

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 5/20/2019

Time: 7:10:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	345.6
<b>N2</b>	<b>Total SAR Deliveries</b>	345.6
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	133.0
G2	North Fork Canal Weir	5.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	11.3
Z2	Cuttle Weir to River	196.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	43.2
<b>V</b>	<b>Total SWP Deliveries</b>	43.2
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	60.1
<b>U3</b>	<b>Total MC Deliveries</b>	60.1
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	48.0
T3	MC #1 Flow (Cooley Hat)	14.9

Reservoir Levels	Feet
Observation at SOD	2267.1
Crafton Reservoir Level (21.3)	16.3
Mentone Reservoir Level	22.5

River Recharge	AF
Estimate SAR Recharge (AF)	1517
Estimate Mill Creek Recharge (AF)	0
Estimated Total River Recharge (AF)	1517

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	22,209	176,000
Santa Ana River to Mill Creek	SAR-MC	208	0
Santa Ana River	SWP	8,595	0
Mill Creek	MC	7,842	106,000
Mill Creek	SWP	4,696	0
Redlands	SWP	0	0
Loma Linda	SWP	0	0
East Valley	SWP	134	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 throughout the day.

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Date: 5/20/2019  
 Time: 7:10:00 AM

### State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	4.0	H	EVWDD City Creek	6.0	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	4.0	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	32.1
D	Purchased Water	39.2	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	1.1
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0	V	<b>Total SWP Deliveries</b>	<b>43.2</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>43.2</b>									

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	5.3	A2	Newport	0.0	D1	BVMWC River PU (USGS)	16.6	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	329.0	B1	BVMWC Highline	0.0
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)	16.6
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>345.6</b>	E1	Main River Gage (USGS)	329.0
W1	Redlands Aqueduct / Sandbox	9.3							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	3.5							A5	<b>Total SAR Inflows</b>	<b>345.6</b>
<b>minus</b>			<b>Other</b>			w	Observation at SOD	2267.1	<b>Edison Generation</b>		
D1	BVMWC River PU (USGS)	16.6	J1	Big Bear Lake Release	0.3	x	SOD Reservoir Elevation (scada)	2267.7	SAR PH#1 Generating	<input type="checkbox"/>	
I1	Redlands Tunnel	1.5	L1	SCE SAR AVM (SCADA)	0.0	y	Debris Pool Elevation	N/A	SAR PH#3 Generating	<input type="checkbox"/>	
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>0.0</b>	X1	SAR-MC Spread (Red. Aqueduct)	0.0						
K1	<b>PH#3 Penstock (SCADA)</b>	<b>N/A</b>									

### Santa Ana River Deliveries

Greenspot Pipeline		Tailrace Pipeline		SBVWCD Parshall Flume To Basins		Deliveries					
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.3	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	9.3
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	133.0	Y1	Redlands Sandbox Spill	3.5
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	<b>minus</b>		Z2	Cuttle Weir To River	196.0	
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>5.3</b>		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0				L2	<b>SBVWCD Parshall Flume</b>	<b>133.0</b>	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	<b>Irrigation</b>				<b>Parshall Flume (SCADA)</b>	<b>134.6</b>	I2	Tailrace Pipeline	5.3
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	0.0				L2	SBVWCD Parshall Flume	133.0
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>	N	BVMWC Boullioun Box	4.0	<b>minus</b>		J2	Tailrace Valve to Parshall Flume	0.0	
			<b>minus</b>						K2	Northfork Parshall Flume	0.0
			B2	Gay Overflow	2.2				I1	Redlands Tunnel	1.5
			C2	<b>Irrigation</b>	<b>1.8</b>				N2	<b>Total SAR Deliveries</b>	<b>345.6</b>

### Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	14.9	E3	M/C #1 Penstock Flow	14.9
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	45.2	G3	Observation at Garnet	0.0
D3	<b>Total MC Inflows</b>	<b>60.1</b>			

