

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 9/13/2023
 Time: 5:45:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	121.5
N2	Total SAR Deliveries	121.5
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	45.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	1.5
Z2	Cuttle Weir to River	75.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	12.8
U3	Total MC Deliveries	12.8
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	12.8

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	89.7
V	Total SWP Deliveries	89.7
J	Northfork Canal	0.0
L	Redlands Aqueduct	42.9
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2182.2
Crafton Reservoir Level (21.3)	15.5
Mentone Reservoir Level	18.2

River Recharge	AF
Estimate SAR Recharge (AF)	88
Estimate Mill Creek Recharge (AF)	21
Estimated Total River Recharge (AF)	109

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	44,798	176,000
Santa Ana River to Mill Creek	SAR-MC	1,622	0
Santa Ana River to Mill Creek	SWP	594	0
Santa Ana River	SWP	396	0
Mill Creek	MC	16,631	106,000
Mill Creek	SWP	2,642	0
Plunge Creek	PLC	2,716	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	0.0	H	EVWD City Creek	8.7	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	24.7	N	BVMWC Boullioun Box	2.9	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	10.5
D	Purchased Water	45.5	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	42.9	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	89.7
F	Recharge Project	44.2									
G	Total SWP Inflows	89.7									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	0.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	9.5	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	112.0	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	8.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	9.5
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	121.5	E1	Main River Gage (USGS)	112.0
W1	Redlands Aqueduct / Sandbox	0.0							D1a	BV Pick-Up gated	-
Y1	Redlands Sandbox Spill	2.2							A5	Total SAR Inflows	121.5
Minus			Other			w	Observation at SOD	2182.2	Edison Generation		
D1	BVMWC River PU (USGS)	9.5	J1	Big Bear Lake Release	1.2	x	SOD Reservoir Elevation (scada)	2181.2	SAR PH#1 Generating		
I1	Redlands Tunnel	0.7	L1	SCE SAR AVM (SCADA)	0.0	y	Debris Pool Elevation	N/A	SAR PH#3 Generating		
A1	SAR PH #3 Penstock (calc)	0.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0						
K1	PH3# 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	0.0	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	8.0	W1	Redlands Aqueduct / Sandbox	0.0
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	37.0	Y1	Redlands Sandbox Spill	2.2
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	8.0	minus		Z2	Cuttle Weir To River	75.0	
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	8.0	L2	Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0	Irrigation					I2	Tailrace Pipeline	8.0	
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	0.0				L2	SBVWCD Parshall Flume	45.0
C1	Greenspot Pipeline	0.0	R1	BVMWC Highline to Boullioun	0.0				L2	Sedimentation Recharge	0.0
			N	BVMWC Boullioun Box	2.9				minus		
			minus					J2	Tailrace Valve to Parshall Flume	0.0	
			B2	Gay Overflow	2.1				K2	Northfork Parshall Flume	8.0
			Irrigation		0.8				I1	Redlands Tunnel	0.7
									N2	Total SAR Deliveries	121.5

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	12.8
B3	M/C #3 Penstock	12.8	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	40.0
D3	Total MC Inflows	12.8			

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	18.2
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	6.9	T3	Mill Creek #1 Flow (Cooley Hat)	12.8	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	5.9	U3	Total MC Deliveries	12.8	V3	Zanja West Weir to CWC Canal	2.1
			T3	MC #1 Flow (Cooley Hat)	12.8				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	0.2				Y3	Crafton Reservoir Level (21.3)	15.5
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	0.0									
L3	East Weir (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	75.3	I4	44,798.4	176,000	I4	44,310.9	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	1,621.9		O4	1,438.3		
	Santa Ana Rvr to Mill Creek	SWP		17.9		593.9			593.9		
B4	Santa Ana River	SWP	F4	49.0	J4	396.4		J4	396.4		
C4	Mill Creek	MC	G4	0.0	K4	16,630.8	106,000	K4	16,006.0	106,000	
D4	Mill Creek	SWP	H4	21.0	L4	2,642.2		L4	2,642.2		
	Plunge Creek	PLC		1.0		2,716.3			2,594.9		
	SAR Passing Cuttle Weir (cfs)	75		Share of Lost SAR Flow	39.13		Estimate SAR flow (cfs)	36		Estimate SAR Recharge (AF)	88
	Mill Creek Passing Garnet (cfs)	40		Share of Lost Mill Creek Flow	21		Estimate Mill Creek flow (cfs)	19		Estimate Mill Creek Recharge (AF)	21
	Flow in the River Above Alabama	115		Flowing Beyond Alabama	60		Total River Flow (cfs)	55		Total River Recharge (AF)	109

