

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/27/2016

Time: 7:20:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	5.1
N2	Total SAR Deliveries	5.1
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	5.1
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	0.0
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	5.0
U3	Total MC Deliveries	5.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	5.0
T3	MC #1 Flow (Cooley Hat)	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	37.2
V	Total SWP Deliveries	37.2
J	Northfork Canal	5.0
L	Redlands Aqueduct	8.8
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2174.9
Crafton Reservoir Level (21.3)	16.7
Mentone Reservoir Level	20.6

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	691	166,000
Santa Ana River to Mill Creek	SAR-MC	163	0
Santa Ana River	SWP	0	0
Mill Creek	MC	190	99,700
Mill Creek	SWP	0	0
Redlands	SWP	33	0
Loma Linda	SWP	487	0
East Valley	SWP	3,620	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	8.8	H	EVWVD 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	21.1	N	BVMWC Boullioun Box	0.0	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	5.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	0.0
D	Purchased Water	28.4	K	Edwards Canal	0.0	Q	Zanja	0.0	V	Tres Lagos	2.3
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	8.8	R	Tate Treatment Plant	0.0	Total SWP Deliveries		37.2
F	Recharge Project	0.0									
G	Total SWP Inflows	37.2									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	0.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	5.1	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	3.0	E2	Boullioun Box to Zanja	0.0	minus			C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	2.1	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	5.1
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	5.1	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	0.2	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.1	J1	Big Bear Lake Release	0.9	w	Observation at SOD	2174.9	A5	Total SAR Inflows	5.1
minus			L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2175.0	Edison Generation		
D1	BVMWC River PU (USGS)	5.1	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	0.0	SAR PH#1 Generating	<input type="checkbox"/>	
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH3# Penstock (SCADA)	0.0									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries					
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	0.0	J2	Tailrace Valve to Parshall Flume	3.0	V1	SAR PH #3 Afterbay Spill	0.0			
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	2.1	W1	Redlands Aqueduct / Sandbox	0.2			
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	3.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.1			
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	2.1	L2	SBVWCD Parshall Flume	5.1	Z2	Cuttle Weir To River	0.0			
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	5.1	Parshall Flume (SCADA)			5.6	B1	BVMWC Highline	0.0		
R1	BVMWC Highline to Boullioun	0.0										C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	Irrigation			D2	Boullioun Box Weir	0.0	I2	Tailrace Pipeline	5.1			
T1	Tate Pump Station to Zanja	0.0	minus			minus			L2	SBVWCD Parshall Flume	5.1			
C1	Greenspot Pipeline	0.0	B2	Gay Overflow	0.0	minus			J2	Tailrace Valve to Parshall Flume	3.0			
									C2	Irrigation	0.0	K2	Northfork Parshall Flume	2.1
									minus			I1	Redlands Tunnel	0.3
									minus			N2	Total SAR Deliveries	5.1

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	5.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	5.0			

