

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 12/15/2016

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	15.8
<b>N2</b>	<b>Total SAR Deliveries</b>	15.8
A1	SAR PH#3 Penstock (calc)	7.0
B1	BVMWC Highline	4.8
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	0.0
G2	North Fork Canal Weir	4.9
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	6.1
	Other	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	5.4
<b>U3</b>	<b>Total MC Deliveries</b>	5.4
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	6.3
T3	MC #1 Flow (Cooley Hat)	4.0

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	18.6
Mentone Reservoir Level	19.6

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	49.7
<b>V</b>	<b>Total SWP Deliveries</b>	49.7
J	Northfork Canal	5.0
L	Redlands Aqueduct	21.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	1.0

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	490	166,000
Santa Ana River to Mill Creek	SAR-MC	158	0
Santa Ana River	SWP	0	0
Mill Creek	MC	81	99,700
Mill Creek	SWP	0	0
Redlands	SWP	10	0
Loma Linda	SWP	487	0
EV HQ	SWP	3,117	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: 12/15/2016  
Time: 7:00:00 AM

### State Water Project

Inflows		Deliveries									
A	BBMWD In-lieu	21.5	H	EVWVD 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	21.2	N	BVMWC Boullioun Box	0.0	T	Newport for BVMWC	1.0
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	28.2	K	Edwards Canal	0.0	Q	Zanja	0.0	V	Tres Lagos	1.5
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	21.0	R	Tate Treatment Plant	0.0		<b>Total SWP Deliveries</b>	<b>49.7</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>49.7</b>									

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	4.9	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.0	A1	SAR PH #3 Penstock (calc)	7.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	4.8	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	4.8
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	0.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	4.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>4.8</b>	Z1	<b>SOD Release Subtotal</b>	<b>4.0</b>	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	6.2							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.2							A5	<b>Total SAR Inflows</b>	<b>15.8</b>
	<b>minus</b>										
D1	BVMWC River PU (USGS)	4.0									
I1	Redlands Tunnel	0.3									
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>7.0</b>									
K1	<b>PH3# Penstock (SCADA)</b>	<b>10.8</b>									

Other		Seven Oaks Dam			
J1	Big Bear Lake Release	0.9	w	Observation at SOD	N/A
L1	SCE SAR AVM (SCADA)	14.5	x	SOD Reservoir Elevation (scada)	N/A
X1	SAR-MC Spread (Red. Aqueduct)	4.9	y	Debris Pool Elevation	0.0

Edison Generation	
SAR PH#1 Generating	<input checked="" type="checkbox"/>
SAR PH#3 Generating	<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	4.9	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	6.2
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	0.0	L2	<b>SBVWCD Parshall Flume</b>	<b>0.0</b>	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>4.9</b>		<b>Parshall Flume (SCADA)</b>	<b>0.0</b>	B1	BVMWC Highline	4.8
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0							I2	Tailrace Pipeline	4.9
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	0.0
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>								<b>minus</b>	

Irrigation		
D2	Boullioun Box Weir	4.8
	<b>minus</b>	
B2	Gay Overflow	2.4
C2	<b>Irrigation</b>	<b>2.4</b>

Total SAR Deliveries		
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	0.3
N2	<b>Total SAR Deliveries</b>	<b>15.8</b>

### Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	1.4	E3	M/C #1 Penstock Flow	4.0
B3	M/C #3 Penstock	2.6	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	1.4	G3	Observation at Garnet	0.0
D3	<b>Total MC Inflows</b>	<b>5.4</b>			

### Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	4.0	C3	SBVWCD Mill Creek Diversion	1.4	H3	Mentone Reservoir Level	19.6
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	4.0	R3	Boullioun to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	0.0	U3	<b>Total MC Deliveries</b>	<b>5.4</b>	V3	Zanja West Weir to CWC Canal	0.0
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>4.0</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	18.6

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	1.4
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	4.9
O3	<b>SBVWCD MC Spreading</b>	<b>6.3</b>

