

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 7/29/2020

Time: 7:00:00 AM

| Santa Ana River |                             | Flow Rate (cfs) |
|-----------------|-----------------------------|-----------------|
| <b>A5</b>       | <b>Total SAR Inflows</b>    | 28.0            |
| <b>N2</b>       | <b>Total SAR Deliveries</b> | 28.0            |
| A1              | SAR PH#3 Penstock (calc)    | 0.0             |
| B1              | BVMWC Highline              | 6.1             |
| C1              | Greenspot Pipeline          | 0.0             |
| L2              | SBVWCD Parshall Flume       | 3.2             |
| G2              | North Fork Canal Weir       | 7.1             |
| H2              | Edwards Canal               | 0.9             |
| W1              | Redlands Aqueduct (calc)    | 10.7            |
|                 | Other                       | 0.0             |

| Mill Creek |                            | Flow Rate (cfs) |
|------------|----------------------------|-----------------|
| <b>D3</b>  | <b>Total MC Inflows</b>    | 14.1            |
| <b>U3</b>  | <b>Total MC Deliveries</b> | 14.1            |
| K3         | Yucaipa Pipeline           | 0.0             |
| O3         | SBVWCD Spreading           | 9.4             |
| T3         | MC #1 Flow (Cooley Hat)    | 14.1            |

| State Water Project |                             | Flow Rate (cfs) |
|---------------------|-----------------------------|-----------------|
| <b>G</b>            | <b>Total SWP Inflows</b>    | 7.7             |
| <b>V</b>            | <b>Total SWP Deliveries</b> | 7.7             |
| J                   | Northfork Canal             | 0.0             |
| L                   | Redlands Aqueduct           | 0.0             |
| M                   | Crafton Unger Lane          | 3.9             |
| T                   | Newport to BVMWC            | 0.0             |

| Reservoir Levels               | Feet   |
|--------------------------------|--------|
| Observation at SOD             | 2159.8 |
| Crafton Reservoir Level (21.3) | 17.6   |
| Mentone Reservoir Level        | 21.1   |

| 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    | 15,673          | 176,000 |
| Santa Ana River to Mill Creek | SAR-MC | 1,970           | 0       |
| Santa Ana River               | SWP    | 3,890           | 0       |
| Mill Creek                    | MC     | 5,316           | 106,000 |
| Mill Creek                    | SWP    | 0               | 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.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 7/29/2020  
Time: 7:00:00 AM

### State Water Project

| Inflows |                                |            | Deliveries |                       |     |   |                      |     |   |                             |            |
|---------|--------------------------------|------------|------------|-----------------------|-----|---|----------------------|-----|---|-----------------------------|------------|
| A       | BBMWD In-lieu                  | 3.9        | H          | EVWD City Creek       | 3.8 | M | Crafton Unger Lane   | 3.9 | 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                | 3.8        | 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 | <b>Total SWP Deliveries</b> | <b>7.7</b> |
| F       | Recharge Project               | 0.0        |            |                       |     |   |                      |     |   |                             |            |
| G       | <b>Total SWP Inflows</b>       | <b>7.7</b> |            |                       |     |   |                      |     |   |                             |            |

