Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 3/28/2023

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	**Total SAR Inflows**	327.9
N2	**Total SAR Deliveries**	327.9
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	1.8
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	173.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	13.1
Z2	Cuttle Weir to River	140.0

Mill Creek		Flow Rate (cfs)
D3	**Total MC Inflows**	73.5
U3	**Total MC Deliveries**	73.5
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	74.5
T3	MC #1 Flow (Cooley Hat)	13.5

State Water Project		Flow Rate (cfs)
G	**Total SWP Inflows**	6.2
V	**Total SWP Deliveries**	6.2
J	Northfork Canal	0.0
L	Redlands Aqueduct	3.2
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2224.1
Crafton Reservoir Level (21.3)	16.1
Mentone Reservoir Level	17.9

River Recharge	AF
Estimate SAR Recharge (AF)	43
Estimate Mill Creek Recharge (AF)	1
Estimated Total River Recharge (AF)	44

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	21,366	176,000
Santa Ana River to Mill Creek	SAR-MC	1,227	0
Santa Ana River	SWP	85	0
Mill Creek	MC	3,286	106,000
Mill Creek	SWP	530	0
Plunge Creek	PLC	1,913	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.

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State Water Project

Inflows		
A	BBMWD In-lieu	0.0
B	Muni test at Greenspot Station	0.0
C	Exchange Water	0.0
D	Purchased Water	3.0
E	Redlands Aqueduct Leakage	0.0
F	Recharge Project	3.2
G	**Total SWP Inflows**	**6.2**

Deliveries		
H	EVWD City Creek	3.0
I	Santa Ana Low Turnout	0.0
J	Northfork Canal	0.0
K	Edwards Canal	0.0
L	Redlands Aqueduct	3.2

M	Crafton Unger Lane	0.0
N	BVMWC Boullioun Box	0.0
P	SARC West	0.0
Q	Zanja	0.0
R	Tate Treatment Plant	0.0

S	SBCFCD Grove	0.0
T	Newport for BVMWC	0.0
U	M/C spreading at Zanja Tate	0.0
W	Tres Lagos	0.0
V	**Total SWP Deliveries**	**6.2**

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
G2	Northfork Canal Weir	0.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	12.4
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	13.9
Y1	Redlands Sandbox Spill	0.0
		Minus
D1	BVMWC River PU (USGS)	25.5
I1	Redlands Tunnel	0.8
A1	**SAR PH #3 Penstock (calc)**	**0.0**
K1	**PH3# Penstock (SCADA)**	**0.0**

BVMWC Highline		
A2	Newport	0.0
D2	Boullioun Box Weir	1.8
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	**BVMWC Highline**	**1.8**

Other		
J1	Big Bear Lake Release	0.3
L1	SCE SAR AVM (SCADA)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	6.0

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	25.5
E1	Main River Gage (USGS)	300.6
		minus
F1	Greenspot Spill	0.0
Z1	**SOD Release Subtotal**	**326.1**

W	Observation at SOD	2224.1
X	SOD Reservoir Elevation (scada)	2225.3
Y	Debris Pool Elevation	N/A

Total SAR Inflows		
A1	SAR PH #3 Penstock (calc)	0.0
B1	BVMWC Highline	1.8
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	25.5
E1	Main River Gage (USGS)	300.6
D1a	BV Pick-Up gated	☐
A5	**Total SAR Inflows**	**327.9**

Edison Generation	
SAR PH#1 Generating	☐
SAR PH#3 Generating	☐

Santa Ana River Deliveries

Greenspot Pipeline		
M1	Redlands sand box	0.0
N1	BVMWC Highline	0.0
O1	Newport for BVMWC	0.0
P1	SBVWCD Mill Creek Spreading	0.0
Q1	Crafton WC Unger Lane	0.0
R1	BVMWC Highline to Boullioun	0.0
S1	Tres Lagos	0.0
T1	Tate Pump Station to Zanja	0.0
C1	**Greenspot Pipeline**	**0.0**

