

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 11/13/2023
 Time: 6:35:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	65.3
N2	Total SAR Deliveries	65.3
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	50.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	15.3
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	28.0
U3	Total MC Deliveries	28.0
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	28.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	99.5
V	Total SWP Deliveries	99.5
J	Northfork Canal	5.0
L	Redlands Aqueduct	12.5
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2185.4
Crafton Reservoir Level (21.3)	14.1
Mentone Reservoir Level	18.4

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	55
Estimated Total River Recharge (AF)	55

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	4,376	176,000
Santa Ana River to Mill Creek	SAR-MC	6	0
Santa Ana River to Mill Creek	SWP	993	0
Santa Ana River	SWP	461	0
Mill Creek	MC	0	106,000
Mill Creek	SWP	3,086	0
Plunge Creek	PLC	6	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	37.0	N	BVMWC Boullioun Box	5.0	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	5.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	40.0
D	Purchased Water	10.0	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	12.5	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	99.5
F	Recharge Project	89.5									
G	Total SWP Inflows	99.5									

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)	23.2	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	42.1	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	7.9	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	23.2
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	65.3	E1	Main River Gage (USGS)	42.1
W1	Redlands Aqueduct / Sandbox	16.1	Other					D1a	BV Pick-Up gated	<input type="checkbox"/>	
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	1.0	w	Observation at SOD	2185.4	A5	Total SAR Inflows	65.3
Minus			L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2185.0	Edison Generation		
D1	BVMWC River PU (USGS)	23.2	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#1 Generating	<input type="checkbox"/>	
I1	Redlands Tunnel	0.8							SAR PH#3 Generating	<input type="checkbox"/>	
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH#3 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	7.9	W1	Redlands Aqueduct / Sandbox	16.1
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	42.1	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	7.9	minus		Z2	Cuttle Weir To River	0.0	
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	7.9	L2	SBVWCD Parshall Flume	50.0	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)	31.9	I2	Tailrace Pipeline	7.9
T1	Tate Pump Station to Zanja	0.0	R1	BVMWC Highline to Boullioun	0.0				L2	SBVWCD Parshall Flume	50.0
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	5.0				L2	Sedimentation Recharge	0.0
			minus					minus			
			B2	Gay Overflow	3.0				J2	Tailrace Valve to Parshall Flume	0.0
			C2	Irrigation	2.0				K2	Northfork Parshall Flume	7.9
									I1	Redlands Tunnel	0.8
									N2	Total SAR Deliveries	65.3

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	13.0	E3	M/C #1 Penstock Flow	28.0
B3	M/C #3 Penstock	15.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	15.0
D3	Total MC Inflows	28.0			

Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
H3	Yucaipa Regional Park	0.0	P3	Tate Inflow	14.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	18.4
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	14.0	T3	Mill Creek #1 Flow (Cooley Hat)	28.0	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	28.0	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	28.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	26.3				Y3	Crafton Reservoir Level (21.3)	14.1
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	365.0	I4	4,376.2	176,000	I4	51,405.3	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	6.0		O4	1,444.3	
	Santa Ana Rvr to Mill Creek	SWP		94.4		992.8			1,861.6	
B4	Santa Ana River	SWP	F4	72.0	J4	461.3		J4	2,073.8	
C4	Mill Creek	MC	G4	0.0	K4	0.0	106,000	K4	16,006.0	106,000
D4	Mill Creek	SWP	H4	316.9	L4	3,086.0		L4	5,749.9	
	Plunge Creek	PLC		0.0		5.6			2,608.2	
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)	15		Share of Lost Mill Creek Flow	4	Estimate Mill Creek flow (cfs)	11		Estimate Mill Creek Recharge (AF)	55	
Flow in the River Above Alabama	15		Flowing Beyond Alabama	4	Total River Flow (cfs)	11		Total River Recharge (AF)	55	