

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/3/2019

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	47.2
N2	Total SAR Deliveries	47.2
A1	SAR PH#3 Penstock (calc)	38.4
B1	BVMWC Highline	2.7
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	27.0
G2	North Fork Canal Weir	3.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	14.5
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	25.5
U3	Total MC Deliveries	25.5
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	23.7
T3	MC #1 Flow (Cooley Hat)	25.5

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	53.6
V	Total SWP Deliveries	53.6
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	N/A
Crafton Reservoir Level (21.3)	18.0
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	1,173	176,000
Santa Ana River to Mill Creek	SAR-MC	79	0
Santa Ana River	SWP	3,825	0
Mill Creek	MC	442	106,000
Mill Creek	SWP	1,441	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: 12/3/2019
Time: 7:00:00 AM

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	31.3	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	15.3
D	Purchased Water	53.6	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	53.6
F	Recharge Project	0.0									
G	Total SWP Inflows	53.6									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	3.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	6.1	A1	SAR PH #3 Penstock (calc)	38.4
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	2.7	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.7
J2	Tailrace Valve to Parshall Flume	23.8	E2	Boullioun Box to Zanja	0.0	minus			C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	3.2	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	6.1
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	2.7	Z1	SOD Release Subtotal	6.1	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	14.8							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	47.2
			Other						Edison Generation		
D1	BVMWC River PU (USGS)	6.1	J1	Big Bear Lake Release	0.9	w	Observation at SOD	N/A	SAR PH#1 Generating	☐	
I1	Redlands Tunnel	0.3	L1	SCE SAR AVM (SCADA)	41.6	x	SOD Reservoir Elevation (scada)	N/A	SAR PH#3 Generating	☑	
A1	SAR PH #3 Penstock (calc)	38.4	X1	SAR-MC Spread (Red. Aqueduct)	6.2	y	Debris Pool Elevation	N/A			
K1	PH#3 Penstock (SCADA)	23.2									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	3.0	J2	Tailrace Valve to Parshall Flume	23.8	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	3.2	W1	Redlands Aqueduct / Sandbox	14.8
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	23.8	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	3.2	minus			Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	30.0				B1	BVMWC Highline	2.7
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	Irrigation			L2	SBVWCD Parshall Flume	27.0	I2	Tailrace Pipeline	30.0
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	2.7		Parshall Flume (SCADA)	22.6	L2	SBVWCD Parshall Flume	27.0
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	0.0				minus		
									J2	Tailrace Valve to Parshall Flume	23.8
									K2	Northfork Parshall Flume	3.2
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	47.2

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	10.7	E3	M/C #1 Penstock Flow	25.5
B3	M/C #3 Penstock	14.8	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	25.5			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
	Yucaipa Regional Park	0.0	P3	Tate Inflow	6.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	21.6
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	17.5	T3	Mill Creek #1 Flow (Cooley Hat)	25.5	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	2.0	U3	Total MC Deliveries	25.5	V3	Zanja West Weir to CWC Canal	1.2
			T3	MC #1 Flow (Cooley Hat)	25.5				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	24.9				Y3	Crafton Reservoir Level (21.3)	18.0
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	0.0									
L3	East Weir (MC)	17.5									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	6.2									
O3	SBVWCD MC Spreading	23.7									

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	45.6	I4	1,172.6	176,000	I4	36,518.6	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	14.3	O4	79.2		O4	258.8	
	Santa Ana River	SWP	F4	61.1	J4	3,825.1		J4	19,197.2	
C4	Mill Creek	MC	G4	21.8	K4	442.3	106,000	K4	9,153.8	106,000
D4	Mill Creek	SWP	H4	30.1	L4	1,441.3		L4	10058.9P	
	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	