

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 3/7/2019

Time: 8:00:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	121.1
<b>N2</b>	<b>Total SAR Deliveries</b>	121.1
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	118.0
G2	North Fork Canal Weir	3.1
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	0.0
	Other	0.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	86.9
<b>V</b>	<b>Total SWP Deliveries</b>	86.9
J	Northfork Canal	0.0
L	Redlands Aqueduct	9.9
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

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

Reservoir Levels	Feet
Observation at SOD	2303.0
Crafton Reservoir Level (21.3)	16.1
Mentone Reservoir Level	20.7

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	69
Estimated Total River Recharge (AF)	69

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	4,942	176,000
Santa Ana River to Mill Creek	SAR-MC	201	0
Santa Ana River	SWP	6,071	0
Mill Creek	MC	2,141	106,000
Mill Creek	SWP	353	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. Water at SARC is recharge for Groundwater Council.

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State Water Project											
Inflows			Deliveries								
A	BBMWD In-lieu	1.0	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	49.0	N	BVMWC Boullioun Box	1.0	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	24.0
D	Purchased Water	85.9	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	9.9	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries 86.9	
F	Recharge Project	0.0									
G	Total SWP Inflows 86.9										

Santa Ana River Inflows												
SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows			
G2	Northfork Canal Weir	3.1	A2	Newport	0.0	D1	BVMWC River PU (USGS)	5.8	A1	SAR PH #3 Penstock (calc)	0.0	
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	115.3	B1	BVMWC Highline	0.0	
J2	Tailrace Valve to Parshall Flume	2.7	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)	5.8	
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	121.1	E1	Main River Gage (USGS)	115.3	
W1	Redlands Aqueduct / Sandbox	0.7							D1a	BV Pick-Up gated	<input type="checkbox"/>	
Y1	Redlands Sandbox Spill	0.0	Other						A5	Total SAR Inflows	121.1	
minus			J1	Big Bear Lake Release	0.3	W	Observation at SOD	2303.0	Edison Generation			
D1	BVMWC River PU (USGS)	5.8	L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	2302.9	SAR PH#1 Generating			<input type="checkbox"/>
A1	Redlands Tunnel	0.7	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	N/A	SAR PH#3 Generating			<input type="checkbox"/>
I1	SAR PH #3 Penstock (calc)	0.0										
K1	PH3# Penstock (SCADA)	N/A										

Santa Ana River Deliveries											
Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	3.1	J2	Tailrace Valve to Parshall Flume	2.7	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	0.7
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	2.7	H1	SBVWCD Diversion	115.3	Y1	Redlands Sandbox Spill	0.0
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	Tailrace Pipeline	5.8		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0				L2	SBVWCD Parshall Flume	118.0	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	Irrigation				Parshall Flume (SCADA)	107.0	I2	Tailrace Pipeline	5.8
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	0.0				L2	SBVWCD Parshall Flume	118.0
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	1.0				minus		
			minus						J2	Tailrace Valve to Parshall Flume	2.7
			B2	Gay Overflow	0.7				K2	Northfork Parshall Flume	0.0
			C2	Irrigation	0.3				I1	Redlands Tunnel	0.7
									N2	Total SAR Deliveries	121.1

Mill Creek Inflows					
Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	0.0
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	30.0
D3	Total MC Inflows	0.0			

Mill Creek Deliveries												
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other			
	Yucaipa Regional Park	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	20.7	
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	0.0	R3	Boullion to BVMWC Highline	0.0	
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	0.0	V3	Zanja West Weir to CWC Canal	0.0	
SBVWCD MC Spreading			T3	MC #1 Flow (Cooley Hat)	0.0							
			N3	Cooley Hat (SCADA)	0.0							
						W3						
						Y3						
						Crafton Reservoir Level (21.3)						16.1

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	230.1		I4	4,942.1	176,000	I4	4,871.2	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0		O4	200.5		O4	109.0		
B4	Santa Ana River	SWP	F4	109.3		J4	6,071.3		J4	5,056.4		
C4	Mill Creek	MC	G4	5.5		K4	2,140.6	106,000	K4	1,528.1	106,000	
D4	Mill Creek	SWP	H4	52.6		L4	352.6		L4	352.6		
	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 Cattle Weir (cfs)		0	Share of Lost SAR Flow			0	Estimate SAR flow (cfs)		0	Estimate SAR Recharge (AF)		0
Mill Creek Passing Garnet (cfs)		30	Share of Lost Mill Creek Flow			0	Estimate Mill Creek flow (cfs)		30	Estimate Mill Creek Recharge (AF)		69
Flow in the River Above Alabama		30	Flowing Beyond Alabama			10	Total River Flow (cfs)		0	Total River Recharge (AF)		69