

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 11/28/2018

Time: 6:50:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	14.4
N2	Total SAR Deliveries	14.4
A1	SAR PH#3 Penstock (calc)	7.3
B1	BVMWC Highline	5.3
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	0.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.4
W1	Redlands Aqueduct (calc)	8.7
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	11.4
V	Total SWP Deliveries	11.4
J	Northfork Canal	2.0
L	Redlands Aqueduct	2.1
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.6

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	8.5
U3	Total MC Deliveries	8.5
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	1.0
T3	MC #1 Flow (Cooley Hat)	7.5

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	18.0
Mentone Reservoir Level	21.4

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	1,011	0
Mill Creek	MC	357	99,700
Mill Creek	SWP	0	0
Redlands	SWP	0	0
Loma Linda	SWP	0	0
East Valley	SWP	134	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 throughout the day.

Daily Flow Report

State Water Project											
Inflows			Deliveries								
A	BBMWD In-lieu	11.4	H	EVWD City Creek	5.5	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0	N	BVMWC Bouillion Box	0.0	T	Newport for BVMWC	0.6
C	Exchange Water	0.0	J	Northfork Canal	2.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	0.0
D	Purchased Water	0.0	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	1.2
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	2.1	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	11.4
F	Recharge Project	0.0									
G	Total SWP Inflows	11.4									

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)	1.8	A1	SAR PH #3 Penstock (calc)	7.3
H2	Edwards Canal	0.4	E2	Boullioun Box Weir	5.3	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	5.3
J2	Tailrace Valve to Parshall Flume	0.0	D2	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)	1.8
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	5.3	Z1	SOD Release Subtotal	1.8	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	9.0							D1a	BV Pick-Up gated	□
Y1	Redlands Sandbox Spill	0.0	Other						A5	Total SAR Inflows	14.4
minus			J1	Big Bear Lake Release	1.0	W	Observation at SOD	N/A	Edison Generation		
D1	BVMWC River PU (USGS)	1.8	L1	SCE SAR AVM (SCADA)	13.3	X	SOD Reservoir Elevation (scada)	N/A	SAR PH#1 Generating		
I1	Redlands Tunnel	0.3	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	N/A	SAR PH#3 Generating		
A1	SAR PH #3 Penstock (calc)	7.3									
K1	PH3# Penstock (SCADA)	6.9									

Greenspot Pipeline		
M1	SBFCFD 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	0.4
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	0.4

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

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	9.0
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	5.3
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	0.4
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	14.4

Irrigation		
D2	Boullioun Box Weir	5.3
N	BVMWC Boullioun Box	0.0
minus		
B2	Gay Overflow	2.6
C2	Irrigation	2.7

Total MC Inflows			Other		
A3	RPU Flow	2.5	E3	M/C #1 Penstock Flow	7.5
B3	M/C #3 Penstock	5.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	1.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	8.5			

Yucaipa Pipeline		
	Yucaipa Regional Park	0.0
J3	Wilson Creek Spreading	0.0
K3	Yucaipa Pipeline	0.0
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	1.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	1.0

MC #1 Flow (Cooley Hat)		
P3	Tate Inflow	7.2
Q3	East Weir to Mill Creek	0.0
S3	East Weir to Zanja	0.3
T3	MC #1 Flow (Cooley Hat)	7.5
N3	Cooley Hat (SCADA)	21.7

Total MC Deliveries		
C3	SBVWCD Mill Creek Diversion	1.0
T3	Mill Creek #1 Flow (Cooley Hat)	7.5
U3	Total MC Deliveries	8.5

Other		
H3	Mentone Reservoir Level	21.4
R3	Boullioun to BVMWC Highline	0.0
V3	Zanja West Weir to CWC Canal	0.0
W3	Mill Creek PH #2,3 Afterbay Spill	0.0
Y3	Crafton Reservoir Level (21.3)	18.0

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	4.7	166,000		I4	2,508.1	166,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0		O4	0.0			O4	88.3		
B4	Santa Ana River	SWP	F4	0.0		J4	1,011.2			J4	2,269.6		
C4	Mill Creek	MC	G4	5.9		K4	356.5	99,700		K4	2,145.4	99,700	
D4	Mill Creek	SWP	H4	0.0		L4	0.0			L4	434.1		
	Redlands	SWP		0.0			0.0				0.0		
	Loma Linda	SWP		0.0			0.0				0.0		
	East Valley	SWP		0.0			134.4				1,285.8		
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