

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 2/25/2019

Time: 7:10:00 AM

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

| Mill Creek | | Flow Rate (cfs) |
|------------|----------------------------|-----------------|
| D3 | Total MC Inflows | 10.0 |
| U3 | Total MC Deliveries | 10.0 |
| K3 | Yucaipa Pipeline | 0.0 |
| O3 | SBVWCD Spreading | 10.0 |
| T3 | MC #1 Flow (Cooley Hat) | 0.0 |

| State Water Project | | Flow Rate (cfs) |
|---------------------|-----------------------------|-----------------|
| G | Total SWP Inflows | 104.6 |
| V | Total SWP Deliveries | 104.6 |
| J | Northfork Canal | 0.0 |
| L | Redlands Aqueduct | 0.0 |
| M | Crafton Unger Lane | 0.0 |
| T | Newport to BVMWC | 0.0 |

| Reservoir Levels | Feet |
|--------------------------------|--------|
| Observation at SOD | 2292.1 |
| Crafton Reservoir Level (21.3) | 13.5 |
| Mentone Reservoir Level | 19.5 |

| 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 | 2,775 | 176,000 |
| Santa Ana River to Mill Creek | SAR-MC | 201 | 0 |
| Santa Ana River | SWP | 4,540 | 0 |
| Mill Creek | MC | 1,751 | 106,000 |
| Mill Creek | SWP | 0 | 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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Date: 2/25/2019
Time: 7:10:00 AM

State Water Project

| Inflows | | | Deliveries | | | | | | | | |
|---------|--------------------------------|--------------|------------|-----------------------|-------|---|----------------------|-----|---|-----------------------------|--------------|
| A | BBMWD In-lieu | 0.0 | H | EVWDD 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 | 101.6 | 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 | 104.6 | 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 | 104.6 |
| F | Recharge Project | 0.0 | | | | | | | | | |
| G | Total SWP Inflows | 104.6 | | | | | | | | | |

Santa Ana River Inflows

| SAR PH #3 Penstock (calc) | | | BVMWC Highline | | | SOD Release Subtotal | | | Total SAR Inflows | | |
|---------------------------|----------------------------------|------------|----------------|-------------------------------|------------|----------------------|---------------------------------|------------|--------------------------|---------------------------|--------------------------|
| G2 | Northfork Canal Weir | 0.0 | A2 | Newport | 0.0 | D1 | BVMWC River PU (USGS) | 0.0 | A1 | SAR PH #3 Penstock (calc) | 0.0 |
| H2 | Edwards Canal | 0.0 | D2 | Boullioun Box Weir | 0.0 | E1 | Main River Gage (USGS) | 0.0 | B1 | BVMWC Highline | 0.0 |
| J2 | Tailrace Valve to Parshall Flume | 0.0 | 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) | 0.0 |
| V1 | PH#3 Afterbay SpillLoss to SAR | 0.0 | B1 | BVMWC Highline | 0.0 | Z1 | SOD Release Subtotal | 0.0 | E1 | Main River Gage (USGS) | 0.0 |
| W1 | Redlands Aqueduct / Sandbox | 0.5 | | | | | | | D1a | BV Pick-Up gated | <input type="checkbox"/> |
| Y1 | Redlands Sandbox Spill | 0.0 | Other | | | | | | A5 | Total SAR Inflows | 0.0 |
| minus | | | J1 | Big Bear Lake Release | 0.5 | w | Observation at SOD | 2292.1 | Edison Generation | | |
| D1 | BVMWC River PU (USGS) | 0.0 | L1 | SCE SAR AVM (SCADA) | 0.0 | x | SOD Reservoir Elevation (scada) | 2286.1 | SAR PH#1 Generating | <input type="checkbox"/> | |
| I1 | Redlands Tunnel | 0.5 | X1 | SAR-MC Spread (Red. Aqueduct) | 0.0 | y | Debris Pool Elevation | N/A | SAR PH#3 Generating | <input type="checkbox"/> | |
| 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 | 0.0 | J2 | Tailrace Valve to Parshall Flume | 0.0 | V1 | SAR PH #3 Afterbay Spill | 0.0 | |
| N1 | BVMWC Highline | 0.0 | H2 | Edwards Canal | 0.0 | K2 | Northfork Parshall Flume | 0.0 | W1 | Redlands Aqueduct / Sandbox | 0.5 | |
| O1 | Newport for BVMWC | 0.0 | J2 | Tailrace Valve to Parshall Flume | 0.0 | H1 | SBVWCD Diversion | 0.0 | Y1 | Redlands Sandbox Spill | 0.0 | |
| P1 | SBVWCD Mill Creek Spreading | 0.0 | K2 | Northfork Parshall Flume | 0.0 | L2 | SBVWCD Parshall Flume | 0.0 | Z2 | Cuttle Weir To River | 0.0 | |
| Q1 | Crafton WC Unger Lane | 0.0 | I2 | Tailrace Pipeline | 0.0 | Parshall Flume (SCADA) | | | 0.0 | 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 | 0.0 | |
| T1 | Tate Pump Station to Zanja | 0.0 | | | | | | | L2 | SBVWCD Parshall Flume | 0.0 | |
| C1 | Greenspot Pipeline | 0.0 | | | | | | | minus | | | |
| | | | | | | | | | J2 | Tailrace Valve to Parshall Flume | 0.0 | |
| | | | | | | | | | K2 | Northfork Parshall Flume | 0.0 | |
| | | | | | | | | | I1 | Redlands Tunnel | 0.5 | |
| | | | | | | | | | N2 | Total SAR Deliveries | 0.0 | |

