

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/23/2019

Time: 7:30:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	39.4
N2	Total SAR Deliveries	39.4
A1	SAR PH#3 Penstock (calc)	32.7
B1	BVMWC Highline	2.8
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	16.0
G2	North Fork Canal Weir	5.8
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	14.8
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	46.3
V	Total SWP Deliveries	46.3
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	27.8
U3	Total MC Deliveries	27.8
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	19.2
T3	MC #1 Flow (Cooley Hat)	21.8

Reservoir Levels	Feet
Observation at SOD	NA
Crafton Reservoir Level (21.3)	18.0
Mentone Reservoir Level	19.8

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	2,189	176,000
Santa Ana River to Mill Creek	SAR-MC	318	0
Santa Ana River	SWP	0	0
Mill Creek	MC	970	106,000
Mill Creek	SWP	2,648	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	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	38.0
D	Purchased Water	46.3	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 46.3	
F	Recharge Project	0.0									
G	Total SWP Inflows	46.3									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	5.8	A2	Newport	0.0	D1	BVMWC River PU (USGS)	3.9	A1	SAR PH #3 Penstock (calc)	32.7
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	11.6	E2	Boullioun Box to Zanja	0.0	minus			C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	4.4	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	15.1							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	39.4
			Other								
D1	BVMWC River PU (USGS)	3.9	J1	Big Bear Lake Release	0.9	W	Observation at SOD	NA	Edison Generation		
I1	Redlands Tunnel	0.3	L1	SCE SAR AVM (SCADA)	40.1	X	SOD Reservoir Elevation (scada)	N/A	SAR PH#1 Generating		☐
A1	SAR PH #3 Penstock (calc)	32.7	X1	SAR-MC Spread (Red. Aqueduct)	7.2	Y	Debris Pool Elevation	N/A	SAR PH#3 Generating		☒
K1	PH#3 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	5.8	J2	Tailrace Valve to Parshall Flume	11.6	V1	SAR PH #3 Afterbay Spill	0.0		
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	4.4	W1	Redlands Aqueduct / Sandbox	15.1		
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	11.6	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0		
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	4.4	minus			Z2	Cuttle Weir To River	0.0		
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline		Sedimentation Basin Recharge		0.0	B1	BVMWC Highline	2.8		
R1	BVMWC Highline to Boullioun	0.0	Irrigation			L2	SBVWCD Parshall Flume		16.0	C1	Greenspot Pipeline	0.0	
S1	Crafton WC Boullioun	0.0				Parshall Flume (SCADA)		16.9	I2	Tailrace Pipeline	21.8		
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	16.0		
C1	Greenspot Pipeline	0.0	D2	Boullioun Box Weir	2.8				minus				
			N	BVMWC Boullioun Box	0.0				J2	Tailrace Valve to Parshall Flume	11.6		
			minus						K2	Northfork Parshall Flume	4.4		
			B2	Gay Overflow	1.3				I1	Redlands Tunnel	0.3		
			C2	Irrigation		1.5					N2	Total SAR Deliveries	39.4

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	7.1	E3	M/C #1 Penstock Flow	21.8
B3	M/C #3 Penstock	14.7	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	6.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	27.8			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other					
	Yucaipa Regional Park	0.0	P3	Tate Inflow	15.0	C3	SBVWCD Mill Creek Diversion	6.0	H3	Mentone Reservoir Level	19.8			
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	6.0	T3	Mill Creek #1 Flow (Cooley Hat)	21.8	R3	Boullioun to BVMWC Highline	0.0			
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.8	U3	Total MC Deliveries	27.8	V3	Zanja West Weir to CWC Canal	0.0			
			T3	MC #1 Flow (Cooley Hat)	21.8				W3	Mill Creek PH #2,3 Afterbay Spill	0.0			
			N3	Cooley Hat (SCADA)	21.8				Y3	Crafton Reservoir Level (21.3)	18.0			
SBVWCD MC Spreading														
C3	SBVWCD Mill Creek Diversion	6.0												
L3	East Weir (MC)	6.0												
M3	BVHL (SAR)	0.0												
X1	SAR-MC Spread (Red. Aqueduct)	7.2												
O3	SBVWCD MC Spreading	19.2												

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	2,188.5	176,000	I4	37,534.6	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	27.7		O4	317.7		O4	497.3		
	Santa Ana River	SWP	F4	0.0		J4	0.0		J4	0.0		
C4	Mill Creek	MC	G4	71.4		K4	970.2	106,000	K4	9,681.7	106,000	
D4	Mill Creek	SWP	H4	164.8		L4	2,647.5		L4	11,265.1		
	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