

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/26/2019

Time: 8:30:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	49.9
N2	Total SAR Deliveries	49.9
A1	SAR PH#3 Penstock (calc)	43.2
B1	BVMWC Highline	2.8
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	18.0
G2	North Fork Canal Weir	6.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	23.1
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	46.0
V	Total SWP Deliveries	46.0
J	Northfork Canal	0.0
L	Redlands Aqueduct	3.8
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	28.0
U3	Total MC Deliveries	28.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	31.0
T3	MC #1 Flow (Cooley Hat)	26.0

Reservoir Levels	Feet
Observation at SOD	NA
Crafton Reservoir Level (21.3)	16.7
Mentone Reservoir Level	21.4

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	33
Estimated Total River Recharge (AF)	33

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	2,284	176,000
Santa Ana River to Mill Creek	SAR-MC	376	0
Santa Ana River	SWP	0	0
Mill Creek	MC	1,030	106,000
Mill Creek	SWP	2,874	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/26/2019
Time: 8:30:00 AM

State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	4.5	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	37.7
D	Purchased Water	46.0	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	3.8	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries 46.0	
F	Recharge Project	0.0									
G	Total SWP Inflows	46.0									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	6.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	3.9	A1	SAR PH #3 Penstock (calc)	43.2
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	2.8	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.8
J2	Tailrace Valve to Parshall Flume	13.4	E2	Boullioun Box to Zanja	0.0	minus			C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	4.6	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.5	D1	BVMWC River PU (USGS)	3.9
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	2.8	Z1	SOD Release Subtotal	3.4	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	23.6							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	49.9
			Other								
D1	BVMWC River PU (USGS)	3.9	J1	Big Bear Lake Release	0.9	W	Observation at SOD	NA			
I1	Redlands Tunnel	0.5	L1	SCE SAR AVM (SCADA)	41.5	X	SOD Reservoir Elevation (scada)	N/A			
A1	SAR PH #3 Penstock (calc)	43.2	X1	SAR-MC Spread (Red. Aqueduct)	12.0	Y	Debris Pool Elevation	N/A			
K1	PH#3 Penstock (SCADA)	23.2									
									Edison Generation		
									SAR PH#1 Generating		☐
									SAR PH#3 Generating		☒

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	6.0	J2	Tailrace Valve to Parshall Flume	13.4	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	4.6	W1	Redlands Aqueduct / Sandbox	23.6
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	13.4	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	4.6	minus			Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	24.0		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	2.8
R1	BVMWC Highline to Boullioun	0.0				L2	SBVWCD Parshall Flume	18.0	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	Irrigation			Parshall Flume (SCADA)			I2	Tailrace Pipeline	24.0
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	2.8				L2	SBVWCD Parshall Flume	18.0
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	0.0				minus		
									J2	Tailrace Valve to Parshall Flume	13.4
									K2	Northfork Parshall Flume	4.6
									I1	Redlands Tunnel	0.5
									N2	Total SAR Deliveries	49.9

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	10.9	E3	M/C #1 Penstock Flow	26.0
B3	M/C #3 Penstock	15.1	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	2.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	28.0			

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	2.0	H3	Mentone Reservoir Level	21.4
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	17.0	T3	Mill Creek #1 Flow (Cooley Hat)	26.0	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	28.0	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	26.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	26.0				Y3	Crafton Reservoir Level (21.3)	16.7
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	2.0									
L3	East Weir (MC)	17.0									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	12.0									
O3	SBVWCD MC Spreading	31.0									

SBVWCD Recharge

Location		Type	Previous Day (AF)			WY To Date (AF)		Target	Calendar Year To Date (AF)		Target	
A4	Santa Ana River	SAR	E4	95.2		I4	2,283.8	176,000	I4	37,629.8	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	43.4		O4	375.6		O4	555.2		
	Santa Ana River	SWP	F4	0.0		J4	0.0		J4	0.0		
C4	Mill Creek	MC	G4	46.4		K4	1,029.9	106,000	K4	9,741.4	106,000	
D4	Mill Creek	SWP	H4	226.1		L4	2,873.6		L4	11,491.2		
	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)		33
Flow in the River Above Alabama		0	Flowing Beyond Alabama			0	Total River Flow (cfs)		0	Total River Recharge (AF)		33