Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: August 26, 2011

Time: 0745

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.5	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	25.5	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	0.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	25.5	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	25.5

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation**	2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	27.8	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.8
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	4.7
(+)F1	Greenspot Spill	0.2	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.5
A4	**SAR Inflow-SubTotal-1**	34.5	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	13.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.5
Z1	**SOD ReleaseSubTotal D1+E1**	13.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	7.9
(Σ)G1	**SubTotal 1+2 SAR Inflows**	47.5	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	0.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	47.5	W1	Redlands Aqueduct / Sandbox	19.9	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	13.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	8.8
I1	Redlands Tunnel	0.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	13.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	47.5
L1	SCE SAR AVM (SCADA)	35.7						

Mill Creek				Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
	Inflows	Flow Rate (cfs)	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	12.0
(+) A3	RPU Flow	13.0	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	11.0
(+) B3	M/C #3 Penstock	17.8	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(+)L3	East Weir (MC)	11.0	(+)S3	East Weir to Zanja	7.8
(Σ) D3	**Total MC Inflows**	30.8	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	30.8
E3	M/C #1 Penstock Flow	30.8	(+)C3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	30.8
F3	Stream Parshall Flume to Yucaipa	0.0	(Σ)O3	**SBVWCD Spreading**	11.0	V3	Zanja West Weir to CWC Canal	5.9
G3	Observation at Garnet Bridge	3.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
H3			I3	Mentone Reser. Level (23.0)	20.1	Y3	Crafton Reser. Level (21.3)	19.2

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	SAR	E4	26		I4	36,160	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	SAR-MC	N4	0		O4	0	
B4	**Santa Ana River**	SWP	F4	51		J4	145	
C4	**Mill Creek**	MC	G4	29		K4	15,567	18,000
D4	**Mill Creek**	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	**Share of Lost Flow**	0	SARP	**Estimate SAR Recharge [18]**	0
	Mill Creek Passing Garnet	MC	3	**Share of Lost Flow**	0	MCRP	**Estimate Mill Creek Recharge [19]**	3
	Flow in the River Above Alabama	Total	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: August 25, 2011

Time: 0745

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.5	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	25.5	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	0.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	25.5	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	25.5

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation** 2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	28.8	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.4
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	5.1
(+)F1	Greenspot Spill	0.5	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.5
A4	**SAR Inflow-SubTotal-1**	35.8	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	14.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.5
Z1	**SOD ReleaseSubTotal D1+E1**	14.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	7.9
(Σ)G1	**SubTotal 1+2 SAR Inflows**	49.8	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	0.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	49.8	W1	Redlands Aqueduct / Sandbox	21.2	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	14.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	8.8
I1	Redlands Tunnel	0.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	14.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	49.8
L1	SCE SAR AVM (SCADA)	38.5						

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	13.6	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	12.3
(+) B3	M/C #3 Penstock	16.1	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	5.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	29.7	(+)L3	East Weir (MC)	5.0	(+)S3	East Weir to Zanja	12.4
E3	M/C #1 Penstock Flow	29.7	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	29.7
F3	Stream Parshall Flume to Yucaipa	0.0	(+)C3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	29.7
G3	Observation at Garnet Bridge	3.0	(Σ)O3	**SBVWCD Spreading**	5.0	V3	Zanja West Weir to CWC Canal	8.9
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			I3	Mentone Reser. Level (23.0)	20.0	Y3	Crafton Reser. Level (21.3)	19.0

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	Santa Ana River	SAR	E4	28		I4	36,134	10400/50000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0		O4	0	
B4	Santa Ana River	SWP	F4	51		J4	145	
C4	Mill Creek	MC	G4	10		K4	15,547	18,000
D4	Mill Creek	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	Share of Lost Flow	0	SARP	Estimate SAR Recharge [18]	0
	Mill Creek Passing Garnet	MC	3	Share of Lost Flow	0	MCRP	Estimate Mill Creek Recharge [19]	3
	Flow in the River Above Alabama	Total	3	Flowing Beyond Alabama	0		Total River Recharge	3

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: August 24, 2011

Time: 0730

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.6	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	25.6	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	0.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	25.6	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	25.6

