

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 7/28/2023
Time: 6:50:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	80.9
N2	Total SAR Deliveries	80.9
A1	SAR PH#3 Penstock (calc)	33.9
B1	BVMWC Highline	7.0
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)	28.9
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	6.7
V	Total SWP Deliveries	6.7
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	40.1
U3	Total MC Deliveries	40.1
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	31.6
T3	MC #1 Flow (Cooley Hat)	22.1

Reservoir Levels	Feet
Observation at SOD	2161.8
Crafton Reservoir Level (21.3)	16.5
Mentone Reservoir Level	18.1

River Recharge	AF
Estimate SAR Recharge (AF)	20
Estimate Mill Creek Recharge (AF)	0
Estimated Total River Recharge (AF)	0

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	42,642	176,000
Santa Ana River to Mill Creek	SAR-MC	1,581	0
Santa Ana River to Mill Creek	SWP	263	0
Santa Ana River	SWP	234	0
Mill Creek	MC	16,297	106,000
Mill Creek	SWP	1,332	0
Plunge Creek	PLC	2,613	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. * SAR Recharge total was due to SAR #3 coming online @0900 30CFS and dam release adjustments.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	6.7	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0	N	BVMWC Boullion 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	6.7	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 6.7	
F	Recharge Project	0.0									
G	Total SWP Inflows	6.7									

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)	7.0	A1	SAR PH #3 Penstock (calc)	33.9
H2	Edwards Canal	0.0	D2	Boullion Box Weir	7.0	E1	Main River Gage (USGS)	33.0	B1	BVMWC Highline	7.0
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boullion Box to Zanja	0.0	minus			C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	12.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	7.0
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	7.0	Z1	SOD Release Subtotal	40.0	E1	Main River Gage (USGS)	33.0
W1	Redlands Aqueduct / Sandbox	29.8							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.0	Other						A5	Total SAR Inflows	80.9
Minus			J1	Big Bear Lake Release	0.6	W	Observation at SOD	2161.8	Edison Generation		
D1	BVMWC River PU (USGS)	7.0	L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	2161.5	SAR PH#1 Generating		
I1	Redlands Tunnel	0.9	X1	SAR-MC Spread (Red. Aqueduct)	5.2	Y	Debris Pool Elevation	N/A	SAR PH#3 Generating		
A1	SAR PH #3 Penstock (calc)	33.9									
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	12.0	W1	Redlands Aqueduct / Sandbox	29.8
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	33.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	12.0				Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	12.0	Sedimentation Basin Recharge			B1	BVMWC Highline	7.0
R1	BVMWC Highline to Boullion	0.0	Irrigation			L2	SBVWCD Parshall Flume	45.0	C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0	D2	Boullion Box Weir	7.0	Parshall Flume (SCADA)			I2	Tailrace Pipeline	12.0
T1	Tate Pump Station to Zanja	0.0	R1	BVMWC Highline to Boullion	0.0				L2	SBVWCD Parshall Flume	45.0
C1	Greenspot Pipeline	0.0	N	BVMWC Boullion Box	0.0				L2	Sedimentation Recharge	0.0
			minus						minus		
			B2	Gay Overflow	2.3				J2	Tailrace Valve to Parshall Flume	0.0
			C2	Irrigation	4.7				K2	Northfork Parshall Flume	12.0
									I1	Redlands Tunnel	0.9
									N2	Total SAR Deliveries	80.9

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	7.6	E3	M/C #1 Penstock Flow	22.1
B3	M/C #3 Penstock	14.5	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	18.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	40.1			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
H3	Yucaipa Regional Park	0.0	P3	Tate Inflow	12.5	C3	SBVWCD Mill Creek Diversion	18.0	H3	Mentone Reservoir Level	18.1
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	8.4	T3	Mill Creek #1 Flow (Cooley Hat)	22.1	R3	Boullion to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.2	U3	Total MC Deliveries	40.1	V3	Zanja West Weir to CWC Canal	0.1
			T3	MC #1 Flow (Cooley Hat)	22.1				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	25.2				Y3	Crafton Reservoir Level (21.3)	16.5
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	18.0									
L3	East Weir (MC)	8.4									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	5.2									
O3	SBVWCD MC Spreading	31.6									

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	83.3	I4	42,641.7	176,000	I4	42,154.2	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	7.0	O4	1,580.6		O4	1,397.0	
	Santa Ana Rvr to Mill Creek	SWP		0.0		263.4			263.4	
B4	Santa Ana River	SWP	F4	0.0	J4	234.3		J4	234.3	
C4	Mill Creek	MC	G4	43.6	K4	16,297.2	106,000	K4	15,672.4	106,000
D4	Mill Creek	SWP	H4	0.0	L4	1,331.9		L4	1,331.9	
	Plunge Creek	PLC		0.0		2,612.5			2,191.0	
SAR Passing Cuttle Weir (cfs)			Share of Lost SAR Flow		Estimate SAR flow (cfs)		0	Estimate SAR Recharge (AF)		
Mill Creek Passing Garnet (cfs)			Share of Lost Mill Creek Flow		Estimate Mill Creek flow (cfs)		0	Estimate Mill Creek Recharge (AF)		
Flow in the River Above Alabama			Flowing Beyond Alabama		Total River Flow (cfs)		0	Total River Recharge (AF)		