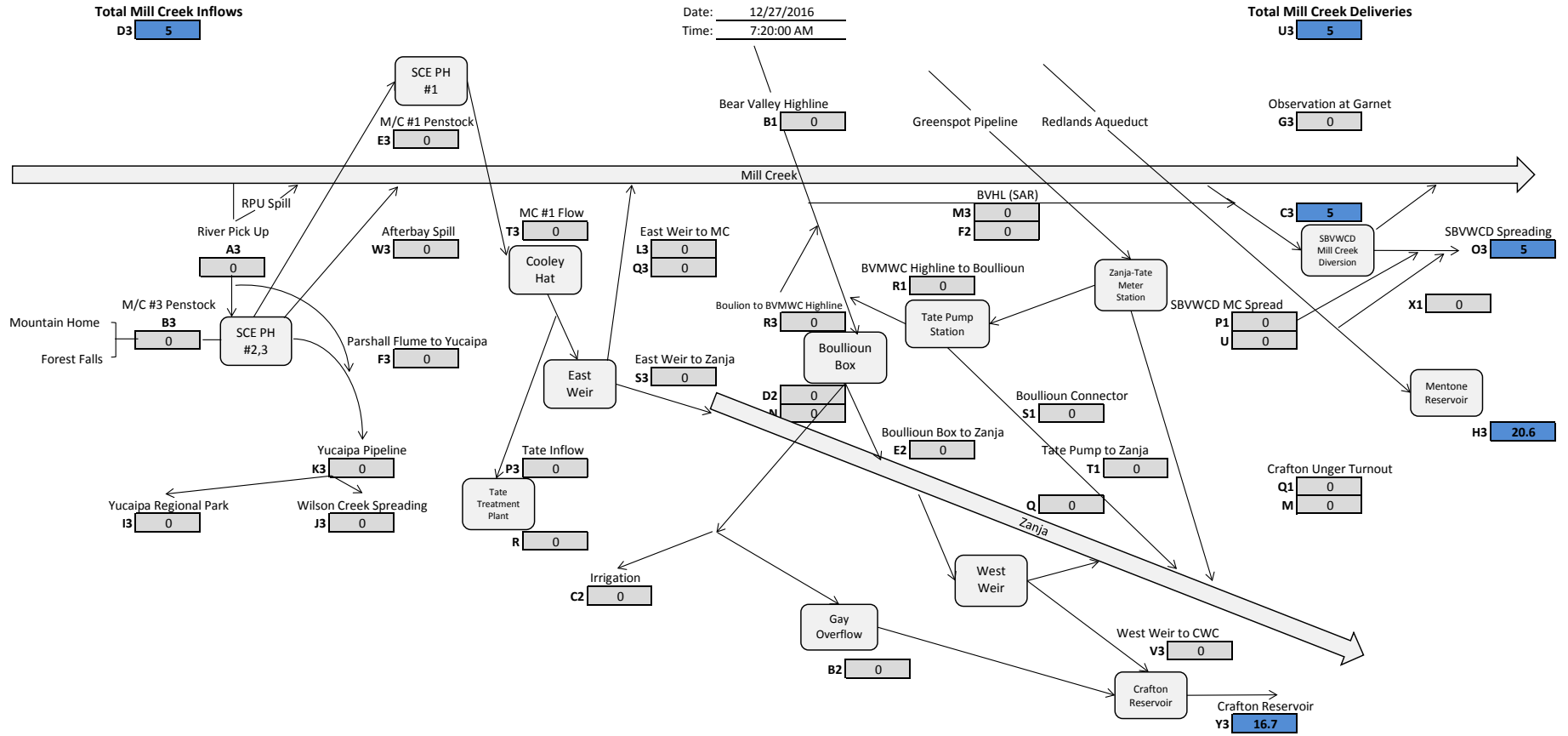
Mill Creek Deliveries

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	5.0	H3	Mentone Reservoir Level	20.6			
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	5.0	V3	Zanja West Weir to CWC Canal	0.0			
SBVWCD MC Spreading			T3	MC #1 Flow (Cooley Hat)	0.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0			
C3	SBVWCD Mill Creek Diversion	5.0										Y3	Crafton Reservoir Level (21.3)	16.7
L3	East Weir (MC)	0.0												
M3	BVHL (SAR)	0.0												
X1	SAR-MC Spread (Red. Aqueduct)	0.0												
O3	SBVWCD MC Spreading	5.0												

SBVWCD Recharge

Location	Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	E4	67.6	I4	690.7	166,000	I4	2,967.8	166,000
M4	Santa Ana Rvr to Mill Creek	N4	0.0	O4	162.6		O4	328.3	
B4	Santa Ana River	F4	0.0	J4	0.0		J4	15.0	
C4	Mill Creek	G4	28.9	K4	189.9	99,700	K4	1,060.2	99,700
D4	Mill Creek	H4	0.0	L4	0.0		L4	17.6	
	Redlands		0.0		32.9			202.4	
	Loma Linda		0.0		486.6			486.6	
	East Valley		209.3		3,620.0			5,532.5	
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	

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



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Santa Ana Stations

