

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 3/12/2020

Time: 6:30:00 AM

| Santa Ana River |                             | Flow Rate (cfs) |
|-----------------|-----------------------------|-----------------|
| <b>A5</b>       | <b>Total SAR Inflows</b>    | 7.2             |
| <b>N2</b>       | <b>Total SAR Deliveries</b> | 7.2             |
| A1              | SAR PH#3 Penstock (calc)    | 0.0             |
| B1              | BVMWC Highline              | 3.4             |
| C1              | Greenspot Pipeline          | 0.0             |
| L2              | SBVWCD Parshall Flume       | 0.0             |
| G2              | North Fork Canal Weir       | 2.0             |
| H2              | Edwards Canal               | 0.0             |
| W1              | Redlands Aqueduct (calc)    | 1.8             |
|                 | Other                       | 0.0             |

| State Water Project |                             | Flow Rate (cfs) |
|---------------------|-----------------------------|-----------------|
| <b>G</b>            | <b>Total SWP Inflows</b>    | 14.0            |
| <b>V</b>            | <b>Total SWP Deliveries</b> | 14.0            |
| J                   | Northfork Canal             | 0.0             |
| L                   | Redlands Aqueduct           | 10.0            |
| M                   | Crafton Unger Lane          | 0.0             |
| T                   | Newport to BVMWC            | 0.0             |

| Mill Creek |                            | Flow Rate (cfs) |
|------------|----------------------------|-----------------|
| <b>D3</b>  | <b>Total MC Inflows</b>    | 20.2            |
| <b>U3</b>  | <b>Total MC Deliveries</b> | 20.2            |
| K3         | Yucaipa Pipeline           | 0.0             |
| O3         | SBVWCD Spreading           | 19.2            |
| T3         | MC #1 Flow (Cooley Hat)    | 20.2            |

| Reservoir Levels               | Feet   |
|--------------------------------|--------|
| Observation at SOD             | 2190.6 |
| Crafton Reservoir Level (21.3) | 18.7   |
| Mentone Reservoir Level        | 21.2   |

| 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    | 2,782           | 105,000 |
| Santa Ana River to Mill Creek | SAR-MC | 1,242           | 0       |
| Santa Ana River               | SWP    | 3,890           | 0       |
| Mill Creek                    | MC     | 2,452           | 63,000  |
| Mill Creek                    | SWP    | 3,251           | 0       |
| Redlands                      | SWP    | 0               | 0       |
| Loma Linda                    | SWP    | 0               | 0       |
| East Valley                   | SWP    | 0               | 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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## Daily Flow Report

Date: 3/12/2020  
Time: 6:30:00 AM

### State Water Project

| Inflows |                                |      | Deliveries |                       |      |   |                      |     |   |                             |     |
|---------|--------------------------------|------|------------|-----------------------|------|---|----------------------|-----|---|-----------------------------|-----|
| A       | BBMWD In-lieu                  | 0.0  | H          | EVWD City Creek       | 4.0  | M | Crafton Unger Lane   | 0.0 | S | SBCFCD Grove                | 0.0 |
| B       | Muni test at Greenspot Station | 0.0  | I          | Santa Ana Low Turnout | 0.0  | 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                | 14.0 | K          | Edwards Canal         | 0.0  | Q | Zanja                | 0.0 | W | Tres Lagos                  | 0.0 |
| E       | Redlands Aqueduct Leakage      | 0.0  | L          | Redlands Aqueduct     | 10.0 | R | Tate Treatment Plant | 0.0 | V | Total SWP Deliveries 14.0   |     |
| F       | Recharge Project               | 0.0  |            |                       |      |   |                      |     |   |                             |     |
| G       | Total SWP Inflows              | 14.0 |            |                       |      |   |                      |     |   |                             |     |

