

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 9/15/2016

Time: 6:50:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	7.1
N2	Total SAR Deliveries	7.1
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	4.9
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	0.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	1.0
W1	Redlands Aqueduct (calc)	0.8
v1	PH3 Afterbay Spill Loss to SAR	0.4

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	52.3
V	Total SWP Deliveries	52.3
J	Northfork Canal	12.6
L	Redlands Aqueduct	26.9
M	Crafton Unger Lane	1.5
T	Newport to BVMWC	1.2

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	7.4
U3	Total MC Deliveries	7.4
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	7.4

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	20.2
Mentone Reservoir Level	21.5

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	2,621	123,000
Santa Ana River to Mill Creek	SAR-MC	132	0
Santa Ana River	SWP	15	0
Mill Creek	MC	1,040	73,800
Mill Creek	SWP	18	714
Redlands	SWP	150	0
EV HQ	SWP	1,510	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	35.1	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	10.1
C	Exchange Water	0.0	J	Northfork Canal	12.6
D	Purchased Water	17.2	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	26.9
F	Recharge Project	0.0	M	Crafton Unger Lane	1.5
G	Total SWP Inflows	52.3	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	1.2
			U	M/C spreading at Zanja Tate	0.0
			V	Tres Lagos	0.0
				Total SWP Deliveries	52.3

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)	2.2	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	1.0	D2	Boullioun Box Weir	4.9	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	4.9
J2	Tailrace Valve to Parshall Flume	0.0	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	0.4	D1	BVMWC River PU (USGS)	2.2
V1	PH#3 Afterbay SpillLoss to SAR	0.4	B1	BVMWC Highline	4.9	Z1	SOD Release Subtotal	1.8	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	0.8	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.3	J1	Big Bear Lake Release	1.2	w	Observation at SOD	N/A	A5	Total SAR Inflows	7.1
minus			L1	SCE SAR AVM (SCADA)	7.8	x	SOD Reservoir Elevation (scada)	N/A	Edison Generation		
D1	BVMWC River PU (USGS)	2.2	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	0.0	SAR PH#1 Generating	☐	
I1	Redlands Tunnel	0.3							SAR PH#3 Generating	☐	
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH3# Penstock (SCADA)	0.0									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	0.0	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.4
N1	BVMWC Highline	0.0	H2	Edwards Canal	1.0	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	0.8
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.3
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Z1	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	1.0	Parshall Flume (SCADA)			B1	BVMWC Highline	4.9
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	4.9	I2	Tailrace Pipeline	1.0
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	2.8	minus		
						C2	Irrigation	2.1	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	7.1

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.4	E3	M/C #1 Penstock Flow	7.4
B3	M/C #3 Penstock	5.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	7.4			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	5.1	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	21.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	7.4	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	2.3	U3	Total MC Deliveries	7.4	V3	Zanja West Weir to CWC Canal	3.1
			T3	MC #1 Flow (Cooley Hat)	7.4				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	20.2

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

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	2,620.5	123,000	I4	2,263.3	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	0.0	K4	1,039.9	73,800	K4	852.7	73,800
D4	Mill Creek	SWP	H4	0.0	L4	17.6	714	L4	17.6	714
	Redlands	SWP		0.0		149.5			149.5	
	East Valley	SWP		19.5		1,510.0			1,510.0	
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				