

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 7/28/2017

Time: 6:50:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	22.4
N2	Total SAR Deliveries	22.4
A1	SAR PH#3 Penstock (calc)	14.6
B1	BVMWC Highline	5.9
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	1.7
G2	North Fork Canal Weir	9.0
H2	Edwards Canal	1.0
W1	Redlands Aqueduct (calc)	4.8
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	41.7
V	Total SWP Deliveries	41.7
J	Northfork Canal	0.0
L	Redlands Aqueduct	9.3
M	Crafton Unger Lane	2.8
T	Newport to BVMWC	1.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	20.3
U3	Total MC Deliveries	20.3
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	2.5
T3	MC #1 Flow (Cooley Hat)	20.3

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	17.8
Mentone Reservoir Level	19.9

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	19,398	166,000
Santa Ana River to Mill Creek	SAR-MC	1,462	0
Santa Ana River	SWP	5,860	0
Mill Creek	MC	5,369	99,700
Mill Creek	SWP	1,466	0
Redlands	SWP	33	0
Loma Linda	SWP	487	0
East Valley	SWP	6,484	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 thruout the day. San Bernardino Valley Municipal is spreading in Mill Creek and at the Santa Ana Low.

Daily Flow Report

7/28/2017

6:50:00 AM

Inflows			Deliveries								
A	BBMWD In-lieu	9.3	H	EVWD Treatment Plant	0.0	M	Crafton Unger Lane	2.8	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	18.7	N	BVMWC Bouillion Box	0.0	T	Newport for BVMWC	1.0
C	Exchange Water	0.0	J	Northfork Canal	0.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	9.9
D	Purchased Water	32.4	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	9.3	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries 41.7	

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
G2	Northfork Canal Weir	9.0
H2	Edwards Canal	1.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	1.7
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	5.1
Y1	Redlands Sandbox Spill	0.0
		minus
D1	BVMWC River PU (USGS)	1.9
I1	Redlands Tunnel	0.3
A1	SAR PH #3 Penstock (calc)	14.6
K1	PH3# Penstock (SCADA)	15.0

BVMWC Highline		
A2	Newport	0.0
D2	Boullioun Box Weir	5.9
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	BVMWC Highline	5.9
Other		
J1	Big Bear Lake Release	0.8
L1	SCE SAR AVM (SCADA)	22.3
X1	SAR-MC Spread (Red. Aqueduct)	0.0

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	1.9
E1	Main River Gage (USGS)	0.0
		minus
F1	Greenspot Spill	0.0
Z1	SOD Release Subtotal	1.9
Observation at SOD		
W	Observation at SOD	N/A
X	SOD Reservoir Elevation (scada)	N/A
Y	Debris Pool Elevation	N/A

Total SAR Inflows		
A1	SAR PH #3 Penstock (calc)	14.6
B1	BVMWC Highline	5.9
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	1.9
E1	Main River Gage (USGS)	0.0
D1a	BV Pick-Up gated	□
A5	Total SAR Inflows	22.4
Edison Generation		
SAR PH#1 Generating		☒
SAR PH#3 Generating		☒

Santa Ana River Deliveries

Greenspot Pipeline		
M1	SBCFCD Grove	0.0
N1	BVMWC Highline	0.0
O1	Newport for BVMWC	0.0
P1	SBVWCD Mill Creek Spreading	0.0
Q1	Crafton WC Unger Lane	0.0
R1	BVMWC Highline to Boullioun	0.0
S1	Crafton WC Boullioun	0.0
T1	Tate Pump Station to Zanja	0.0
C1	Greenspot Pipeline	0.0

Tailrace Pipeline		
G2	Northfork Canal Weir	9.0
H2	Edwards Canal	1.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	1.7
I2	Tailrace Pipeline	11.7

SBVWCD Parshall FlumeTo Basins		
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	1.7
H1	SBVWCD Diversion	0.0
L2	SBVWCD Parshall Flume	1.7
	Parshall Flume (SCADA)	2.4

Irrigation		
D2	Boullioun Box Weir	5.9
minus		
B2	Gay Overflow	2.2
C2	Irrigation	3.7

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	5.1
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	5.9
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	11.7
L2	SBVWCD Parshall Flume	1.7
minus		
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	1.7
I1	Redlands Tunnel	0.3
N2	Total SAR Deliveries	22.4

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	6.2	E3	M/C #1 Penstock Flow	20.3
B3	M/C #3 Penstock	14.1	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	20.3			

