

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 8/13/2019

Time: 6:50:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	49.9
N2	Total SAR Deliveries	49.9
A1	SAR PH#3 Penstock (calc)	22.9
B1	BVMWC Highline	4.5
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	16.0
G2	North Fork Canal Weir	1.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	27.5
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	54.9
V	Total SWP Deliveries	54.9
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Location	Type
Santa Ana River	SAR
Santa Ana River to Mill Creek	SAR-MC
Santa Ana River	SWP
Mill Creek	MC
Mill Creek	SWP
Redlands	SWP
Loma Linda	SWP
East Valley	SWP

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	31.1
U3	Total MC Deliveries	31.1
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	31.1

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	16.9
Mentone Reservoir Level	19.6

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	13
Estimated Total River Recharge (AF)	13

Location	WY to Date (AF)	Target
Santa Ana River	34,124	176,000
Santa Ana River to Mill Creek	267	0
Santa Ana River	11,748	0
Mill Creek	9,324	106,000
Mill Creek	8,618	0
Redlands	0	0
Loma Linda	0	0
East Valley	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.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWDD City Creek	9.0	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	44.5	N	BVMWC Boulliou Box	0.0	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	0.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	0.0
D	Purchased Water	54.9	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	1.4
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	54.9
F	Recharge Project	0.0									
G	Total SWP Inflows	54.9									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	1.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	20.2	A1	SAR PH #3 Penstock (calc)	22.9
H2	Edwards Canal	0.9	D2	Boulliou Box Weir	4.5	E1	Main River Gage (USGS)	2.3	B1	BVMWC Highline	4.5
J2	Tailrace Valve to Parshall Flume	2.7	E2	Boulliou Box to Zanja	0.0			minus	C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	11.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	2.0	D1	BVMWC River PU (USGS)	20.2
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	4.5	Z1	SOD Release Subtotal	20.5	E1	Main River Gage (USGS)	2.3
W1	Redlands Aqueduct / Sandbox	28.0							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	49.9
D1	BVMWC River PU (USGS)	20.2									
I1	Redlands Tunnel	0.5									
A1	SAR PH #3 Penstock (calc)	22.9									
K1	PH#3 Penstock (SCADA)	N/A									

Other		Edison Generation			
J1	Big Bear Lake Release	0.6	w	Observation at SOD	N/A
L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2151.3
X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A

SAR PH#1 Generating	<input checked="" type="checkbox"/>
SAR PH#3 Generating	<input checked="" type="checkbox"/>

Santa Ana River Deliveries

Greenspot Pipeline		Tailrace Pipeline		SBVWCD Parshall Flume To Basins		Deliveries					
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	1.0	J2	Tailrace Valve to Parshall Flume	2.7	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	11.0	W1	Redlands Aqueduct / Sandbox	28.0
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	2.7	H1	SBVWCD Diversion	2.3	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	11.0			minus	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	15.6				B1	BVMWC Highline	4.5
R1	BVMWC Highline to Boulliou	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boulliou	0.0							I2	Tailrace Pipeline	15.6
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	16.0
C1	Greenspot Pipeline	0.0									minus

Irrigation		Parshall Flume (SCADA)			
D2	Boulliou Box Weir	4.5	L2	SBVWCD Parshall Flume	16.0
N	BVMWC Boulliou Box	0.0		Parshall Flume (SCADA)	15.9
		minus			
B2	Gay Overflow	2.8			
C2	Irrigation	1.7			

J2	Tailrace Valve to Parshall Flume	2.7
K2	Northfork Parshall Flume	11.0
I1	Redlands Tunnel	0.5
N2	Total SAR Deliveries	49.9

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	11.3	E3	M/C #1 Penstock Flow	31.1
B3	M/C #3 Penstock	19.8	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	7.0
D3	Total MC Inflows	31.1			

Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
	Yucaipa Regional Park	0.0	P3	Tate Inflow	19.3	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	19.6
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	7.4	T3	Mill Creek #1 Flow (Cooley Hat)	31.1	R3	Boulliou to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	4.4	U3	Total MC Deliveries	31.1	V3	Zanja West Weir to CWC Canal	2.3
			T3	MC #1 Flow (Cooley Hat)	31.1				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	32.3				Y3	Crafton Reservoir Level (21.3)	16.9

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		Previous Day (AF)		WY To Date (AF)		Calendar Year To Date (AF)	
A4	Santa Ana River	E4	33.7	I4	34,124.0	I4	34,053.2
M4	Santa Ana Rvr to Mill Creek	N4	0.0	O4	267.0	O4	175.5
B4	Santa Ana River	F4	88.3	J4	11,748.4	J4	10,733.1
C4	Mill Creek	G4	0.0	K4	9,324.0	K4	8,711.5
D4	Mill Creek	H4	0.0	L4	8,617.6	L4	8,617.6
	Redlands		0.0		0.0		0.0
	Loma Linda		0.0		0.0		0.0
	East Valley		0.0		134.4		0.0

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)	7	Share of Lost Mill Creek Flow	0	Estimate Mill Creek flow (cfs)	7	Estimate Mill Creek Recharge (AF)	13
Flow in the River Above Alabama	7	Flowing Beyond Alabama	0	Total River Flow (cfs)	7	Total River Recharge (AF)	13