

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/9/2019

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	81.3
N2	Total SAR Deliveries	81.3
A1	SAR PH#3 Penstock (calc)	0.8
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	73.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	8.3
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	37.9
V	Total SWP Deliveries	37.9
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	18.0
T3	MC #1 Flow (Cooley Hat)	0.0

Reservoir Levels	Feet
Observation at SOD	2164.8
Crafton Reservoir Level (21.3)	18.7
Mentone Reservoir Level	20.7

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	1,645	176,000
Santa Ana River to Mill Creek	SAR-MC	101	0
Santa Ana River	SWP	0	0
Mill Creek	MC	628	106,000
Mill Creek	SWP	1,752	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	1.2	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	29.7
D	Purchased Water	37.9	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 37.9	
F	Recharge Project	0.0									
G	Total SWP Inflows	37.9									

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)	18.5	A1	SAR PH #3 Penstock (calc)	0.8
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	62.0	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	11.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	18.5
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	80.5	E1	Main River Gage (USGS)	62.0
W1	Redlands Aqueduct / Sandbox	8.6							D1a	BV Pick-Up gated	
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	81.3
D1	BVMWC River PU (USGS)	18.5									
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	0.8									
K1	PH#3 Penstock (SCADA)	0.0									

Other			Edison Generation		
J1	Big Bear Lake Release	0.9			
L1	SCE SAR AVM (SCADA)	0.0			
X1	SAR-MC Spread (Red. Aqueduct)	4.0			

SOD Release Subtotal			Edison Generation		
W	Observation at SOD	2164.8			
X	SOD Reservoir Elevation (scada)	N/A			
Y	Debris Pool Elevation	N/A			

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	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	11.0	W1	Redlands Aqueduct / Sandbox	8.6
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	62.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	11.0			minus	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	11.0				B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0							I2	Tailrace Pipeline	11.0
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	73.0
C1	Greenspot Pipeline	0.0									minus

Irrigation			Parshall Flume (SCADA)		
D2	Boullioun Box Weir	0.0			
N	BVMWC Boullioun Box	1.2			
		minus			
B2	Gay Overflow	1.2			
C2	Irrigation	0.0			

J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	11.0
I1	Redlands Tunnel	0.3
N2	Total SAR Deliveries	81.3

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	20.7
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				V3	Crafton Reservoir Level (21.3)	18.7

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)	4.0
O3	SBVWCD MC Spreading	18.0

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	121.8	I4	1,644.9	176,000	I4	36,991.0	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	6.8	O4	101.3		O4	280.9	
	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	0.0	
C4	Mill Creek	MC	G4	83.3	K4	627.7	106,000	K4	9,339.2	106,000
D4	Mill Creek	SWP	H4	169.6	L4	1,751.5		L4	10,369.1	
	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