

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/4/2019

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	44.3
N2	Total SAR Deliveries	44.3
A1	SAR PH#3 Penstock (calc)	35.9
B1	BVMWC Highline	2.8
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	28.0
G2	North Fork Canal Weir	3.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	10.5
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	26.8
U3	Total MC Deliveries	26.8
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	15.8
T3	MC #1 Flow (Cooley Hat)	26.8

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	62.3
V	Total SWP Deliveries	62.3
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)	16.5
Mentone Reservoir Level	20.6

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	83	0
Santa Ana River	SWP	3,887	0
Mill Creek	MC	468	106,000
Mill Creek	SWP	1,472	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	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	24.0
D	Purchased Water	62.3	K	Edwards Canal	0.0	Q	Zanja	0.0	V	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0		Total SWP Deliveries	62.3
F	Recharge Project	0.0									
G	Total SWP Inflows	62.3									

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)	5.6	A1	SAR PH #3 Penstock (calc)	35.9
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	20.0	E2	Boullioun Box to Zanja	0.0		minus		C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	8.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	5.6
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	2.8	Z1	SOD Release Subtotal	5.6	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	11.0							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	Other		SOD Reservoir Elevation		Total SAR Inflows		A5	Total SAR Inflows	44.3
			J1	Big Bear Lake Release	0.9	w	Observation at SOD	N/A			
D1	BVMWC River PU (USGS)	5.6	L1	SCE SAR AVM (SCADA)	35.4	x	SOD Reservoir Elevation (scada)	N/A	Edison Generation		
IL	Redlands Tunnel	0.5	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#1 Generating		☐
A1	SAR PH #3 Penstock (calc)	35.9							SAR PH#3 Generating		☑
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	20.0	V1	SAR PH #3 Afterbay Spill	0.0	
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	8.0	W1	Redlands Aqueduct / Sandbox	11.0	
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	20.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0	
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	8.0		minus		Z2	Cuttle Weir To River	0.0	
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	31.0		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	2.8	
R1	BVMWC Highline to Boullioun	0.0				L2	SBVWCD Parshall Flume	28.0	C1	Greenspot Pipeline	0.0	
S1	Crafton WC Boullioun	0.0	Irrigation		Parshall Flume (SCADA)			Parshall Flume (SCADA)	26.2	I2	Tailrace Pipeline	31.0
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	2.8				L2	SBVWCD Parshall Flume	28.0	
N2	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	0.0					minus		
				minus					J2	Tailrace Valve to Parshall Flume	20.0	
			B2	Gay Overflow	1.7				K2	Northfork Parshall Flume	8.0	
			C2	Irrigation	1.1				I1	Redlands Tunnel	0.5	
									N2	Total SAR Deliveries	44.3	

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	11.3	E3	M/C #1 Penstock Flow	26.8
B3	M/C #3 Penstock	15.5	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	26.8			

Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
J3	Yucaipa Regional Park	0.0	P3	Tate Inflow	6.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	20.6
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	15.8	T3	Mill Creek #1 Flow (Cooley Hat)	26.8	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	5.0	U3	Total MC Deliveries	26.8	V3	Zanja West Weir to CWC Canal	1.9
			T3	MC #1 Flow (Cooley Hat)	26.8				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	26.7				Y3	Crafton Reservoir Level (21.3)	16.5
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	0.0									
L3	East Weir (MC)	15.8									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	0.0									
O3	SBVWCD MC Spreading	15.8									

SBVWCD Recharge

Location	Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	E4	45.8	I4	1,172.5	176,000	I4	36,518.6	176,000
M4	Santa Ana Rvr to Mill Creek	N4	4.0	O4	83.2		O4	262.8	
	Santa Ana River	F4	62.1	J4	3,887.2		J4	19,259.3	
C4	Mill Creek	G4	25.8	K4	468.0	106,000	K4	9,179.5	106,000
D4	Mill Creek	H4	30.3	L4	1,471.7		L4	10,089.2	
	Redlands		0.0		0.0			0.0	
	Loma Linda		0.0		0.0			0.0	
	East Valley		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	