

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 4/10/2019

Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	124.9
N2	Total SAR Deliveries	124.9
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	119.0
G2	North Fork Canal Weir	5.1
H2	Edwards Canal	0.8
W1	Redlands Aqueduct (calc)	0.0
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	69.6
V	Total SWP Deliveries	69.6
J	Northfork Canal	0.0
L	Redlands Aqueduct	8.1
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	53.5
U3	Total MC Deliveries	53.5
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	39.0
T3	MC #1 Flow (Cooley Hat)	18.9

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	16.9
Mentone Reservoir Level	20.0

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	12,929	176,000
Santa Ana River to Mill Creek	SAR-MC	201	0
Santa Ana River	SWP	7,814	0
Mill Creek	MC	4,530	106,000
Mill Creek	SWP	2,841	0
Redlands	SWP	0	0
Loma Linda	SWP	0	0
East Valley	SWP	134	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 throughout the day.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	13.2	H	EVWDC City Creek	3.0	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	20.0	N	BVMWC Boullioun Box	4.0	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	33.4
D	Purchased Water	56.4	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	1.1
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	8.1	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	69.6
F	Recharge Project	0.0									
G	Total SWP Inflows	69.6									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	5.1	A2	Newport	0.0	D1	BVMWC River PU (USGS)	8.8	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.8	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	116.1	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	2.9	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)	8.8
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	124.9	E1	Main River Gage (USGS)	116.1
W1	Redlands Aqueduct / Sandbox	0.9							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.3	Other						A5	Total SAR Inflows	124.9
minus			J1	Big Bear Lake Release	0.3	w	Observation at SOD	N/A	Edison Generation		
D1	BVMWC River PU (USGS)	8.8	L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2310.2	SAR PH#1 Generating	☐	
I1	Redlands Tunnel	1.2	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#3 Generating	☐	
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH#3 Penstock (SCADA)	N/A									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.1	J2	Tailrace Valve to Parshall Flume	2.9	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.8	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	0.9
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	2.9	H1	SBVWCD Diversion	116.1	Y1	Redlands Sandbox Spill	0.3
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	minus			Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	8.8		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0	Irrigation			L2	SBVWCD Parshall Flume	119.0	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	D2	Boullioun Box Weir	0.0		Parshall Flume (SCADA)	120.2	I2	Tailrace Pipeline	8.8
T1	Tate Pump Station to Zanja	0.0	N	BVMWC Boullioun Box	4.0				L2	SBVWCD Parshall Flume	119.0
C1	Greenspot Pipeline	0.0	minus						minus		
			B2	Gay Overflow	0.4				J2	Tailrace Valve to Parshall Flume	2.9
			C2	Irrigation	2.6				K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	1.2
									N2	Total SAR Deliveries	124.9

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	18.9	E3	M/C #1 Penstock Flow	18.9
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	34.6	G3	Observation at Garnet	0.0
D3	Total MC Inflows	53.5			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
	Yucaipa Regional Park	0.0	P3	Tate Inflow	12.0	C3	SBVWCD Mill Creek Diversion	34.6	H3	Mentone Reservoir Level	20.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	4.4	T3	Mill Creek #1 Flow (Cooley Hat)	18.9	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	2.5	U3	Total MC Deliveries	53.5	V3	Zanja West Weir to CWC Canal	0.7
			T3	MC #1 Flow (Cooley Hat)	18.9				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	20.6				Y3	Crafton Reservoir Level (21.3)	16.9

SBVWCD Recharge

Location	Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	E4	236.0	I4	12,928.6	176,000	I4	12,857.7	176,000
M4	Santa Ana Rvr to Mill Creek	N4	0.0	O4	200.5		O4	109.0	
B4	Santa Ana River	F4	40.3	J4	7,813.5		J4	6,798.2	
C4	Mill Creek	G4	68.6	K4	4,529.8	106,000	K4	3,917.4	106,000
D4	Mill Creek	H4	67.6	L4	2,841.4		L4	2,841.1	
	Redlands		0.0		0.0			0.0	
	Loma Linda		0.0		0.0			0.0	
	East Valley		0.0		134.4			0.0	
SAR Passing Cuttle Weir (cfs)	0	Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	0	Estimate SAR Recharge (AF)	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	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	Total River Recharge (AF)	0