

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 8/9/2019

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	55.0
<b>N2</b>	<b>Total SAR Deliveries</b>	55.0
A1	SAR PH#3 Penstock (calc)	23.4
B1	BVMWC Highline	4.4
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	18.7
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	31.9
	Other	0.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	55.4
<b>V</b>	<b>Total SWP Deliveries</b>	55.4
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.9

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	32.0
<b>U3</b>	<b>Total MC Deliveries</b>	32.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	32.0

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	14.5
Mentone Reservoir Level	22.0

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	7
Estimated Total River Recharge (AF)	7

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	33,967	176,000
Santa Ana River to Mill Creek	SAR-MC	267	0
Santa Ana River	SWP	11,395	0
Mill Creek	MC	9,324	106,000
Mill Creek	SWP	8,618	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: 8/9/2019  
 Time: 7:00:00 AM

### State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	9.0	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	44.5	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	55.4	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	1.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0	V	<b>Total SWP Deliveries</b>	<b>55.4</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>55.4</b>									

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	0.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	20.5	A1	SAR PH #3 Penstock (calc)	23.4
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	4.4	E1	Main River Gage (USGS)	6.7	B1	BVMWC Highline	4.4
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boullioun Box to Zanja	0.0		<b>minus</b>		C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	12.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	3.0	D1	BVMWC River PU (USGS)	20.5
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>4.4</b>	Z1	<b>SOD Release Subtotal</b>	<b>24.2</b>	E1	Main River Gage (USGS)	6.7
W1	Redlands Aqueduct / Sandbox	32.4							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0							A5	<b>Total SAR Inflows</b>	<b>55.0</b>
D1	BVMWC River PU (USGS)	20.5									
I1	Redlands Tunnel	0.5									
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>23.4</b>									
K1	<b>PH#3 Penstock (SCADA)</b>	<b>N/A</b>									

  

Other			Edison Generation		
J1	Big Bear Lake Release	0.6			
L1	SCE SAR AVM (SCADA)	0.0	w	Observation at SOD	N/A
X1	SAR-MC Spread (Red. Aqueduct)	0.0	x	SOD Reservoir Elevation (scada)	2151.8
			y	Debris Pool Elevation	N/A

  

SAR PH#1 Generating		SAR PH#3 Generating	
	<input checked="" type="checkbox"/>		<input checked="" 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	0.0	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	12.0	W1	Redlands Aqueduct / Sandbox	32.4
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	6.7	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	12.0		<b>minus</b>		Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>12.0</b>		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	4.4
R1	BVMWC Highline to Boullioun	0.0				L2	<b>SBVWCD Parshall Flume</b>	<b>18.7</b>	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0					<b>Parshall Flume (SCADA)</b>	<b>19.2</b>	I2	Tailrace Pipeline	12.0
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	18.7
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>								<b>minus</b>	
									J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	12.0
									I1	Redlands Tunnel	0.5
									N2	<b>Total SAR Deliveries</b>	<b>55.0</b>

  

Irrigation		
D2	Boullioun Box Weir	4.4
N	BVMWC Boullioun Box	0.0
	<b>minus</b>	
B2	Gay Overflow	2.2
C2	<b>Irrigation</b>	<b>2.2</b>

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	12.1	E3	M/C #1 Penstock Flow	32.0
B3	M/C #3 Penstock	19.9	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	5.0
D3	<b>Total MC Inflows</b>	<b>32.0</b>			

### Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
	Yucaipa Regional Park	0.0	P3	Tate Inflow	19.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	22.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	7.4	T3	Mill Creek #1 Flow (Cooley Hat)	32.0	R3	Boullioun to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	5.6	U3	<b>Total MC Deliveries</b>	<b>32.0</b>	V3	Zanja West Weir to CWC Canal	2.1
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>32.0</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	<b>Cooley Hat (SCADA)</b>	<b>32.0</b>				Y3	Crafton Reservoir Level (21.3)	14.5

  

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)			Calendar Year To Date (AF)		
A4	Santa Ana River		SAR	E4		43.8	I4		33,966.8	14		33,895.9
M4	Santa Ana Rvr to Mill Creek		SAR-MC	N4		0.0	O4		267.0	O4		175.5
B4	Santa Ana River		SWP	F4		88.3	J4		11,395.4	J4		10,380.1
C4	Mill Creek		MC	G4		0.0	K4		9,324.0	K4		8,711.5
D4	Mill Creek		SWP	H4		0.0	L4		8,617.6	L4		8,617.6
	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 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)	5	Share of Lost Mill Creek Flow	0	Estimate Mill Creek flow (cfs)	5	Estimate Mill Creek Recharge (AF)	7
Flow in the River Above Alabama	5	Flowing Beyond Alabama	0	Total River Flow (cfs)	5	Total River Recharge (AF)	7