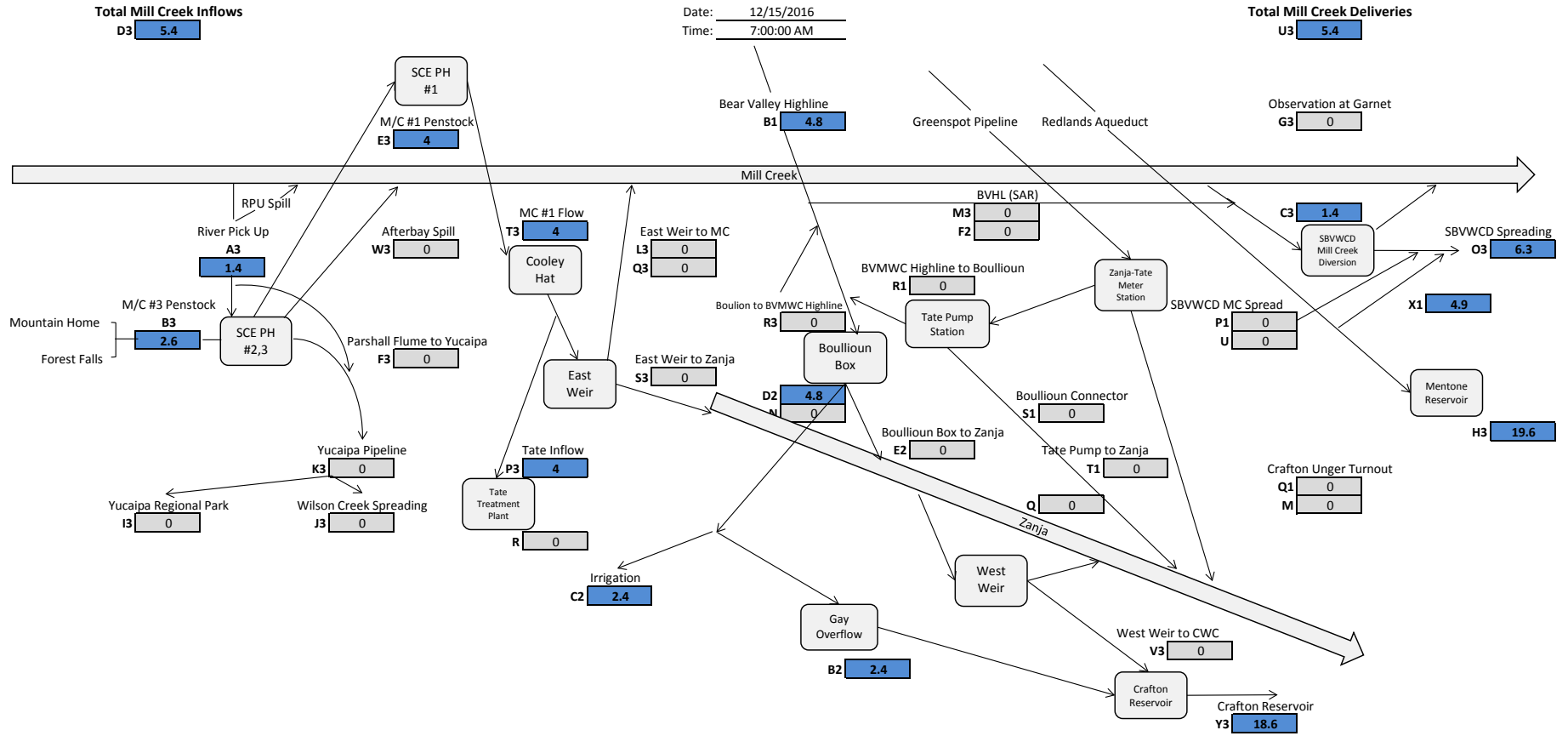
### SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	489.6	166,000	I4	2,766.6	166,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	10.0	O4	157.9		O4	323.6	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	15.0	
C4	Mill Creek	MC	G4	0.5	K4	81.0	99,700	K4	951.3	99,700
D4	Mill Creek	SWP	H4	0.0	L4	0.0		L4	17.6	
	Redlands	SWP		0.4		10.2			179.8	
	Loma Linda	SWP		0.0		486.6			486.6	
	East Valley	SWP		42.1		3,116.8			5,029.3	

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

# Santa Ana River - Mill Creek Cooperative Water Project Mill Creek Stations



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## Santa Ana Stations

