

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 5/24/2019

Time: 6:40:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	238.0
N2	Total SAR Deliveries	238.0
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	128.0
G2	North Fork Canal Weir	5.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	16.7
Z2	Cuttle Weir to River	88.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	51.3
U3	Total MC Deliveries	51.3
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	40.0
T3	MC #1 Flow (Cooley Hat)	24.5

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	38.7
V	Total SWP Deliveries	38.7
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2259.8
Crafton Reservoir Level (21.3)	17.2
Mentone Reservoir Level	21.1

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

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	23,242	176,000
Santa Ana River to Mill Creek	SAR-MC	208	0
Santa Ana River	SWP	8,595	0
Mill Creek	MC	8,122	106,000
Mill Creek	SWP	4,940	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	4.0	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	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	31.7
D	Purchased Water	34.7	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	38.7
F	Recharge Project	0.0									
G	Total SWP Inflows	38.7									

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)	22.0	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	216.0	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)	22.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	238.0	E1	Main River Gage (USGS)	216.0
W1	Redlands Aqueduct / Sandbox	18.2							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.1							A5	Total SAR Inflows	238.0
	minus										
D1	BVMWC River PU (USGS)	22.0				w	Observation at SOD	2259.8			
I1	Redlands Tunnel	1.6				x	SOD Reservoir Elevation (scada)	2260.5			
A1	SAR PH #3 Penstock (calc)	0.0				y	Debris Pool Elevation	N/A			
K1	PH#3 Penstock (SCADA)	N/A									

Other		Edison Generation		
J1	Big Bear Lake Release	0.3	SAR PH#1 Generating	☐
L1	SCE SAR AVM (SCADA)	0.0	SAR PH#3 Generating	☐
X1	SAR-MC Spread (Red. Aqueduct)	0.0		

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	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	18.2
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	128.0	Y1	Redlands Sandbox Spill	0.1
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0		minus		Z2	Cuttle Weir To River	88.0
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	128.0	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0					Parshall Flume (SCADA)	127.9	I2	Tailrace Pipeline	5.3
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	128.0
C1	Greenspot Pipeline	0.0								minus	
									J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	1.6
									N2	Total SAR Deliveries	238.0

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	26.8	G3	Observation at Garnet	0.0
D3	Total MC Inflows	51.3			

Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
	Yucaipa Regional Park	0.0	P3	Tate Inflow	11.0	C3	SBVWCD Mill Creek Diversion	26.8	H3	Mentone Reservoir Level	21.1
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	13.2	T3	Mill Creek #1 Flow (Cooley Hat)	24.5	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.3	U3	Total MC Deliveries	51.3	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)	26.8				Y3	Crafton Reservoir Level (21.3)	17.2

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	26.8
L3	East Weir (MC)	13.2
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	SAR	E4	255.9	I4	23,242.0	176,000	I4	23,171.1	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	208.2		O4	116.7	
B4	Santa Ana River	SWP	F4	0.0	J4	8,594.9		J4	7,579.7	
C4	Mill Creek	MC	G4	79.3	K4	8,121.6	106,000	K4	7,509.2	106,000
D4	Mill Creek	SWP	H4	51.9	L4	4,940.3		L4	4,940.3	
	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)	88		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	88		Flowing Beyond Alabama	55	Total River Flow (cfs)	0		Total River Recharge (AF)	319	