

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 5/19/2023
 Time: 6:59:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	238.1
N2	Total SAR Deliveries	238.1
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	1.6
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	79.0
G2	North Fork Canal Weir	7.3
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	19.3
Z2	Cuttle Weir to River	130.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	90.2
U3	Total MC Deliveries	90.2
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	73.0
T3	MC #1 Flow (Cooley Hat)	17.2

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	3.7
V	Total SWP Deliveries	3.7
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	2207.0
Crafton Reservoir Level (21.3)	17.8
Mentone Reservoir Level	17.6

River Recharge	AF
Estimate SAR Recharge (AF)	60
Estimate Mill Creek Recharge (AF)	29
Estimated Total River Recharge (AF)	89

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	32,748	176,000
Santa Ana River to Mill Creek	SAR-MC	1,449	0
Santa Ana River	SWP	234	0
Mill Creek	MC	10,116	106,000
Mill Creek	SWP	1,197	0
Plunge Creek	PLC	2,349	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.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	3.7	H	EVWD City Creek	0.0	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	3.7	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	0.0	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	3.7
F	Recharge Project	0.0									
G	Total SWP Inflows	3.7									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	7.3	A2	Newport	0.0	D1	BVMWC River PU (USGS)	41.5	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	1.6	E1	Main River Gage (USGS)	195.0	B1	BVMWC Highline	1.6
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	14.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	41.5
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	1.6	Z1	SOD Release Subtotal	236.5	E1	Main River Gage (USGS)	195.0
W1	Redlands Aqueduct / Sandbox	21.3							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	238.1
	Minus										
D1	BVMWC River PU (USGS)	41.5				W	Observation at SOD	2207.0			
I1	Redlands Tunnel	2.0				X	SOD Reservoir Elevation (scada)	2205.7			
A1	SAR PH #3 Penstock (calc)	0.0				Y	Debris Pool Elevation	N/A			
K1	PH3# Penstock (SCADA)	0.0									

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 Flume To Basins		Deliveries					
M1	Redlands sand box	0.0	G2	Northfork Canal Weir	7.3	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	14.0	W1	Redlands Aqueduct / Sandbox	21.3
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	65.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	14.0				Z2	Cuttle Weir To River	130.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	22.2		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	1.6
R1	BVMWC Highline to Boullioun	0.0				L2	SBVWCD Parshall Flume	79.0	C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0					Parshall Flume (SCADA)	66.6	I2	Tailrace Pipeline	22.2
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	79.0
	Greenspot Pipeline	0.0							L2	Sedimentation Recharge	0.0

minus		
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	14.0
I1	Redlands Tunnel	2.0
N2	Total SAR Deliveries	238.1

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	17.2
B3	M/C #3 Penstock	17.2	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	73.0	G3	Observation at Garnet	60.0
D3	Total MC Inflows	90.2			

Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
H3	Yucaipa Regional Park	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	73.0	H3	Mentore Reservoir Level	17.6
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	7.2	T3	Mill Creek #1 Flow (Cooley Hat)	17.2	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	10.0	U3	Total MC Deliveries	90.2	V3	Zanja West Weir to CWC Canal	5.4
			T3	MC #1 Flow (Cooley Hat)	17.2				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	18.7				Y3	Crafton Reservoir Level (21.3)	17.8

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	65.8
L3	East Weir (MC)	7.2
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	73.0

SBVWCD Recharge

Location	Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	E4	158.7	I4	32,748.4	176,000	I4	32,260.9	176,000
M4	Santa Ana Rvr to Mill Creek	N4	0.0	O4	1,448.8		O4	1,265.3	
B4	Santa Ana River	F4	0.0	J4	234.3		J4	234.3	
C4	Mill Creek	G4	144.8	K4	10,115.6	106,000	K4	9,490.8	106,000
D4	Mill Creek	H4	0.0	L4	1,196.9		L4	962.6	
	Plunge Creek		4.0		2,348.9			2,227.4	

SAR Passing Cuttle Weir (cfs)	130	Share of Lost SAR Flow	102.63	Estimate SAR flow (cfs)	27	Estimate SAR Recharge (AF)	60
Mill Creek Passing Garnet (cfs)	60	Share of Lost Mill Creek Flow	47	Estimate Mill Creek flow (cfs)	13	Estimate Mill Creek Recharge (AF)	29
Flow in the River Above Alabama	190	Flowing Beyond Alabama	150	Total River Flow (cfs)	40	Total River Recharge (AF)	89