

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 9/15/2017

Time: 6:35:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	20.2
<b>N2</b>	<b>Total SAR Deliveries</b>	20.2
A1	SAR PH#3 Penstock (calc)	13.4
B1	BVMWC Highline	5.2
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	0.0
G2	North Fork Canal Weir	10.8
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	4.2
	Other	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	17.8
<b>U3</b>	<b>Total MC Deliveries</b>	17.8
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	17.8

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	9.9
M	Crafton Unger Lane	2.0
T	Newport to BVMWC	1.0

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	18.0
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	19,462	166,000
Santa Ana River to Mill Creek	SAR-MC	1,462	0
Santa Ana River	SWP	10,710	0
Mill Creek	MC	5,395	99,700
Mill Creek	SWP	2,338	0
Redlands	SWP	33	0
Loma Linda	SWP	487	0
East Valley	SWP	6,484	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. San Bernardino Valley Municipal is spreading in Mill Creek and at the Santa Ana Low.

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### State Water Project

Inflows		Deliveries									
A	BBMWD In-lieu	9.9	H	EVWD Treatment Plant	0.0	M	Crafton Unger Lane	2.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	31.3	N	BVMWC Boulliou Box	0.0	T	Newport for BVMWC	1.0
C	Exchange Water	0.0	J	Northfork Canal	0.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	10.1
D	Purchased Water	45.5	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	1.1
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	9.9	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	10.8	A2	Newport	0.0	D1	BVMWC River PU (USGS)	1.6	A1	SAR PH #3 Penstock (calc)	13.4
H2	Edwards Canal	0.0	D2	Boulliou Box Weir	5.2	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	5.2
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boulliou 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)	1.6
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>5.2</b>	Z1	<b>SOD Release Subtotal</b>	<b>1.6</b>	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	4.4	Other					D1a	BV Pick-Up gated	<input type="checkbox"/>	
Y1	Redlands Sandbox Spill	0.1	J1	Big Bear Lake Release	1.3	w	Observation at SOD	N/A	A5	<b>Total SAR Inflows</b>	<b>20.2</b>
minus			L1	SCE SAR AVM (SCADA)	21.4	x	SOD Reservoir Elevation (scada)	N/A	Edison Generation		
D1	BVMWC River PU (USGS)	1.6	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#1 Generating	<input checked="" type="checkbox"/>	
I1	Redlands Tunnel	0.3						SAR PH#3 Generating	<input checked="" type="checkbox"/>		
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>13.4</b>									
K1	<b>PH3# Penstock (SCADA)</b>	<b>14.6</b>									

### Santa Ana River Deliveries

Greenspot Pipeline		Tailrace Pipeline		SBVWCD Parshall Flume To Basins		Deliveries					
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	10.8	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	4.4
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.1
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>10.8</b>	B1	<b>Parshall Flume (SCADA)</b>	<b>0.0</b>	B1	BVMWC Highline	5.2
R1	BVMWC Highline to Boulliou	0.0	Irrigation			C1	Greenspot Pipeline	0.0	I2	Tailrace Pipeline	10.8
S1	Crafton WC Boulliou	0.0	D2	Boulliou Box Weir	5.2	L2	SBVWCD Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0
T1	Tate Pump Station to Zanja	0.0	minus								
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>	B2	Gay Overflow	1.4	Irrigation					
			C2		3.8			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>20.2</b>	

### Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	6.5	E3	M/C #1 Penstock Flow	17.8
B3	M/C #3 Penstock	11.3	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>17.8</b>			

### Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	15.5	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	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	17.8	R3	Boulliou to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	2.3	W3	Mill Creek PH #2,3 Afterbay Spill	0.0	V3	Zanja West Weir to CWC Canal	3.7
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>17.8</b>	U3	<b>Total MC Deliveries</b>	<b>17.8</b>	W3	Mill Creek PH #2,3 Afterbay Spill	0.0
								Y3	Crafton Reservoir Level (21.3)	18.0	

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
W3	Mill Creek PH #2,3 Afterbay Spill	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	E4	0.0	I4	19,462.2	166,000	I4	18,559.6	166,000
M4	Santa Ana Rvr to Mill Creek	N4	0.0	O4	1,461.7		O4	1,299.1	
B4	Santa Ana River	F4	62.1	J4	10,710.0		J4	10,710.0	
C4	Mill Creek	G4	0.0	K4	5,394.5	99,700	K4	5,165.9	99,700
D4	Mill Creek	H4	25.8	L4	2,338.3		L4	2,338.3	
	Redlands		0.0		32.9			0.0	
	Loma Linda		0.0		486.6			1,939.8	
	East Valley		0.0		6,484.4			2,816.0	
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		