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation**	2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	31.1	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.0
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	4.5
(+)F1	Greenspot Spill	0.4	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.5
A4	**SAR Inflow-SubTotal-1**	38.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	14.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.5
Z1	**SOD ReleaseSubTotal D1+E1**	14.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	8.0
(Σ)G1	**SubTotal 1+2 SAR Inflows**	52.0	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.0
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	0.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	52.0	W1	Redlands Aqueduct / Sandbox	24.2	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	14.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	8.0
I1	Redlands Tunnel	0.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	14.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	52.0
L1	SCE SAR AVM (SCADA)	37.2						

Mill Creek				Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
	Inflows	Flow Rate (cfs)	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	12.3
(+) A3	RPU Flow	14.0	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	7.0
(+) B3	M/C #3 Penstock	18.1	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(+)L3	East Weir (MC)	7.0	(+)S3	East Weir to Zanja	12.8
(Σ) D3	**Total MC Inflows**	32.1	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	32.1
E3	M/C #1 Penstock Flow	32.1	(+)C3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	32.1
F3	Stream Parshall Flume to Yucaipa	0.0	(Σ)O3	**SBVWCD Spreading**	7.0	V3	Zanja West Weir to CWC Canal	11.1
G3	Observation at Garnet Bridge	3.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
H3			I3	Mentone Reser. Level (23.0)	20.0	Y3	Crafton Reser. Level (21.3)	18.8

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	SAR	E4	28		I4	36,107	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	SAR-MC	N4	0		O4	0	
B4	**Santa Ana River**	SWP	F4	51		J4	94	
C4	**Mill Creek**	MC	G4	14		K4	15,537	18,000
D4	**Mill Creek**	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	**Share of Lost Flow**	0	SARP	**Estimate SAR Recharge [18]**	0
	Mill Creek Passing Garnet	MC	3	**Share of Lost Flow**	0	MCRP	**Estimate Mill Creek Recharge [19]**	3
	Flow in the River Above Alabama	Total	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: August 23, 2011

Time: 0800

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.5	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	26.0	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.5
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	0.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	26.0	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	26.0

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation**	2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	31.3	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.4
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	5.1
(+)F1	Greenspot Spill	0.2	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.5
A4	**SAR Inflow-SubTotal-1**	38.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	13.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.5
Z1	**SOD ReleaseSubTotal D1+E1**	13.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	6.6
(Σ)G1	**SubTotal 1+2 SAR Inflows**	51.0	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.0
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	0.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	51.0	W1	Redlands Aqueduct / Sandbox	25.6	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	13.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	6.6
I1	Redlands Tunnel	0.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	13.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	51.0
L1	SCE SAR AVM (SCADA)	39.1						

Mill Creek				Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
	Inflows	Flow Rate (cfs)	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.9
(+) A3	RPU Flow	14.3	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	12.5
(+) B3	M/C #3 Penstock	18.2	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.5	(+)L3	East Weir (MC)	12.5	(+)S3	East Weir to Zanja	8.1
(Σ) D3	**Total MC Inflows**	33.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	32.5
E3	M/C #1 Penstock Flow	32.5	(+)C3	Mill Creek Diversion (MC)	0.5	U3	**Total MC Deliveries**	33.0
F3	Stream Parshall Flume to Yucaipa	0.0	(Σ)O3	**SBVWCD Spreading**	13.0	V3	Zanja West Weir to CWC Canal	4.9
G3	Observation at Garnet Bridge	3.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
H3			I3	Mentone Reser. Level (23.0)	18.8	Y3	Crafton Reser. Level (21.3)	18.0

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4	26		I4	36,079	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	**SAR-MC**	N4	0		O4	0	
B4	**Santa Ana River**	**SWP**	F4	43		J4	43	
C4	**Mill Creek**	**MC**	G4	26		K4	15,523	18,000
D4	**Mill Creek**	**SWP**	H4	0		L4	1,434	714
	SBVMWD	**SWP**		0			0	
	WMWD	**SWP**						

	SAR Passing Cuttle Weir	**SAR**	0	**Share of Lost Flow**	0	**SARP**	**Estimate SAR Recharge [18]**	0
	Mill Creek Passing Garnet	**MC**	3	**Share of Lost Flow**	0	**MCRP**	**Estimate Mill Creek Recharge [19]**	3
	Flow in the River Above Alabama	**Total**	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: August 22, 2011

