

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 3/30/2017

Time: 7:10:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	116.7
N2	Total SAR Deliveries	116.7
A1	SAR PH#3 Penstock (calc)	59.2
B1	BVMWC Highline	4.6
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	78.0
G2	North Fork Canal Weir	9.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	23.1
v1	PH3 Afterbay Spill Loss to SAR	2.0

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

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	31.4
U3	Total MC Deliveries	31.4
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	39.2
T3	MC #1 Flow (Cooley Hat)	30.2

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	20.3
Mentone Reservoir Level	21.3

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	14,565	166,000
Santa Ana River to Mill Creek	SAR-MC	807	0
Santa Ana River	SWP	1,796	0
Mill Creek	MC	3,409	99,700
Mill Creek	SWP	203	0
Redlands	SWP	33	0
Loma Linda	SWP	487	0
East Valley	SWP	3,668	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.

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State Water Project

Inflows		
A	BBMWD In-lieu	0.0
B	Muni test at Greenspot Station	0.0
C	Exchange Water	0.0
D	Purchased Water	0.0
E	Redlands Aqueduct Leakage	0.0
F	Recharge Project	0.0
G	Total SWP Inflows	0.0

Deliveries								
H	EVWD Treatment Plant	0.0	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
I	Santa Ana Low Turnout	0.0	N	BVMWC Boullioun Box	0.0	T	Newport for BVMWC	0.0
J	Northfork Canal	0.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	0.0
K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	0.0

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	9.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	9.8	A1	SAR PH #3 Penstock (calc)	59.2
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	4.6	E1	Main River Gage (USGS)	43.1	B1	BVMWC Highline	4.6
J2	Tailrace Valve to Parshall Flume	34.9	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)	9.8
V1	PH#3 Afterbay SpillLoss to SAR	2.0	B1	BVMWC Highline	4.6	Z1	SOD Release Subtotal	52.9	E1	Main River Gage (USGS)	43.1
W1	Redlands Aqueduct / Sandbox	23.5							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	116.7
	minus										
D1	BVMWC River PU (USGS)	9.8									
I1	Redlands Tunnel	0.4									
A1	SAR PH #3 Penstock (calc)	59.2									
K1	PH#3 Penstock (SCADA)	59.2									

Other			Seven Oaks Dam		
J1	Big Bear Lake Release	0.3	W	Observation at SOD	N/A
L1	SCE SAR AVM (SCADA)	67.1	X	SOD Reservoir Elevation (scada)	2197.0
X1	SAR-MC Spread (Red. Aqueduct)	13.2	Y	Debris Pool Elevation	0.0

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	0.0
J2	Tailrace Valve to Parshall Flume	34.9
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	43.9

SBVWCD Parshall FlumeTo Basins		
J2	Tailrace Valve to Parshall Flume	34.9
K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	43.1
L2	SBVWCD Parshall Flume	78.0
	Parshall Flume (SCADA)	78.0

Irrigation		
D2	Boullioun Box Weir	4.6
		minus
B2	Gay Overflow	1.0
C2	Irrigation	3.6

Deliveries		
V1	SAR PH #3 Afterbay Spill	2.0
W1	Redlands Aqueduct / Sandbox	23.5
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	4.6
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	43.9
L2	SBVWCD Parshall Flume	78.0
		minus
J2	Tailrace Valve to Parshall Flume	34.9
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	0.4
N2	Total SAR Deliveries	116.7

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	9.7	E3	M/C #1 Penstock Flow	30.2
B3	M/C #3 Penstock	20.5	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	1.2	G3	Observation at Garnet	0.0
D3	Total MC Inflows	31.4			

