

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 3/13/2017

Time: 7:40:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	115.4
N2	Total SAR Deliveries	115.4
A1	SAR PH#3 Penstock (calc)	43.7
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	84.6
G2	North Fork Canal Weir	5.9
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	18.9
V1/Z2	Cuttle Weir and PH3 Afterbay	6.0

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

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	30.1
U3	Total MC Deliveries	30.1
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	24.5
T3	MC #1 Flow (Cooley Hat)	30.1

Reservoir Levels	Feet
Observation at SOD	2191.8
Crafton Reservoir Level (21.3)	16.0
Mentone Reservoir Level	21.1

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	13,027	166,000
Santa Ana River to Mill Creek	SAR-MC	601	0
Santa Ana River	SWP	1,796	0
Mill Creek	MC	2,538	99,700
Mill Creek	SWP	203	0
Redlands	SWP	33	0
Loma Linda	SWP	487	0
East Valley	SWP	3,668	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. There is 2 cfs recharging in the SAR that is coming from the SBVWCD Sandbox and not the Cuttle Weir.

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State Water Project

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

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	5.9	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.1	A1	SAR PH #3 Penstock (calc)	43.7
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	67.6	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	19.0	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)	4.1
V1	PH#3 Afterbay SpillLoss to SAR	4.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	71.7	E1	Main River Gage (USGS)	67.6
W1	Redlands Aqueduct / Sandbox	19.2							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.1							A5	Total SAR Inflows	115.4
	minus										
D1	BVMWC River PU (USGS)	4.1									
I1	Redlands Tunnel	0.4									
A1	SAR PH #3 Penstock (calc)	43.7									
K1	PH#3 Penstock (SCADA)	43.7									

Other			Seven Oaks Dam		
J1	Big Bear Lake Release	0.3	w	Observation at SOD	2191.8
L1	SCE SAR AVM (SCADA)	46.8	x	SOD Reservoir Elevation (scada)	2191.6
X1	SAR-MC Spread (Red. Aqueduct)	7.5	y	Debris Pool Elevation	0.0

Edison Generation	
SAR PH#1 Generating	<input type="checkbox"/>
SAR PH#3 Generating	<input checked="" type="checkbox"/>

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.9	J2	Tailrace Valve to Parshall Flume	19.0	V1	SAR PH #3 Afterbay Spill	4.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	19.2
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	19.0	H1	SBVWCD Diversion	65.6	Y1	Redlands Sandbox Spill	0.1
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	84.6	Z2	Cuttle Weir To River	2.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	24.9		Parshall Flume (SCADA)	84.6	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0							I2	Tailrace Pipeline	24.9
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	84.6
C1	Greenspot Pipeline	0.0								minus	

Irrigation		
D2	Boullioun Box Weir	0.0
	minus	
B2	Gay Overflow	0.0
C2	Irrigation	0.0

J2	Tailrace Valve to Parshall Flume	19.0
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	0.4
N2	Total SAR Deliveries	115.4

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	11.8	E3	M/C #1 Penstock Flow	30.1
B3	M/C #3 Penstock	19.3	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	30.1			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	12.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	21.1
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	17.0	T3	Mill Creek #1 Flow (Cooley Hat)	30.1	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.1	U3	Total MC Deliveries	30.1	V3	Zanja West Weir to CWC Canal	0.2
			T3	MC #1 Flow (Cooley Hat)	30.1				W3	Mill Creek PH #2,3 Afterbay Spill	3.8
									V3	Crafton Reservoir Level (21.3)	16.0

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	17.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	7.5
O3	SBVWCD MC Spreading	24.5

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	510.5	I4	13,027.4	166,000	I4	12,124.8	166,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	48.8	O4	600.6		O4	438.0	
B4	Santa Ana River	SWP	F4	0.0	J4	1,795.9		J4	1,795.9	
C4	Mill Creek	MC	G4	95.2	K4	2,537.5	99,700	K4	2,308.9	99,700
D4	Mill Creek	SWP	H4	0.0	L4	203.0		L4	203.0	
	Redlands	SWP		0.0		32.9			0.0	
	Loma Linda	SWP		0.0		486.6			0.0	
	East Valley	SWP		0.0		3,668.4			0.0	
SAR Passing Cuttle Weir (cfs)	2		Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	2		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	2		Flowing Beyond Alabama	0	Total River Flow (cfs)	2		Total River Recharge (AF)	0	