### Santa Ana River Inflows

| SAR PH #3 Penstock (calc) |                                  |     | BVMWC Highline |                               |     | SOD Release Subtotal |                                 |        | Total SAR Inflows   |                                     |                          |
|---------------------------|----------------------------------|-----|----------------|-------------------------------|-----|----------------------|---------------------------------|--------|---------------------|-------------------------------------|--------------------------|
| G2                        | Northfork Canal Weir             | 2.0 | A2             | Newport                       | 0.0 | D1                   | BVMWC River PU (USGS)           | 3.8    | A1                  | SAR PH #3 Penstock (calc)           | 0.0                      |
| H2                        | Edwards Canal                    | 0.0 | D2             | Boullioun Box Weir            | 3.4 | E1                   | Main River Gage (USGS)          | 0.0    | B1                  | BVMWC Highline                      | 3.4                      |
| 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)               | 3.8                      |
| V1                        | PH#3 Afterbay SpillLoss to SAR   | 0.0 | B1             | BVMWC Highline                | 3.4 | Z1                   | SOD Release Subtotal            | 3.8    | E1                  | Main River Gage (USGS)              | 0.0                      |
| W1                        | Redlands Aqueduct / Sandbox      | 2.0 |                |                               |     |                      |                                 |        | D1a                 | BV Pick-Up gated                    | <input type="checkbox"/> |
| Y1                        | Redlands Sandbox Spill           | 0.0 |                |                               |     |                      |                                 |        | A5                  | Total SAR Inflows                   | 7.2                      |
|                           |                                  |     | Other          |                               |     |                      |                                 |        |                     |                                     |                          |
| D1                        | BVMWC River PU (USGS)            | 3.8 | J1             | Big Bear Lake Release         | 0.5 | W                    | Observation at SOD              | 2190.6 |                     |                                     |                          |
| I1                        | Redlands Tunnel                  | 0.2 | L1             | SCE SAR AVM (SCADA)           | 0.0 | X                    | SOD Reservoir Elevation (scada) | N/A    |                     |                                     |                          |
| A1                        | SAR PH #3 Penstock (calc)        | 0.0 | X1             | SAR-MC Spread (Red. Aqueduct) | 0.0 | Y                    | Debris Pool Elevation           | N/A    |                     |                                     |                          |
| K1                        | PH#3 Penstock (SCADA)            | NA  |                |                               |     |                      |                                 |        |                     |                                     |                          |
|                           |                                  |     |                |                               |     |                      |                                 |        | Edison Generation   |                                     |                          |
|                           |                                  |     |                |                               |     |                      |                                 |        | SAR PH#1 Generating | <input checked="" type="checkbox"/> |                          |
|                           |                                  |     |                |                               |     |                      |                                 |        | SAR PH#3 Generating | <input type="checkbox"/>            |                          |

### Santa Ana River Deliveries

| Greenspot Pipeline |                             |     | Tailrace Pipeline |                                  |     | SBVWCD Parshall FlumeTo Basins |                                  |     | Deliveries |                                  |     |
|--------------------|-----------------------------|-----|-------------------|----------------------------------|-----|--------------------------------|----------------------------------|-----|------------|----------------------------------|-----|
| M1                 | SBCFCD Grove                | 0.0 | G2                | Northfork Canal Weir             | 2.0 | 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      | 2.0 |
| 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 | minus                          |                                  |     | Z2         | Cuttle Weir To River             | 0.0 |
| Q1                 | Crafton WC Unger Lane       | 0.0 | I2                | Tailrace Pipeline                | 2.0 |                                | Sedimentation Basin Recharge     | 0.0 | B1         | BVMWC Highline                   | 3.4 |
| R1                 | BVMWC Highline to Boullioun | 0.0 |                   |                                  |     | L2                             | SBVWCD Parshall Flume            | 0.0 | C1         | Greenspot Pipeline               | 0.0 |
| S1                 | Crafton WC Boullioun        | 0.0 | Irrigation        |                                  |     |                                | Parshall Flume (SCADA)           | 0.0 | I2         | Tailrace Pipeline                | 2.0 |
| T1                 | Tate Pump Station to Zanja  | 0.0 | D2                | Boullioun Box Weir               | 3.4 |                                |                                  |     | L2         | SBVWCD Parshall Flume            | 0.0 |
| C1                 | Greenspot Pipeline          | 0.0 | N                 | BVMWC Boullioun Box              | 0.0 |                                |                                  |     | minus      |                                  |     |
|                    |                             |     |                   |                                  |     |                                |                                  |     | J2         | Tailrace Valve to Parshall Flume | 0.0 |
|                    |                             |     |                   |                                  |     |                                |                                  |     | K2         | Northfork Parshall Flume         | 0.0 |
|                    |                             |     |                   |                                  |     |                                |                                  |     | I1         | Redlands Tunnel                  | 0.2 |
|                    |                             |     |                   |                                  |     |                                |                                  |     | N2         | Total SAR Deliveries             | 7.2 |

