

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 4/4/19

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	124.3
N2	Total SAR Deliveries	124.3
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	119.0
G2	North Fork Canal Weir	5.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	0.0
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	73.1
V	Total SWP Deliveries	73.1
J	Northfork Canal	0.0
L	Redlands Aqueduct	13.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	47.0
U3	Total MC Deliveries	47.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	32.0
T3	MC #1 Flow (Cooley Hat)	20.0

Reservoir Levels	Feet
Observation at SOD	2311.0
Crafton Reservoir Level (21.3)	16.6
Mentone Reservoir Level	22.6

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	11,513	176,000
Santa Ana River to Mill Creek	SAR-MC	23	0
Santa Ana River	SWP	7,570	0
Mill Creek	MC	4,144	106,000
Mill Creek	SWP	2,425	0
Redlands	SWP	0	0
Loma Linda	SWP	0	0
East Valley	SWP	134	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	3.0	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	20.5	N	BVMWC Boullioun Box	1.0	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	35.6
D	Purchased Water	73.1	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	13.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	73.1
F	Recharge Project	0.0									
G	Total SWP Inflows	73.1									

Santa Ana River Inflows												
SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows			
G2	Northfork Canal Weir	5.3	A2	Newport	0.0	D1	BVMWC River PU (USGS)	9.1	A1	SAR PH #3 Penstock (calc)	0.0	
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	115.2	B1	BVMWC Highline	0.0	
J2	Tailrace Valve to Parshall Flume	3.8	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)	9.1	
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	124.3	E1	Main River Gage (USGS)	115.2	
W1	Redlands Aqueduct / Sandbox	0.8							D1a	BV Pick-Up gated	□	
Y1	Redlands Sandbox Spill	0.3							A5	Total SAR Inflows	124.3	
minus			Other						Edison Generation			
D1	BVMWC River PU (USGS)	9.1	J1	Big Bear Lake Release	0.3	W	Observation at SOD	2311.0	SAR PH#1 Generating			□
I1	Redlands Tunnel	1.1	L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	2310.5	SAR PH#3 Generating			□
A1	SAR PH #3 Penstock (calc)	0.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	N/A				
K1	PH3# Penstock (SCADA)	N/A										

Santa Ana River Deliveries											
Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.3	J2	Tailrace Valve to Parshall Flume	3.8	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	0.8
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	3.8	H1	SBVWCD Diversion	115.2	Y1	Redlands Sandbox Spill	0.3
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	9.1		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0				L2	SBVWCD Parshall Flume	119.0	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	Irrigation				Parshall Flume (SCADA)	120.0	I2	Tailrace Pipeline	9.1
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	0.0				L2	SBVWCD Parshall Flume	119.0
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	1.0				minus		
									J2	Tailrace Valve to Parshall Flume	3.8
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	1.1
									N2	Total SAR Deliveries	124.3

Mill Creek Inflows					
Total MC Inflows			Other		
A3	RPU Flow	20.0	E3	M/C #1 Penstock Flow	20.4
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	27.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	47.0			

Mill Creek Deliveries											
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries		Other			
	Yucaipa Regional Park	0.0	P3	Tate Inflow	15.0	C3	SBVWCD Mill Creek Diversion	27.0	H3	Mentone Reservoir Level	22.6
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	5.0	T3	Mill Creek #1 Flow (Cooley Hat)	20.0	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	47.0	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	20.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	20.9				Y3	Crafton Reservoir Level (21.3)	16.6

SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	27.0									
L3	East Weir (MC)	5.0									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	0.0									
O3	SBVWCD MC Spreading	32.0									

SBVWCD Recharge											
Location		Type	Previous Day (AF)			WY To Date (AF)		Target	Calendar Year To Date (AF)		
A4	Santa Ana River	SAR	E4		236.0	I4		11,513.0	I4		11,442.1
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4		0.0	O4		22.5	O4		109.0
B4	Santa Ana River	SWP	F4		40.7	J4		7,570.2	J4		6,554.9
C4	Mill Creek	MC	G4		66.7	K4		4,144.4	K4		3,531.9
D4	Mill Creek	SWP	H4		77.6	L4		2,424.8	L4		2,424.8
	Redlands	SWP			0.0			0.0			0.0
	Loma Linda	SWP			0.0			0.0			0.0
	East Valley	SWP			0.0			134.4			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	