| Irrigation | | |
|--------------|---------------------|------------|
| D2 | Boullioun Box Weir | 0.0 |
| N | BVMWC Boullioun Box | 0.0 |
| minus | | |
| B2 | Gay Overflow | 0.0 |
| C2 | Irrigation | 0.0 |

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 | 10.0 | G3 | Observation at Garnet | 0.0 |
| D3 | Total MC Inflows | 10.0 | | | |

Mill Creek Deliveries

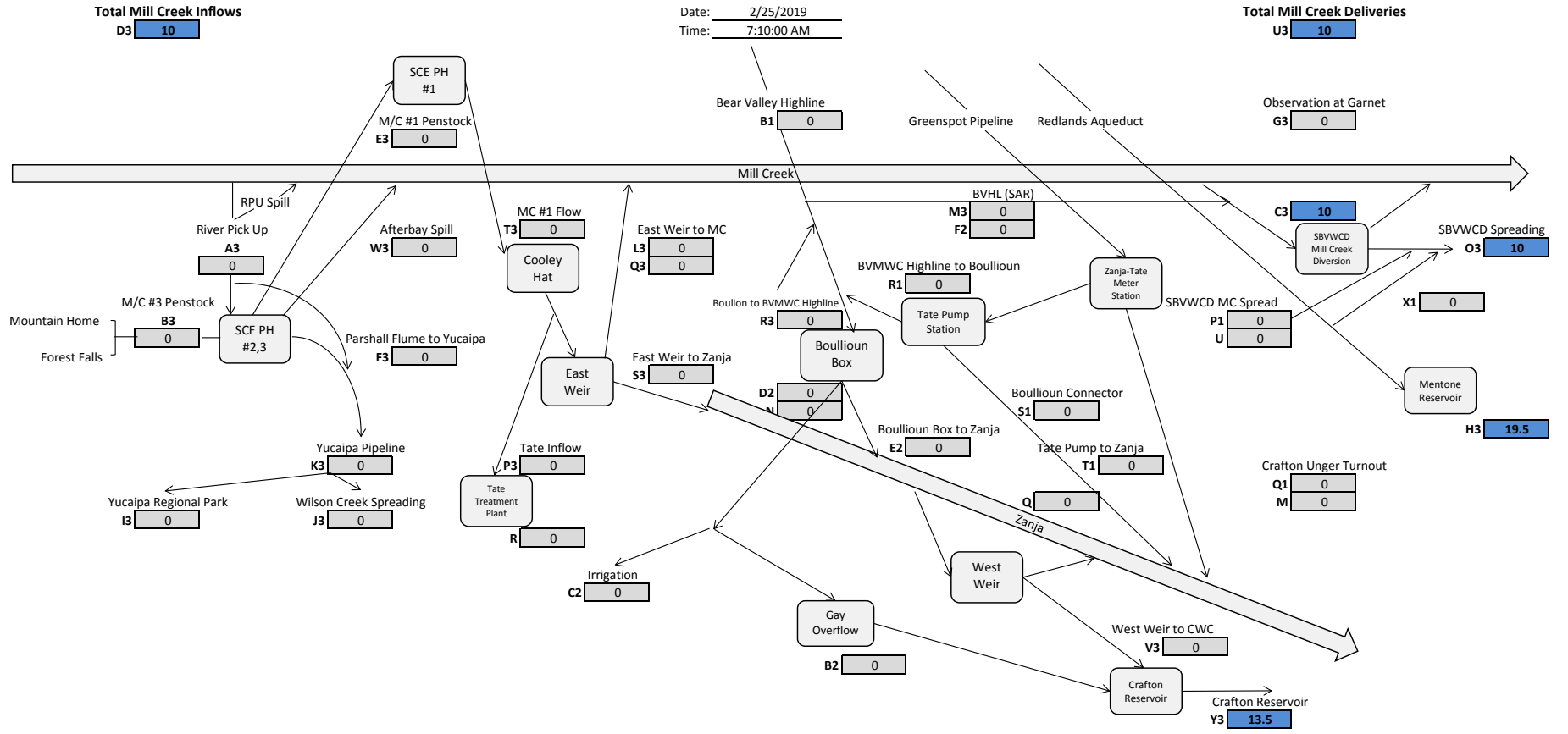
| Yucaipa Pipeline | | | MC #1 Flow (Cooley Hat) | | | Total MC Deliveries | | | Other | | |
|------------------|-------------------------|------------|-------------------------|--------------------------------|------------|---------------------|---------------------------------|-------------|-------|-----------------------------------|------|
| | Yucaipa Regional Park | 0.0 | P3 | Tate Inflow | 0.0 | C3 | SBVWCD Mill Creek Diversion | 10.0 | H3 | Mentone Reservoir Level | 19.5 |
| 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 | 10.0 | 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 |
| | | | N3 | Cooley Hat (SCADA) | 0.0 | | | | Y3 | Crafton Reservoir Level (21.3) | 13.5 |

| SBVWCD MC Spreading | | |
|---------------------|-------------------------------|-------------|
