

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 2/9/2024
Time: 7:00:00 AM

State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	4.9	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	1.2	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	30.0
D	Purchased Water	47.0	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	36.1
F	Recharge Project	0.0									ERROR
G	Total SWP Inflows	47.0									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	1.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	31.1	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	246.9	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	12.1	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	31.1
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	278.0	E1	Main River Gage (USGS)	246.9
W1	Redlands Aqueduct / Sandbox	0.0	Other						D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	18.6	J1	Big Bear Lake Release	1.0	W	Observation at SOD	2224.9	A5	Total SAR Inflows	278.0
Minus			L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	2223.6	Edison Generation		
D1	BVMWC River PU (USGS)	31.1	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	N/A	SAR PH#1 Generating		☐
I1	Redlands Tunnel	0.6							SAR PH#3 Generating		☐
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH#3 Penstock (SCADA)	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	1.0	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	12.1	W1	Redlands Aqueduct / Sandbox	0.0
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	72.9	Y1	Redlands Sandbox Spill	18.6
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	12.1	minus			Z2	Cuttle Weir To River	174.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	13.1	L2	SBVWCD Parshall Flume	85.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0	Irrigation			Parshall Flume (SCADA)			C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0	D2	Boullioun Box Weir	0.0				I2	Tailrace Pipeline	13.1
T1	Tate Pump Station to Zanja	0.0	R1	BVMWC Highline to Boullioun	0.0				L2	SBVWCD Parshall Flume	85.0
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	1.2				L2	Sedimentation Recharge	0.0
			minus						minus		
			B2	Gay Overflow	0.8				J2	Tailrace Valve to Parshall Flume	0.0
			C2	Irrigation	0.4				K2	Northfork Parshall Flume	12.1
									I1	Redlands Tunnel	0.6
									N2	Total SAR Deliveries	278.0

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	0.0
B3	M/C #3 Penstock	7.3	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	32.7	G3	Observation at Garnet	0.1
D3	Total MC Inflows	40.0			

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	32.7	H3	Mentone Reservoir Level	16.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	7.3	T3	Mill Creek #1 Flow (Cooley Hat)	7.3	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	40.0	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	7.3				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	0.0				Y3	Crafton Reservoir Level (21.3)	15.6
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	32.7									
L3	East Weir Recharge (MC)	7.3									
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	185.5	I4	10,632.5	176,000	I4	3,022.2	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	47.2		O4	40.7		
	Santa Ana Rvr to Mill Creek	SWP		0.4		1,695.9			286.5		
B4	Santa Ana River	SWP	F4	3.3	J4	6,044.6		J4	2,714.6		
C4	Mill Creek	MC	G4	3.3	K4	117.9	106,000	K4	908.9	106,000	
D4	Mill Creek	SWP	H4	49.6	L4	7,607.6		L4	1,977.9		
	Plunge Creek	PLC		29.8		385.6			364.0		
SAR Passing Cuttle Weir (cfs)		174	Share of Lost SAR Flow		159.91	Estimate SAR flow (cfs)		14	Estimate SAR Recharge (AF)		67
Mill Creek Passing Garnet (cfs)		0	Share of Lost Mill Creek Flow		0	Estimate Mill Creek flow (cfs)		0	Estimate Mill Creek Recharge (AF)		15
Flow in the River Above Alabama		174	Flowing Beyond Alabama		160	Total River Flow (cfs)		14	Total River Recharge (AF)		82

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 2/9/2024
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Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	278.0
N2	Total SAR Deliveries	278.0
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	85.0
G2	North Fork Canal Weir	1.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	18.0
Z2	Cuttle Weir to River	174.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	40.0
U3	Total MC Deliveries	40.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	40.0
T3	MC #1 Flow (Cooley Hat)	7.3

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	47.0
V	Total SWP Deliveries	36.1
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	2224.9
Crafton Reservoir Level (21.3)	15.6
Mentone Reservoir Level	16.5

River Recharge	AF
Estimate SAR Recharge (AF)	67
Estimate Mill Creek Recharge (AF)	15
Estimated Total River Recharge (AF)	82

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	10,633	176,000
Santa Ana River to Mill Creek	SAR-MC	47	0
Santa Ana River to Mill Creek	SWP	1,696	0
Santa Ana River	SWP	6,045	0
Mill Creek	MC	118	106,000
Mill Creek	SWP	7,608	0
Plunge Creek	PLC	386	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.