

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 2/1/2017

Time: 7:10:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	237.0
N2	Total SAR Deliveries	237.0
A1	SAR PH#3 Penstock (calc)	37.1
B1	BVMWC Highline	1.6
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	226.0
G2	North Fork Canal Weir	2.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	7.1
	Other	0.0

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	15.1
U3	Total MC Deliveries	15.1
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	19.2
T3	MC #1 Flow (Cooley Hat)	12.6

Reservoir Levels	Feet
Observation at SOD	2219.2
Crafton Reservoir Level (21.3)	19.3
Mentone Reservoir Level	20.5

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	4,706	166,000
Santa Ana River to Mill Creek	SAR-MC	218	0
Santa Ana River	SWP	1,796	0
Mill Creek	MC	1,013	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			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	0.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	0.0
D	Purchased Water	0.0	K	Edwards Canal	0.0	Q	Zanja	0.0	W	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	0.0
F	Recharge Project	0.0									
G	Total SWP Inflows	0.0									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	2.3	A2	Newport	0.0	D1	BVMWC River PU (USGS)	6.5	A1	SAR PH #3 Penstock (calc)	37.1
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	1.6	E1	Main River Gage (USGS)	191.8	B1	BVMWC Highline	1.6
J2	Tailrace Valve to Parshall Flume	34.2	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)	6.5
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	1.6	Z1	SOD Release Subtotal	198.3	E1	Main River Gage (USGS)	191.8
W1	Redlands Aqueduct / Sandbox	7.5							D1a	BV Pick-Up gated	□
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	237.0
minus											
D1	BVMWC River PU (USGS)	6.5	Other			Seven Oaks Dam			Edison Generation		
I1	Redlands Tunnel	0.4	J1	Big Bear Lake Release	0.9	W	Observation at SOD	2219.2		SAR PH#1 Generating	□
A1	SAR PH #3 Penstock (calc)	37.1	L1	SCE SAR AVM (SCADA)	40.7	X	SOD Reservoir Elevation (scada)	2218.7		SAR PH#3 Generating	□
K1	PH#3 Penstock (SCADA)	37.4	X1	SAR-MC Spread (Red. Aqueduct)	7.2	Y	Debris Pool Elevation	0.0			

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	2.3	J2	Tailrace Valve to Parshall Flume	34.2	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	7.5
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	34.2	H1	SBVWCD Diversion	191.8	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	226.0	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	36.5		Parshall Flume (SCADA)	226.0	B1	BVMWC Highline	1.6
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0							I2	Tailrace Pipeline	36.5
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	226.0
C1	Greenspot Pipeline	0.0							minus		
									J2	Tailrace Valve to Parshall Flume	34.2
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.4
									N2	Total SAR Deliveries	237.0

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	12.6	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	2.5	G3	Observation at Garnet	0.0
D3	Total MC Inflows	15.1			

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	2.5	H3	Mentone Reservoir Level	20.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	9.5	T3	Mill Creek #1 Flow (Cooley Hat)	12.6	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	3.1	U3	Total MC Deliveries	15.1	V3	Zanja West Weir to CWC Canal	1.9
			T3	MC #1 Flow (Cooley Hat)	12.6				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									V3	Crafton Reservoir Level (21.3)	19.3

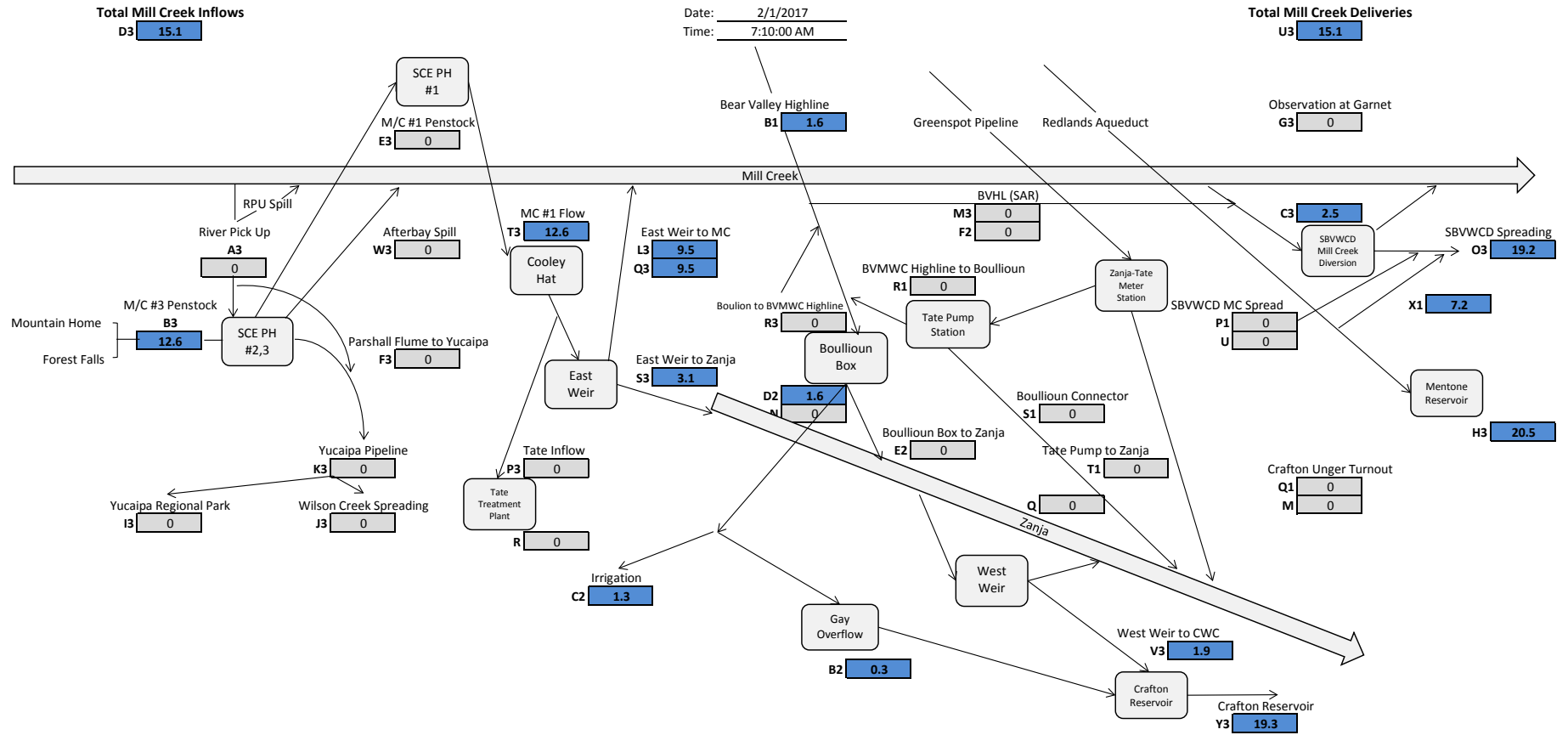
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	2.5
L3	East Weir (MC)	9.5
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	7.2
O3	SBVWCD MC Spreading	19.2

SBVWCD Recharge

Location	Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River		430.5	I4	4,706.1	166,000	I4	3,803.5	166,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	12.3	O4	217.8		O4	55.2	
B4	Santa Ana River	SWP	21.7	J4	1,795.9		J4	1,795.9	
C4	Mill Creek	MC	21.8	K4	1,013.1	99,700	K4	784.6	99,700
D4	Mill Creek	SWP	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		

Santa Ana River - Mill Creek Cooperative Water Project

Mill Creek Stations



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

