

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 3/18/2020

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	7.2
N2	Total SAR Deliveries	7.2
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	3.3
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	0.0
G2	North Fork Canal Weir	2.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	1.6
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	13.6
V	Total SWP Deliveries	13.6
J	Northfork Canal	0.0
L	Redlands Aqueduct	9.8
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	17.2
U3	Total MC Deliveries	17.2
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	17.2
T3	MC #1 Flow (Cooley Hat)	13.2

Reservoir Levels	Feet
Observation at SOD	2200.6
Crafton Reservoir Level (21.3)	16.6
Mentone Reservoir Level	21.4

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	2,782	105,000
Santa Ana River to Mill Creek	SAR-MC	1,242	0
Santa Ana River	SWP	3,890	0
Mill Creek	MC	2,661	63,000
Mill Creek	SWP	3,251	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	3.8	M	Crafton Unger Lane	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0	N	BVMWC Boullioun Box	0.0
C	Exchange Water	0.0	J	Northfork Canal	0.0	P	SARC West	0.0
D	Purchased Water	13.6	K	Edwards Canal	0.0	Q	Zanja	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	9.8	R	Tate Treatment Plant	0.0
F	Recharge Project	0.0				S	SBCFCD Grove	0.0
G	Total SWP Inflows	13.6				T	Newport for BVMWC	0.0
						U	M/C spreading at Zanja Tate	0.0
						V	Tres Lagos	0.0
							Total SWP Deliveries	13.6

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	2.3	A2	Newport	0.0	D1	BVMWC River PU (USGS)	3.9	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	3.3	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	3.3
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	0.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	3.9
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	3.3	Z1	SOD Release Subtotal	3.9	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	1.8							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	7.2
D1	BVMWC River PU (USGS)	3.9									
I1	Redlands Tunnel	0.2									
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH3# Penstock (SCADA)	NA									

Other			Edison Generation		
J1	Big Bear Lake Release	0.5			
L1	SCE SAR AVM (SCADA)	0.0			
X1	SAR-MC Spread (Red. Aqueduct)	0.0			

SOD Release Subtotal			Edison Generation		
W	Observation at SOD	2200.6			
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	2.3	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	0.0	W1	Redlands Aqueduct / Sandbox	1.8	
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0	
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	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	3.3	
R1	BVMWC Highline to Boullioun	0.0	Irrigation			L2	SBVWCD Parshall Flume		0.0	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				Parshall Flume (SCADA)		0.0	I2	Tailrace Pipeline	2.3	
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	3.3				L2	SBVWCD Parshall Flume	0.0	
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	0.0				minus			
					minus			J2	Tailrace Valve to Parshall Flume	0.0		
			B2	Gay Overflow	2.2	K2	Northfork Parshall Flume	0.0				
			C2	Irrigation		1.1	I1	Redlands Tunnel	0.2			
									N2	Total SAR Deliveries		7.2

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	13.2
B3	M/C #3 Penstock	13.2	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	4.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	17.2			

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	4.0	H3	Mentone Reservoir Level	21.4
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	13.2	T3	Mill Creek #1 Flow (Cooley Hat)	13.2	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	17.2	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	13.2				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	15.2				Y3	Crafton Reservoir Level (21.3)	16.6

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	4.0
L3	East Weir (MC)	13.2
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	17.2

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	2,782.3	105,000	I4	321.4	105,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	1,242.3		O4	880.9	
B4	Santa Ana River	SWP	F4	0.0	J4	3,890.4		J4	0.0	
C4	Mill Creek	MC	G4	37.3	K4	2,660.5	63,000	K4	1,476.6	63,000
D4	Mill Creek	SWP	H4	0.0	L4	3,251.4		L4	161.2	
	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