

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 5/15/2020

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	69.1
<b>N2</b>	<b>Total SAR Deliveries</b>	69.1
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	5.9
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	33.0
G2	North Fork Canal Weir	4.8
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	25.4
	Other	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	20.3
<b>U3</b>	<b>Total MC Deliveries</b>	20.3
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	7.8
T3	MC #1 Flow (Cooley Hat)	18.3

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	3.9
<b>V</b>	<b>Total SWP Deliveries</b>	3.9
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	2161.0
Crafton Reservoir Level (21.3)	16.4
Mentone Reservoir Level	21.6

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	14,067	176,000
Santa Ana River to Mill Creek	SAR-MC	1,801	0
Santa Ana River	SWP	3,890	0
Mill Creek	MC	5,030	106,000
Mill Creek	SWP	3,090	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 throughout the day.

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### State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	3.9	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	3.9	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0	V	<b>Total SWP Deliveries</b>	<b>3.9</b>
F	Recharge Project	0.0									
G	<b>Total SWP Inflows</b>	<b>3.9</b>									

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal		Total SAR Inflows			
G2	Northfork Canal Weir	4.8	A2	Newport	0.0	D1	BVMWC River PU (USGS)	33.7	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	5.9	E1	Main River Gage (USGS)	29.5	B1	BVMWC Highline	5.9
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boullioun Box to Zanja	0.0	F1	Greenspot Spill	0.0	C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	3.5	F2	SBVWCD Mill Creek Spreading	0.0	Z1	<b>SOD Release Subtotal</b>	<b>63.2</b>	D1	BVMWC River PU (USGS)	33.7
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>5.9</b>	W	Observation at SOD	2161.0	E1	Main River Gage (USGS)	29.5
W1	Redlands Aqueduct / Sandbox	25.9				X	SOD Reservoir Elevation (scada)	2161.7	D1a	BV Pick-Up gated	□
Y1	Redlands Sandbox Spill	0.0				Y	Debris Pool Elevation	N/A	A5	<b>Total SAR Inflows</b>	<b>69.1</b>
D1	BVMWC River PU (USGS)	33.7	<b>Other</b>						<b>Edison Generation</b>		
I1	Redlands Tunnel	0.5	J1	Big Bear Lake Release	0.5				SAR PH#1 Generating		□
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>0.0</b>	L1	SCE SAR AVM (SCADA)	0.0				SAR PH#3 Generating		□
K1	<b>PH3# Penstock (SCADA)</b>	<b>N/A</b>	X1	SAR-MC Spread (Red. Aqueduct)	4.9						

### Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	4.8	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	3.5	W1	Redlands Aqueduct / Sandbox	25.9
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	29.5	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	3.5			<b>3</b>	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>8.3</b>		Sedimentation Basin Recharge	0.0	B1	<b>BVMWC Highline</b>	5.9
R1	BVMWC Highline to Boullioun	0.0				L2	<b>SBVWCD Parshall Flume</b>	<b>33.0</b>	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	<b>Irrigation</b>				<b>Parshall Flume (SCADA)</b>	<b>33.2</b>	I2	<b>Tailrace Pipeline</b>	8.3
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	5.9				L2	SBVWCD Parshall Flume	33.0
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>	N	BVMWC Boullioun Box	0.0				<b>minus</b>		
									J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	3.5
									I1	Redlands Tunnel	0.5
									N2	<b>Total SAR Deliveries</b>	<b>69.1</b>

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	18.3	E3	M/C #1 Penstock Flow	18.3
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	2.0	G3	Observation at Garnet	0.0
D3	<b>Total MC Inflows</b>	<b>20.3</b>			

### Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
J3	Wilson Creek Spreading	0.0	P3	Tate Inflow	14.0	C3	SBVWCD Mill Creek Diversion	2.0	H3	Mentone Reservoir Level	21.6
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	Q3	East Weir to Mill Creek	0.9	T3	Mill Creek #1 Flow (Cooley Hat)	18.3	R3	Boullioun to BVMWC Highline	0.0
			S3	East Weir to Zanja	3.4	U3	<b>Total MC Deliveries</b>	<b>20.3</b>	V3	Zanja West Weir to CWC Canal	0.6
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>18.3</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	<b>Cooley Hat (SCADA)</b>	<b>20.9</b>				Y3	Crafton Reservoir Level (21.3)	16.4
<b>SBVWCD MC Spreading</b>											
C3	SBVWCD Mill Creek Diversion	2.0									
L3	East Weir (MC)	0.9									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	4.9									
O3	<b>SBVWCD MC Spreading</b>	<b>7.8</b>									

### SBVWCD Recharge

Location	Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	E4	69.4	I4	14,067.3	176,000	I4	11,606.4	176,000
M4	Santa Ana Rvr to Mill Creek	N4	9.7	O4	1,800.9		O4	1,439.5	
B4	Santa Ana River	F4	0.0	J4	3,890.4		J4	0.0	
C4	Mill Creek	G4	8.1	K4	5,030.1	106,000	K4	3,846.2	106,000
D4	Mill Creek	H4	0.0	L4	3,090.2		L4	0.0	
	Redlands		0.0		0.0			0.0	
	Loma Linda		0.0		0.0			0.0	
	East Valley		0.0		0.0			0.0	
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	