

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 9/30/2016

Time: 7:20:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	6.4
N2	Total SAR Deliveries	6.4
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	2.4
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	0.0
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	61.1
V	Total SWP Deliveries	61.1
J	Northfork Canal	14.6
L	Redlands Aqueduct	20.9
M	Crafton Unger Lane	5.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	5.3
U3	Total MC Deliveries	5.3
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	1.5
T3	MC #1 Flow (Cooley Hat)	3.8

Reservoir Levels	Feet
Observation at SOD	2233.5
Crafton Reservoir Level (21.3)	20.3
Mentone Reservoir Level	16.4

River Recharge	AF
Estimate SAR Recharge	0.0
Estimate Mill Creek Recharge	0.0
Total River Recharge	0.0

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	2,634	123,000
Santa Ana River to Mill Creek	SAR-MC	132	0
Santa Ana River	SWP	15	0
Mill Creek	MC	1,044	73,800
Mill Creek	SWP	18	714
Redlands	SWP	203	0
EV HQ	SWP	1,892	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	42.5	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	14.3
C	Exchange Water	0.0	J	Northfork Canal	14.6
D	Purchased Water	18.6	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	20.9
F	Recharge Project	0.0	M	Crafton Unger Lane	5.0
G	Total SWP Inflows	61.1	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	6.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.0
			U	M/C spreading at Zanja Tate	0.0
			V	Tres Lagos	0.3
				Total SWP Deliveries	61.1

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
G2	Northfork Canal Weir	0.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	2.4
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	0.0
Y1	Redlands Sandbox Spill	0.3
		minus
D1	BVMWC River PU (USGS)	2.4
I1	Redlands Tunnel	0.3
A1	SAR PH #3 Penstock (calc) 0.0	
K1	PH3# Penstock (SCADA) 0.0	

BVMWC Highline		
A2	Newport	0.0
D2	Boullioun Box Weir	4.0
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	BVMWC Highline 4.0	
Other		
J1	Big Bear Lake Release	1.2
L1	SCE SAR AVM (SCADA)	7.4
X1	SAR-MC Spread (Red. Aqueduct)	0.0

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	2.4
E1	Main River Gage (USGS)	0.0
		minus
F1	Greenspot Spill	0.6
Z1	SOD Release Subtotal 1.8	
Seven Oaks Dam		
W	Observation at SOD	2233.5
X	SOD Reservoir Elevation (scada)	N/A
Y	Debris Pool Elevation	0.0

Total SAR Inflows		
A1	SAR PH #3 Penstock (calc)	0.0
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	2.4
E1	Main River Gage (USGS)	0.0
D1a	BV Pick-Up gated	☐
A5	Total SAR Inflows	6.4
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	0.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	2.4
I2	Tailrace Pipeline	2.4

SBVWCD Parshall FlumeTo Basins		
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	2.4
H1	SBVWCD Diversion	0.0
L2	SBVWCD Parshall Flume	2.4
	Parshall Flume (SCADA)	0.8

Irrigation		
D2	Boullioun Box Weir	4.0
		minus
B2	Gay Overflow	2.0
C2	Irrigation	2.0

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	0.0
Y1	Redlands Sandbox Spill	0.3
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	2.4
L2	SBVWCD Parshall Flume	2.4
		minus
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	2.4
I1	Redlands Tunnel	0.3
N2	Total SAR Deliveries	6.4

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	5.3
B3	M/C #3 Penstock	3.8	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	1.5	G3	Observation at Garnet	0.0
D3	Total MC Inflows	5.3			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
j3	Yucaipa Regional Park	0.0	p3	Tate Inflow	0.0	c3	SBVWCD Mill Creek Diversion	1.5	h3	Mentone Reservoir Level	16.4
j3	Wilson Creek Spreading	0.0	q3	East Weir to Mill Creek	0.0	t3	Mill Creek #1 Flow (Cooley Hat)	3.8	r3	Boullioun to BVMWC Highline	0.0
k3	Yucaipa Pipeline	0.0	s3	East Weir to Zanja	3.8	u3	Total MC Deliveries	5.3	v3	Zanja West Weir to CWC Canal	5.9
			t3	MC #1 Flow (Cooley Hat)	3.8				w3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									y3	Crafton Reservoir Level (21.3)	20.3

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	1.5
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	1.5

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	3.8	I4	2,633.7	123,000	I4	2,276.5	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	132.0		O4	132.0	
B4	Santa Ana River	SWP	F4	0.0	J4	15.0		J4	15.0	
C4	Mill Creek	MC	G4	12.4	K4	1,044.4	73,800	K4	857.2	73,800
D4	Mill Creek	SWP	H4	0.0	L4	17.6	714	L4	17.6	714
	Redlands	SWP		0.2		203.2			203.2	
	East Valley	SWP		28.4		1,892.4			1,892.4	
SAR Passing Cuttle Weir	0		Share of Lost Flow	0	Estimate SAR Recharge	0				
Mill Creek Passing Garnet	0		Share of Lost Flow	0	Estimate Mill Creek Recharge	0				
Flow in the River Above Alabama	0		Flowing Beyond Alabama	0	Total River Recharge	0				