Time: 0730

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	0.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	0.5	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.5
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	0.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	0.5	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	0.5

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation**	2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	32.4	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	3.2
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	3.3
(+)F1	Greenspot Spill	0.4	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.5
A4	**SAR Inflow-SubTotal-1**	39.3	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	14.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.5
Z1	**SOD ReleaseSubTotal D1+E1**	14.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	6.6
(Σ)G1	**SubTotal 1+2 SAR Inflows**	53.3	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.0
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	0.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	53.3	W1	Redlands Aqueduct / Sandbox	26.9	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	14.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	6.6
I1	Redlands Tunnel	0.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	14.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	53.3
L1	SCE SAR AVM (SCADA)	39.7						

Mill Creek				Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
	Inflows	Flow Rate (cfs)	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	10.5
(+) A3	RPU Flow	14.7	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	13.4
(+) B3	M/C #3 Penstock	17.3	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.6	(+)L3	East Weir (MC)	13.4	(+)S3	East Weir to Zanja	8.1
(Σ) D3	**Total MC Inflows**	32.6	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	32.0
E3	M/C #1 Penstock Flow	32.0	(+)C3	Mill Creek Diversion (MC)	0.6	U3	**Total MC Deliveries**	32.6
F3	Stream Parshall Flume to Yucaipa	0.0	(Σ)O3	**SBVWCD Spreading**	14.0	V3	Zanja West Weir to CWC Canal	6.2
G3	Observation at Garnet Bridge	3.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.4
H3			I3	Mentone Reser. Level (23.0)	19.0	Y3	Crafton Reser. Level (21.3)	19.7

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	SAR	E4	111		I4	36,053	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	SAR-MC	N4	0		O4	0	
B4	**Santa Ana River**	SWP	F4	0		J4	0	
C4	**Mill Creek**	MC	G4	88		K4	15,498	18,000
D4	**Mill Creek**	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	**Share of Lost Flow**	0	SARP	**Estimate SAR Recharge** [18]	0
	Mill Creek Passing Garnet	MC	3	**Share of Lost Flow**	0	MCRP	**Estimate Mill Creek Recharge** [19]	3
	Flow in the River Above Alabama	Total	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

Santa Ana River-Mill Creek Cooperative Water Project

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Date: August 19, 2011

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State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	0.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	6.5	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.6
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	5.9	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	6.5	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	6.5

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation**	2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	20.7	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.4
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	5.1
(+)F1	Greenspot Spill	0.4	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.5
A4	**SAR Inflow-SubTotal-1**	27.6	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	23.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.5
Z1	**SOD ReleaseSubTotal D1+E1**	23.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	7.1
(Σ)G1	**SubTotal 1+2 SAR Inflows**	50.6	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.8
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	1.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	50.6	W1	Redlands Aqueduct / Sandbox	12.9	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	23.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	7.9
I1	Redlands Tunnel	0.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	23.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	50.6
L1	SCE SAR AVM (SCADA)	28.1						

Mill Creek				Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
	Inflows	Flow Rate (cfs)	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	12.0
(+) A3	RPU Flow	14.3	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	14.0
(+) B3	M/C #3 Penstock	18.1	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) C3	SBVWCD Mill Creek Diversion	2.0	(+)L3	East Weir (MC)	14.0	(+)S3	East Weir to Zanja	6.4
(Σ) D3	**Total MC Inflows**	34.4	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	32.4
E3	M/C #1 Penstock Flow	32.4	(+)C3	Mill Creek Diversion (MC)	2.0	U3	**Total MC Deliveries**	34.4
F3	Stream Parshall Flume to Yucaipa	0.0	(Σ)O3	**SBVWCD Spreading**	16.0	V3	Zanja West Weir to CWC Canal	4.4
G3	Observation at Garnet Bridge	3.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.9
H3			I3	Mentone Reser. Level (23.0)	22.4	Y3	Crafton Reser. Level (21.3)	17.8

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	SAR	E4	46		I4	35,942	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	SAR-MC	N4	0		O4	0	
B4	**Santa Ana River**	SWP	F4	0		J4	0	
C4	**Mill Creek**	MC	G4	32		K4	15,410	18,000
D4	**Mill Creek**	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	**Share of Lost Flow**	0	SARP	**Estimate SAR Recharge [18]**	0
	Mill Creek Passing Garnet	MC	3	**Share of Lost Flow**	0	MCRP	**Estimate Mill Creek Recharge [19]**	3
	Flow in the River Above Alabama	Total	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: August 18, 2011

