

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 5/4/2023
 Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	308.3
N2	Total SAR Deliveries	308.3
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	88.0
G2	North Fork Canal Weir	2.5
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	11.8
Z2	Cuttle Weir to River	206.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	77.5
U3	Total MC Deliveries	77.5
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	70.0
T3	MC #1 Flow (Cooley Hat)	17.8

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	9.6
V	Total SWP Deliveries	9.6
J	Northfork Canal	3.1
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2221.6
Crafton Reservoir Level (21.3)	14.9
Mentone Reservoir Level	17.5

River Recharge	AF
Estimate SAR Recharge (AF)	39
Estimate Mill Creek Recharge (AF)	15
Estimated Total River Recharge (AF)	54

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	30,154	176,000
Santa Ana River to Mill Creek	SAR-MC	1,449	0
Santa Ana River	SWP	234	0
Mill Creek	MC	8,206	106,000
Mill Creek	SWP	1,197	0
Plunge Creek	PLC	2,280	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. Note that the Redlands sandbox is spilling 24.2 into SAR due to untreatable water at Hinkley

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	2.2	H	EVWD City Creek	3.0	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0	N	BVMWC Boullioun Box	2.2	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	3.1	P	SARC West	0.0	U	M/C spreading at Zanja Tate	0.0
D	Purchased Water	7.4	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	1.3
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	9.6
F	Recharge Project	0.0									
G	Total SWP Inflows	9.6									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows			
G2	Northfork Canal Weir	2.5	A2	Newport	0.0	D1	BVMWC River PU (USGS)	28.3	A1	SAR PH #3 Penstock (calc)	0.0	
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	280.0	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	14.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	28.3	
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	308.3	E1	Main River Gage (USGS)	280.0	
W1	Redlands Aqueduct / Sandbox	13.8							D1a	BV Pick-Up gated	<input type="checkbox"/>	
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	308.3	
minus			Other			w			Edison Generation			
D1	BVMWC River PU (USGS)	28.3	J1	Big Bear Lake Release	0.3	w	Observation at SOD	2221.6	SAR PH#1 Generating			<input type="checkbox"/>
I1	Redlands Tunnel	2.0	L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2220.6	SAR PH#3 Generating			<input type="checkbox"/>
A1	SAR PH #3 Penstock (calc)	0.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A				
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	2.5	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	14.0	W1	Redlands Aqueduct / Sandbox	13.8
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	74.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	14.0	Sedimentation Basin Recharge			Z2	Cuttle Weir To River	206.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	16.5	L2	SBVWCD Parshall Flume	88.0	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	minus			I2	Tailrace Pipeline	16.5
T1	Tate Pump Station to Zanja	0.0	R1	BVMWC Highline to Boullioun	0.0	J2	Tailrace Valve to Parshall Flume	0.0	L2	SBVWCD Parshall Flume	88.0
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	2.2	K2	Northfork Parshall Flume	14.0	L2	Sedimentation Recharge	0.0
			minus			I1	Redlands Tunnel	2.0	N2	Total SAR Deliveries	308.3
			B2	Gay Overflow	1.3						
			C2	Irrigation	0.9						

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	17.8
B3	M/C #3 Penstock	17.8	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	59.7	G3	Observation at Garnet	80.0
D3	Total MC Inflows	77.5			

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	59.7	H3	Mentone Reservoir Level	17.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	10.3	T3	Mill Creek #1 Flow (Cooley Hat)	17.8	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	7.5	U3	Total MC Deliveries	77.5	V3	Zanja West Weir to CWC Canal	0.5
			T3	MC #1 Flow (Cooley Hat)	17.8				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	14.2				Y3	Crafton Reservoir Level (21.3)	14.9

SBVWCD MC Spreading

C3	SBVWCD Mill Creek Diversion	59.7
L3	East Weir (MC)	10.3
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	70.0

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target	
A4	Santa Ana River	SAR	E4	182.5	I4	30,153.6	176,000	I4	29,666.1	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	1,448.8		O4	1,265.3		
B4	Santa Ana River	SWP	F4	0.0	J4	234.3		J4	234.3		
C4	Mill Creek	MC	G4	138.8	K4	8,206.2	106,000	K4	7,581.4	106,000	
D4	Mill Creek	SWP	H4	0.0	L4	1,196.9		L4	962.6		
	Plunge Creek	PLC		4.0		2,279.5			2,158.0		
SAR Passing Cuttle Weir (cfs)		206	Share of Lost SAR Flow		187.27	Estimate SAR flow (cfs)		19	Estimate SAR Recharge (AF)		39
Mill Creek Passing Garnet (cfs)		80	Share of Lost Mill Creek Flow		73	Estimate Mill Creek flow (cfs)		7	Estimate Mill Creek Recharge (AF)		15
Flow in the River Above Alabama		286	Flowing Beyond Alabama		260	Total River Flow (cfs)		26	Total River Recharge (AF)		54