Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 4/15/2016

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	**Total SAR Inflows**	21.8
N2	**Total SAR Deliveries**	21.8
A1	SAR PH#3 Penstock (calc)	15.1
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	0.0
G2	North Fork Canal Weir	6.6
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	12.2
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	**Total MC Inflows**	11.1
U3	**Total MC Deliveries**	11.1
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	10.8
T3	MC #1 Flow (Cooley Hat)	9.1

Reservoir Levels	Feet
Observation at SOD	2186.9
Crafton Reservoir Level (21.3)	18.2
Mentone Reservoir Level	19.8

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

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	1,211	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	839	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	12	0
WMWD	SWP	0	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	P	SARC West	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0	Q	Zanja	0.0
C	Exchange Water	0.0	J	Northfork Canal	0.0	R	Tate Treatment Plant	0.0
D	Purchased Water	0.0	K	Edwards Canal	0.0	S	SBCFCD Grove	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	T	Newport for BVMWC	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0	U	M/C spreading at Zanja Tate	0.0
G	**Total SWP Inflows**	**0.0**	N	BVMWC Boullioun Box	0.0	**V**	**Total SWP Deliveries**	**0.0**

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	6.6	A2	Newport	0.0	D1	BVMWC River PU (USGS)	3.7	**A1**	SAR PH #3 Penstock (calc)	15.1
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	3.0	E1	Main River Gage (USGS)	0.0	**B1**	BVMWC Highline	3.0
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	0.0	D1	BVMWC River PU (USGS)	3.7
V1	PH#3 Afterbay SpillLoss to SAR	0.0	**B1**	**BVMWC Highline**	**3.0**	**Z1**	**SOD Release Subtotal**	**3.7**	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	12.5							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0							**A5**	**Total SAR Inflows**	**21.8**
	minus										
D1	BVMWC River PU (USGS)	3.7									
I1	Redlands Tunnel	0.3									
A1	**SAR PH #3 Penstock (calc)**	**15.1**									
K1	**PH3# Penstock (SCADA)**	**17.9**									

Other			Seven Oaks Dam		
J1	Big Bear Lake Release	0.5	W	Observation at SOD	2186.9
L1	SCE SAR AVM (SCADA)	23.2	X	SOD Reservoir Elevation (scada)	2186.9
X1	SAR-MC Spread (Red. Aqueduct)	0.0	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	6.6	J2	Tailrace Valve to Parshall Flume	0.0	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	12.5
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	**L2**	**SBVWCD Parshall Flume**	**0.0**	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	**I2**	**Tailrace Pipeline**	**6.6**		**Parshall Flume (SCADA)**	**0.0**	**B1**	BVMWC Highline	3.0
R1	BVMWC Highline to Boullioun	0.0							**C1**	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0							**I2**	Tailrace Pipeline	6.6
T1	Tate Pump Station to Zanja	0.0							**L2**	SBVWCD Parshall Flume	0.0
C1	**Greenspot Pipeline**	**0.0**								**minus**	

Irrigation		
D2	Boullioun Box Weir	3.0
	minus	
B2	Gay Overflow	2.2
C2	**Irrigation**	0.8

J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	0.3
N2	**Total SAR Deliveries**	**21.8**

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	9.1	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	2.0	G3	Observation at Garnet	0.0
D3	**Total MC Inflows**	**11.1**			

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	2.0	H3	Mentone Reservoir Level	19.8
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	8.8	**T3**	Mill Creek #1 Flow (Cooley Hat)	9.1	R3	Boullioun to BVMWC Highline	0.0
K3	**Yucaipa Pipeline**	**0.0**	S3	East Weir to Zanja	0.3	**U3**	**Total MC Deliveries**	**11.1**	V3	Zanja West Weir to CWC Canal	0.0
			T3	**MC #1 Flow (Cooley Hat)**	**9.1**				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	18.2

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	2.0
L3	East Weir (MC)	8.8
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	**SBVWCD MC Spreading**	**10.8**

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.6	I4	1,210.8	123,000	I4	853.6	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	0.0	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	0.0	
C4	Mill Creek	MC	G4	19.5	K4	839.1	73,800	K4	651.9	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP		0.0		12			12	
	WMWD	SWP								

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