### Mill Creek Inflows

| Total MC Inflows |                             |      | Other |                                  |      |
|------------------|-----------------------------|------|-------|----------------------------------|------|
| A3               | RPU Flow                    | 9.0  | E3    | M/C #1 Penstock Flow             | 20.2 |
| B3               | M/C #3 Penstock             | 11.2 | 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            | 20.2 |       |                                  |      |

### Mill Creek Deliveries

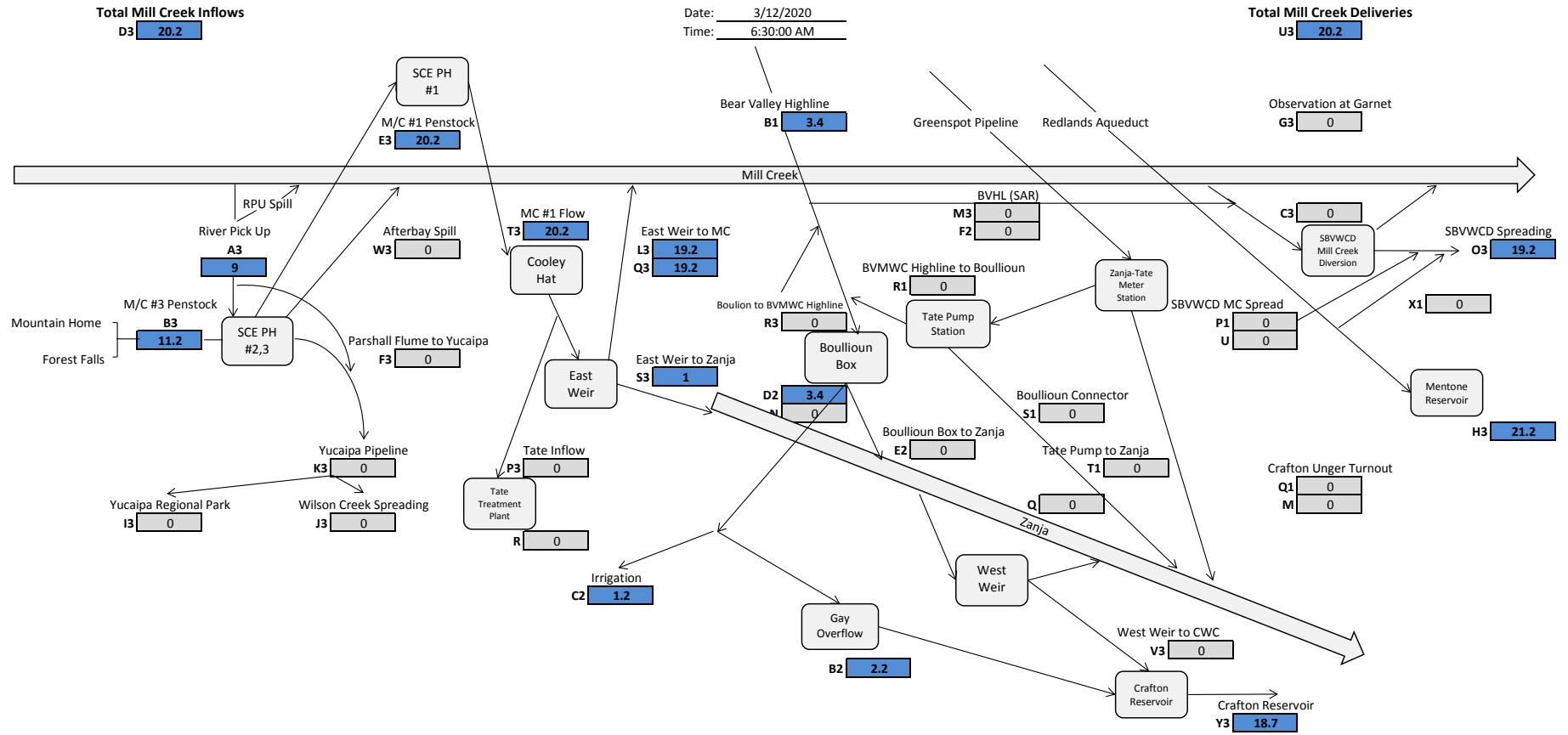
| Yucaipa Pipeline    |                               |      | MC #1 Flow (Cooley Hat) |                         |      | Total MC Deliveries |                                 |      | Other |                                   |      |
|---------------------|-------------------------------|------|-------------------------|-------------------------|------|---------------------|---------------------------------|------|-------|-----------------------------------|------|
|                     | Yucaipa Regional Park         | 0.0  | P3                      | Tate Inflow             | 0.0  | C3                  | SBVWCD Mill Creek Diversion     | 0.0  | H3    | Mentone Reservoir Level           | 21.2 |
| J3                  | Wilson Creek Spreading        | 0.0  | Q3                      | East Weir to Mill Creek | 19.2 | T3                  | Mill Creek #1 Flow (Cooley Hat) | 20.2 | R3    | Boullioun to BVMWC Highline       | 0.0  |
| K3                  | Yucaipa Pipeline              | 0.0  | S3                      | East Weir to Zanja      | 1.0  | U3                  | Total MC Deliveries             | 20.2 | V3    | Zanja West Weir to CWC Canal      | 0.0  |
|                     |                               |      | T3                      | MC #1 Flow (Cooley Hat) | 20.2 |                     |                                 |      | W3    | Mill Creek PH #2,3 Afterbay Spill | 0.0  |
|                     |                               |      | N3                      | Cooley Hat (SCADA)      | 21.9 |                     |                                 |      | Y3    | Crafton Reservoir Level (21.3)    | 18.7 |
|                     |                               |      |                         |                         |      |                     |                                 |      |       |                                   |      |
| SBVWCD MC Spreading |                               |      |                         |                         |      |                     |                                 |      |       |                                   |      |
| C3                  | SBVWCD Mill Creek Diversion   | 0.0  |                         |                         |      |                     |                                 |      |       |                                   |      |
| L3                  | East Weir (MC)                | 19.2 |                         |                         |      |                     |                                 |      |       |                                   |      |
| M3                  | BVHL (SAR)                    | 0.0  |                         |                         |      |                     |                                 |      |       |                                   |      |
| X1                  | SAR-MC Spread (Red. Aqueduct) | 0.0  |                         |                         |      |                     |                                 |      |       |                                   |      |
| O3                  | SBVWCD MC Spreading           | 19.2 |                         |                         |      |                     |                                 |      |       |                                   |      |

