

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 11/21/2019

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	43.4
N2	Total SAR Deliveries	43.4
A1	SAR PH#3 Penstock (calc)	31.3
B1	BVMWC Highline	6.1
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	3.0
G2	North Fork Canal Weir	5.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	28.4
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	25.4
U3	Total MC Deliveries	25.4
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	13.8
T3	MC #1 Flow (Cooley Hat)	25.4

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	15.7
Mentone Reservoir Level	21.9

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	62.4
V	Total SWP Deliveries	62.4
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

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	862	176,000
Santa Ana River to Mill Creek	SAR-MC	7	0
Santa Ana River	SWP	3,241	0
Mill Creek	MC	125	106,000
Mill Creek	SWP	909	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	7.0	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	35.4	N	BVMWC Boulliou 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	62.4	K	Edwards Canal	0.0	Q	Zanja	20.0	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	62.4
F	Recharge Project	0.0									
G	Total SWP Inflows	62.4									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	5.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	6.0	A1	SAR PH #3 Penstock (calc)	31.3
H2	Edwards Canal	0.9	D2	Boulliou Box Weir	6.1	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	6.1
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	3.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	6.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	6.1	Z1	SOD Release Subtotal	6.0	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	28.7							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	43.4
			Other								
D1	BVMWC River PU (USGS)	6.0	J1	Big Bear Lake Release	1.1	w	Observation at SOD	N/A			
I1	Redlands Tunnel	0.3	L1	SCE SAR AVM (SCADA)	37.0	x	SOD Reservoir Elevation (scada)	N/A			
A1	SAR PH #3 Penstock (calc)	31.3	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A			
K1	PH3# Penstock (SCADA)	23.0									
			Edison Generation								
									SAR PH#1 Generating	<input type="checkbox"/>	
									SAR PH#3 Generating	<input checked="" type="checkbox"/>	

Santa Ana River Deliveries

Greenspot Pipeline		Tailrace Pipeline		SBVWCD Parshall Flume To Basins		Deliveries					
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.0	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	3.0	W1	Redlands Aqueduct / Sandbox	28.7
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	k2	Northfork Parshall Flume	3.0			minus	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	8.9				B1	BVMWC Highline	6.1
R1	BVMWC Highline to Boulliou	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boulliou	0.0	Irrigation			L2	SBVWCD Parshall Flume	3.0	I2	Tailrace Pipeline	8.9
T1	Tate Pump Station to Zanja	0.0	D2	Boulliou Box Weir	6.1		Parshall Flume (SCADA)	3.7	L2	SBVWCD Parshall Flume	3.0
C1	Greenspot Pipeline	0.0	N	BVMWC Boulliou Box	0.0						minus
									J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	3.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	43.4

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	11.0	E3	M/C #1 Penstock Flow	25.4
B3	M/C #3 Penstock	14.4	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	25.4			

Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
	Yucaipa Regional Park	0.0	P3	Tate Inflow	9.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	21.9
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	13.8	T3	Mill Creek #1 Flow (Cooley Hat)	25.4	R3	Boulliou to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	2.6	U3	Total MC Deliveries	25.4	V3	Zanja West Weir to CWC Canal	3.4
			T3	MC #1 Flow (Cooley Hat)	25.4				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	21.1				Y3	Crafton Reservoir Level (21.3)	15.7

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	13.8
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	13.8

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target	
A4	Santa Ana River	SAR	E4	5.3	I4	862.3	176,000	I4	36,208.5	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	6.6	O4	6.6		O4	186.2		
B4	Santa Ana River	SWP	F4	66.2	J4	3,240.5		J4	18,612.6		
C4	Mill Creek	MC	G4	22.2	K4	125.3	106,000	K4	8,836.8	106,000	
D4	Mill Creek	SWP	H4	39.7	L4	908.5		L4	9,526.1		
	Redlands	SWP		0.0		0.0			0.0		
	Loma Linda	SWP		0.0		0.0			0.0		
	East Valley	SWP		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