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	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	0.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	6.6	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.6
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	6.6	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	6.6

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation** 2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	19.1	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	0.5
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	6.0
(+)F1	Greenspot Spill	0.5	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.5
A4	**SAR Inflow-SubTotal-1**	26.1	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	23.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.5
Z1	**SOD ReleaseSubTotal D1+E1**	23.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	6.6
(Σ)G1	**SubTotal 1+2 SAR Inflows**	49.1	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.8
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	0.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	49.1	W1	Redlands Aqueduct / Sandbox	12.9	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	23.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	7.4
I1	Redlands Tunnel	0.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	23.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	49.1
L1	SCE SAR AVM (SCADA)	29.6						

Mill Creek				Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
	Inflows	Flow Rate (cfs)	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	10.8
(+) A3	RPU Flow	15.2	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	14.1
(+) B3	M/C #3 Penstock	19.5	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) C3	SBVWCD Mill Creek Diversion	2.9	(+)L3	East Weir (MC)	14.1	(+)S3	East Weir to Zanja	9.8
(Σ) D3	**Total MC Inflows**	37.6	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	34.7
E3	M/C #1 Penstock Flow	34.7	(+)C3	Mill Creek Diversion (MC)	2.9	U3	**Total MC Deliveries**	37.6
F3	Stream Parshall Flume to Yucaipa	0.0	(Σ)O3	**SBVWCD Spreading**	17.0	V3	Zanja West Weir to CWC Canal	6.4
G3	Observation at Garnet Bridge	3.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.3
H3			I3	Mentone Reser. Level (23.0)	22.6	Y3	Crafton Reser. Level (21.3)	18.0

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4	46		I4	35,896	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	**SAR-MC**	N4	0		O4	0	
B4	**Santa Ana River**	**SWP**	F4	0		J4	0	
C4	**Mill Creek**	**MC**	G4	36		K4	15,378	18,000
D4	**Mill Creek**	**SWP**	H4	0		L4	1,434	714
	SBVMWD	**SWP**		0			0	
	WMWD	**SWP**						

	SAR Passing Cuttle Weir	**SAR**	0	**Share of Lost Flow**	0	**SARP**	**Estimate SAR Recharge** [18]	0
	Mill Creek Passing Garnet	**MC**	3	**Share of Lost Flow**	0	**MCRP**	**Estimate Mill Creek Recharge** [19]	3
	Flow in the River Above Alabama	**Total**	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: August 17, 2011

Time: 0745

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	0.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	0.6	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.6
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	0.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	0.6	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	0.6

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation**	2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	22.0	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	0.0
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	6.5
(+)F1	Greenspot Spill	0.0	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.5
A4	**SAR Inflow-SubTotal-1**	28.5	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	23.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.5
Z1	**SOD ReleaseSubTotal D1+E1**	23.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	6.6
(Σ)G1	**SubTotal 1+2 SAR Inflows**	51.5	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.8
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	0.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	51.5	W1	Redlands Aqueduct / Sandbox	15.3	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	23.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	7.4
I1	Redlands Tunnel	0.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	23.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	51.5
L1	SCE SAR AVM (SCADA)	27.6						

Mill Creek				Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
	Inflows	Flow Rate (cfs)	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	10.8
(+) A3	RPU Flow	13.0	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	17.4
(+) B3	M/C #3 Penstock	21.6	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) C3	SBVWCD Mill Creek Diversion	3.6	(+)L3	East Weir (MC)	17.4	(+)S3	East Weir to Zanja	6.4
(Σ) D3	**Total MC Inflows**	38.2	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	34.6
E3	M/C #1 Penstock Flow	34.6	(+)C3	Mill Creek Diversion (MC)	3.6	U3	**Total MC Deliveries**	38.2
F3	Stream Parshall Flume to Yucaipa	0.0	(Σ)O3	**SBVWCD Spreading**	21.0	V3	Zanja West Weir to CWC Canal	3.5
G3	Observation at Garnet Bridge	3.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
H3			I3	Mentone Reser. Level (23.0)	19.7	Y3	Crafton Reser. Level (21.3)	18.0