### Santa Ana River Inflows

| SAR PH #3 Penstock (calc) |                                  | BVMWC Highline |    | SOD Release Subtotal          |            | Total SAR Inflows |                                 |             |     |                           |                          |
|---------------------------|----------------------------------|----------------|----|-------------------------------|------------|-------------------|---------------------------------|-------------|-----|---------------------------|--------------------------|
| G2                        | Northfork Canal Weir             | 7.1            | A2 | Newport                       | 0.0        | D1                | BVMWC River PU (USGS)           | 21.4        | A1  | SAR PH #3 Penstock (calc) | 0.0                      |
| H2                        | Edwards Canal                    | 0.9            | D2 | Boullioun Box Weir            | 6.1        | E1                | Main River Gage (USGS)          | 0.5         | B1  | BVMWC Highline            | 6.1                      |
| J2                        | Tailrace Valve to Parshall Flume | 0.0            | E2 | Boullioun Box to Zanja        | 0.0        |                   | <b>minus</b>                    |             | C1  | Greenspot Pipeline        | 0.0                      |
| K2                        | Northfork Parshall Flume         | 2.7            | F2 | SBVWCD Mill Creek Spreading   | 0.0        | F1                | Greenspot Spill                 | 3.9         | D1  | BVMWC River PU (USGS)     | 21.4                     |
| V1                        | PH#3 Afterbay SpillLoss to SAR   | 0.0            | B1 | <b>BVMWC Highline</b>         | <b>6.1</b> | Z1                | <b>SOD Release Subtotal</b>     | <b>18.0</b> | E1  | Main River Gage (USGS)    | 0.5                      |
| W1                        | Redlands Aqueduct / Sandbox      | 11.0           |    |                               |            |                   |                                 |             | D1a | BV Pick-Up gated          | <input type="checkbox"/> |
| Y1                        | Redlands Sandbox Spill           | 0.0            |    |                               |            |                   |                                 |             | A5  | <b>Total SAR Inflows</b>  | <b>28.0</b>              |
|                           | <b>minus</b>                     |                |    |                               |            |                   |                                 |             |     |                           |                          |
| D1                        | BVMWC River PU (USGS)            | 21.4           |    |                               |            | w                 | Observation at SOD              | 2159.8      |     |                           |                          |
| I1                        | Redlands Tunnel                  | 0.3            | L1 | SCE SAR AVM (SCADA)           | 0.0        | x                 | SOD Reservoir Elevation (scada) | 2159.8      |     |                           |                          |
| A1                        | <b>SAR PH #3 Penstock (calc)</b> | <b>0.0</b>     | X1 | SAR-MC Spread (Red. Aqueduct) | 9.4        | y                 | Debris Pool Elevation           | N/A         |     |                           |                          |
| K1                        | <b>PH3# Penstock (SCADA)</b>     | <b>N/A</b>     |    |                               |            |                   |                                 |             |     |                           |                          |

| Edison Generation   |                          |
|---------------------|--------------------------|
| SAR PH#1 Generating | <input type="checkbox"/> |
| SAR PH#3 Generating | <input type="checkbox"/> |

### Santa Ana River Deliveries

| Greenspot Pipeline |                             | Tailrace Pipeline |    | SBVWCD Parshall Flume To Basins  |             | Deliveries |                                  |            |    |                                  |             |
|--------------------|-----------------------------|-------------------|----|----------------------------------|-------------|------------|----------------------------------|------------|----|----------------------------------|-------------|
| M1                 | SBCFCD Grove                | 0.0               | G2 | Northfork Canal Weir             | 7.1         | J2         | Tailrace Valve to Parshall Flume | 0.0        | V1 | SAR PH #3 Afterbay Spill         | 0.0         |
| N1                 | BVMWC Highline              | 0.0               | H2 | Edwards Canal                    | 0.9         | K2         | Northfork Parshall Flume         | 2.7        | W1 | Redlands Aqueduct / Sandbox      | 11.0        |
| O1                 | Newport for BVMWC           | 0.0               | J2 | Tailrace Valve to Parshall Flume | 0.0         | H1         | SBVWCD Diversion                 | 0.5        | Y1 | Redlands Sandbox Spill           | 0.0         |
| P1                 | SBVWCD Mill Creek Spreading | 0.0               | K2 | Northfork Parshall Flume         | 2.7         |            | <b>minus</b>                     |            | Z2 | Cuttle Weir To River             | 0.0         |
| Q1                 | Crafton WC Unger Lane       | 0.0               | I2 | <b>Tailrace Pipeline</b>         | <b>10.7</b> |            | Sedimentation Basin Recharge     | 0.0        | B1 | BVMWC Highline                   | 6.1         |
| R1                 | BVMWC Highline to Boullioun | 0.0               |    |                                  |             | L2         | <b>SBVWCD Parshall Flume</b>     | <b>3.2</b> | C1 | Greenspot Pipeline               | 0.0         |
| S1                 | Crafton WC Boullioun        | 0.0               |    |                                  |             |            | <b>Parshall Flume (SCADA)</b>    | <b>3.2</b> | I2 | Tailrace Pipeline                | 10.7        |
| T1                 | Tate Pump Station to Zanja  | 0.0               |    |                                  |             |            |                                  |            | L2 | SBVWCD Parshall Flume            | 3.2         |
| C1                 | <b>Greenspot Pipeline</b>   | <b>0.0</b>        |    |                                  |             |            |                                  |            |    | <b>minus</b>                     |             |
|                    |                             |                   |    |                                  |             |            |                                  |            | J2 | Tailrace Valve to Parshall Flume | 0.0         |
|                    |                             |                   |    |                                  |             |            |                                  |            | K2 | Northfork Parshall Flume         | 2.7         |
|                    |                             |                   |    |                                  |             |            |                                  |            | I1 | Redlands Tunnel                  | 0.3         |
|                    |                             |                   |    |                                  |             |            |                                  |            | N2 | <b>Total SAR Deliveries</b>      | <b>28.0</b> |

