

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 12/20/2019

Time: 7:05:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	42.1
<b>N2</b>	<b>Total SAR Deliveries</b>	42.1
A1	SAR PH#3 Penstock (calc)	35.3
B1	BVMWC Highline	2.9
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	16.0
G2	North Fork Canal Weir	5.4
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	17.8
	Other	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	26.4
<b>U3</b>	<b>Total MC Deliveries</b>	26.4
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	22.0
T3	MC #1 Flow (Cooley Hat)	26.4

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	38.6
<b>V</b>	<b>Total SWP Deliveries</b>	38.6
J	Northfork Canal	0.0
L	Redlands Aqueduct	3.9
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	NA
Crafton Reservoir Level (21.3)	20.5
Mentone Reservoir Level	20.5

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

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	2,093	176,000
Santa Ana River to Mill Creek	SAR-MC	268	0
Santa Ana River	SWP	0	0
Mill Creek	MC	899	106,000
Mill Creek	SWP	2,783	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.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 12/20/2019  
Time: 7:05:00 AM

### State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	7.0	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	0.0
C	Exchange Water	0.0	J	Northfork Canal	0.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	27.7
D	Purchased Water	38.6	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	3.9	R	Tate Treatment Plant	0.0	V	<b>Total SWP Deliveries</b>	<b>38.6</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>38.6</b>									

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	5.4	A2	Newport	0.0	D1	BVMWC River PU (USGS)	3.9	A1	SAR PH #3 Penstock (calc)	35.3
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	2.9	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.9
J2	Tailrace Valve to Parshall Flume	11.4	E2	Boullioun Box to Zanja	0.0		<b>minus</b>		C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	4.6	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	1.0	D1	BVMWC River PU (USGS)	3.9
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>2.9</b>	Z1	<b>SOD Release Subtotal</b>	<b>2.9</b>	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	18.1							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0							A5	<b>Total SAR Inflows</b>	<b>42.1</b>
			<b>Other</b>								
D1	BVMWC River PU (USGS)	3.9	J1	Big Bear Lake Release	0.9	w	Observation at SOD	NA	<b>Edison Generation</b>		
I1	Redlands Tunnel	0.3	L1	SCE SAR AVM (SCADA)	40.1	x	SOD Reservoir Elevation (scada)	N/A	SAR PH#1 Generating		☐
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>35.3</b>	X1	SAR-MC Spread (Red. Aqueduct)	11.4	y	Debris Pool Elevation	N/A	SAR PH#3 Generating		☑
K1	<b>PH3# Penstock (SCADA)</b>	<b>23.2</b>									

### Santa Ana River Deliveries

Greenspot Pipeline		Tailrace Pipeline		SBVWCD Parshall Flume To Basins		Deliveries					
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.4	J2	Tailrace Valve to Parshall Flume	11.4	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	4.6	W1	Redlands Aqueduct / Sandbox	18.1
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	11.4	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	4.6		<b>minus</b>		Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>21.4</b>		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	2.9
R1	BVMWC Highline to Boullioun	0.0				L2	<b>SBVWCD Parshall Flume</b>	<b>16.0</b>	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	<b>Irrigation</b>				<b>Parshall Flume (SCADA)</b>	<b>16.9</b>	I2	Tailrace Pipeline	21.4
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	2.9				L2	SBVWCD Parshall Flume	16.0
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>	N	BVMWC Boullioun Box	0.0					<b>minus</b>	
									J2	Tailrace Valve to Parshall Flume	11.4
									K2	Northfork Parshall Flume	4.6
									I1	Redlands Tunnel	0.3
									N2	<b>Total SAR Deliveries</b>	<b>42.1</b>

### Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	11.9	E3	M/C #1 Penstock Flow	26.4
B3	M/C #3 Penstock	14.5	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	0.0
D3	<b>Total MC Inflows</b>	<b>26.4</b>			

### Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
	Yucaipa Regional Park	0.0	P3	Tate Inflow	12.4	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	20.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	10.6	T3	Mill Creek #1 Flow (Cooley Hat)	26.4	R3	Boullioun to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	3.4	U3	<b>Total MC Deliveries</b>	<b>26.4</b>	V3	Zanja West Weir to CWC Canal	1.9
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>26.4</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	<b>Cooley Hat (SCADA)</b>	<b>29.1</b>				Y3	Crafton Reservoir Level (21.3)	20.5
<b>SBVWCD MC Spreading</b>											
C3	SBVWCD Mill Creek Diversion	0.0									
L3	East Weir (MC)	10.6									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	11.4									
O3	<b>SBVWCD MC Spreading</b>	<b>22.0</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	31.7	I4	2,093.3	176,000	I4	37,439.4	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	23.0	O4	268.3		O4	447.9	
	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	0.0	
C4	Mill Creek	MC	G4	23.8	K4	898.9	106,000	K4	9,610.3	106,000
D4	Mill Creek	SWP	H4	55.1	L4	2,782.7		L4	11,100.2	
	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)	0	
Flow in the River Above Alabama	0		Flowing Beyond Alabama	0	Total River Flow (cfs)	0		Total River Recharge (AF)	0	