Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 10/8/2018

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	**Total SAR Inflows**	11.6
N2	**Total SAR Deliveries**	11.6
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	5.6
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	0.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	6.0
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	**Total MC Inflows**	7.0
U3	**Total MC Deliveries**	7.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	7.0
T3	MC #1 Flow (Cooley Hat)	0.0

State Water Project		Flow Rate (cfs)
G	**Total SWP Inflows**	75.0
V	**Total SWP Deliveries**	75.0
J	Northfork Canal	2.0
L	Redlands Aqueduct	12.1
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	1.3

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	18.9
Mentone Reservoir Level	21.5

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	0
Estimated Total River Recharge (AF)	0

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	5	166,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	662	0
Mill Creek	MC	107	99,700
Mill Creek	SWP	0	0
Redlands	SWP	0	0
Loma Linda	SWP	0	0
East Valley	SWP	87	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.
San Bernardino Valley Municipal Water District is spreading water at the Santa Ana Low.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10/8/2018
Time: 7:00:00 AM

State Water Project

	Inflows	
A	BBMWD In-lieu	26.0
B	Muni test at Greenspot Station	0.0
C	Exchange Water	0.0
D	Purchased Water	49.0
E	Redlands Aqueduct Leakage	0.0
F	Recharge Project	0.0
G	**Total SWP Inflows**	**75.0**

	Deliveries	
H	EVWD City Creek	7.5
I	Santa Ana Low Turnout	50.0
J	Northfork Canal	2.0
K	Edwards Canal	0.0
L	Redlands Aqueduct	12.1

	Deliveries	
M	Crafton Unger Lane	0.0
N	BVMWC Boullioun Box	1.0
P	SARC West	0.0
Q	Zanja	0.0
R	Tate Treatment Plant	0.0

	Deliveries	
S	SBCFCD Grove	0.0
T	Newport for BVMWC	1.3
U	M/C spreading at Zanja Tate	0.0
W	Tres Lagos	1.1
V	**Total SWP Deliveries**	**75.0**

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	0.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	6.2
Y1	Redlands Sandbox Spill	0.1
		minus
D1	BVMWC River PU (USGS)	6.0
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	5.6
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	**BVMWC Highline**	**5.6**

	Other	
J1	Big Bear Lake Release	1.2
L1	SCE SAR AVM (SCADA)	10.2
X1	SAR-MC Spread (Red. Aqueduct)	0.0

	SOD Release Subtotal	
D1	BVMWC River PU (USGS)	6.0
E1	Main River Gage (USGS)	0.0
		minus
F1	Greenspot Spill	4.2
Z1	**SOD Release Subtotal**	**1.8**

W	Observation at SOD	N/A
X	SOD Reservoir Elevation (scada)	N/A
Y	Debris Pool Elevation	N/A

	Total SAR Inflows	
A1	SAR PH #3 Penstock (calc)	0.0
B1	BVMWC Highline	5.6
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	6.0
E1	Main River Gage (USGS)	0.0
D1a	BV Pick-Up gated	☐
A5	**Total SAR Inflows**	**11.6**

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	0.0
I2	**Tailrace Pipeline**	**0.0**

	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	5.6
N	BVMWC Boullioun Box	1.0
		minus
B2	Gay Overflow	4.2
C2	**Irrigation**	2.4

	Deliveries	
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	6.2
Y1	Redlands Sandbox Spill	0.1
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	5.6
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	0.0
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**	**11.6**

Mill Creek Inflows

	Total MC Inflows	
A3	RPU Flow	0.0
B3	M/C #3 Penstock	0.0
C3	SBVWCD Mill Creek Diversion	7.0
D3	**Total MC Inflows**	**7.0**

	Other	
E3	M/C #1 Penstock Flow	0.0
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**

	SBVWCD MC Spreading	
C3	SBVWCD Mill Creek Diversion	7.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	**SBVWCD MC Spreading**	**7.0**

	MC #1 Flow (Cooley Hat)	
P3	Tate Inflow	0.0
Q3	East Weir to Mill Creek	0.0
S3	East Weir to Zanja	0.0
T3	**MC #1 Flow (Cooley Hat)**	**0.0**
N3	**Cooley Hat (SCADA)**	**0.0**

	Total MC Deliveries	
C3	SBVWCD Mill Creek Diversion	7.0
T3	Mill Creek #1 Flow (Cooley Hat)	0.0
U3	**Total MC Deliveries**	**7.0**

	Other	
H3	Mentone Reservoir Level	21.5
R3	Boullioun to BVMWC Highline	0.0
V3	Zanja West Weir to CWC Canal	0.0
W3	Mill Creek PH #2,3 Afterbay Spill	1.6
Y3	Crafton Reservoir Level (21.3)	18.9

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
	Redlands	SWP
	Loma Linda	SWP
	East Valley	SWP

	Previous Day (AF)	
E4	0.4	
N4	0.0	
F4	261.8	
G4	41.7	
H4	0.0	
	0.0	
	0.0	
	35.7	

	WY To Date (AF)	Target
I4	4.7	166,000
O4	0.0	
J4	662.4	
K4	107.1	99,700
L4	0.0	
	0.0	
	0.0	
	86.8	

	Calendar Year To Date (AF)	Target
I4	2,508.1	166,000
O4	88.3	
J4	1,920.9	
K4	1,896.0	99,700
L4	434.1	
	0.0	
	0.0	
	1,238.2	

SAR Passing Cuttle Weir (cfs)	0	Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	0	Estimate SAR Recharge (AF)	0
Mill Creek Passing Garnet (cfs)	0	Share of Lost Mill Creek Flow	0	Estimate Mill Creek flow (cfs)	0	Estimate Mill Creek Recharge (AF)	0
Flow in the River Above Alabama	0	Flowing Beyond Alabama	0	Total River Flow (cfs)	0	Total River Recharge (AF)	0