Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 7/1/2016

Time: 7:15:00 AM

Santa Ana River		Flow Rate (cfs)
A5	**Total SAR Inflows**	7.7
N2	**Total SAR Deliveries**	7.7
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	5.0
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)	1.7
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	**Total MC Inflows**	7.7
U3	**Total MC Deliveries**	7.7
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	7.7

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	12.6
Mentone Reservoir Level	19.8

State Water Project		Flow Rate (cfs)
G	**Total SWP Inflows**	37.3
V	**Total SWP Deliveries**	37.3
J	Northfork Canal	9.5
L	Redlands Aqueduct	16.4
M	Crafton Unger Lane	5.6
T	Newport to BVMWC	0.8

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	15	0
Mill Creek	MC	1,040	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
EV HQ	SWP	89	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 7/1/2016
Time: 7:15:00 AM

State Water Project

Inflows		
A	BBMWD In-lieu	31.5
B	Muni test at Greenspot Station	0.0
C	Exchange Water	0.0
D	Purchased Water	5.8
E	Redlands Aqueduct Leakage	0.0
F	Recharge Project	0.0
G	**Total SWP Inflows**	**37.3**

Deliveries		
H	EVWD Treatment Plant	0.0
I	Santa Ana Low Turnout	0.0
J	Northfork Canal	9.5
K	Edwards Canal	0.0
L	Redlands Aqueduct	16.4

Deliveries		
M	Crafton Unger Lane	5.6
N	BVMWC Boullioun Box	0.0
P	SARC West	0.0
Q	Zanja	0.0
R	Tate Treatment Plant	4.0

Deliveries		
S	SBCFCD Grove	0.0
T	Newport for BVMWC	0.8
U	M/C spreading at Zanja Tate	0.0
	EV HQ Irrigation	1.0
V	**Total SWP Deliveries**	**37.3**

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
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
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	1.8
Y1	Redlands Sandbox Spill	0.2
		minus
D1	BVMWC River PU (USGS)	2.7
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	5.0
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	**BVMWC Highline**	**5.0**

Other		
J1	Big Bear Lake Release	1.0
L1	SCE SAR AVM (SCADA)	6.4
X1	SAR-MC Spread (Red. Aqueduct)	0.0

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	2.7
E1	Main River Gage (USGS)	0.0
		minus
F1	Greenspot Spill	0.4
Z1	**SOD Release Subtotal**	**2.3**

Seven Oaks Dam		
W	Observation at SOD	2134.0
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	5.0
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	2.7
E1	Main River Gage (USGS)	0.0
D1a	BV Pick-Up gated	☐
A5	**Total SAR Inflows**	**7.7**

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	5.0
		minus
B2	Gay Overflow	1.0
C2	**Irrigation**	4.0

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	1.8
Y1	Redlands Sandbox Spill	0.2
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	5.0
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**	**7.7**

Mill Creek Inflows

Total MC Inflows		
A3	RPU Flow	0.9
B3	M/C #3 Penstock	6.8
C3	SBVWCD Mill Creek Diversion	0.0
D3	**Total MC Inflows**	**7.7**

Other		
E3	M/C #1 Penstock Flow	7.7
F3	Stream Parshall Flume to Yucaipa	0.0
G3	Observation at Garnet	0.0

Mill Creek Deliveries

Yucaipa Pipeline		
I3	Yucaipa Regional Park	0.0
J3	Wilson Creek Spreading	0.0
K3	**Yucaipa Pipeline**	**0.0**

MC #1 Flow (Cooley Hat)		
P3	Tate Inflow	7.1
Q3	East Weir to Mill Creek	0.0
S3	East Weir to Zanja	0.6
T3	**MC #1 Flow (Cooley Hat)**	**7.7**

Total MC Deliveries		
C3	SBVWCD Mill Creek Diversion	0.0
T3	Mill Creek #1 Flow (Cooley Hat)	7.7
U3	**Total MC Deliveries**	**7.7**

Other		
H3	Mentone Reservoir Level	19.8
R3	Boullioun to BVMWC Highline	0.0
V3	Zanja West Weir to CWC Canal	5.4
W3	Mill Creek PH #2,3 Afterbay Spill	0.0
Y3	Crafton Reservoir Level (21.3)	12.6

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
A4	Santa Ana River	SAR
M4	Santa Ana Rvr to Mill Creek	SAR-MC
B4	Santa Ana River	SWP
C4	Mill Creek	MC
D4	Mill Creek	SWP
	SBVMWD	SWP
	EV HQ	SWP

Previous Day (AF)		
E4	0.0	
N4	0.0	
F4	15.0	
G4	0.0	
H4	0.0	
	2.0	

WY To Date (AF)		Target
I4	2,619.3	123,000
O4	132.0	
J4	15.0	
K4	1,039.9	73,800
L4	0	714
	88.9	

Calendar Year To Date (AF)		Target
I4	2,262.1	123,000
O4	132.0	
J4	15.0	
K4	852.7	73,800
L4	0	714
	88.9	

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