

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 5/17/2023
 Time: 6:59:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	236.5
N2	Total SAR Deliveries	236.5
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	1.6
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	80.0
G2	North Fork Canal Weir	7.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	22.6
Z2	Cuttle Weir to River	125.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	90.1
U3	Total MC Deliveries	90.1
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	73.0
T3	MC #1 Flow (Cooley Hat)	17.1

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	2207.5
Crafton Reservoir Level (21.3)	17.5
Mentone Reservoir Level	18.0

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	32,590	176,000
Santa Ana River to Mill Creek	SAR-MC	1,449	0
Santa Ana River	SWP	234	0
Mill Creek	MC	9,971	106,000
Mill Creek	SWP	1,197	0
Plunge Creek	PLC	2,345	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)	43.9	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	1.6	E1	Main River Gage (USGS)	191.0	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)	43.9
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	1.6	Z1	SOD Release Subtotal	234.9	E1	Main River Gage (USGS)	191.0
W1	Redlands Aqueduct / Sandbox	24.6							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	236.5
	Minus										
D1	BVMWC River PU (USGS)	43.9				W	Observation at SOD	2207.5			
I1	Redlands Tunnel	2.0				X	SOD Reservoir Elevation (scada)	2206.5			
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	0.0	K2	Northfork Parshall Flume	14.0	W1	Redlands Aqueduct / Sandbox	24.6
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	66.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	14.0				Z2	Cuttle Weir To River	125.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	21.3				B1	BVMWC Highline	1.6
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0							I2	Tailrace Pipeline	21.3
T1	Tate Pump Station to Zanja	0.0				L2	SBVWCD Parshall Flume	80.0	L2	SBVWCD Parshall Flume	80.0
	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	236.5

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	17.1
B3	M/C #3 Penstock	17.1	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	90.1			

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	Mentone Reservoir Level	18.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	10.4	T3	Mill Creek #1 Flow (Cooley Hat)	17.1	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	6.7	U3	Total MC Deliveries	90.1	V3	Zanja West Weir to CWC Canal	5.4
			T3	MC #1 Flow (Cooley Hat)	17.1				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	18.7				Y3	Crafton Reservoir Level (21.3)	17.5

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	62.6
L3	East Weir (MC)	10.4
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	SAR	E4	158.5	I4	32,589.8	176,000	I4	32,102.2	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	1,448.8		O4	1,265.3	
B4	Santa Ana River	SWP	F4	0.0	J4	234.3		J4	234.3	
C4	Mill Creek	MC	G4	152.7	K4	9,970.8	106,000	K4	9,346.0	106,000
D4	Mill Creek	SWP	H4	0.0	L4	1,196.9		L4	962.6	
	Plunge Creek	PLC		4.0		2,344.9			2,223.5	

SAR Passing Cuttle Weir (cfs)	125	Share of Lost SAR Flow	94.595	Estimate SAR flow (cfs)	30	Estimate SAR Recharge (AF)	60
Mill Creek Passing Garnet (cfs)	60	Share of Lost Mill Creek Flow	45	Estimate Mill Creek flow (cfs)	15	Estimate Mill Creek Recharge (AF)	29
Flow in the River Above Alabama	185	Flowing Beyond Alabama	140	Total River Flow (cfs)	45	Total River Recharge (AF)	89