

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 4/29/2024
Time: 6:40:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	213.7
N2	Total SAR Deliveries	213.7
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	52.1
G2	North Fork Canal Weir	3.1
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	16.5
Z2	Cuttle Weir to River	117.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	36.7
V	Total SWP Deliveries	36.7
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	0.0
U3	Total MC Deliveries	0.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	0.0

Reservoir Levels	Feet
Observation at SOD	2192.0
Crafton Reservoir Level (21.3)	16.6
Mentone Reservoir Level	18.5

River Recharge	AF
Estimate SAR Recharge (AF)	103
Estimate Mill Creek Recharge (AF)	64
Estimated Total River Recharge (AF)	167

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	21,902	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	6,234	1,068
Mill Creek	SWP	8,928	0
Plunge Creek	PLC	1,072	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	3.2	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	29.8
D	Purchased Water	6.9	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 36.7	
F	Recharge Project	29.8									
G	Total SWP Inflows	36.7									

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)	28.7	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	185.0	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	9.1	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	28.7
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	213.7	E1	Main River Gage (USGS)	185.0
W1	Redlands Aqueduct / Sandbox	13.9							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	3.6							A5	Total SAR Inflows	213.7
Minus											
D1	BVMWC River PU (USGS)	28.7									
I1	Redlands Tunnel	1.0									
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	2192.0
L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	2197.8
X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	N/A

SAR PH#1 Generating	☐
SAR PH#3 Generating	☐

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	9.1	W1	Redlands Aqueduct / Sandbox	13.9
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	68.0	Y1	Redlands Sandbox Spill	3.6
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	9.1				Z2	Cuttle Weir To River	117.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	12.2				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	12.2
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	52.1
C1	Greenspot Pipeline	0.0							L2	Sedimentation Recharge	25.0

Irrigation			Parshall Flume (SCADA)		
D2	Boullioun Box Weir	0.0	L2	SBVWCD Parshall Flume	52.1
R1	BVMWC Highline to Boullioun	0.0		Parshall Flume (SCADA)	53.1
N	BVMWC Boullioun Box	3.7			
minus					
B2	Gay Overflow	2.5			
C2	Irrigation	1.2			

minus					
J2	Tailrace Valve to Parshall Flume	0.0			
K2	Northfork Parshall Flume	9.1			
I1	Redlands Tunnel	1.0			
N2	Total SAR Deliveries	213.7			

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	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	60.0
D3	Total MC Inflows	0.0			

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	0.0	H3	Mentone Reservoir Level	18.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	0.0	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	0.0	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	0.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	11.5				Y3	Crafton Reservoir Level (21.3)	16.6

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

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	310.0	I4	21,901.9	176,000	I4	14,291.5	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	0.0	K4	6,234.2	1,068	K4	6,025.2	106,000
D4	Mill Creek	SWP	H4	179.1	L4	8,927.7		L4	3,298.0	
	Plunge Creek	PLC		11.9		1,071.7			1,050.1	

SAR Passing Cuttle Weir (cfs)	117	Share of Lost SAR Flow	105.76	Estimate SAR flow (cfs)	11	Estimate SAR Recharge (AF)	103
Mill Creek Passing Garnet (cfs)	60	Share of Lost Mill Creek Flow	54	Estimate Mill Creek flow (cfs)	6	Estimate Mill Creek Recharge (AF)	64
Flow in the River Above Alabama	177	Flowing Beyond Alabama	160	Total River Flow (cfs)	17	Total River Recharge (AF)	167