

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 6/14/2019

Time: 7:35:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	191.5
<b>N2</b>	<b>Total SAR Deliveries</b>	191.5
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	156.0
G2	North Fork Canal Weir	5.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	30.2
	Other	0.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	42.3
<b>V</b>	<b>Total SWP Deliveries</b>	42.3
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Location	Type
Santa Ana River	SAR
Santa Ana River to Mill Creek	SAR-MC
Santa Ana River	SWP
Mill Creek	MC
Mill Creek	SWP
Redlands	SWP
Loma Linda	SWP
East Valley	SWP

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	31.1
<b>U3</b>	<b>Total MC Deliveries</b>	31.1
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	11.0
T3	MC #1 Flow (Cooley Hat)	20.1

Reservoir Levels	Feet
Observation at SOD	2202.9
Crafton Reservoir Level (21.3)	10.5
Mentone Reservoir Level	21.9

River Recharge	AF
Estimate SAR Recharge (AF)	12
Estimate Mill Creek Recharge (AF)	0
Estimated Total River Recharge (AF)	12

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	28,473	176,000
Santa Ana River to Mill Creek	SAR-MC	267	0
Santa Ana River	SWP	8,595	0
Mill Creek	MC	8,991	106,000
Mill Creek	SWP	6,257	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.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 6/14/2019  
Time: 7:35:00 AM

### State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	4.0	H	EVWDC City Creek	5.0	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	4.0	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	33.3
D	Purchased Water	38.3	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>42.3</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>42.3</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)	35.5	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	156.0	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boullioun Box to Zanja	0.0	minus		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)	35.5
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>191.5</b>	E1	Main River Gage (USGS)	156.0
W1	Redlands Aqueduct / Sandbox	27.0							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	4.0							A5	<b>Total SAR Inflows</b>	<b>191.5</b>
minus			Other			w	Observation at SOD	2202.9	Edison Generation		
D1	BVMWC River PU (USGS)	35.5	J1	Big Bear Lake Release	0.3	x	SOD Reservoir Elevation (scada)	NA	SAR PH#1 Generating	<input type="checkbox"/>	
I1	Redlands Tunnel	0.8	L1	SCE SAR AVM (SCADA)	0.0	y	Debris Pool Elevation	N/A	SAR PH#3 Generating	<input type="checkbox"/>	
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>0.0</b>	X1	SAR-MC Spread (Red. Aqueduct)	0.0						
K1	<b>PH#3 Penstock (SCADA)</b>	<b>N/A</b>									

### 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	27.0
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	156.0	Y1	Redlands Sandbox Spill	4.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	minus		Z2	Cuttle Weir To River	0.0	
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 Boullioun	0.0				L2	<b>SBVWCD Parshall Flume</b>	<b>156.0</b>	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	Irrigation				<b>Parshall Flume (SCADA)</b>	<b>155.4</b>	I2	Tailrace Pipeline	5.3
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	0.0				L2	SBVWCD Parshall Flume	156.0
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>	N	BVMWC Boullioun Box	4.0				minus		
			minus						J2	Tailrace Valve to Parshall Flume	0.0
			B2	Gay Overflow	1.1				K2	Northfork Parshall Flume	0.0
			C2	<b>Irrigation</b>	<b>2.9</b>				I1	Redlands Tunnel	0.8
									N2	<b>Total SAR Deliveries</b>	<b>191.5</b>

### Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	20.1	E3	M/C #1 Penstock Flow	20.1
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	11.0	G3	Observation at Garnet	0.0
D3	<b>Total MC Inflows</b>	<b>31.1</b>			

### Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
J3	Wilson Creek Spreading	0.0	P3	Tate Inflow	15.5	C3	SBVWCD Mill Creek Diversion	11.0	H3	Mentone Reservoir Level	21.9
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	20.1	R3	Boullioun to BVMWC Highline	0.0
			S3	East Weir to Zanja	4.6	U3	<b>Total MC Deliveries</b>	<b>31.1</b>	V3	Zanja West Weir to CWC Canal	1.2
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>20.1</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	<b>Cooley Hat (SCADA)</b>	<b>21.0</b>				Y3	Crafton Reservoir Level (21.3)	10.5
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	11.0									
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>11.0</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	309.4	I4	28,472.8	176,000	I4	28,406.9	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	267.0		O4	175.5	
B4	Santa Ana River	SWP	F4	0.0	J4	8,594.9		J4	7,579.7	
C4	Mill Creek	MC	G4	19.8	K4	8,990.8	106,000	K4	8,378.3	106,000
D4	Mill Creek	SWP	H4	67.4	L4	6,256.8		L4	6,256.8	
	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)	0		Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	0		Estimate SAR Recharge (AF)	12	
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	0		Flowing Beyond Alabama	0	Total River Flow (cfs)	0		Total River Recharge (AF)	12	