

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 10/16/2017

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	17.0
<b>N2</b>	<b>Total SAR Deliveries</b>	17.0
A1	SAR PH#3 Penstock (calc)	9.9
B1	BVMWC Highline	5.5
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	0.0
G2	North Fork Canal Weir	8.6
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	2.9
	Other	0.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	54.0
<b>V</b>	<b>Total SWP Deliveries</b>	54.0
J	Northfork Canal	0.0
L	Redlands Aqueduct	7.8
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	1.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	15.4
<b>U3</b>	<b>Total MC Deliveries</b>	15.4
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	15.4

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	18.1
Mentone Reservoir Level	21.2

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	0	166,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	1,263	0
Mill Creek	MC	0	99,700
Mill Creek	SWP	0	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 thruout the day. San Bernardino Valley Municipal Water District is spreading at the Santa Ana Low.

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State Water Project											
Inflows		Deliveries									
A	BBMWD In-lieu	7.8	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	45.2	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	0.0
D	Purchased Water	46.2	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	7.8	R	Tate Treatment Plant	0.0	V	<b>Total SWP Deliveries</b>	<b>54.0</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>54.0</b>									

Santa Ana River Inflows													
SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows				
G2	Northfork Canal Weir	8.6	A2	Newport	0.0	D1	BVMWC River PU (USGS)	1.6	A1	SAR PH #3 Penstock (calc)	9.9		
H2	Edwards Canal	0.0	D2	Boulliou Box Weir	5.5	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	5.5		
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>5.5</b>	Z1	<b>SOD Release Subtotal</b>	<b>1.6</b>	E1	Main River Gage (USGS)	0.0		
W1	Redlands Aqueduct / Sandbox	3.1	Other						D1a	BV Pick-Up gated	<input type="checkbox"/>		
Y1	Redlands Sandbox Spill	0.1	J1	Big Bear Lake Release	1.2	w	Observation at SOD	N/A	A5	<b>Total SAR Inflows</b>	<b>17.0</b>		
minus			L1	SCE SAR AVM (SCADA)	18.7	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>9.9</b>											
K1	<b>PH3# Penstock (SCADA)</b>	<b>11.0</b>											

Santa Ana River Deliveries											
Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	8.6	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	3.1
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>8.6</b>	B1	<b>Parshall Flume (SCADA)</b>	<b>0.0</b>	B1	BVMWC Highline	5.5
R1	BVMWC Highline to Boulliou	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boulliou	0.0				D2	Boulliou Box Weir	5.5	I2	Tailrace Pipeline	8.6
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>				B2	Gay Overflow	2.7	minus		
						C2	<b>Irrigation</b>	<b>2.8</b>	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>17.0</b>

Mill Creek Inflows					
Total MC Inflows		Other			
A3	RPU Flow	5.9	E3	M/C #1 Penstock Flow	15.4
B3	M/C #3 Penstock	9.5	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>15.4</b>			

Mill Creek Deliveries											
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	11.7	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	21.2
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	15.4	R3	Boulliou to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	3.7	W3	Mill Creek PH #2,3 Afterbay Spill	0.0	V3	Zanja West Weir to CWC Canal	1.9
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>15.4</b>	U3	<b>Total MC Deliveries</b>	<b>15.4</b>	W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	18.1

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)			Calendar Year To Date (AF)		
A4	Santa Ana River		SAR	E4	0.0		I4	0.0		14	18,559.6	166,000
M4	Santa Ana Rvr to Mill Creek		SAR-MC	N4	0.0		O4	0.0		O4	1,299.1	
B4	Santa Ana River		SWP	F4	218.2		J4	1,263.0		J4	13,980.1	
C4	Mill Creek		MC	G4	0.0		K4	0.0	99,700	K4	5,165.9	99,700
D4	Mill Creek		SWP	H4	0.0		L4	0.0		L4	2,896.9	
	Redlands		SWP		0.0			0.0			0.0	
	Loma Linda		SWP		0.0			0.0			1,939.8	
	East Valley		SWP		0.0			0.0			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	