Tailrace Pipeline		
G2	Northfork Canal Weir	0.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	12.4
I2	**Tailrace Pipeline**	**12.4**

Irrigation		
D2	Boullioun Box Weir	1.8
R1	BVMWC Highline to Boullioun	0.0
N	BVMWC Boullioun Box	0.0
		minus
B2	Gay Overflow	1.1
C2	**Irrigation**	0.7

SBVWCD Parshall FlumeTo Basins		
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	12.4
H1	SBVWCD Diversion	160.6
	Sedimentation Basin Recharge	0.0
L2	**SBVWCD Parshall Flume**	**173.0**
	Parshall Flume (SCADA)	**66.6**

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	13.9
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	140.0
B1	BVMWC Highline	1.8
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	12.4
L2	SBVWCD Parshall Flume	173.0
L2	Sedimentation Recharge	0.0
		minus
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	12.4
I1	Redlands Tunnel	0.8
N2	**Total SAR Deliveries**	**327.9**

Mill Creek Inflows

Total MC Inflows		
A3	RPU Flow	0.0
B3	M/C #3 Penstock	13.5
C3	SBVWCD Mill Creek Diversion	60.0
D3	**Total MC Inflows**	**73.5**

Other		
E3	M/C #1 Penstock Flow	13.5
F3	Stream Parshall Flume to Yucaipa	0.0
G3	Observation at Garnet	0.0

Mill Creek Deliveries

Yucaipa Pipeline		
H3	Yucaipa Regional Park	0.0
J3	Wilson Creek Spreading	0.0
K3	**Yucaipa Pipeline**	**0.0**

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	60.0
L3	East Weir (MC)	8.5
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	6.0
O3	**SBVWCD MC Spreading**	**74.5**

MC #1 Flow (Cooley Hat)		
P3	Tate Inflow	0.0
Q3	East Weir to Mill Creek	8.5
S3	East Weir to Zanja	5.0
T3	**MC #1 Flow (Cooley Hat)**	**13.5**
N3	**Cooley Hat (SCADA)**	**13.5**

Total MC Deliveries		
C3	SBVWCD Mill Creek Diversion	60.0
T3	Mill Creek #1 Flow (Cooley Hat)	13.5
U3	**Total MC Deliveries**	**73.5**

Other		
H3	Mentone Reservoir Level	17.9
R3	Boullioun to BVMWC Highline	0.0
V3	Zanja West Weir to CWC Canal	2.9
W3	Mill Creek PH #2,3 Afterbay Spill	0.0
Y3	Crafton Reservoir Level (21.3)	16.1

SBVWCD Recharge

Location		Type
A4	Santa Ana River	SAR
M4	Santa Ana Rvr to Mill Creek	SAR-MC
B4	Santa Ana River	SWP
C4	Mill Creek	MC
D4	Mill Creek	SWP
	Plunge Creek	PLC

Previous Day (AF)		
E4	347.1	
N4	11.7	
F4	6.5	
G4	130.9	
H4	2.5	
	29.8	

WY To Date (AF)		Target
I4	21,366.2	176,000
O4	1,226.8	
J4	84.5	
K4	3,285.7	106,000
L4	529.5	
	1,912.5	

Calendar Year To Date (AF)		Target
I4	20,878.7	176,000
O4	1,043.3	
J4	84.5	
K4	2,660.9	106,000
L4	**529.5**	
	1,791.1	

SAR Passing Cuttle Weir (cfs)	140
Mill Creek Passing Garnet (cfs)	0
Flow in the River Above Alabama	140

Share of Lost SAR Flow	110
Share of Lost Mill Creek Flow	0
Flowing Beyond Alabama	110

Estimate SAR flow (cfs)	30
Estimate Mill Creek flow (cfs)	0
Total River Flow (cfs)	30

Estimate SAR Recharge (AF)	43
Estimate Mill Creek Recharge (AF)	1
Total River Recharge (AF)	44