

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/27/2019

Time: 7:45:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	45.0
N2	Total SAR Deliveries	45.0
A1	SAR PH#3 Penstock (calc)	38.5
B1	BVMWC Highline	2.9
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	17.0
G2	North Fork Canal Weir	5.8
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	19.3
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	25.2
U3	Total MC Deliveries	25.2
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	27.5
T3	MC #1 Flow (Cooley Hat)	25.2

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	31.9
V	Total SWP Deliveries	31.9
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	2175.0
Crafton Reservoir Level (21.3)	15.7
Mentone Reservoir Level	21.0

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	2,320	176,000
Santa Ana River to Mill Creek	SAR-MC	400	0
Santa Ana River	SWP	0	0
Mill Creek	MC	1,056	106,000
Mill Creek	SWP	2,931	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	27.4
D	Purchased Water	31.9	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	31.9
F	Recharge Project	0.0									
G	Total SWP Inflows	31.9									

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)	3.6	A1	SAR PH #3 Penstock (calc)	38.5
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	2.9	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.9
J2	Tailrace Valve to Parshall Flume	12.4	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	0.3	D1	BVMWC River PU (USGS)	3.6
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	2.9	Z1	SOD Release Subtotal	3.3	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	19.6							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.0	Other						A5	Total SAR Inflows	45.0
			J1	Big Bear Lake Release	0.9	w	Observation at SOD	2175.0	Edison Generation		
D1	BVMWC River PU (USGS)	3.6	L1	SCE SAR AVM (SCADA)	45.1	x	SOD Reservoir Elevation (scada)	N/A	SAR PH#1 Generating	<input type="checkbox"/>	
I1	Redlands Tunnel	0.3	X1	SAR-MC Spread (Red. Aqueduct)	11.9	y	Debris Pool Elevation	N/A	SAR PH#3 Generating	<input checked="" type="checkbox"/>	
A1	SAR PH #3 Penstock (calc)	38.5									
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	5.8	J2	Tailrace Valve to Parshall Flume	12.4	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	19.6
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	12.4	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	22.8				B1	BVMWC Highline	2.9
R1	BVMWC Highline to Boullioun	0.0	Irrigation						C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	D2	Boullioun Box Weir	2.9	L2	SBVWCD Parshall Flume	17.0	I2	Tailrace Pipeline	22.8
T1	Tate Pump Station to Zanja	0.0	N	BVMWC Boullioun Box	0.0		Parshall Flume (SCADA)	16.9	L2	SBVWCD Parshall Flume	17.0
C1	Greenspot Pipeline	0.0	minus						minus		
			B2	Gay Overflow	1.3				J2	Tailrace Valve to Parshall Flume	12.4
			C2	Irrigation	1.6				K2	Northfork Parshall Flume	4.6
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	45.0

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	10.6	E3	M/C #1 Penstock Flow	25.2
B3	M/C #3 Penstock	14.6	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	25.2			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
	Yucaipa Regional Park	0.0	P3	Tate Inflow	9.3	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	21.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	15.6	T3	Mill Creek #1 Flow (Cooley Hat)	25.2	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.3	U3	Total MC Deliveries	25.2	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	25.2				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	25.2				Y3	Crafton Reservoir Level (21.3)	15.7
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	0.0									
L3	East Weir (MC)	15.6									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	11.9									
O3	SBVWCD MC Spreading	27.5									

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	35.7	I4	2,319.5	176,000	I4	37,665.5	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	18.1	O4	399.5		O4	579.2	
	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	0.0	
C4	Mill Creek	MC	G4	25.8	K4	1,055.7	106,000	K4	9,767.2	106,000
D4	Mill Creek	SWP	H4	47.6	L4	2,930.5		L4	11,548.1	
	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	