

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 9/12/2019

Time: 7:20:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	52.5
N2	Total SAR Deliveries	52.5
A1	SAR PH#3 Penstock (calc)	24.7
B1	BVMWC Highline	5.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	0.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	24.0
Z2	Cuttle Weir to River	22.6

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	9.0
V	Total SWP Deliveries	9.0
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Location	Type
Santa Ana River	SAR
Santa Ana River to Mill Creek	SAR-MC
Santa Ana River	SWP
Mill Creek	MC
Mill Creek	SWP
Redlands	SWP
Loma Linda	SWP
East Valley	SWP

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	22.8
U3	Total MC Deliveries	22.8
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	22.8

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	11.3
Mentone Reservoir Level	21.2

River Recharge	AF
Estimate SAR Recharge (AF)	37
Estimate Mill Creek Recharge (AF)	0
Estimated Total River Recharge (AF)	37

Location	WY to Date (AF)	Target
Santa Ana River	34,919	176,000
Santa Ana River to Mill Creek	267	0
Santa Ana River	14,567	0
Mill Creek	9,324	106,000
Mill Creek	8,618	0
Redlands	0	0
Loma Linda	0	0
East Valley	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 9/12/2019
Time: 7:20:00 AM

State Water Project

Inflows		Deliveries									
A	BBMWD In-lieu	0.0	H	EVWDC City Creek	9.0	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	9.0	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	Total SWP Deliveries	9.0
F	Recharge Project	0.0									
G	Total SWP Inflows	9.0									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	0.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	0.2	A1	SAR PH #3 Penstock (calc)	24.7
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	5.0	E1	Main River Gage (USGS)	22.6	B1	BVMWC Highline	5.0
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boullioun 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)	0.2
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	5.0	Z1	SOD Release Subtotal	22.8	E1	Main River Gage (USGS)	22.6
W1	Redlands Aqueduct / Sandbox	24.4	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	Total SAR Inflows	52.5
D1	BVMWC River PU (USGS)	0.2	L1	SCE SAR AVM (SCADA)	32.1	x	SOD Reservoir Elevation (scada)	N/A	Edison Generation		
I1	Redlands Tunnel	0.5	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#1 Generating	<input checked="" type="checkbox"/>	
A1	SAR PH #3 Penstock (calc)	24.7						SAR PH#3 Generating	<input checked="" type="checkbox"/>		
K1	PH3# Penstock (SCADA)	22.8									

Santa Ana River Deliveries

Greenspot Pipeline		Tailrace Pipeline		SBVWCD Parshall Flume To Basins		Deliveries					
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	0.0	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	24.4
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	minus		Z2	Cuttle Weir To River	22.6	
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	0.9		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	5.0
R1	BVMWC Highline to Boullioun	0.0	Irrigation			L2	SBVWCD Parshall Flume	0.0	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	D2	Boullioun Box Weir	5.0		Parshall Flume (SCADA)	0.0	I2	Tailrace Pipeline	0.9
T1	Tate Pump Station to Zanja	0.0	N	BVMWC Boullioun Box	0.0			L2	SBVWCD Parshall Flume	0.0	
C1	Greenspot Pipeline	0.0	minus					minus			
			B2	Gay Overflow	2.7			J2	Tailrace Valve to Parshall Flume	0.0	
			C2	Irrigation	2.3			K2	Northfork Parshall Flume	0.0	
								I1	Redlands Tunnel	0.5	
								N2	Total SAR Deliveries	52.5	

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	6.1	E3	M/C #1 Penstock Flow	22.3
B3	M/C #3 Penstock	16.7	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	0.5
D3	Total MC Inflows	22.8			

Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
	Yucaipa Regional Park	0.0	P3	Tate Inflow	16.5	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)	22.8	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	6.3	U3	Total MC Deliveries	22.8	V3	Zanja West Weir to CWC Canal	4.4
			T3	MC #1 Flow (Cooley Hat)	22.8			W3	Mill Creek PH #2,3 Afterbay Spill	0.0	
			N3	Cooley Hat (SCADA)	23.6			Y3	Crafton Reservoir Level (21.3)	11.3	

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	5.6	I4	34,918.7	176,000	I4	34,847.8	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	267.0		O4	175.5	
B4	Santa Ana River	SWP	F4	26.9	J4	14,566.8		J4	13,551.5	
C4	Mill Creek	MC	G4	0.0	K4	9,324.0	106,000	K4	8,711.5	106,000
D4	Mill Creek	SWP	H4	0.0	L4	8,617.6		L4	8,617.6	
	Redlands	SWP		0.0		0.0			0.0	
	Loma Linda	SWP		0.0		0.0			0.0	
	East Valley	SWP		0.0		134.4			0.0	
SAR Passing Cuttle Weir (cfs)	23		Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	23		Estimate SAR Recharge (AF)	37	
Mill Creek Passing Garnet (cfs)	1		Share of Lost Mill Creek Flow	0	Estimate Mill Creek flow (cfs)	1		Estimate Mill Creek Recharge (AF)	0	
Flow in the River Above Alabama	23		Flowing Beyond Alabama	0	Total River Flow (cfs)	23		Total River Recharge (AF)	37	