

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 5/14/2019

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	693.3
N2	Total SAR Deliveries	693.3
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	130.0
G2	North Fork Canal Weir	5.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	17.0
Z2	Cuttle Weir to River	541.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	42.1
U3	Total MC Deliveries	42.1
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	16.0
T3	MC #1 Flow (Cooley Hat)	26.1

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	45.6
V	Total SWP Deliveries	45.6
J	Northfork Canal	0.0
L	Redlands Aqueduct	6.7
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2287.6
Crafton Reservoir Level (21.3)	13.4
Mentone Reservoir Level	20.5

River Recharge	AF
Estimate SAR Recharge (AF)	268
Estimate Mill Creek Recharge (AF)	0
Estimated Total River Recharge (AF)	268

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	20,632	176,000
Santa Ana River to Mill Creek	SAR-MC	201	0
Santa Ana River	SWP	8,595	0
Mill Creek	MC	7,465	106,000
Mill Creek	SWP	4,344	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	10.7	H	EVWDC City Creek	6.0	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 Boulliou Box	4.0	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	28.9
D	Purchased Water	34.9	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	6.7	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	45.6
F	Recharge Project	0.0									
G	Total SWP Inflows	45.6									

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)	22.3	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boulliou Box Weir	0.0	E1	Main River Gage (USGS)	671.0	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boulliou 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)	22.3
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	693.3	E1	Main River Gage (USGS)	671.0
W1	Redlands Aqueduct / Sandbox	0.0							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	18.2							A5	Total SAR Inflows	693.3
	minus										
D1	BVMWC River PU (USGS)	22.3				w	Observation at SOD	2287.6			
I1	Redlands Tunnel	1.2	J1	Big Bear Lake Release	0.3	x	SOD Reservoir Elevation (scada)	2288.1			
A1	SAR PH #3 Penstock (calc)	0.0	L1	SCE SAR AVM (SCADA)	0.0	y	Debris Pool Elevation	N/A			
K1	PH3# Penstock (SCADA)	N/A	X1	SAR-MC Spread (Red. Aqueduct)	0.0						

Edison Generation	
SAR PH#1 Generating	☐
SAR PH#3 Generating	☐

Santa Ana River Deliveries

Greenspot Pipeline		Tailrace Pipeline		SBVWCD Parshall Flume To Basins		Deliveries					
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.3	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	0.0
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	130.0	Y1	Redlands Sandbox Spill	18.2
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0		minus		Z2	Cuttle Weir To River	541.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	5.3		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boulliou	0.0				L2	SBVWCD Parshall Flume	130.0	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boulliou	0.0					Parshall Flume (SCADA)	129.9	I2	Tailrace Pipeline	5.3
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	130.0
C1	Greenspot Pipeline	0.0								minus	

Irrigation		
D2	Boulliou Box Weir	0.0
N	BVMWC Boulliou Box	4.0
	minus	
B2	Gay Overflow	0.8
C2	Irrigation	3.2

Total SAR Deliveries		
N2	Total SAR Deliveries	693.3

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	26.1	E3	M/C #1 Penstock Flow	26.1
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	16.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	42.1			