Mill Creek Deliveries

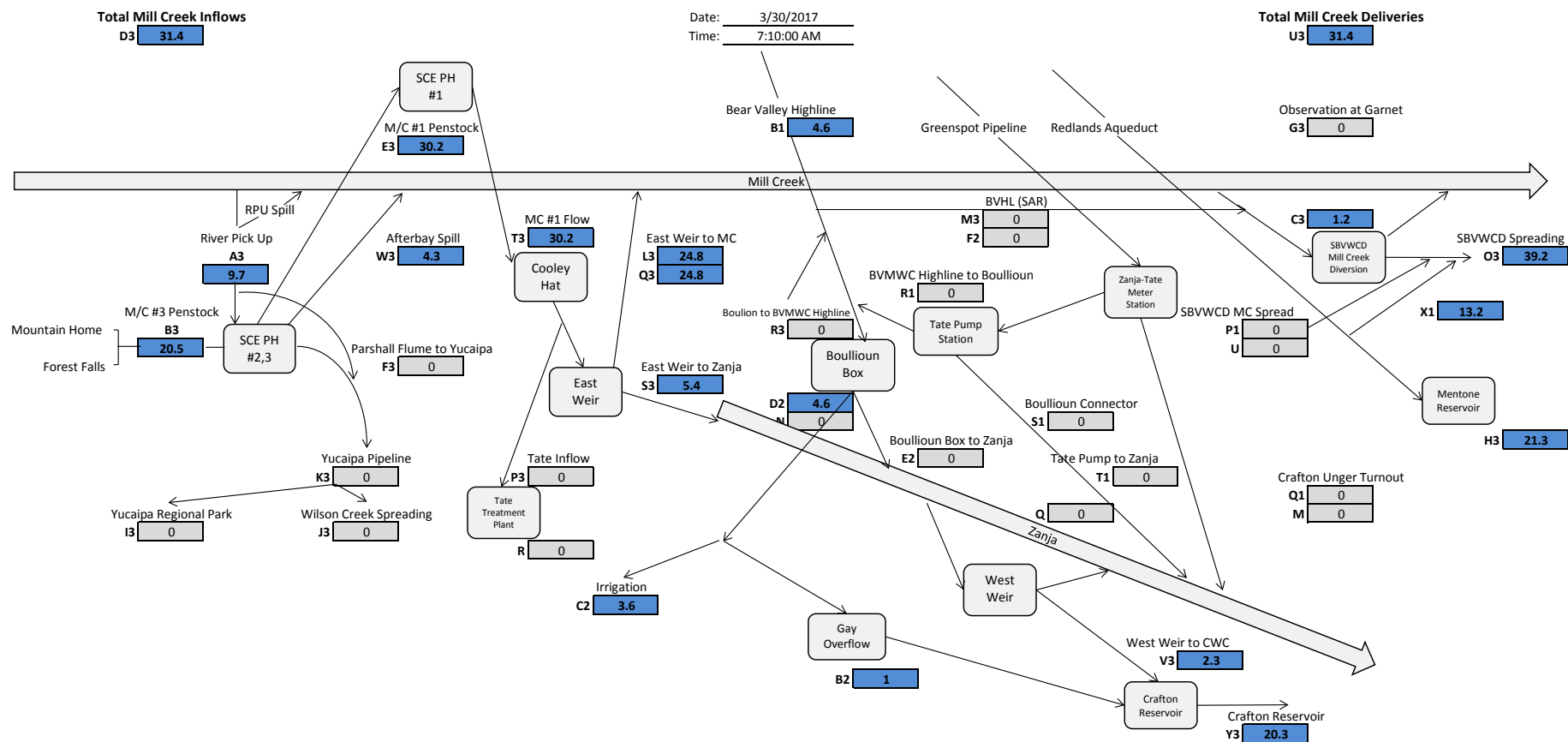
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	1.2	H3	Mentone Reservoir Level	21.3
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	24.8	T3	Mill Creek #1 Flow (Cooley Hat)	30.2	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	5.4	U3	Total MC Deliveries	31.4	V3	Zanja West Weir to CWC Canal	2.3
			T3	MC #1 Flow (Cooley Hat)	30.2				W3	Mill Creek PH #2,3 Afterbay Spill	4.3
									V3	Crafton Reservoir Level (21.3)	20.3

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	1.2
L3	East Weir (MC)	24.8
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	13.2
O3	SBVWCD MC Spreading	39.2

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	155.5	I4	14,565.3	166,000	I4	13,662.7	166,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	18.7	O4	806.6		O4	644.0	
B4	Santa Ana River	SWP	F4	0.0	J4	1,795.9		J4	1,795.9	
C4	Mill Creek	MC	G4	51.6	K4	3,409.0	99,700	K4	3,180.4	99,700
D4	Mill Creek	SWP	H4	0.0	L4	203.0		L4	203.0	
	Redlands	SWP		0.0		32.9			0.0	
	Loma Linda	SWP		0.0		486.6			0.0	
	East Valley	SWP		0.0		3,668.4			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	

Mill Creek Stations



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

