

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/11/2019

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	36.9
N2	Total SAR Deliveries	36.9
A1	SAR PH#3 Penstock (calc)	30.6
B1	BVMWC Highline	0.6
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	32.0
G2	North Fork Canal Weir	4.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	0.3
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	48.0
V	Total SWP Deliveries	48.0
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	27.6
U3	Total MC Deliveries	27.6
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	12.0
T3	MC #1 Flow (Cooley Hat)	27.6

Reservoir Levels	Feet
Observation at SOD	2170.0
Crafton Reservoir Level (21.3)	19.8
Mentone Reservoir Level	20.9

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	1,722	176,000
Santa Ana River to Mill Creek	SAR-MC	103	0
Santa Ana River	SWP	0	0
Mill Creek	MC	693	106,000
Mill Creek	SWP	1,889	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	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	41.0
D	Purchased Water	48.0	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 48.0	
F	Recharge Project	0.0									
G	Total SWP Inflows	48.0									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	4.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	5.7	A1	SAR PH #3 Penstock (calc)	30.6
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.6	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	0.6
J2	Tailrace Valve to Parshall Flume	26.0	E2	Boullioun Box to Zanja	0.0		minus		C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	6.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	3.0	D1	BVMWC River PU (USGS)	5.7
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.6	Z1	SOD Release Subtotal	2.7	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	0.6							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	36.9
D1	BVMWC River PU (USGS)	5.7									
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	30.6									
K1	PH#3 Penstock (SCADA)	23.2									

Other			Edison Generation		
J1	Big Bear Lake Release	0.9			
L1	SCE SAR AVM (SCADA)	42.9			
X1	SAR-MC Spread (Red. Aqueduct)	0.0			

SOD Release Subtotal			Edison Generation		
W	Observation at SOD	2170.0			
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	4.0	J2	Tailrace Valve to Parshall Flume	26.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	6.0	W1	Redlands Aqueduct / Sandbox	0.6
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	26.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	6.0		minus		Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	36.0		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.6
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0							I2	Tailrace Pipeline	36.0
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	32.0
C1	Greenspot Pipeline	0.0								minus	

Irrigation			Parshall Flume (SCADA)		
D2	Boullioun Box Weir	0.6			
N	BVMWC Boullioun Box	0.0			
	minus				
B2	Gay Overflow	0.6			
C2	Irrigation	0.0			

J2	Tailrace Valve to Parshall Flume	26.0
K2	Northfork Parshall Flume	6.0
I1	Redlands Tunnel	0.3
N2	Total SAR Deliveries	36.9

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	11.9	E3	M/C #1 Penstock Flow	27.6
B3	M/C #3 Penstock	15.7	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	27.6			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
	Yucaipa Regional Park	0.0	P3	Tate Inflow	15.6	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	20.9
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	12.0	T3	Mill Creek #1 Flow (Cooley Hat)	27.6	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	27.6	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	27.6				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	33.0				Y3	Crafton Reservoir Level (21.3)	19.8

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	12.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	12.0

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	64.4	I4	1,721.5	176,000	I4	37,067.6	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	1.9	O4	103.2		O4	282.8	
	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	0.0	
C4	Mill Creek	MC	G4	15.9	K4	692.8	106,000	K4	9,404.2	106,000
D4	Mill Creek	SWP	H4	71.2	L4	1,889.0		L4	10,506.6	
	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