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	SAR	E4	46		I4	35,851	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	SAR-MC	N4	0		O4	0	
B4	**Santa Ana River**	SWP	F4	0		J4	0	
C4	**Mill Creek**	MC	G4	41		K4	15,342	18,000
D4	**Mill Creek**	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	**Share of Lost Flow**	0	SARP	**Estimate SAR Recharge** [18]	0
	Mill Creek Passing Garnet	MC	3	**Share of Lost Flow**	0	MCRP	**Estimate Mill Creek Recharge** [19]	3
	Flow in the River Above Alabama	Total	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: August 16, 2011

Time: 0730

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	0.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	1.3	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.7
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	0.0	(+)T	[1]Newport for BVMWC	0.6
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	1.3	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	1.3

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation**	2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	21.6	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	0.3
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	6.2
(+)F1	Greenspot Spill	0.0	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.5
A4	**SAR Inflow-SubTotal-1**	28.1	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	22.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.5
Z1	**SOD ReleaseSubTotal D1+E1**	22.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	6.4
(Σ)G1	**SubTotal 1+2 SAR Inflows**	50.1	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.0
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	0.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	50.1	W1	Redlands Aqueduct / Sandbox	15.9	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	22.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	6.4
I1	Redlands Tunnel	0.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	22.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	50.1
L1	SCE SAR AVM (SCADA)	27.2						

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	13.6	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	9.3
(+) B3	M/C #3 Penstock	19.6	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	17.5
(+) C3	SBVWCD Mill Creek Diversion	1.5	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	34.7	(+)L3	East Weir (MC)	17.5	(+)S3	East Weir to Zanja	6.4
E3	M/C #1 Penstock Flow	33.2	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	33.2
F3	Stream Parshall Flume to Yucaipa	0.0	(+)C3	Mill Creek Diversion (MC)	1.5	U3	**Total MC Deliveries**	34.7
G3	Observation at Garnet Bridge	3.0	(Σ)O3	**SBVWCD Spreading**	19.0	V3	Zanja West Weir to CWC Canal	3.9
H3			I3	Mentone Reser. Level (23.0)	18.6	W3	Mill Creek PH #2,3 Afterbay Spill	0.0
						Y3	Crafton Reser. Level (21.3)	19.8

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	SAR	E4	41		I4	35,805	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	SAR-MC	N4	0		O4	0	
B4	**Santa Ana River**	SWP	F4	0		J4	0	
C4	**Mill Creek**	MC	G4	38		K4	15,302	18,000
D4	**Mill Creek**	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	**Share of Lost Flow**	0	SARP	**Estimate SAR Recharge [18]**	0
	Mill Creek Passing Garnet	MC	3	**Share of Lost Flow**	0	MCRP	**Estimate Mill Creek Recharge [19]**	3
	Flow in the River Above Alabama	Total	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: August 15, 2011

Time: 0800

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	0.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	1.6	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.8
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	0.0	(+)T	[1]Newport for BVMWC	0.8
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	1.6	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	1.6

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation**	2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	26.9	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	3.1
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	3.4
(+)F1	Greenspot Spill	0.8	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.5
A4	**SAR Inflow-SubTotal-1**	34.2	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	18.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.5
Z1	**SOD ReleaseSubTotal D1+E1**	18.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	6.6
(Σ)G1	**SubTotal 1+2 SAR Inflows**	52.2	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.0
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	0.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	52.2	W1	Redlands Aqueduct / Sandbox	21.8	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	18.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	6.6
I1	Redlands Tunnel	0.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	18.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	52.2
L1	SCE SAR AVM (SCADA)	NA						

Mill Creek				Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
	Inflows	Flow Rate (cfs)	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	12.4
(+) A3	RPU Flow	14.1	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	12.5
(+) B3	M/C #3 Penstock	17.7	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) C3	SBVWCD Mill Creek Diversion	5.5	(+)L3	East Weir (MC)	12.5	(+)S3	East Weir to Zanja	6.9
(Σ) D3	**Total MC Inflows**	37.3	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	31.8
E3	M/C #1 Penstock Flow	31.8	(+)C3	Mill Creek Diversion (MC)	5.5	U3	**Total MC Deliveries**	37.3
F3	Stream Parshall Flume to Yucaipa	0.0	(Σ)O3	**SBVWCD Spreading**	18.0	V3	Zanja West Weir to CWC Canal	3.5
G3	Observation at Garnet Bridge	3.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
H3			I3	Mentone Reser. Level (23.0)	19.6	Y3	Crafton Reser. Level (21.3)	20.8

