

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 5/11/2020

Time: 6:40:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	85.5
<b>N2</b>	<b>Total SAR Deliveries</b>	85.5
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	5.9
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	51.4
G2	North Fork Canal Weir	3.3
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	24.0
	Other	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	23.1
<b>U3</b>	<b>Total MC Deliveries</b>	23.1
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	16.8
T3	MC #1 Flow (Cooley Hat)	15.1

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	0.9
<b>V</b>	<b>Total SWP Deliveries</b>	0.9
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.9

Reservoir Levels	Feet
Observation at SOD	2161.7
Crafton Reservoir Level (21.3)	14.7
Mentone Reservoir Level	21.4

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	4
Estimated Total River Recharge (AF)	4

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	13,782	176,000
Santa Ana River to Mill Creek	SAR-MC	1,756	0
Santa Ana River	SWP	3,890	0
Mill Creek	MC	4,989	106,000
Mill Creek	SWP	3,090	0
Redlands	SWP	0	0
Loma Linda	SWP	0	0
East Valley	SWP	0	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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### State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.9	H	EVVWD 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 Boullioun Box	0.0	T	Newport for BVMWC	0.9
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>0.9</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>0.9</b>									

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows		
G2	Northfork Canal Weir	3.3	A2	Newport	0.0	D1	BVMWC River PU (USGS)	31.6
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	5.9	E1	Main River Gage (USGS)	48.0
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boullioun Box to Zanja	0.0			
K2	Northfork Parshall Flume	3.4	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>5.9</b>	Z1	<b>SOD Release Subtotal</b>	<b>79.6</b>
W1	Redlands Aqueduct / Sandbox	24.6						
Y1	Redlands Sandbox Spill	0.0						
			<b>Other</b>					
D1	BVMWC River PU (USGS)	31.6	J1	Big Bear Lake Release	0.5	w	Observation at SOD	2161.7
I1	Redlands Tunnel	0.6	L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2161.8
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>0.0</b>	X1	SAR-MC Spread (Red. Aqueduct)	7.7	y	Debris Pool Elevation	N/A
K1	<b>PH3# Penstock (SCADA)</b>	<b>N/A</b>						

  

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

### Santa Ana River Deliveries

Greenspot Pipeline		Tailrace Pipeline		SBVWCD Parshall FlumeTo Basins		Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	3.3	J2	Tailrace Valve to Parshall Flume	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	3.4
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	48.0
P1	SBVWCD Mill Creek Spreading	0.0	k2	Northfork Parshall Flume	3.4		<b>minus</b>	
Q1	Crafton WC Unger Lane	0.0	i2	<b>Tailrace Pipeline</b>	<b>7.6</b>		Sedimentation Basin Recharge	0.0
R1	BVMWC Highline to Boullioun	0.0				L2	<b>SBVWCD Parshall Flume</b>	<b>51.4</b>
S1	Crafton WC Boullioun	0.0					<b>Parshall Flume (SCADA)</b>	<b>52.4</b>
T1	Tate Pump Station to Zanja	0.0	<b>Irrigation</b>					
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>	D2	Boullioun Box Weir	5.9			
			N	BVMWC Boullioun Box	0.0			
				<b>minus</b>				
			B2	Gay Overflow	2.9			
			C2	<b>Irrigation</b>	<b>3.0</b>			

  

Total SAR Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	24.6
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	<b>BVMWC Highline</b>	<b>5.9</b>
C1	Greenspot Pipeline	0.0
I2	<b>Tailrace Pipeline</b>	<b>7.6</b>
L2	SBVWCD Parshall Flume	51.4
	<b>minus</b>	
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	3.4
I1	Redlands Tunnel	0.6
N2	<b>Total SAR Deliveries</b>	<b>85.5</b>

### Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	15.1	E3	M/C #1 Penstock Flow	15.1
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	8.0	G3	Observation at Garnet	0.0
D3	<b>Total MC Inflows</b>	<b>23.1</b>			

### Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other		
J3	Yucaipa Regional Park	0.0	P3	Tate Inflow	14.0	C3	SBVWCD Mill Creek Diversion	8.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	1.1	T3	<b>Mill Creek #1 Flow (Cooley Hat)</b>	<b>15.1</b>
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	0.0	U3	<b>Total MC Deliveries</b>	<b>23.1</b>
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>15.1</b>			
			N3	<b>Cooley Hat (SCADA)</b>	<b>18.0</b>			

  

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	8.0
L3	East Weir (MC)	1.1
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	7.7
O3	<b>SBVWCD MC Spreading</b>	<b>16.8</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	327.3	I4	13,782.4	176,000	I4	11,321.4	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	49.4	O4	1,756.1		O4	1,394.7	
B4	Santa Ana River	SWP	F4	0.0	J4	3,890.4		J4	0.0	
C4	Mill Creek	MC	G4	29.8	K4	4,988.8	106,000	K4	3,804.9	106,000
D4	Mill Creek	SWP	H4	0.0	L4	3,090.2		L4	0.0	
	Redlands	SWP		0.0		0.0			0.0	
	Loma Linda	SWP		0.0		0.0			0.0	
	East Valley	SWP		0.0		0.0			0.0	
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)	0		Share of Lost Mill Creek Flow	0	Estimate Mill Creek flow (cfs)	0		Estimate Mill Creek Recharge (AF)	4	
Flow in the River Above Alabama	0		Flowing Beyond Alabama	0	Total River Flow (cfs)	0		Total River Recharge (AF)	4	