### Mill Creek Inflows

| Total MC Inflows |                             | Other       |    |                                  |      |
|------------------|-----------------------------|-------------|----|----------------------------------|------|
| A3               | RPU Flow                    | 14.1        | E3 | M/C #1 Penstock Flow             | 14.1 |
| 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            | 0.0  |
| D3               | <b>Total MC Inflows</b>     | <b>14.1</b> |    |                                  |      |

### Mill Creek Deliveries

| Yucaipa Pipeline |                         | MC #1 Flow (Cooley Hat) |    | Total MC Deliveries            |             | Other |                                 |             |    |                                   |      |
|------------------|-------------------------|-------------------------|----|--------------------------------|-------------|-------|---------------------------------|-------------|----|-----------------------------------|------|
| J3               | Yucaipa Regional Park   | 0.0                     | P3 | Tate Inflow                    | 10.0        | C3    | SBVWCD Mill Creek Diversion     | 0.0         | H3 | Mentone Reservoir Level           | 21.1 |
| J3               | Wilson Creek Spreading  | 0.0                     | Q3 | East Weir to Mill Creek        | 0.0         | T3    | Mill Creek #1 Flow (Cooley Hat) | 14.1        | R3 | Boullioun to BVMWC Highline       | 0.0  |
| K3               | <b>Yucaipa Pipeline</b> | <b>0.0</b>              | S3 | East Weir to Zanja             | 4.1         | U3    | <b>Total MC Deliveries</b>      | <b>14.1</b> | V3 | Zanja West Weir to CWC Canal      | 5.1  |
|                  |                         |                         | T3 | <b>MC #1 Flow (Cooley Hat)</b> | <b>14.1</b> |       |                                 |             | W3 | Mill Creek PH #2,3 Afterbay Spill | 1.0  |
|                  |                         |                         | N3 | <b>Cooley Hat (SCADA)</b>      | <b>18.8</b> |       |                                 |             | Y3 | Crafton Reservoir Level (21.3)    | 17.6 |

| 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) | 9.4        |
| O3                  | <b>SBVWCD MC Spreading</b>    | <b>9.4</b> |

### SBVWCD Recharge

| Location                        | Type                        | Previous Day (AF)             |      | WY To Date (AF)                |          | Target  | Calendar Year To Date (AF)        |          | Target  |
|---------------------------------|-----------------------------|-------------------------------|------|--------------------------------|----------|---------|-----------------------------------|----------|---------|
| A4                              | Santa Ana River             | E4                            | 8.2  | I4                             | 15,672.7 | 176,000 | I4                                | 13,211.8 | 176,000 |
| M4                              | Santa Ana Rvr to Mill Creek | N4                            | 13.4 | O4                             | 1,969.9  |         | O4                                | 1,608.5  |         |
| B4                              | Santa Ana River             | F4                            | 0.0  | J4                             | 3,890.4  |         | J4                                | 0.0      |         |
| C4                              | Mill Creek                  | G4                            | 0.0  | K4                             | 5,316.2  | 106,000 | K4                                | 4,132.3  | 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  |                                | 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        |         |