

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 1/10/2017

Time: 7:10:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	2.9
N2	Total SAR Deliveries	2.9
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	1.8
G2	North Fork Canal Weir	1.1
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	0.0
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	3.0
V	Total SWP Deliveries	3.0
J	Northfork Canal	3.0
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	12.0
U3	Total MC Deliveries	12.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	12.0
T3	MC #1 Flow (Cooley Hat)	0.0

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	19.7
Mentone Reservoir Level	19.5

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	20
Estimated Total River Recharge (AF)	0

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	1,169	166,000
Santa Ana River to Mill Creek	SAR-MC	163	0
Santa Ana River	SWP	0	0
Mill Creek	MC	358	99,700
Mill Creek	SWP	0	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			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0	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 Boullioun Box	0.0	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	3.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	0.0
D	Purchased Water	3.0	K	Edwards Canal	0.0	Q	Zanja	0.0		Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries 3.0	
F	Recharge Project	0.0									
G	Total SWP Inflows	3.0									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	1.1	A2	Newport	0.0	D1	BVMWC River PU (USGS)	2.9	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	1.8	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)	2.9
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	2.9	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	0.2							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.1							A5	Total SAR Inflows	2.9
	minus										
D1	BVMWC River PU (USGS)	2.9									
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH#3 Penstock (SCADA)	0.0									

Other			Seven Oaks Dam			Edison Generation		
J1	Big Bear Lake Release	0.9	W	Observation at SOD	N/A			
L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	N/A			
X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			

SAR PH#1 Generating	0.0
SAR PH#3 Generating	0.0

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	1.1	J2	Tailrace Valve to Parshall Flume	1.8	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	0.2
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	1.8	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.1
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	1.8	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	2.9		Parshall Flume (SCADA)	1.8	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0							I2	Tailrace Pipeline	2.9
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	1.8
C1	Greenspot Pipeline	0.0								minus	

Irrigation			Other		
D2	Boullioun Box Weir	0.0	J2	Tailrace Valve to Parshall Flume	1.8
	minus		K2	Northfork Parshall Flume	0.0
B2	Gay Overflow	0.0	I1	Redlands Tunnel	0.3
C2	Irrigation	0.0	N2	Total SAR Deliveries	2.9

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	0.0
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	12.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	12.0			

Mill Creek Deliveries

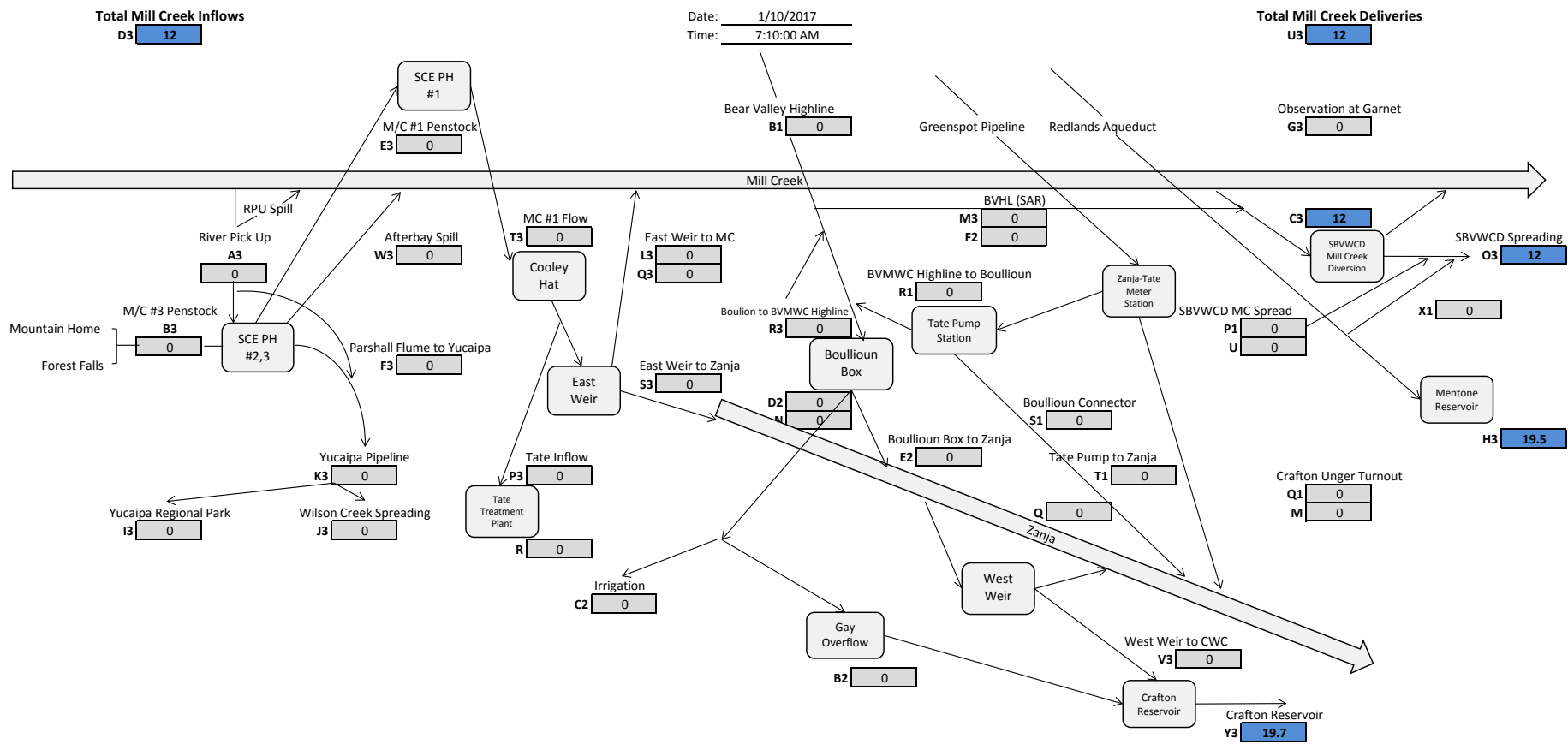
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	12.0	H3	Mentone Reservoir Level	19.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	0.0	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	12.0	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	0.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									V3	Crafton Reservoir Level (21.3)	19.7

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	12.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	12.0

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	13.0	I4	1,168.7	166,000	I4	266.1	166,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	162.6		O4	0.0	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	0.0	
C4	Mill Creek	MC	G4	48.3	K4	358.4	99,700	K4	129.8	99,700
D4	Mill Creek	SWP	H4	0.0	L4	0.0		L4	0.0	
	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)	20	
Flow in the River Above Alabama	0		Flowing Beyond Alabama	0	Total River Flow (cfs)	0		Total River Recharge (AF)	0	

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



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

