

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/18/2023
 Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	43.8
N2	Total SAR Deliveries	43.8
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	26.5
G2	North Fork Canal Weir	3.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	13.4
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	24.0
U3	Total MC Deliveries	24.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	24.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	30.0
V	Total SWP Deliveries	30.0
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	2201.4
Crafton Reservoir Level (21.3)	16.0
Mentone Reservoir Level	17.5

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	24
Estimated Total River Recharge (AF)	24

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	6,831	176,000
Santa Ana River to Mill Creek	SAR-MC	7	0
Santa Ana River to Mill Creek	SWP	1,409	0
Santa Ana River	SWP	2,689	0
Mill Creek	MC	16,631	106,000
Mill Creek	SWP	4,761	0
Plunge Creek	PLC	18	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 Mill Creek at the east weir is being turned out to river due to Mill Creek diversion project.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	0.0	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	10.0	N	BVMWC Boullioun Box	5.0	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	15.0
D	Purchased Water	5.0	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	30.0
F	Recharge Project	25.0									
G	Total SWP Inflows	30.0									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	3.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	23.8	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	20.0	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	6.5	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	23.8
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	43.8	E1	Main River Gage (USGS)	20.0
W1	Redlands Aqueduct / Sandbox	13.9	Other					D1a	BV Pick-Up gated	-	
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	0.9	w	Observation at SOD	2201.4	A5	Total SAR Inflows	43.8
Minus			L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2200.4	Edison Generation		
D1	BVMWC River PU (USGS)	23.8	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#1 Generating		
I1	Redlands Tunnel	0.5							SAR PH#3 Generating		
A1	SAR PH #3 Penstock (calc)	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	3.0	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	6.5	W1	Redlands Aqueduct / Sandbox	13.9
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	20.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	6.5	minus		Z2	Cuttle Weir To River	0.0	
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	10.4	L2	SBVWCD Parshall Flume	26.5	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0	Irrigation				C1	Greenspot Pipeline	0.0		
S1	Tres Lagos	0.0	D2	Boullioun Box Weir	0.0		Parshall Flume (SCADA)	49.2	I2	Tailrace Pipeline	10.4
T1	Tate Pump Station to Zanja	0.0	R1	BVMWC Highline to Boullioun	0.0			L2	SBVWCD Parshall Flume	26.5	
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	5.0			L2	Sedimentation Recharge	0.0	
			minus								
			B2	Gay Overflow	3.0			J2	Tailrace Valve to Parshall Flume	0.0	
			C2	Irrigation	2.0			K2	Northfork Parshall Flume	6.5	
								I1	Redlands Tunnel	0.5	
								N2	Total SAR Deliveries	43.8	

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	10.0	E3	M/C #1 Penstock Flow	24.0
B3	M/C #3 Penstock	14.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	4.0
D3	Total MC Inflows	24.0			

Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
H3	Yucaipa Regional Park	0.0	P3	Tate Inflow	13.5	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	17.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	24.0	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	10.5	U3	Total MC Deliveries	24.0	V3	Zanja West Weir to CWC Canal	4.4
			T3	MC #1 Flow (Cooley Hat)	24.0			W3	Mill Creek PH #2,3 Afterbay Spill	0.0	
			N3	Cooley Hat (SCADA)	19.7			Y3	Crafton Reservoir Level (21.3)	16.0	
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	166.6	I4	6,830.9	176,000	I4	53,860.0	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	6.5		O4	1,444.3	
	Santa Ana Rvr to Mill Creek	SWP	F4	4.2	J4	1,409.4		J4	2,278.2	
B4	Santa Ana River	SWP	G4	162.4	K4	2,689.2		K4	4,301.7	
C4	Mill Creek	MC	H4	0.0	L4	16,630.8	106,000	L4	16,006.0	106,000
D4	Mill Creek	SWP		158.8		4,760.5			7,424.4	
	Plunge Creek	PLC		0.0		17.5			2,620.1	
SAR Passing Cuttle Weir (cfs)	0		Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	0		Estimate SAR Recharge (AF)	0	
Mill Creek Passing Garnet (cfs)	4		Share of Lost Mill Creek Flow	0	Estimate Mill Creek flow (cfs)	4		Estimate Mill Creek Recharge (AF)	24	
Flow in the River Above Alabama	4		Flowing Beyond Alabama	0	Total River Flow (cfs)	4		Total River Recharge (AF)	24	

Santa Ana River - Mill Creek Cooperative Water Project Mill Creek Stations



