

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 8/30/2023
 Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	490.0
N2	Total SAR Deliveries	490.0
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	7.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	4.4
z2	Cuttle Weir to River	478.6

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

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	62.7
V	Total SWP Deliveries	62.7
J	Northfork Canal	0.0
L	Redlands Aqueduct	9.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	1.0

Reservoir Levels	Feet
Observation at SOD	2189.0
Crafton Reservoir Level (21.3)	16.2
Mentone Reservoir Level	16.3

River Recharge	AF
Estimate SAR Recharge (AF)	83
Estimate Mill Creek Recharge (AF)	12
Estimated Total River Recharge (AF)	95

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	44,450	176,000
Santa Ana River to Mill Creek	SAR-MC	1,622	0
Santa Ana River to Mill Creek	SWP	346	0
Santa Ana River	SWP	234	0
Mill Creek	MC	16,631	106,000
Mill Creek	SWP	1,936	0
Plunge Creek	PLC	2,678	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. *Mill Creek off line due to construction starting 8/8/2023 .

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	7.0	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	4.7	T	Newport for BVMWC	1.0
C	Exchange Water	0.0	J	Northfork Canal	0.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	40.0
D	Purchased Water	13.7	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	1.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	9.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	62.7
F	Recharge Project	49.0									
G	Total SWP Inflows	62.7									

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)	4.4	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	485.6	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	0.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	4.4
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	490.0	E1	Main River Gage (USGS)	485.6
W1	Redlands Aqueduct / Sandbox	0.0	Other						D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	5.2	J1	Big Bear Lake Release	0.6	w	Observation at SOD	2189.0	A5	Total SAR Inflows	490.0
Minus			L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2788.9	Edison Generation		
D1	BVMWC River PU (USGS)	4.4	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#1 Generating		☐
I1	Redlands Tunnel	0.8							SAR PH#3 Generating		☐
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	0.0	W1	Redlands Aqueduct / Sandbox	0.0	
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	7.0	Y1	Redlands Sandbox Spill	5.2	
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	minus			Z2	Cuttle Weir To River	478.6	
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	0.0	L2	Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.0	
R1	BVMWC Highline to Boullioun	0.0	Irrigation			Parshall Flume (SCADA)			NA	C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0	D2	Boullioun Box Weir	0.0				L2	SBVWCD Parshall Flume	7.0	
T1	Tate Pump Station to Zanja	0.0	R1	BVMWC Highline to Boullioun	0.0				L2	Sedimentation Recharge	0.0	
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	4.7				minus			
			minus						J2	Tailrace Valve to Parshall Flume	0.0	
			B2	Gay Overflow	2.1				K2	Northfork Parshall Flume	0.0	
			Irrigation						I1	Redlands Tunnel	0.8	
			C2		2.6				N2	Total SAR Deliveries	490.0	

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	0.0
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	55.0
D3	Total MC Inflows	0.0			

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	16.3
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	0.0	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	0.0	V3	Zanja West Weir to CWC Canal	0.0
SBVWCD MC Spreading			T3	MC #1 Flow (Cooley Hat)	0.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
C3	SBVWCD Mill Creek Diversion	0.0	N3	Cooley Hat (SCADA)	0.4				Y3	Crafton Reservoir Level (21.3)	16.2
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	13.9	I4	44,449.8	176,000	I4	43,962.3	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		346.3			346.3		
B4	Santa Ana River	SWP	F4	0.0	J4	234.3		J4	234.3		
C4	Mill Creek	MC	G4	0.0	K4	16,630.8	106,000	K4	16,006.0	106,000	
D4	Mill Creek	SWP	H4	77.9	L4	1,936.0		L4	1,936.0		
	Plunge Creek	PLC		2.0		2,677.7			2,556.2		
SAR Passing Cuttle Weir (cfs)		479	Share of Lost SAR Flow		426.04	Estimate SAR flow (cfs)		53	Estimate SAR Recharge (AF)		83
Mill Creek Passing Garnet (cfs)		55	Share of Lost Mill Creek Flow		49	Estimate Mill Creek flow (cfs)		6	Estimate Mill Creek Recharge (AF)		12
Flow in the River Above Alabama		534	Flowing Beyond Alabama		475	Total River Flow (cfs)		59	Total River Recharge (AF)		95