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	SAR	E4	107		I4	35,764	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	SAR-MC	N4	0		O4	0	
B4	**Santa Ana River**	SWP	F4	0		J4	0	
C4	**Mill Creek**	MC	G4	106		K4	15,264	18,000
D4	**Mill Creek**	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	**Share of Lost Flow**	0	SARP	**Estimate SAR Recharge** [18]	0
	Mill Creek Passing Garnet	MC	3	**Share of Lost Flow**	0	MCRP	**Estimate Mill Creek Recharge** [19]	3
	Flow in the River Above Alabama	Total	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: August 5, 2011

Time: 0715

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	0.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	8.0
(+)D	Purchased Water	15.0	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	1.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	15.0	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	15.0

Santa Ana River — **SOD Reservoir Elevation** NA — **Debris Pool Elevation** 2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	25.2	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.8
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	4.7
(+)F1	Greenspot Spill	1.5	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.5
A4	**SAR Inflow-SubTotal-1**	33.2	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	19.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.5
Z1	**SOD ReleaseSubTotal D1+E1**	19.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	6.6
(Σ)G1	**SubTotal 1+2 SAR Inflows**	52.2	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	1.0
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	1.5	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	52.2	W1	Redlands Aqueduct / Sandbox	18.4	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	19.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	7.6
I1	Redlands Tunnel	0.8	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	19.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	52.2
L1	SCE SAR AVM (SCADA)	NA						

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
			(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	0.0
			(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) A3	RPU Flow	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) B3	M/C #3 Penstock	0.0	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	0.0
(+) C3	SBVWCD Mill Creek Diversion	43.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	0.0
(Σ) D3	**Total MC Inflows**	43.0	(+)C3	Mill Creek Diversion (MC)	43.0	U3	**Total MC Deliveries**	43.0
E3	M/C #1 Penstock Flow	0.0	(Σ)O3	**SBVWCD Spreading**	43.0	V3	Zanja West Weir to CWC Canal	0.0
F3	Stream Parshall Flume to Yucaipa	0.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
G3	Observation at Garnet Bridge	3.0						
H3			I3	Mentone Reser. Level (23.0)	21.5	Y3	Crafton Reser. Level (21.3)	10.3

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	SAR	E4	38		I4	35,391	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	SAR-MC	N4	0		O4	0	
B4	**Santa Ana River**	SWP	F4	0		J4	0	
C4	**Mill Creek**	MC	G4	85		K4	14,769	18,000
D4	**Mill Creek**	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	**Share of Lost Flow**	0	SARP	**Estimate SAR Recharge [18]**	0
	Mill Creek Passing Garnet	MC	3	**Share of Lost Flow**	0	MCRP	**Estimate Mill Creek Recharge [19]**	3
	Flow in the River Above Alabama	Total	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: August,4 2011

Time: 0730 REVISED

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	0.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	9.0
(+)D	Purchased Water	1.0	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	1.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	0.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	1.0	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	10.0

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation**	2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	22.1	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.3
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	4.2
(+)F1	Greenspot Spill	1.7	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.5
A4	**SAR Inflow-SubTotal-1**	30.3	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	20.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.5
Z1	**SOD ReleaseSubTotal D1+E1**	20.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	7.4
(Σ)G1	**SubTotal 1+2 SAR Inflows**	50.3	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	1.2
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	0.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	50.3	W1	Redlands Aqueduct / Sandbox	16.0	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	20.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	8.6
I1	Redlands Tunnel	0.8	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	20.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	50.3
L1	SCE SAR AVM (SCADA)	31.2						