Mill Creek Deliveries

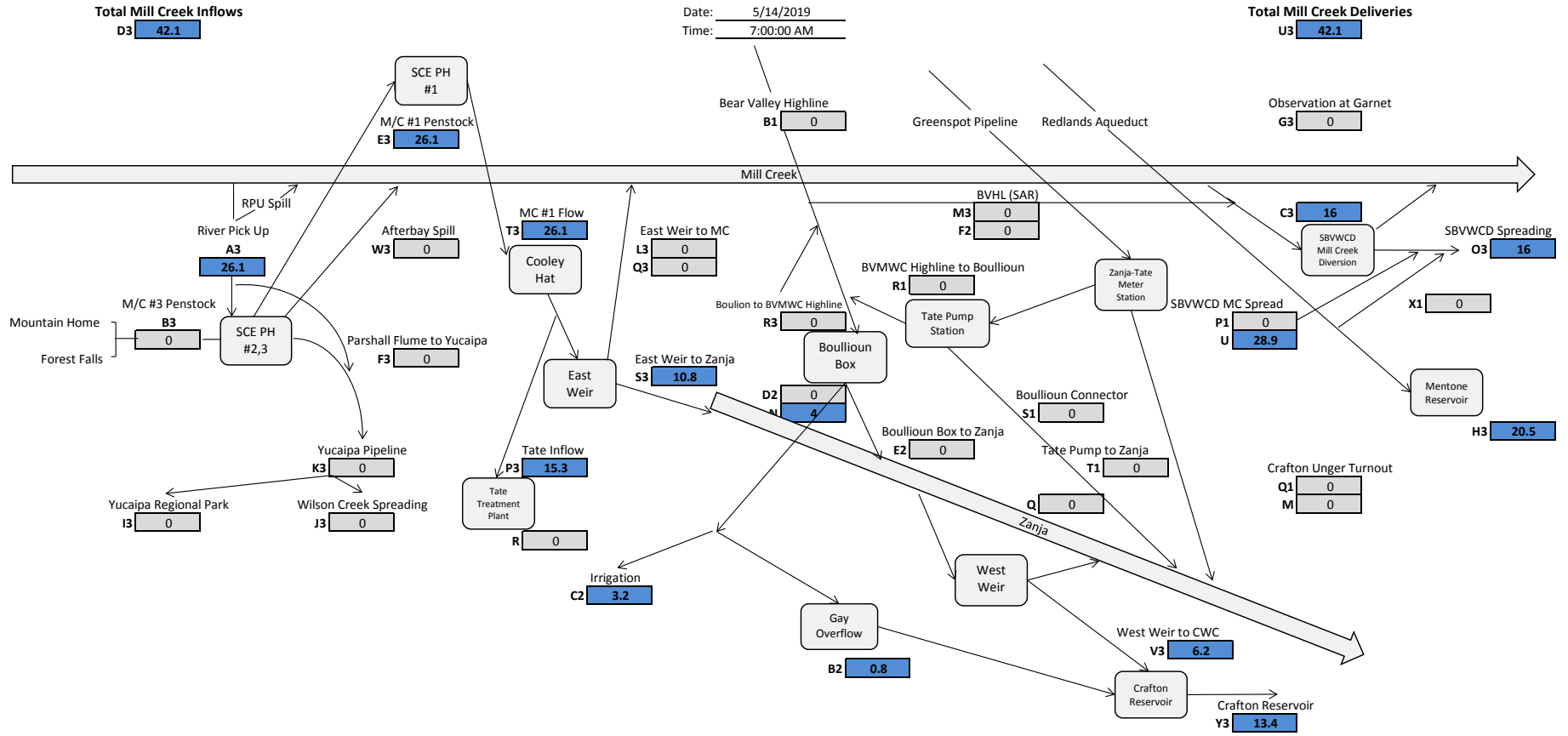
Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
	Yucaipa Regional Park	0.0	P3	Tate Inflow	15.3	C3	SBVWCD Mill Creek Diversion	16.0	H3	Mentone Reservoir Level	20.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	26.1	R3	Boulliou to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	10.8	U3	Total MC Deliveries	42.1	V3	Zanja West Weir to CWC Canal	6.2
			T3	MC #1 Flow (Cooley Hat)	26.1				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	27.2				Y3	Crafton Reservoir Level (21.3)	13.4

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	16.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	16.0

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	252.8	I4	20,631.6	176,000	I4	20,560.8	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	200.5		O4	109.0	
B4	Santa Ana River	SWP	F4	0.0	J4	8,594.9		J4	7,579.7	
C4	Mill Creek	MC	G4	38.4	K4	7,464.9	106,000	K4	6,852.4	106,000
D4	Mill Creek	SWP	H4	53.0	L4	4,344.2		L4	4,344.2	
	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)	541		Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	0		Estimate SAR Recharge (AF)	268	
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	541		Flowing Beyond Alabama	250	Total River Flow (cfs)	0		Total River Recharge (AF)	268	

Santa Ana River - Mill Creek Cooperative Water Project Mill Creek Stations



Santa Ana River - Mill Creek Cooperative Water Project

Santa Ana Stations

