

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 5/23/2019

Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	237.4
N2	Total SAR Deliveries	237.4
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	129.0
G2	North Fork Canal Weir	5.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	11.1
Z2	Cuttle Weir to River	92.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	43.0
V	Total SWP Deliveries	43.0
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	51.5
U3	Total MC Deliveries	51.5
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	40.0
T3	MC #1 Flow (Cooley Hat)	24.5

Reservoir Levels	Feet
Observation at SOD	2261.6
Crafton Reservoir Level (21.3)	18.0
Mentone Reservoir Level	21.0

River Recharge	AF
Estimate SAR Recharge (AF)	319
Estimate Mill Creek Recharge (AF)	0
Estimated Total River Recharge (AF)	319

Location	WY to Date (AF)	Target
Santa Ana River	22,986	176,000
Santa Ana River to Mill Creek	208	0
Santa Ana River	8,595	0
Mill Creek	8,042	106,000
Mill Creek	4,888	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	4.0	H	EVWDD City Creek	3.0	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0	N	BVMWC Boullioun Box	4.0	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	36.0
D	Purchased Water	39.0	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	43.0
F	Recharge Project	0.0									
G	Total SWP Inflows	43.0									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	5.3	A2	Newport	0.0	D1	BVMWC River PU (USGS)	16.4	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	221.0	B1	BVMWC Highline	0.0
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)	16.4
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	237.4	E1	Main River Gage (USGS)	221.0
W1	Redlands Aqueduct / Sandbox	10.2							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	2.1							A5	Total SAR Inflows	237.4
	minus										
D1	BVMWC River PU (USGS)	16.4				w	Observation at SOD	2261.6			
I1	Redlands Tunnel	1.2				x	SOD Reservoir Elevation (scada)	2262.2			
A1	SAR PH #3 Penstock (calc)	0.0				y	Debris Pool Elevation	N/A			
K1	PH3# Penstock (SCADA)	N/A									

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

Santa Ana River Deliveries

Greenspot Pipeline		Tailrace Pipeline		SBVWCD Parshall FlumeTo Basins		Deliveries					
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.3	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	10.2
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	129.0	Y1	Redlands Sandbox Spill	2.1
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0		minus		Z2	Cuttle Weir To River	92.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	5.3		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0				L2	SBVWCD Parshall Flume	129.0	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0					Parshall Flume (SCADA)	129.6	I2	Tailrace Pipeline	5.3
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	129.0
C1	Greenspot Pipeline	0.0								minus	
									J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	1.2
									N2	Total SAR Deliveries	237.4

Irrigation		
D2	Boullioun Box Weir	0.0
N	BVMWC Boullioun Box	4.0
	minus	
B2	Gay Overflow	2.5
C2	Irrigation	1.5

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	24.5	E3	M/C #1 Penstock Flow	24.5
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	27.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	51.5			

Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
J3	Wilson Creek Spreading	0.0	P3	Tate Inflow	11.0	C3	SBVWCD Mill Creek Diversion	27.0	H3	Mentone Reservoir Level	21.0
K3	Yucaipa Pipeline	0.0	Q3	East Weir to Mill Creek	13.0	T3	Mill Creek #1 Flow (Cooley Hat)	24.5	R3	Boullioun to BVMWC Highline	0.0
			S3	East Weir to Zanja	0.5	U3	Total MC Deliveries	51.5	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	24.5				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	26.2				Y3	Crafton Reservoir Level (21.3)	18.0

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	27.0
L3	East Weir (MC)	13.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	40.0

SBVWCD Recharge

Location	Type	Previous Day (AF)	WY To Date (AF)	Target	Calendar Year To Date (AF)	Target		
A4	Santa Ana River		I4	22,986.1	176,000	I4	22,915.3	176,000
M4	Santa Ana Rvr to Mill Creek		O4	208.2		O4	116.7	
B4	Santa Ana River		J4	8,594.9		J4	7,579.7	
C4	Mill Creek		K4	8,042.3	106,000	K4	7,429.8	106,000
D4	Mill Creek		L4	4,888.4		L4	4,888.4	
	Redlands			0.0			0.0	
	Loma Linda			0.0			0.0	
	East Valley			134.4			0.0	

SAR Passing Cuttle Weir (cfs)	92	Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	0	Estimate SAR Recharge (AF)	319
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	92	Flowing Beyond Alabama	60	Total River Flow (cfs)	0	Total River Recharge (AF)	319