

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 5/5/2021  
 Time: 6:50:00 AM

| Santa Ana River |                             | Flow Rate (cfs) |
|-----------------|-----------------------------|-----------------|
| <b>A5</b>       | <b>Total SAR Inflows</b>    | 36.8            |
| <b>N2</b>       | <b>Total SAR Deliveries</b> | 36.8            |
| A1              | SAR PH#3 Penstock (calc)    | 12.8            |
| B1              | BVMWC Highline              | 5.2             |
| C1              | Greenspot Pipeline          | 0.0             |
| L2              | SBVWCD Parshall Flume       | 26.0            |
| G2              | North Fork Canal Weir       | 4.8             |
| H2              | Edwards Canal               | 0.8             |
| W1              | Redlands Aqueduct (calc)    | 0.0             |
|                 | Other                       | 0.0             |

| Mill Creek |                            | Flow Rate (cfs) |
|------------|----------------------------|-----------------|
| <b>D3</b>  | <b>Total MC Inflows</b>    | 12.0            |
| <b>U3</b>  | <b>Total MC Deliveries</b> | 12.0            |
| K3         | Yucaipa Pipeline           | 0.0             |
| O3         | SBVWCD Spreading           | 12.0            |
| T3         | MC #1 Flow (Cooley Hat)    | 0.0             |

| State Water Project |                             | Flow Rate (cfs) |
|---------------------|-----------------------------|-----------------|
| <b>G</b>            | <b>Total SWP Inflows</b>    | 3.1             |
| <b>V</b>            | <b>Total SWP Deliveries</b> | 3.1             |
| 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             | 2155.0 |
| Crafton Reservoir Level (21.3) | 16.8   |
| Mentone Reservoir Level        | 19.9   |

| 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    | 3,545           | 176,000 |
| Santa Ana River to Mill Creek | SAR-MC | 418             | 0       |
| Santa Ana River               | SWP    | 0               | 0       |
| Mill Creek                    | MC     | 1,660           | 106,000 |
| Mill Creek                    | SWP    | 0               | 0       |
| Plunge Creek                  | PLC    | 107             | 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. The water recorded @ the PH# 3 Afterbay spillloss to SAR is from a pipe leak.

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| State Water Project |                                |            |   |                       |     |   |                      |     |   |                             |            |
|---------------------|--------------------------------|------------|---|-----------------------|-----|---|----------------------|-----|---|-----------------------------|------------|
| Inflows             |                                | Deliveries |   |                       |     |   |                      |     |   |                             |            |
| A                   | BBMWD In-lieu                  | 0.0        | H | EVWD City Creek       | 3.1 | 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 Boulliou 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                | 3.1        | 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>3.1</b> |
| F                   | Recharge Project               | 0.0        |   |                       |     |   |                      |     |   |                             |            |
| G                   | <b>Total SWP Inflows</b>       | <b>3.1</b> |   |                       |     |   |                      |     |   |                             |            |

| Santa Ana River Inflows   |                                  |                |       |                               |            |                   |                                 |                     |                                     |                           |             |
|---------------------------|----------------------------------|----------------|-------|-------------------------------|------------|-------------------|---------------------------------|---------------------|-------------------------------------|---------------------------|-------------|
| SAR PH #3 Penstock (calc) |                                  | BVMWC Highline |       | SOD Release Subtotal          |            | Total SAR Inflows |                                 |                     |                                     |                           |             |
| G2                        | Northfork Canal Weir             | 4.8            | A2    | Newport                       | 0.0        | D1                | BVMWC River PU (USGS)           | 18.8                | A1                                  | SAR PH #3 Penstock (calc) | 12.8        |
| H2                        | Edwards Canal                    | 0.8            | D2    | Boulliou Box Weir             | 5.2        | E1                | Main River Gage (USGS)          | 0.0                 | B1                                  | BVMWC Highline            | 5.2         |
| J2                        | Tailrace Valve to Parshall Flume | 23.1           | E2    | Boulliou Box to Zanja         | 0.0        | minus             |                                 | C1                  | Greenspot Pipeline                  | 0.0                       |             |
| K2                        | Northfork Parshall Flume         | 2.9            | F2    | SBVWCD Mill Creek Spreading   | 0.0        | F1                | Greenspot Spill                 | 1.5                 | D1                                  | BVMWC River PU (USGS)     | 18.8        |
| V1                        | PH#3 Afterbay SpillLoss to SAR   | 0.0            | B1    | <b>BVMWC Highline</b>         | <b>5.2</b> | Z1                | <b>SOD Release Subtotal</b>     | <b>17.3</b>         | E1                                  | Main River Gage (USGS)    | 0.0         |
| W1                        | Redlands Aqueduct / Sandbox      | 0.3            | Other |                               |            |                   |                                 | D1a                 | BV Pick-Up gated                    | <input type="checkbox"/>  |             |
| Y1                        | Redlands Sandbox Spill           | 0.0            | J1    | Big Bear Lake Release         | 1.0        | w                 | Observation at SOD              | 2155.0              | A5                                  | <b>Total SAR Inflows</b>  | <b>36.8</b> |
|                           |                                  |                | L1    | SCE SAR AVM (SCADA)           | 0.0        | x                 | SOD Reservoir Elevation (scada) | N/A                 | Edison Generation                   |                           |             |
| D1                        | BVMWC River PU (USGS)            | 18.8           | X1    | SAR-MC Spread (Red. Aqueduct) | 0.0        | y                 | Debris Pool Elevation           | N/A                 | SAR PH#1 Generating                 | <input type="checkbox"/>  |             |
| I1                        | Redlands Tunnel                  | 0.3            |       |                               |            |                   |                                 | SAR PH#3 Generating | <input checked="" type="checkbox"/> |                           |             |
| A1                        | <b>SAR PH #3 Penstock (calc)</b> | <b>12.8</b>    |       |                               |            |                   |                                 |                     |                                     |                           |             |
| K1                        | <b>PH3# Penstock (SCADA)</b>     | <b>N/A</b>     |       |                               |            |                   |                                 |                     |                                     |                           |             |