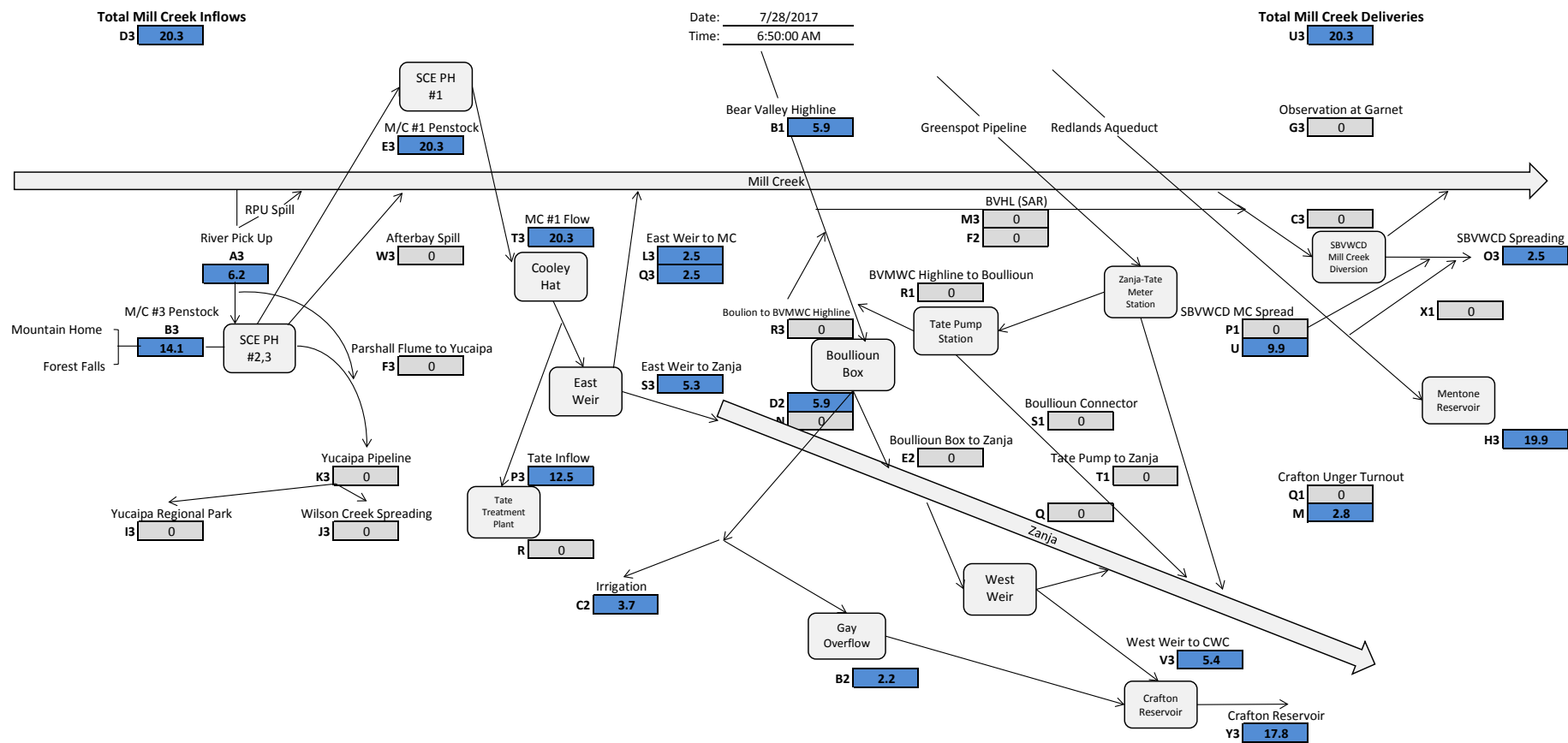
Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
J3	Yucaipa Regional Park	0.0	P3	Tate Inflow	12.5	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	19.9
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	2.5	T3	Mill Creek #1 Flow (Cooley Hat)	20.3	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	5.3	W3	Mill Creek PH #2,3 Afterbay Spill	0.0	V3	Zanja West Weir to CWC Canal	5.4
			T3	MC #1 Flow (Cooley Hat)	20.3	U3	Total MC Deliveries	20.3	W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	17.8
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	0.0									
L3	East Weir (MC)	2.5									
M3	BVHL (SAR)	0.0									
W3	Mill Creek PH #2,3 Afterbay Spill	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	0.0									
O3	SBVWCD MC Spreading	2.5									

SBVWCD Recharge

Location		Type	Previous Day (AF)			WY To Date (AF)		Target	Calendar Year To Date (AF)		Target	
A4	Santa Ana River	SAR	E4	3.4		I4	19,397.5	166,000	I4	18,494.9	166,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0		O4	1,461.7		O4	1,299.1		
B4	Santa Ana River	SWP	F4	37.1		J4	5,860.0		J4	5,860.0		
C4	Mill Creek	MC	G4	6.5		K4	5,368.9	99,700	K4	5,140.3	99,700	
D4	Mill Creek	SWP	H4	21.8		L4	1,465.6		L4	1,465.6		
	Redlands	SWP		0.0			32.9			0.0		
	Loma Linda	SWP		0.0			486.6			1,939.8		
	East Valley	SWP		0.0			6,484.4			2,816.0		
SAR Passing Cattle 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

Mill Creek Stations



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