Mill Creek				Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
	Inflows	Flow Rate (cfs)	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	0.0
(+) A3	RPU Flow	0.0	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) B3	M/C #3 Penstock	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) C3	SBVWCD Mill Creek Diversion	44.0	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	0.0
(Σ) D3	**Total MC Inflows**	44.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	0.0
E3	M/C #1 Penstock Flow	0.0	(+)C3	Mill Creek Diversion (MC)	44.0	U3	**Total MC Deliveries**	44.0
F3	Stream Parshall Flume to Yucaipa	0.0	(Σ)O3	**SBVWCD Spreading**	44.0	V3	Zanja West Weir to CWC Canal	0.0
G3	Observation at Garnet Bridge	3.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
H3			I3	Mentone Reser. Level (23.0)	20.6	Y3	Crafton Reser. Level (21.3)	13.0

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	SAR	E4	40		I4	35,353	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	SAR-MC	N4	0		O4	0	
B4	**Santa Ana River**	SWP	F4	0		J4	0	
C4	**Mill Creek**	MC	G4	87		K4	14,684	18,000
D4	**Mill Creek**	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	**Share of Lost Flow**	0	SARP	**Estimate SAR Recharge** [18]	0
	Mill Creek Passing Garnet	MC	3	**Share of Lost Flow**	0	MCRP	**Estimate Mill Creek Recharge** [19]	3
	Flow in the River Above Alabama	Total	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: August,3 2011

Time: 0745 REVISED

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	0.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	9.0
(+)D	Purchased Water	0.0	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	0.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	0.0	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	9.0

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation** 2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	35.8	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.0	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.4
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	4.6
(+)F1	Greenspot Spill	0.0	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.0
A4	**SAR Inflow-SubTotal-1**	41.8	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	18.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.0
Z1	**SOD ReleaseSubTotal D1+E1**	18.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	6.6
(Σ)G1	**SubTotal 1+2 SAR Inflows**	59.8	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	1.0
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	0.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	59.8	W1	Redlands Aqueduct / Sandbox	28.0	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	18.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	7.6
I1	Redlands Tunnel	0.8	Y1	Redlands Sandbox Spill	1.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	18.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	59.8
L1	SCE SAR AVM (SCADA)	42.6						

Mill Creek				Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
	Inflows	Flow Rate (cfs)	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	0.0
(+) A3	RPU Flow	0.0	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) B3	M/C #3 Penstock	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) C3	SBVWCD Mill Creek Diversion	44.0	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	0.0
(Σ) D3	**Total MC Inflows**	44.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	0.0
E3	M/C #1 Penstock Flow	0.0	(+)C3	Mill Creek Diversion (MC)	44.0	U3	**Total MC Deliveries**	44.0
F3	Stream Parshall Flume to Yucaipa	0.0	(Σ)O3	**SBVWCD Spreading**	44.0	V3	Zanja West Weir to CWC Canal	0.0
G3	Observation at Garnet Bridge	3.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
H3			I3	Mentone Reser. Level (23.0)	20.8	Y3	Crafton Reser. Level (21.3)	14.6

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	SAR	E4	36		I4	35,314	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	SAR-MC	N4	0		O4	0	
B4	**Santa Ana River**	SWP	F4	0		J4	0	
C4	**Mill Creek**	MC	G4	87		K4	14,597	18,000
D4	**Mill Creek**	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	**Share of Lost Flow**	0	SARP	**Estimate SAR Recharge** [18]	0
	Mill Creek Passing Garnet	MC	3	**Share of Lost Flow**	0	MCRP	**Estimate Mill Creek Recharge** [19]	3
	Flow in the River Above Alabama	Total	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

Santa Ana River-Mill Creek Cooperative Water Project

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	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	0.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	9.0
(+)D	Purchased Water	0.0	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	0.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	0.0	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	9.0

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation**	2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	39.8	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.0	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.8
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	4.2
(+)F1	Greenspot Spill	0.0	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.0
A4	**SAR Inflow-SubTotal-1**	45.8	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	18.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.0
Z1	**SOD ReleaseSubTotal D1+E1**	18.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	6.6
(Σ)G1	**SubTotal 1+2 SAR Inflows**	63.8	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	1.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	63.8	W1	Redlands Aqueduct / Sandbox	32.1	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	18.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	7.5
I1	Redlands Tunnel	0.8	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	18.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	63.8
L1	SCE SAR AVM (SCADA)	47.2						

