	0	0
Loma Linda	SWP	0	0
East Valley	SWP	134	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, and not necessarily what is at that location throughout the day.

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**Date:** 6/4/2019  
**Time:** 7:45:00 AM

### State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	6.0	H	EVWD City Creek	3.0	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	6.0
C	Exchange Water	0.0	J	Northfork Canal	0.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	32.5
D	Purchased Water	35.5	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>41.5</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>41.5</b>									

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	5.3	A2	Newport	0.0	D1	BVMWC River PU (USGS)	25.0	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boulliou Box Weir	0.0	E1	Main River Gage (USGS)	209.0	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	0.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	25.0
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>234.0</b>	E1	Main River Gage (USGS)	209.0
W1	Redlands Aqueduct / Sandbox	20.8							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.0							A5	<b>Total SAR Inflows</b>	<b>234.0</b>
	<b>minus</b>										
D1	BVMWC River PU (USGS)	25.0									
I1	Redlands Tunnel	1.1									
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>0.0</b>									
K1	<b>PH#3 Penstock (SCADA)</b>	<b>N/A</b>									

  

Other			Edison Generation		
J1	Big Bear Lake Release	0.3	w	Observation at SOD	2234.8
L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2236.1
X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A

  

SAR PH#1 Generating		<input type="checkbox"/>
SAR PH#3 Generating		<input type="checkbox"/>

### Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.3	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	0.0	W1	Redlands Aqueduct / Sandbox	20.8
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	108.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0		<b>minus</b>		Z2	Cuttle Weir To River	101.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>5.3</b>		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boulliou	0.0				L2	<b>SBVWCD Parshall Flume</b>	<b>108.0</b>	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boulliou	0.0					<b>Parshall Flume (SCADA)</b>	<b>108.4</b>	I2	Tailrace Pipeline	5.3
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	108.0
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>								<b>minus</b>	

  

Irrigation		
D2	Boulliou Box Weir	0.0
N	BVMWC Boulliou Box	0.0
	<b>minus</b>	
B2	Gay Overflow	0.0
C2	<b>Irrigation</b>	<b>0.0</b>

  

Deliveries		
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	1.1
N2	<b>Total SAR Deliveries</b>	<b>234.0</b>

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	18.5	E3	M/C #1 Penstock Flow	18.5
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	17.0	G3	Observation at Garnet	0.0
D3	<b>Total MC Inflows</b>	<b>35.5</b>			

### Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
	Yucaipa Regional Park	0.0	P3	Tate Inflow	14.5	C3	SBVWCD Mill Creek Diversion	17.0	H3	Mentone Reservoir Level	19.8
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	18.5	R3	Boulliou to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	4.0	U3	<b>Total MC Deliveries</b>	<b>35.5</b>	V3	Zanja West Weir to CWC Canal	2.0
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>18.5</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	<b>Cooley Hat (SCADA)</b>	<b>20.3</b>				Y3	Crafton Reservoir Level (21.3)	16.0

  

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	17.0
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>17.0</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		218.2	I4		25,683.4	176,000	I4		25,612.5	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4		0.0	O4		213.3		O4		121.8	
B4	Santa Ana River	SWP	F4		0.0	J4		8,594.9		J4		7,579.7	
C4	Mill Creek	MC	G4		41.7	K4		8,727.2	106,000	K4		8,114.7	106,000
D4	Mill Creek	SWP	H4		50.8	L4		5,561.5		L4		5,561.5	
	Redlands	SWP			0.0			0.0				0.0	
	Loma Linda	SWP			0.0			0.0				0.0	
	East Valley	SWP			0.0			134.4				0.0	
SAR Passing Cuttle Weir (cfs)		101	Share of Lost SAR Flow		70	Estimate SAR flow (cfs)		31		Estimate SAR Recharge (AF)		23	
Mill Creek Passing Garnet (cfs)		0	Share of Lost Mill Creek Flow		0	Estimate Mill Creek flow (cfs)		0		Estimate Mill Creek Recharge (AF)		0	
Flow in the River Above Alabama		101	Flowing Beyond Alabama		70	Total River Flow (cfs)		31		Total River Recharge (AF)		23	