

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 5/20/2016

Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	17.5
<b>N2</b>	<b>Total SAR Deliveries</b>	17.5
A1	SAR PH#3 Penstock (calc)	8.2
B1	BVMWC Highline	6.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	1.0
G2	North Fork Canal Weir	3.1
H2	Edwards Canal	0.8
W1	Redlands Aqueduct (calc)	6.6
	Other	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	13.0
<b>U3</b>	<b>Total MC Deliveries</b>	13.0
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	13.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	13.2
<b>V</b>	<b>Total SWP Deliveries</b>	13.2
J	Northfork Canal	5.0
L	Redlands Aqueduct	6.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	1.2

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	15.6
Mentone Reservoir Level	21.4

River Recharge	AF
Estimate SAR Recharge	0.0
Estimate Mill Creek Recharge	0.0
<b>Total River Recharge</b>	<b>0.0</b>

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	2,613	123,000
Santa Ana River to Mill Creek	SAR-MC	132	0
Santa Ana River	SWP	0	0
Mill Creek	MC	1,036	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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 thruout the day.

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Date: 5/20/2016  
Time: 6:45:00 AM

### State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	6.0	H	EVWD Treatment Plant	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	1.2
C	Exchange Water	0.0	J	Northfork Canal	5.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	0.0
D	Purchased Water	7.2	K	Edwards Canal	0.0	Q	Zanja	0.0	V	EV HQ Irrigation	1.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	6.0	R	Tate Treatment Plant	0.0		<b>Total SWP Deliveries</b>	<b>13.2</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>13.2</b>									

### 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)	3.3	A1	SAR PH #3 Penstock (calc)	8.2
H2	Edwards Canal	0.8	D2	Boullioun Box Weir	6.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	6.0
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	1.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	3.3
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>6.0</b>	Z1	<b>SOD Release Subtotal</b>	<b>3.3</b>	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	6.7	Other		Seven Oaks Dam		D1a	BV Pick-Up gated	<input type="checkbox"/>		
Y1	Redlands Sandbox Spill	0.2	J1	Big Bear Lake Release	0.7	w	Observation at SOD	2134.0	A5	<b>Total SAR Inflows</b>	<b>17.5</b>
minus			L1	SCE SAR AVM (SCADA)	16.5	x	SOD Reservoir Elevation (scada)	N/A			
D1	BVMWC River PU (USGS)	3.3	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>8.2</b>									
K1	<b>PH3# Penstock (SCADA)</b>	<b>8.4</b>									

### Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline		SBVWCD Parshall Flume To Basins		Deliveries				
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	3.1	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.8	K2	Northfork Parshall Flume	1.0	W1	Redlands Aqueduct / Sandbox	6.7
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.2
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	1.0	L2	<b>SBVWCD Parshall Flume</b>	<b>1.0</b>	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>4.9</b>	Parshall Flume (SCADA)		<b>0.4</b>	B1	BVMWC Highline	6.0
R1	BVMWC Highline to Boullioun	0.0	Irrigation		Irrigation		C1	Greenspot Pipeline	0.0		
S1	Crafton WC Boullioun	0.0	D2	Boullioun Box Weir	6.0	minus		I2	Tailrace Pipeline	4.9	
T1	Tate Pump Station to Zanja	0.0	minus		B2	Gay Overflow	3.5	L2	SBVWCD Parshall Flume	1.0	
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>	Irrigation		C2	<b>Irrigation</b>	<b>2.5</b>	minus			
								J2	Tailrace Valve to Parshall Flume	0.0	
								K2	Northfork Parshall Flume	1.0	
								I1	Redlands Tunnel	0.3	
								N2	<b>Total SAR Deliveries</b>	<b>17.5</b>	

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.9	E3	M/C #1 Penstock Flow	13.0
B3	M/C #3 Penstock	10.1	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>13.0</b>			

### Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other				
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	10.1	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	21.4
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	13.0	R3	Boullioun to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	2.9	U3	<b>Total MC Deliveries</b>	<b>13.0</b>	V3	Zanja West Weir to CWC Canal	1.0
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>13.0</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	15.6

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	2.2	I4	2,613.0	123,000	I4	2,255.8	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	132.0		O4	132.0	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	0.0	
C4	Mill Creek	MC	G4	0.0	K4	1,036.1	73,800	K4	848.9	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								

SAR Passing Cuttle Weir	0	Share of Lost Flow	0	Estimate SAR Recharge	0
Mill Creek Passing Garnet	0	Share of Lost Flow	0	Estimate Mill Creek Recharge	0
Flow in the River Above Alabama	0	Flowing Beyond Alabama	0	Total River Recharge	0