

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 6/29/2016

Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	9.2
N2	Total SAR Deliveries	9.2
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	5.2
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	1.0
W1	Redlands Aqueduct (calc)	3.0
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	37.8
V	Total SWP Deliveries	37.8
J	Northfork Canal	9.6
L	Redlands Aqueduct	16.7
M	Crafton Unger Lane	6.5
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	8.5
U3	Total MC Deliveries	8.5
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	8.5

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	12.5
Mentone Reservoir Level	20

River Recharge	AF
Estimate SAR Recharge	15.0
Estimate Mill Creek Recharge	0.0
Total River Recharge	15.0

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	2,619	123,000
Santa Ana River to Mill Creek	SAR-MC	132	0
Santa Ana River	SWP	0	0
Mill Creek	MC	1,040	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
EV HQ	SWP	85	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. Small test demonstration yesterday in santa ana and 15 AF was spread.

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State Water Project

Inflows		
A	BBMWD In-lieu	32.8
B	Muni test at Greenspot Station	0.0
C	Exchange Water	0.0
D	Purchased Water	5.0
E	Redlands Aqueduct Leakage	0.0
F	Recharge Project	0.0
G	Total SWP Inflows	37.8

Deliveries								
H	EVWD Treatment Plant	0.0	M	Crafton Unger Lane	6.5	S	SBCFCD Grove	0.0
I	Santa Ana Low Turnout	0.0	N	BVMWC Boullioun Box	0.0	T	Newport for BVMWC	0.0
J	Northfork Canal	9.6	P	SARC West	0.0	U	M/C spreading at Zanja Tate	0.0
K	Edwards Canal	0.0	Q	Zanja	0.0		EV HQ Irrigation	1.0
L	Redlands Aqueduct	16.7	R	Tate Treatment Plant	4.0	V	Total SWP Deliveries	37.8

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)	4.0	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	1.0	D2	Boullioun Box Weir	5.2	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	5.2
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	1.0	D1	BVMWC River PU (USGS)	4.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	5.2	Z1	SOD Release Subtotal	3.0	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	2.9							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.4							A5	Total SAR Inflows	9.2
minus											
D1	BVMWC River PU (USGS)	4.0	J1	Big Bear Lake Release	1.0	W	Observation at SOD	N/A			
I1	Redlands Tunnel	0.3	L1	SCE SAR AVM (SCADA)	7.4	X	SOD Reservoir Elevation (scada)	N/A			
A1	SAR PH #3 Penstock (calc)	0.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
K1	PH3# Penstock (SCADA)	0.0									

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	1.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	1.0

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

Irrigation		
D2	Boullioun Box Weir	5.2
		minus
B2	Gay Overflow	2.2
C2	Irrigation	3.0

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	2.9
Y1	Redlands Sandbox Spill	0.4
Z1	Cuttle Weir To River	0.0
B1	BVMWC Highline	5.2
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	1.0
L2	SBVWCD Parshall Flume	0.0
		minus
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	0.3
N2	Total SAR Deliveries	9.2

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	1.9	E3	M/C #1 Penstock Flow	8.5
B3	M/C #3 Penstock	6.6	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	8.5			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
j3	Yucaipa Regional Park	0.0	p3	Tate Inflow	6.6	c3	SBVWCD Mill Creek Diversion	0.0	h3	Mentone Reservoir Level	20.0
j3	Wilson Creek Spreading	0.0	q3	East Weir to Mill Creek	0.0	t3	Mill Creek #1 Flow (Cooley Hat)	8.5	r3	Boullion to BVMWC Highline	0.0
k3	Yucaipa Pipeline	0.0	s3	East Weir to Zanja	1.9	u3	Total MC Deliveries	8.5	v3	Zanja West Weir to CWC Canal	6.7
			t3	MC #1 Flow (Cooley Hat)	8.5				w3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									y3	Crafton Reservoir Level (21.3)	12.5

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	2,619.3	123,000	I4	2,262.1	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	0.0		J4	0.0	
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	0	714	L4	0	714
	SBVMWD	SWP								
	EV HQ	SWP		2.0		84.9			84.9	
SAR Passing Cuttle Weir	0		Share of Lost Flow	0	Estimate SAR Recharge	15				
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	15				