

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/5/2019

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	45.9
N2	Total SAR Deliveries	45.9
A1	SAR PH#3 Penstock (calc)	5.1
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	36.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	9.9
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	35.5
V	Total SWP Deliveries	35.5
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)
D3	Total MC Inflows	14.0
U3	Total MC Deliveries	14.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	14.0
T3	MC #1 Flow (Cooley Hat)	0.0

Reservoir Levels	Feet
Observation at SOD	2161.0.
Crafton Reservoir Level (21.3)	17.2
Mentone Reservoir Level	20.4

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	1,301	176,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	544	106,000
Mill Creek	SWP	1,582	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	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	28.5
D	Purchased Water	35.5	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 35.5	
F	Recharge Project	0.0									
G	Total SWP Inflows	35.5									

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)	10.4	A1	SAR PH #3 Penstock (calc)	5.1	
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	30.4	B1	BVMWC Highline	0.0	
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	5.6	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	10.4	
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline 0.0		Z1	SOD Release Subtotal 40.8		E1	Main River Gage (USGS)	30.4	
W1	Redlands Aqueduct / Sandbox	10.4	Other						D1a	BV Pick-Up gated	□	
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows		45.9
D1	BVMWC River PU (USGS)	10.4	J1	Big Bear Lake Release	0.9	W	Observation at SOD	2161.0	Edison Generation			
I1	Redlands Tunnel	0.5	L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	N/A	SAR PH#1 Generating □			
A1	SAR PH #3 Penstock (calc) 5.1		X1	SAR-MC Spread (Red. Aqueduct) 0.0		Y	Debris Pool Elevation N/A		SAR PH#3 Generating □			
K1	PH3# Penstock (SCADA) 23.2											

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo 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	0.0	K2	Northfork Parshall Flume	5.6	W1	Redlands Aqueduct / Sandbox	10.4
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	30.4	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	5.6	minus			Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	5.6		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0				L2	SBVWCD Parshall Flume	36.0	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	Irrigation						I2	Tailrace Pipeline	5.6
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	0.0				L2	SBVWCD Parshall Flume	36.0
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	0.0				minus		
			minus						J2	Tailrace Valve to Parshall Flume	0.0
			B2	Gay Overflow					K2	Northfork Parshall Flume	5.6
			C2	Irrigation	0.0				I1	Redlands Tunnel	0.5
									N2	Total SAR Deliveries	45.9

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	14.0
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	14.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	14.0			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other					
	Yucaipa Regional Park	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	14.0	H3	Mentone Reservoir Level	20.4			
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	0.0	R3	Boullioun to BVMWC Highline	0.0			
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	14.0	V3	Zanja West Weir to CWC Canal	0.0			
			T3	MC #1 Flow (Cooley Hat)	0.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0			
			N3	Cooley Hat (SCADA)	0.0				Y3	Crafton Reservoir Level (21.3)	17.2			
SBVWCD MC Spreading														
C3	SBVWCD Mill Creek Diversion	14.0												
L3	East Weir (MC)	0.0												
M3	BVHL (SAR)	0.0												
X1	SAR-MC Spread (Red. Aqueduct)	0.0												
O3	SBVWCD MC Spreading	14.0												

SBVWCD Recharge

Location		Type	Previous Day (AF)			WY To Date (AF)			Target	Calendar Year To Date (AF)			Target	
A4	Santa Ana River	SAR	E4	44.6			I4	1,300.6		176,000	I4	36,646.7		176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0			O4	0.0			O4	0.0		
	Santa Ana River	SWP	F4	0.0			J4	0.0			J4	0.0		
C4	Mill Creek	MC	G4	35.7			K4	544.4		106,000	K4	9,255.9		106,000
D4	Mill Creek	SWP	H4	62.7			L4	1,581.9			L4	10,199.5		
	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