

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 3/28/2024

Time: 6:40:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	95.3
N2	Total SAR Deliveries	95.3
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	47.3
G2	North Fork Canal Weir	3.1
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	9.7
z2	Cuttle Weir to River	35.2

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	3.3
V	Total SWP Deliveries	3.3
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	53.6
U3	Total MC Deliveries	53.6
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	42.0
T3	MC #1 Flow (Cooley Hat)	11.6

Reservoir Levels	Feet
Observation at SOD	2205.5
Crafton Reservoir Level (21.3)	15.0
Mentone Reservoir Level	16.4

River Recharge	AF
Estimate SAR Recharge (AF)	14
Estimate Mill Creek Recharge (AF)	0
Estimated Total River Recharge (AF)	14

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	16,842	176,000
Santa Ana River to Mill Creek	SAR-MC	332	0
Santa Ana River to Mill Creek	SWP	1,696	0
Santa Ana River	SWP	6,045	0
Mill Creek	MC	4,043	1,068
Mill Creek	SWP	8,424	0
Plunge Creek	PLC	853	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. Water in the Redlands Sandbox spill is coming from the Redlands Aqueduct.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	3.3	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	0.0	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	3.3	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 3.3	
F	Recharge Project	0.0									
G	Total SWP Inflows	3.3									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	3.1	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)	73.3	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	9.2	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	22.0
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	95.3	E1	Main River Gage (USGS)	73.3
W1	Redlands Aqueduct / Sandbox	3.3							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	7.2							A5	Total SAR Inflows	95.3
Minus											
D1	BVMWC River PU (USGS)	22.0									
I1	Redlands Tunnel	0.8									
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH3# Penstock (SCADA)	0.0									

Other			Edison Generation		
J1	Big Bear Lake Release	0.4	W	Observation at SOD	2205.5
L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	2204.3
X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	N/A

SAR PH#1 Generating	0.0
SAR PH#3 Generating	0.0

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	Redlands sand box	0.0	G2	Northfork Canal Weir	3.1	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	9.2	W1	Redlands Aqueduct / Sandbox	3.3
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	38.1	Y1	Redlands Sandbox Spill	7.2
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	9.2				Z2	Cuttle Weir To River	35.2
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	12.3				B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0							I2	Tailrace Pipeline	12.3
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	47.3
C1	Greenspot Pipeline	0.0							L2	Sedimentation Recharge	0.0

Irrigation			Parshall Flume (SCADA)		
D2	Boullioun Box Weir	0.0	L2	SBVWCD Parshall Flume	47.3
R1	BVMWC Highline to Boullioun	0.0		Parshall Flume (SCADA)	45.4
N	BVMWC Boullioun Box	0.0			
minus					
B2	Gay Overflow	0.0			
C2	Irrigation	0.0			

minus					
J2	Tailrace Valve to Parshall Flume	0.0			
K2	Northfork Parshall Flume	9.2			
I1	Redlands Tunnel	0.8			
N2	Total SAR Deliveries	95.3			

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	11.6
B3	M/C #3 Penstock	11.6	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	42.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	53.6			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
H3	Yucaipa Regional Park	0.0	P3	Tate Inflow	9.3	C3	SBVWCD Mill Creek Diversion	42.0	H3	Mentone Reservoir Level	16.4
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	11.6	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	2.3	U3	Total MC Deliveries	53.6	V3	Zanja West Weir to CWC Canal	1.2
			T3	MC #1 Flow (Cooley Hat)	11.6				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	9.5				Y3	Crafton Reservoir Level (21.3)	15.0

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	42.0
L3	East Weir Recharge (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	42.0

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	93.8	I4	16,841.5	176,000	I4	9,231.1	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	332.4		O4	325.9	
	Santa Ana Rvr to Mill Creek	SWP		0.0		1,695.9			286.5	
B4	Santa Ana River	SWP	F4	0.0	J4	6,044.6		J4	2,714.6	
C4	Mill Creek	MC	G4	83.3	K4	4,043.3	1,068	K4	3,834.3	106,000
D4	Mill Creek	SWP	H4	0.0	L4	8,424.2		L4	2,794.5	
	Plunge Creek	PLC		4.0		853.4			831.7	

SAR Passing Cuttle Weir (cfs)	35	Share of Lost SAR Flow	29.999	Estimate SAR flow (cfs)	5	Estimate SAR Recharge (AF)	14
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	35	Flowing Beyond Alabama	30	Total River Flow (cfs)	5	Total River Recharge (AF)	14