### SBVWCD Recharge

| Location                        |                             | Type   | Previous Day (AF)             |      |  | WY To Date (AF) |                                | Target  | Calendar Year To Date (AF) |                                   | Target  |   |
|---------------------------------|-----------------------------|--------|-------------------------------|------|--|-----------------|--------------------------------|---------|----------------------------|-----------------------------------|---------|---|
| A4                              | Santa Ana River             | SAR    | E4                            | 0.0  |  | I4              | 2,782.3                        | 105,000 | I4                         | 321.4                             | 105,000 |   |
| M4                              | Santa Ana Rvr to Mill Creek | SAR-MC | N4                            | 0.0  |  | O4              | 1,242.3                        |         | O4                         | 880.9                             |         |   |
| B4                              | Santa Ana River             | SWP    | F4                            | 0.0  |  | J4              | 3,890.4                        |         | J4                         | 0.0                               |         |   |
| C4                              | Mill Creek                  | MC     | G4                            | 39.1 |  | K4              | 2,451.7                        | 63,000  | K4                         | 1,267.8                           | 63,000  |   |
| D4                              | Mill Creek                  | SWP    | H4                            | 0.0  |  | L4              | 3,251.4                        |         | L4                         | 161.2                             |         |   |
|                                 | Redlands                    | SWP    |                               | 0.0  |  |                 | 0.0                            |         |                            | 0.0                               |         |   |
|                                 | Loma Linda                  | SWP    |                               | 0.0  |  |                 | 0.0                            |         |                            | 0.0                               |         |   |
|                                 | East Valley                 | SWP    |                               | 0.0  |  |                 | 0.0                            |         |                            | 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



## Santa Ana River - Mill Creek Cooperative Water Project

### Santa Ana Stations

