

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 4/1/2019

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	124.3
N2	Total SAR Deliveries	124.3
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	119.0
G2	North Fork Canal Weir	5.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	0.0
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	40.3
U3	Total MC Deliveries	40.3
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	38.0
T3	MC #1 Flow (Cooley Hat)	20.4

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	71.9
V	Total SWP Deliveries	71.9
J	Northfork Canal	0.0
L	Redlands Aqueduct	15.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2311.0
Crafton Reservoir Level (21.3)	14.7
Mentone Reservoir Level	21.3

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	10,807	176,000
Santa Ana River to Mill Creek	SAR-MC	201	0
Santa Ana River	SWP	7,448	0
Mill Creek	MC	3,949	106,000
Mill Creek	SWP	2,202	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.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	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	20.4	N	BVMWC Boullioun Box	1.0	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	32.5
D	Purchased Water	71.9	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	15.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	71.9
F	Recharge Project	0.0									
G	Total SWP Inflows	71.9									

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)	9.1	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	115.2	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	3.8	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)	9.1
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	124.3	E1	Main River Gage (USGS)	115.2
W1	Redlands Aqueduct / Sandbox	0.8	Other						D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.3	J1	Big Bear Lake Release	0.3	w	Observation at SOD	2311.0	A5	Total SAR Inflows	124.3
minus			L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2310.6	Edison Generation		
D1	BVMWC River PU (USGS)	9.1	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#1 Generating	<input type="checkbox"/>	
I1	Redlands Tunnel	1.1							SAR PH#3 Generating	<input type="checkbox"/>	
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH#3 Penstock (SCADA)	N/A									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.3	J2	Tailrace Valve to Parshall Flume	3.8	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	0.8
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	3.8	H1	SBVWCD Diversion	115.2	Y1	Redlands Sandbox Spill	0.3
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	minus			Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	9.1				B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0	Irrigation			L2	SBVWCD Parshall Flume	119.0	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	D2	Boullioun Box Weir	0.0	Parshall Flume (SCADA)			I2	Tailrace Pipeline	9.1
T1	Tate Pump Station to Zanja	0.0	N	BVMWC Boullioun Box	1.0	106.3			L2	SBVWCD Parshall Flume	119.0
C1	Greenspot Pipeline	0.0	minus						minus		
			B2	Gay Overflow	0.7				J2	Tailrace Valve to Parshall Flume	3.8
			C2	Irrigation	0.3				K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	1.1
									N2	Total SAR Deliveries	124.3

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	20.4	E3	M/C #1 Penstock Flow	20.4
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	19.9	G3	Observation at Garnet	0.0
D3	Total MC Inflows	40.3			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
J3	Wilson Creek Spreading	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	19.9	H3	Mentone Reservoir Level	21.3
K3	Yucaipa Pipeline	0.0	Q3	East Weir to Mill Creek	18.1	T3	Mill Creek #1 Flow (Cooley Hat)	20.4	R3	Boullioun to BVMWC Highline	0.0
			S3	East Weir to Zanja	2.3	U3	Total MC Deliveries	40.3	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	20.4				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	22.2				Y3	Crafton Reservoir Level (21.3)	14.7

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	19.9
L3	East Weir (MC)	18.1
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	38.0

SBVWCD Recharge

Location	Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	E4	708.1	I4	10,806.9	176,000	I4	10,736.0	176,000
M4	Santa Ana Rvr to Mill Creek	N4	0.0	O4	200.5		O4	109.0	
B4	Santa Ana River	F4	123.8	J4	7,448.4		J4	6,438.1	
C4	Mill Creek	G4	231.8	K4	3,949.0	106,000	K4	3,336.5	106,000
D4	Mill Creek	H4	191.1	L4	2,202.0		L4	2,202.0	
	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)	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	