

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 8/24/2018

Time: 6:50:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	9.6
N2	Total SAR Deliveries	9.6
A1	SAR PH#3 Penstock (calc)	6.1
B1	BVMWC Highline	1.9
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	0.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	7.7
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	29.4
V	Total SWP Deliveries	29.4
J	Northfork Canal	2.0
L	Redlands Aqueduct	8.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.8

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	10.7
U3	Total MC Deliveries	10.7
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	4.0
T3	MC #1 Flow (Cooley Hat)	6.7

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	15.2
Mentone Reservoir Level	21.8

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

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	2,503	166,000
Santa Ana River to Mill Creek	SAR-MC	115	0
Santa Ana River	SWP	6,502	0
Mill Creek	MC	1,943	99,700
Mill Creek	SWP	1,627	0
Redlands	SWP	0	0
Loma Linda	SWP	0	0
East Valley	SWP	726	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, and not necessarily what is at that location thruout the day.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	24.4	H	EVWD City Creek	7.5	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	7.1	N	BVMWC Boullioun Box	4.0	T	Newport for BVMWC	0.8
C	Exchange Water	0.0	J	Northfork Canal	2.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	0.0
D	Purchased Water	5.0	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	8.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries 29.4	
F	Recharge Project	0.0									
G	Total SWP Inflows	29.4									

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)	1.6	A1	SAR PH #3 Penstock (calc)	6.1
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	1.9	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	1.9
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)	1.6
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	1.9	Z1	SOD Release Subtotal	1.6	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	8.0							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	9.6
	minus										
D1	BVMWC River PU (USGS)	1.6									
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	6.1									
K1	PH#3 Penstock (SCADA)	5.7									

Other			Edison Generation		
J1	Big Bear Lake Release	1.5			
L1	SCE SAR AVM (SCADA)	7.3			
X1	SAR-MC Spread (Red. Aqueduct)	0.0			

Irrigation		
D2	Boullioun Box Weir	5.9
	minus	
B2	Gay Overflow	1.8
C2	Irrigation	4.1

SAR PH#1 Generating	0.0
SAR PH#3 Generating	0.0

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	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	8.0
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	0.0		Parshall Flume (SCADA)	0.0	B1	BVMWC Highline	1.9
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0							I2	Tailrace Pipeline	0.0
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0								minus	

J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	0.3
N2	Total SAR Deliveries	9.6

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	6.7
B3	M/C #3 Penstock	6.7	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	4.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	10.7			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	6.4	C3	SBVWCD Mill Creek Diversion	4.0	H3	Mentone Reservoir Level	21.8
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	6.7	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.3	U3	Total MC Deliveries	10.7	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	6.7				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	3.6				Y3	Crafton Reservoir Level (21.3)	15.2

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	4.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	4.0

SBVWCD Recharge

Location	Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	0.0	I4	2,503.4	166,000	I4	2,503.4	166,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	0.0	O4	114.6		O4	88.3	
B4	Santa Ana River	SWP	0.0	J4	6,502.3		J4	100.9	
C4	Mill Creek	MC	7.9	K4	1,942.6	99,700	K4	1,729.2	99,700
D4	Mill Creek	SWP	0.0	L4	1,627.4		L4	434.1	
	Redlands	SWP	0.0		0.0			0.0	
	Loma Linda	SWP	0.0		0.0			0.0	
	East Valley	SWP	14.1		725.6			725.6	

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)	0	Share of Lost Mill Creek Flow	0	Estimate Mill Creek flow (cfs)	0	Estimate Mill Creek Recharge (AF)	0
Flow in the River Above Alabama	0	Flowing Beyond Alabama	0	Total River Flow (cfs)	0	Total River Recharge (AF)	0

The diagram illustrates the San Gabriel River water distribution system, showing the flow of water from various sources through infrastructure to different destinations. Key components and flow rates are as follows:

- Mill Creek:**
 - Bear Valley Highline (B1): 1.9
 - Greenspot Pipeline
 - Redlands Aqueduct
 - Observation at Garnet (G3): 0
- Mountain Home / Forest Falls:**
 - M/C #3 Penstock (B3): 6.7
 - SCE PH #2,3
- Yucaipa Pipeline:**
 - Yucaipa Pipeline (K3): 0
 - Yucaipa Regional Park (I3): 0
 - Wilson Creek Spreading (J3): 0
- Other Sources and Infrastructure:**
 - River Pick Up (A3): 0
 - Afterbay Spill (W3): 0
 - Parshall Flume to Yucaipa (F3): 0
 - SCE PH #1
 - M/C #1 Penstock (E3): 6.7
 - MC #1 Flow (T3): 6.7
 - Cooley Hat
 - East Weir
 - East Weir to MC (L3, Q3): 0
 - East Weir to Zanja (S3): 0.3
 - Tate Inflow (P3): 6.4
 - Tate Treatment Plant (R): 0
 - Irrigation (C2): 4.1
 - Gay Overflow (B2): 1.8
 - West Weir
 - West Weir to CWC (V3): 0
 - Crafton Reservoir (Y3): 15.2
 - Crafton Under Turnout (Q1, M): 0
 - Mentone Reservoir (H3): 21.8
 - SBWCD MC Spread (P1, U): 0
 - SBWCD Mill Creek Diversion (C3): 4
 - SBWCD Spreading (O3): 4
 - X1: 0

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Santa Ana Stations

