

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 3/31/2023
 Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	321.5
N2	Total SAR Deliveries	321.5
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	1.1
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	175.0
G2	North Fork Canal Weir	2.5
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	12.9
Z2	Cuttle Weir to River	130.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	69.0
U3	Total MC Deliveries	69.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	70.0
T3	MC #1 Flow (Cooley Hat)	14.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	7.3
V	Total SWP Deliveries	7.3
J	Northfork Canal	0.0
L	Redlands Aqueduct	3.2
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2217.9
Crafton Reservoir Level (21.3)	17.6
Mentone Reservoir Level	18.0

River Recharge	AF
Estimate SAR Recharge (AF)	57
Estimate Mill Creek Recharge (AF)	14
Estimated Total River Recharge (AF)	71

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	22,396	176,000
Santa Ana River to Mill Creek	SAR-MC	1,239	0
Santa Ana River	SWP	104	0
Mill Creek	MC	3,537	106,000
Mill Creek	SWP	588	0
Plunge Creek	PLC	1,980	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	1.0	H	EVWD City Creek	3.1	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 Boulliou 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	0.0
D	Purchased Water	3.1	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	3.2	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	7.3
F	Recharge Project	3.2									
G	Total SWP Inflows	7.3									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	2.5	A2	Newport	0.0	D1	BVMWC River PU (USGS)	28.4	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boulliou Box Weir	1.1	E1	Main River Gage (USGS)	292.0	B1	BVMWC Highline	1.1
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boulliou Box to Zanja	0.0		minus		C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	13.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	28.4
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	1.1	Z1	SOD Release Subtotal	320.4	E1	Main River Gage (USGS)	292.0
W1	Redlands Aqueduct / Sandbox	13.9							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	321.5
	Minus										
D1	BVMWC River PU (USGS)	28.4				W	Observation at SOD	2217.9			
I1	Redlands Tunnel	1.0				X	SOD Reservoir Elevation (scada)	NA			
A1	SAR PH #3 Penstock (calc)	0.0				Y	Debris Pool Elevation	N/A			
K1	PH3# Penstock (SCADA)	0.0									

Other		Edison Generation			
J1	Big Bear Lake Release	0.3			
L1	SCE SAR AVM (SCADA)	0.0			
X1	SAR-MC Spread (Red. Aqueduct)	1.0			

SAR PH#1 Generating		SAR PH#3 Generating	
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<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	2.5	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	13.0	W1	Redlands Aqueduct / Sandbox	13.9
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	162.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	13.0		Sedimentation Basin Recharge	0.0	Z2	Cuttle Weir To River	130.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	15.5		L2 SBVWCD Parshall Flume	175.0	B1	BVMWC Highline	1.1
R1	BVMWC Highline to Boulliou	0.0					Parshall Flume (SCADA)	66.6	C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0							I2	Tailrace Pipeline	15.5
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	175.0
C1	Greenspot Pipeline	0.0							L2	Sedimentation Recharge	0.0
										minus	
									J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	13.0
									I1	Redlands Tunnel	1.0
									N2	Total SAR Deliveries	321.5

Irrigation		Other			
D2	Boulliou Box Weir	1.1			
R1	BVMWC Highline to Boulliou	0.0			
N	BVMWC Boulliou Box	1.0			

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	55.0	H3	Mentore Reservoir Level	18.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	14.0	T3	Mill Creek #1 Flow (Cooley Hat)	14.0	R3	Boulliou to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	69.0	V3	Zanja West Weir to CWC Canal	0.0
									W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	17.6

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	14.0
B3	M/C #3 Penstock	14.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	55.0	G3	Observation at Garnet	15.0
D3	Total MC Inflows	69.0			

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	55.0	H3	Mentore Reservoir Level	18.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	14.0	T3	Mill Creek #1 Flow (Cooley Hat)	14.0	R3	Boulliou to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	69.0	V3	Zanja West Weir to CWC Canal	0.0
									W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	17.6

SBVWCD MC Spreading		Cooley Hat (SCADA)			
C3	SBVWCD Mill Creek Diversion	55.0	N3	Cooley Hat (SCADA)	0.0
L3	East Weir (MC)	14.0			
M3	BVHL (SAR)	0.0			
X1	SAR-MC Spread (Red. Aqueduct)	1.0			
O3	SBVWCD MC Spreading	70.0			

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	343.1	I4	22,395.6	176,000	I4	21,908.1	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	6.4	O4	1,238.7		O4	1,055.2	
B4	Santa Ana River	SWP	F4	6.3	J4	103.6		J4	103.6	
C4	Mill Creek	MC	G4	104.2	K4	3,536.6	106,000	K4	2,911.8	106,000
D4	Mill Creek	SWP	H4	12.9	L4	587.7		L4	587.7	
	Plunge Creek	PLC		29.8		1,980.0			1,858.5	

SAR Passing Cuttle Weir (cfs)		Share of Lost SAR Flow		Estimate SAR flow (cfs)		Estimate SAR Recharge (AF)	
	130		116.55		13		57

Mill Creek Passing Garnet (cfs)		Share of Lost Mill Creek Flow		Estimate Mill Creek flow (cfs)		Estimate Mill Creek Recharge (AF)	
	15		13		2		14

Flow in the River Above Alabama		Flowing Beyond Alabama		Total River Flow (cfs)		Total River Recharge (AF)	
	145		130		15		71