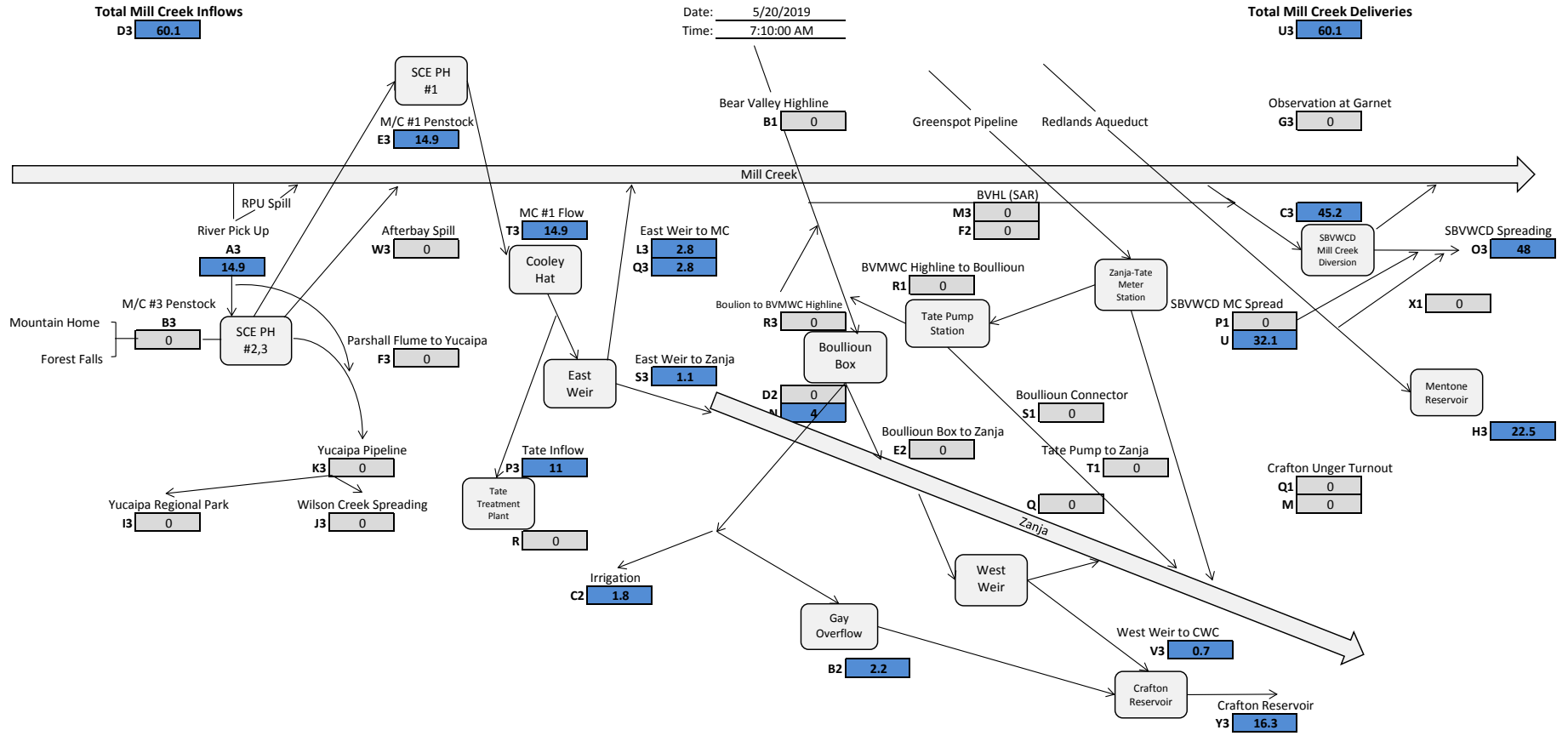
### Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
	Yucaipa Regional Park	0.0	P3	Tate Inflow	11.0	C3	SBVWCD Mill Creek Diversion	45.2	H3	Mentone Reservoir Level	22.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	2.8	T3	Mill Creek #1 Flow (Cooley Hat)	14.9	R3	Boullioun to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	1.1	U3	<b>Total MC Deliveries</b>	<b>60.1</b>	V3	Zanja West Weir to CWC Canal	0.7
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>14.9</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	<b>Cooley Hat (SCADA)</b>	<b>15.6</b>				Y3	Crafton Reservoir Level (21.3)	16.3
<b>SBVWCD MC Spreading</b>											
C3	SBVWCD Mill Creek Diversion	45.2									
L3	East Weir (MC)	2.8									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	0.0									
O3	<b>SBVWCD MC Spreading</b>	<b>48.0</b>									

### SBVWCD Recharge

Location	Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	E4	803.3	I4	22,208.6	176,000	I4	22,137.7	176,000
M4	Santa Ana Rvr to Mill Creek	N4	0.0	O4	208.2		O4	116.7	
B4	Santa Ana River	F4	0.0	J4	8,594.9		J4	7,579.7	
C4	Mill Creek	G4	211.2	K4	7,842.3	106,000	K4	7,229.8	106,000
D4	Mill Creek	H4	180.9	L4	4,696.2		L4	4,696.2	
	Redlands		0.0		0.0			0.0	
	Loma Linda		0.0		0.0			0.0	
	East Valley		0.0		134.4			0.0	
SAR Passing Cuttle Weir (cfs)	196	Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	0		Estimate SAR Recharge (AF)	1517	
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	196	Flowing Beyond Alabama	75	Total River Flow (cfs)	0		Total River Recharge (AF)	1517	

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



# Santa Ana River - Mill Creek Cooperative Water Project

## Santa Ana Stations