| C3 | SBVWCD Mill Creek Diversion | 10.0 |
| L3 | East Weir (MC) | 0.0 |
| M3 | BVHL (SAR) | 0.0 |
| X1 | SAR-MC Spread (Red. Aqueduct) | 0.0 |
| O3 | SBVWCD MC Spreading | 10.0 |

SBVWCD Recharge

| Location | Type | Previous Day (AF) | | WY To Date (AF) | | Target | Calendar Year To Date (AF) | | Target |
|---------------------------------|-----------------------------|-------------------------------|-------|--------------------------------|---------|---------|-----------------------------------|---------|---------|
| A4 | Santa Ana River | E4 | 0.0 | I4 | 2,774.8 | 176,000 | I4 | 2,704.0 | 176,000 |
| M4 | Santa Ana Rvr to Mill Creek | N4 | 0.0 | O4 | 200.5 | | O4 | 109.0 | |
| B4 | Santa Ana River | F4 | 500.0 | J4 | 4,539.9 | | J4 | 3,524.7 | |
| C4 | Mill Creek | G4 | 88.8 | K4 | 1,751.4 | 106,000 | K4 | 1,138.9 | 106,000 |
| D4 | Mill Creek | H4 | 0.0 | L4 | 0.0 | | L4 | 0.0 | |
| | 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 | |
| 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 | |

Santa Ana River - Mill Creek Cooperative Water Project Mill Creek Stations



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Santa Ana Stations

