

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 3/8/2017

Time: 7:30:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	104.0
<b>N2</b>	<b>Total SAR Deliveries</b>	104.0
A1	SAR PH#3 Penstock (calc)	30.1
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	89.3
G2	North Fork Canal Weir	5.6
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	7.1
z2	Cuttle Weir to River	2.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	31.3
<b>U3</b>	<b>Total MC Deliveries</b>	31.3
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	25.9
T3	MC #1 Flow (Cooley Hat)	31.3

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

Reservoir Levels	Feet
Observation at SOD	2194.9
Crafton Reservoir Level (21.3)	17.8
Mentone Reservoir Level	19.3

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	12,233	166,000
Santa Ana River to Mill Creek	SAR-MC	531	0
Santa Ana River	SWP	1,796	0
Mill Creek	MC	2,370	99,700
Mill Creek	SWP	203	0
Redlands	SWP	33	0
Loma Linda	SWP	487	0
East Valley	SWP	3,668	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. There is 2 cfs recharging in the SAR that is coming from the SBVWCD Sandbox and not the Cuttle Weir.

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### State Water Project

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

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	5.6	A2	Newport	0.0	D1	BVMWC River PU (USGS)	3.5	A1	SAR PH #3 Penstock (calc)	30.1
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	70.4	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	20.9	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)	3.5
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>0.0</b>	Z1	<b>SOD Release Subtotal</b>	<b>73.9</b>	E1	Main River Gage (USGS)	70.4
W1	Redlands Aqueduct / Sandbox	7.5				<b>Seven Oaks Dam</b>			D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	0.3	W	Observation at SOD	2194.9	A5	<b>Total SAR Inflows</b>	<b>104.0</b>
<b>minus</b>			L1	SCE SAR AVM (SCADA)	30.0	X	SOD Reservoir Elevation (scada)	2194.6	<b>Edison Generation</b>		
D1	BVMWC River PU (USGS)	3.5	X1	SAR-MC Spread (Red. Aqueduct)	5.6	Y	Debris Pool Elevation	0.0	SAR PH#1 Generating		<input type="checkbox"/>
I1	Redlands Tunnel	0.4							SAR PH#3 Generating		<input checked="" type="checkbox"/>
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>30.1</b>									
K1	<b>PH#3 Penstock (SCADA)</b>	<b>30.1</b>									

### Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.6	J2	Tailrace Valve to Parshall Flume	20.9	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	7.5
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	20.9	H1	SBVWCD Diversion	68.4	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	<b>SBVWCD Parshall Flume</b>	<b>89.3</b>	Z2	Cuttle Weir To River	2.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>26.5</b>		<b>Parshall Flume (SCADA)</b>	<b>89.3</b>	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0				<b>Irrigation</b>			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	0.0	I2	Tailrace Pipeline	26.5
T1	Tate Pump Station to Zanja	0.0				<b>minus</b>			L2	SBVWCD Parshall Flume	89.3
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>				B2	Gay Overflow	0.0	<b>minus</b>		
						C2	<b>Irrigation</b>	<b>0.0</b>	J2	Tailrace Valve to Parshall Flume	20.9
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.4
									N2	<b>Total SAR Deliveries</b>	<b>104.0</b>

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	10.3	E3	M/C #1 Penstock Flow	31.3
B3	M/C #3 Penstock	21.0	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>31.3</b>			

### Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	8.5	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	19.3
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	20.3	T3	Mill Creek #1 Flow (Cooley Hat)	31.3	R3	Boullioun to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	2.5	U3	<b>Total MC Deliveries</b>	<b>31.3</b>	V3	Zanja West Weir to CWC Canal	0.8
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>31.3</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	17.8

  

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	20.3
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	5.6
O3	<b>SBVWCD MC Spreading</b>	<b>25.9</b>

### SBVWCD Recharge

Location	Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	E4	179.4	I4	12,233.4	166,000	I4	11,330.8	166,000
M4	Santa Ana Rvr to Mill Creek	N4	17.9	O4	531.3		O4	368.6	
B4	Santa Ana River	F4	0.0	J4	1,795.9		J4	1,795.9	
C4	Mill Creek	G4	40.1	K4	2,370.3	99,700	K4	2,141.7	99,700
D4	Mill Creek	H4	0.0	L4	203.0		L4	203.0	
	Redlands		0.0		32.9			0.0	
	Loma Linda		0.0		486.6			0.0	
	East Valley		0.0		3,668.4			0.0	
SAR Passing Cuttle Weir (cfs)	2	Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	2	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	2	Flowing Beyond Alabama	0	Total River Flow (cfs)	2	Total River Recharge (AF)			



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## Santa Ana Stations

