

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 5/11/2017

Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	52.6
N2	Total SAR Deliveries	52.6
A1	SAR PH#3 Penstock (calc)	43.1
B1	BVMWC Highline	4.8
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	25.6
G2	North Fork Canal Weir	9.2
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	14.0
V1	PH3 Afterbay Spill Loss to SAR	2.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	52.1
V	Total SWP Deliveries	52.1
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	35.2
U3	Total MC Deliveries	35.2
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	17.0
T3	MC #1 Flow (Cooley Hat)	31.9

Reservoir Levels	Feet
Observation at SOD	0.0
Crafton Reservoir Level (21.3)	18.9
Mentone Reservoir Level	21.0

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	18,865	166,000
Santa Ana River to Mill Creek	SAR-MC	1,338	0
Santa Ana River	SWP	2,128	0
Mill Creek	MC	4,604	99,700
Mill Creek	SWP	203	0
Redlands	SWP	33	0
Loma Linda	SWP	487	0
East Valley	SWP	4,071	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. EVWD blocked the River-pick up due to treatment issues. Muni and East Valley are splitting the Santa Ana low.

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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	52.1	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	52.1	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	52.1
F	Recharge Project	0.0									
G	Total SWP Inflows		52.1								

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows			
G2	Northfork Canal Weir	9.2	A2	Newport	0.0	D1	BVMWC River PU (USGS)	3.9	A1	SAR PH #3 Penstock (calc)	43.1	
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	4.8	E1	Main River Gage (USGS)	4.7	B1	BVMWC Highline	4.8	
J2	Tailrace Valve to Parshall Flume	20.9	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)	3.9	
V1	PH#3 Afterbay SpillLoss to SAR	2.0	B1	BVMWC Highline		4.8	Z1	SOD Release Subtotal	8.6	E1	Main River Gage (USGS)	4.7
W1	Redlands Aqueduct / Sandbox	14.4							D1a	BV Pick-Up gated	☒	
Y1	Redlands Sandbox Spill	0.0	Other						A5	Total SAR Inflows	52.6	
minus			J1	Big Bear Lake Release	0.4	W	Observation at SOD		Edison Generation			
D1	BVMWC River PU (USGS)	3.9	L1	SCE SAR AVM (SCADA)	49.5	X	SOD Reservoir Elevation (scada)	2151.3	SAR PH#1 Generating			☒
I1	Redlands Tunnel	0.4	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation		SAR PH#3 Generating			☒
A1	SAR PH #3 Penstock (calc)	43.1										
K1	PH3# Penstock (SCADA)	43.1										

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	9.2	J2	Tailrace Valve to Parshall Flume	20.9	V1	SAR PH #3 Afterbay Spill	2.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	14.4
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	20.9	H1	SBVWCD Diversion	4.7	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	I2	SBVWCD Parshall Flume	25.6	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	31.0		Parshall Flume (SCADA)	25.6	B1	BVMWC Highline	4.8
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	4.8	I2	Tailrace Pipeline	31.0
T1	Tate Pump Station to Zanja	0.0				minus			I2	SBVWCD Parshall Flume	25.6
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	2.2	minus		
						C2	Irrigation	2.6	J2	Tailrace Valve to Parshall Flume	20.9
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.4
									N2	Total SAR Deliveries	52.6

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	13.7	E3	M/C #1 Penstock Flow	31.9
B3	M/C #3 Penstock	21.5	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	35.2			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other	
J3	Yucaipa Regional Park	0.0	P3	Tate Inflow	11.8	C3	SBVWCD Mill Creek Diversion	0.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	13.7	T3	Mill Creek #1 Flow (Cooley Hat)	31.9
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	6.4	W3	Mill Creek PH #2,3 Afterbay Spill	3.3
			T3	MC #1 Flow (Cooley Hat)	31.9	U3	Total MC Deliveries	35.2
SBVWCD MC Spreading							Y3	
							Mentone Reservoir Level (21.3)	
							Boullioun to BVMWC Highline	
							Zanja West Weir to CWC Canal	
							Mill Creek PH #2,3 Afterbay Spill	
							Crafton Reservoir Level (18.9)	

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	13.7
M3	BVHL (SAR)	0.0
W3	Mill Creek PH #2,3 Afterbay Spill	3.3
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	17.0

SBVWCD Recharge

Location		Type	Previous Day (AF)			WY To Date (AF)		Target	Calendar Year To Date (AF)		Target	
A4	Santa Ana River	SAR	E4	55.1		I4	18,865.0	166,000	I4	17,962.4	166,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0		O4	1,338.0		O4	1,175.3		
B4	Santa Ana River	SWP	F4	49.6		J4	2,127.5		J4	2,127.5		
C4	Mill Creek	MC	G4	33.7		K4	4,603.9	99,700	K4	4,375.4	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		49.6			4,070.6			402.2		
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