

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/22/2016

Time: 7:15:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	41.3
N2	Total SAR Deliveries	41.3
A1	SAR PH#3 Penstock (calc)	30.7
B1	BVMWC Highline	4.3
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	36.0
G2	North Fork Canal Weir	1.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	0.0
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	47.0
V	Total SWP Deliveries	47.0
J	Northfork Canal	4.9
L	Redlands Aqueduct	21.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

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

Reservoir Levels	Feet
Observation at SOD	2162.4
Crafton Reservoir Level (21.3)	0.0
Mentone Reservoir Level	0.0

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	6
Estimated Total River Recharge (AF)	6

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	623	166,000
Santa Ana River to Mill Creek	SAR-MC	163	0
Santa Ana River	SWP	0	0
Mill Creek	MC	161	99,700
Mill Creek	SWP	0	0
Redlands	SWP	33	0
Loma Linda	SWP	487	0
East Valley	SWP	3,411	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	21.0	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	21.1	N	BVMWC Boullioun Box	0.0	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	4.9	P	SARC West	0.0	U	M/C spreading at Zanja Tate	0.0
D	Purchased Water	26.0	K	Edwards Canal	0.0	Q	Zanja	0.0		Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	21.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries 47.0	
F	Recharge Project	0.0									
G	Total SWP Inflows	47.0									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	1.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	6.3	A1	SAR PH #3 Penstock (calc)	30.7
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	4.3	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	4.3
J2	Tailrace Valve to Parshall Flume	33.7	E2	Boullioun Box to Zanja	0.0	minus			C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	2.3	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	6.3
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	4.3	Z1	SOD Release Subtotal	6.3	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	0.3							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.1							A5	Total SAR Inflows	41.3
minus											
D1	BVMWC River PU (USGS)	6.3									
I1	Redlands Tunnel	0.4									
A1	SAR PH #3 Penstock (calc)	30.7									
K1	PH#3 Penstock (SCADA)	32.0									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	1.0	J2	Tailrace Valve to Parshall Flume	33.7	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	2.3	W1	Redlands Aqueduct / Sandbox	0.3
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	33.7	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.1
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	2.3	L2	SBVWCD Parshall Flume	36.0	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	37.0	Parshall Flume (SCADA)			B1	BVMWC Highline	4.3
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0							I2	Tailrace Pipeline	37.0
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	36.0
C1	Greenspot Pipeline	0.0							minus		
									J2	Tailrace Valve to Parshall Flume	33.7
									K2	Northfork Parshall Flume	2.3
									I1	Redlands Tunnel	0.4
									N2	Total SAR Deliveries	41.3

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	0.0
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	20.0
D3	Total MC Inflows	0.0			

Mill Creek Deliveries

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

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

SBVWCD Recharge

Location		Type	Previous Day (AF)			WY To Date (AF)			Target	Calendar Year To Date (AF)			Target	
A4	Santa Ana River	SAR	E4	81.9		I4	623.2		166,000	I4	2,900.2		166,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0		O4	162.6			O4	328.3			
B4	Santa Ana River	SWP	F4	0.0		J4	0.0			J4	15.0			
C4	Mill Creek	MC	G4	4.2		K4	161.0		99,700	K4	1,031.3		99,700	
D4	Mill Creek	SWP	H4	0.0		L4	0.0			L4	17.6			
	Redlands	SWP		0.0			32.9				202.4			
	Loma Linda	SWP		0.0			486.6				486.6			
	East Valley	SWP		42.4			3,410.7				5,323.2			
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)		20	Share of Lost Mill Creek Flow			15	Estimate Mill Creek flow (cfs)			5	Estimate Mill Creek Recharge (AF)			6
Flow in the River Above Alabama		20	Flowing Beyond Alabama			15	Total River Flow (cfs)			5	Total River Recharge (AF)			6