

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 4/3/2019

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

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	74.6
V	Total SWP Deliveries	74.6
J	Northfork Canal	0.0
L	Redlands Aqueduct	15.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	47.0
U3	Total MC Deliveries	47.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	32.0
T3	MC #1 Flow (Cooley Hat)	19.4

Reservoir Levels	Feet
Observation at SOD	2310.9
Crafton Reservoir Level (21.3)	16.8
Mentone Reservoir Level	21.7

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	11,277	176,000
Santa Ana River to Mill Creek	SAR-MC	201	0
Santa Ana River	SWP	7,530	0
Mill Creek	MC	4,078	106,000
Mill Creek	SWP	2,347	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	EVWD 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	20.5	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	35.1
D	Purchased Water	74.6	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	74.6
F	Recharge Project	0.0									
G	Total SWP Inflows	74.6									

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)	9.0	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	115.3	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	3.7	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)	9.0
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)	115.3
W1	Redlands Aqueduct / Sandbox	0.8							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.3							A5	Total SAR Inflows	124.3
	minus										
D1	BVMWC River PU (USGS)	9.0									
I1	Redlands Tunnel	1.1									
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH#3 Penstock (SCADA)	N/A									

Other			Edison Generation		
J1	Big Bear Lake Release	0.3			
L1	SCE SAR AVM (SCADA)	0.0			
X1	SAR-MC Spread (Red. Aqueduct)	0.0			

SOD Release Subtotal			Edison Generation		
W	Observation at SOD	2310.9			
X	SOD Reservoir Elevation (scada)	2310.5			
Y	Debris Pool Elevation	N/A			

SAR PH#1 Generating			SAR PH#3 Generating		

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	3.7	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	3.7	H1	SBVWCD Diversion	115.3	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	9.0				B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0							I2	Tailrace Pipeline	9.0
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	119.0
C1	Greenspot Pipeline	0.0									minus

Irrigation			SBVWCD Parshall Flume			Deliveries		
D2	Boullioun Box Weir	0.0	L2	SBVWCD Parshall Flume	119.0			
N	BVMWC Boullioun Box	1.0			Parshall Flume (SCADA)	119.3		
		minus						
B2	Gay Overflow	0.7						
C2	Irrigation	0.3						

Total SAR Deliveries		
J2	Tailrace Valve to Parshall Flume	3.7
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	19.4	E3	M/C #1 Penstock Flow	19.4
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	27.6	G3	Observation at Garnet	0.0
D3	Total MC Inflows	47.0			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
	Yucaipa Regional Park	0.0	P3	Tate Inflow	15.0	C3	SBVWCD Mill Creek Diversion	27.6	H3	Mentone Reservoir Level	21.7
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	4.4	T3	Mill Creek #1 Flow (Cooley Hat)	19.4	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	47.0	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	19.4				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	20.9				V3	Crafton Reservoir Level (21.3)	16.8

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	27.6
L3	East Weir (MC)	4.4
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	32.0

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	234.0	I4	11,277.0	176,000	I4	11,206.1	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	200.5		O4	109.0	
B4	Santa Ana River	SWP	F4	40.7	J4	7,529.5		J4	6,514.2	
C4	Mill Creek	MC	G4	63.5	K4	4,077.7	106,000	K4	3,465.2	106,000
D4	Mill Creek	SWP	H4	76.7	L4	2,347.2		L4	2,347.2	
	Redlands	SWP		0.0		0.0			0.0	
	Loma Linda	SWP		0.0		0.0			0.0	
	East Valley	SWP		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