Mill Creek				Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
	Inflows	Flow Rate (cfs)	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	0.0
(+) A3	RPU Flow	0.0	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) B3	M/C #3 Penstock	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) C3	SBVWCD Mill Creek Diversion	44.0	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	0.0
(Σ) D3	**Total MC Inflows**	44.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	0.0
E3	M/C #1 Penstock Flow	0.0	(+)C3	Mill Creek Diversion (MC)	44.0	U3	**Total MC Deliveries**	44.0
F3	Stream Parshall Flume to Yucaipa	0.0	(Σ)O3	**SBVWCD Spreading**	44.0	V3	Zanja West Weir to CWC Canal	0.0
G3	Observation at Garnet Bridge	3.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
H3			I3	Mentone Reser. Level (23.0)	18.6	Y3	Crafton Reser. Level (21.3)	17.2

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	SAR	E4	36		I4	35,278	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	SAR-MC	N4	0		O4	0	
B4	**Santa Ana River**	SWP	F4	0		J4	0	
C4	**Mill Creek**	MC	G4	87		K4	14,509	18,000
D4	**Mill Creek**	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	**Share of Lost Flow**	0	SARP	**Estimate SAR Recharge** [18]	0
	Mill Creek Passing Garnet	MC	3	**Share of Lost Flow**	0	MCRP	**Estimate Mill Creek Recharge** [19]	3
	Flow in the River Above Alabama	Total	3	**Flowing Beyond Alabama**	0		**Total River Recharge**	3

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	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	0.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	0.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	0.0	(+)R	[1]Tate Treatment Plant	9.0
(+)D	Purchased Water	0.0	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	0.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	0.0	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	9.0

Santa Ana River	**SOD Reservoir Elevation**	NA	**Debris Pool Elevation**	2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	30.4	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	6.0	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	3.2
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.8
(+)F1	Greenspot Spill	0.0	(+)P1	SBVWCD Mill Creek Spreading	0.0	+)(Σ)D2	Boullioun Box Weir	6.0
A4	**SAR Inflow-SubTotal-1**	36.4	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(+)D1	BVMWC Rvr PU-USGS, Flume	0.0	(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	20.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	6.0
Z1	**SOD ReleaseSubTotal D1+E1**	20.0	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	6.6
(Σ)G1	**SubTotal 1+2 SAR Inflows**	56.4	(Σ) C1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
(-)D1a	If BV p/u gated, divert to SAR= "Y"		(+)V1	PH#3 Afterbay SpillLoss to SAR	1.0	(+) J2	Tailrace Valve	0.0
(Σ)A5	**Total SAR Inflows**	56.4	W1	Redlands Aqueduct / Sandbox	12.7	(+)K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	20.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	7.5
I1	Redlands Tunnel	0.8	Y1	Redlands Sandbox Spill	10.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	20.0
J1	[a]Big Bear Lake Release	1.0	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
K1	PH#3 Penstock (SCADA)	NA				(Σ)N2	[1)]**Total SAR Deliveries**	56.4
L1	SCE SAR AVM (SCADA)	56.8						

Mill Creek				Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
	Inflows	Flow Rate (cfs)	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	0.0
(+) A3	RPU Flow	0.0	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) B3	M/C #3 Penstock	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	0.0
(Σ) D3	**Total MC Inflows**	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	0.0
E3	M/C #1 Penstock Flow	0.0	(+)C3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	0.0
F3	Stream Parshall Flume to Yucaipa	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	0.0
G3	Observation at Garnet Bridge	47.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
H3			I3	Mentone Reser. Level (23.0)	19.7	Y3	Crafton Reser. Level (21.3)	18.5

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	SAR	E4	119		I4	35,242	10400/50000
M4	**Santa Ana Rvr to Mill Creek**	SAR-MC	N4	0		O4	0	
B4	**Santa Ana River**	SWP	F4	0		J4	0	
C4	**Mill Creek**	MC	G4	16		K4	14,422	18,000
D4	**Mill Creek**	SWP	H4	0		L4	1,434	714
	SBVMWD	SWP		0			0	
	WMWD	SWP						

	SAR Passing Cuttle Weir	SAR	0	**Share of Lost Flow**	0	SARP	**Estimate SAR Recharge** [18]	0
	Mill Creek Passing Garnet	MC	47	**Share of Lost Flow**	0	MCRP	**Estimate Mill Creek Recharge** [19]	47
	Flow in the River Above Alabama	Total	47	**Flowing Beyond Alabama**	0		**Total River Recharge**	47