Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 5/2/2023

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	**Total SAR Inflows**	312.9
N2	**Total SAR Deliveries**	312.9
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	1.7
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	73.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	22.3
Z2	Cuttle Weir to River	215.0

Mill Creek		Flow Rate (cfs)
D3	**Total MC Inflows**	90.2
U3	**Total MC Deliveries**	90.2
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	81.0
T3	MC #1 Flow (Cooley Hat)	19.5

Reservoir Levels	Feet
Observation at SOD	2223.9
Crafton Reservoir Level (21.3)	16.9
Mentone Reservoir Level	17.6

State Water Project		Flow Rate (cfs)
G	**Total SWP Inflows**	9.1
V	**Total SWP Deliveries**	9.1
J	Northfork Canal	3.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

River Recharge	AF
Estimate SAR Recharge (AF)	31
Estimate Mill Creek Recharge (AF)	8
Estimated Total River Recharge (AF)	40

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	29,794	176,000
Santa Ana River to Mill Creek	SAR-MC	1,449	0
Santa Ana River	SWP	234	0
Mill Creek	MC	7,931	106,000
Mill Creek	SWP	1,197	0
Plunge Creek	PLC	2,268	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		
A	BBMWD In-lieu	2.2
B	Muni test at Greenspot Station	0.0
C	Exchange Water	0.0
D	Purchased Water	6.9
E	Redlands Aqueduct Leakage	0.0
F	Recharge Project	0.0
G	**Total SWP Inflows**	**9.1**

Deliveries		
H	EVWD City Creek	2.9
I	Santa Ana Low Turnout	0.0
J	Northfork Canal	3.0
K	Edwards Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
N	BVMWC Boullioun Box	2.2
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	1.0
V	**Total SWP Deliveries**	**9.1**

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
G2	Northfork Canal Weir	0.0
H2	Edwards Canal	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	0.0
Y1	Redlands Sandbox Spill	24.3
		Minus
D1	BVMWC River PU (USGS)	23.2
I1	Redlands Tunnel	2.0
A1	**SAR PH #3 Penstock (calc)**	**0.0**
K1	**PH3# Penstock (SCADA)**	**0.0**

BVMWC Highline		
A2	Newport	0.0
D2	Boullioun Box Weir	1.7
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	**BVMWC Highline**	**1.7**

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

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	23.2
E1	Main River Gage (USGS)	288.0
		minus
F1	Greenspot Spill	0.0
Z1	**SOD Release Subtotal**	**311.2**

W	Observation at SOD	2223.9
X	SOD Reservoir Elevation (scada)	2222.2
Y	Debris Pool Elevation	N/A

Total SAR Inflows		
A1	SAR PH #3 Penstock (calc)	0.0
B1	BVMWC Highline	1.7
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	23.2
E1	Main River Gage (USGS)	288.0
D1a	BV Pick-Up gated	☐
A5	**Total SAR Inflows**	**312.9**

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	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	**Tailrace Pipeline**	**0.9**

Irrigation		
D2	Boullioun Box Weir	1.7
R1	BVMWC Highline to Boullioun	0.0
N	BVMWC Boullioun Box	2.2
		minus
B2	Gay Overflow	1.7
C2	**Irrigation**	2.2

SBVWCD Parshall FlumeTo Basins		
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	73.0
	Sedimentation Basin Recharge	0.0
L2	**SBVWCD Parshall Flume**	**73.0**
	Parshall Flume (SCADA)	**66.6**

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	0.0
Y1	Redlands Sandbox Spill	24.3
Z2	Cuttle Weir To River	215.0
B1	BVMWC Highline	1.7
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	0.9
L2	SBVWCD Parshall Flume	73.0
L2	Sedimentation Recharge	0.0
		minus
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	2.0
N2	**Total SAR Deliveries**	**312.9**

Mill Creek Inflows

Total MC Inflows		
A3	RPU Flow	0.0
B3	M/C #3 Penstock	19.5
C3	SBVWCD Mill Creek Diversion	70.7
D3	**Total MC Inflows**	**90.2**

Other		
E3	M/C #1 Penstock Flow	19.5
F3	Stream Parshall Flume to Yucaipa	0.0
G3	Observation at Garnet	65.0

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	70.7
L3	East Weir (MC)	10.3
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	**SBVWCD MC Spreading**	**81.0**

MC #1 Flow (Cooley Hat)		
P3	Tate Inflow	8.0
Q3	East Weir to Mill Creek	10.3
S3	East Weir to Zanja	1.2
T3	**MC #1 Flow (Cooley Hat)**	**19.5**
N3	**Cooley Hat (SCADA)**	**21.2**

Total MC Deliveries		
C3	SBVWCD Mill Creek Diversion	70.7
T3	Mill Creek #1 Flow (Cooley Hat)	19.5
U3	**Total MC Deliveries**	**90.2**

Other		
H3	Mentone Reservoir Level	17.6
R3	Boullioun to BVMWC Highline	0.0
V3	Zanja West Weir to CWC Canal	1.0
W3	Mill Creek PH #2,3 Afterbay Spill	0.0
Y3	Crafton Reservoir Level (21.3)	16.9

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	155.8	
N4	0.0	
F4	0.0	
G4	146.8	
H4	0.0	
	7.9	

WY To Date (AF)		Target
I4	29,794.1	176,000
O4	1,448.8	
J4	234.3	
K4	7,930.7	106,000
L4	1,196.9	
	2,267.6	

Calendar Year To Date (AF)		Target
I4	29,306.6	176,000
O4	1,265.3	
J4	234.3	
K4	7,305.9	106,000
L4	**962.6**	
	2,146.1	

SAR Passing Cuttle Weir (cfs)	215
Mill Creek Passing Garnet (cfs)	65
Flow in the River Above Alabama	280

Share of Lost SAR Flow	176.61
Share of Lost Mill Creek Flow	53
Flowing Beyond Alabama	230

Estimate SAR flow (cfs)	38
Estimate Mill Creek flow (cfs)	12
Total River Flow (cfs)	50

Estimate SAR Recharge (AF)	31
Estimate Mill Creek Recharge (AF)	8
Total River Recharge (AF)	40