| Santa Ana River Deliveries |                             |                   |            |                                  |             |                              |                                  |             |                                  |                             |      |
|----------------------------|-----------------------------|-------------------|------------|----------------------------------|-------------|------------------------------|----------------------------------|-------------|----------------------------------|-----------------------------|------|
| Greenspot Pipeline         |                             | Tailrace Pipeline |            | SBVWCD Parshall Flume To Basins  |             | Deliveries                   |                                  |             |                                  |                             |      |
| M1                         | SBCFCD Grove                | 0.0               | G2         | Northfork Canal Weir             | 4.8         | J2                           | Tailrace Valve to Parshall Flume | 23.1        | V1                               | SAR PH #3 Afterbay Spill    | 0.0  |
| N1                         | BVMWC Highline              | 0.0               | H2         | Edwards Canal                    | 0.8         | K2                           | Northfork Parshall Flume         | 2.9         | W1                               | Redlands Aqueduct / Sandbox | 0.3  |
| O1                         | Newport for BVMWC           | 0.0               | J2         | Tailrace Valve to Parshall Flume | 23.1        | H1                           | SBVWCD Diversion                 | 0.0         | Y1                               | Redlands Sandbox Spill      | 0.0  |
| P1                         | SBVWCD Mill Creek Spreading | 0.0               | K2         | Northfork Parshall Flume         | 2.9         | minus                        |                                  | Z2          | Cuttle Weir To River             | 0.0                         |      |
| Q1                         | Crafton WC Unger Lane       | 0.0               | I2         | <b>Tailrace Pipeline</b>         | <b>31.6</b> | Sedimentation Basin Recharge | 0.0                              | B1          | BVMWC Highline                   | 5.2                         |      |
| R1                         | BVMWC Highline to Boulliou  | 0.0               | Irrigation |                                  |             | L2                           | <b>SBVWCD Parshall Flume</b>     | <b>26.0</b> | C1                               | Greenspot Pipeline          | 0.0  |
| S1                         | Crafton WC Boulliou         | 0.0               | D2         | Boulliou Box Weir                | 5.2         | Parshall Flume (SCADA)       |                                  | <b>25.7</b> | I2                               | Tailrace Pipeline           | 31.6 |
| T1                         | Tate Pump Station to Zanja  | 0.0               | N          | BVMWC Boulliou Box               | 0.0         |                              |                                  | L2          | SBVWCD Parshall Flume            | 26.0                        |      |
| C1                         | <b>Greenspot Pipeline</b>   | <b>0.0</b>        | minus      |                                  |             |                              |                                  | minus       |                                  |                             |      |
|                            |                             |                   | B2         | Gay Overflow                     | 2.0         |                              |                                  | J2          | Tailrace Valve to Parshall Flume | 23.1                        |      |
|                            |                             |                   | C2         | <b>Irrigation</b>                | <b>3.2</b>  |                              |                                  | K2          | Northfork Parshall Flume         | 2.9                         |      |
|                            |                             |                   |            |                                  |             |                              |                                  | I1          | Redlands Tunnel                  | 0.3                         |      |
|                            |                             |                   |            |                                  |             |                              |                                  | N2          | <b>Total SAR Deliveries</b>      | <b>36.8</b>                 |      |

| 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 | 12.0        | G3 | Observation at Garnet            | 0.0 |
| D3                 | <b>Total MC Inflows</b>     | <b>12.0</b> |    |                                  |     |

| 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     | 12.0        | H3                                | Mentone Reservoir Level      | 19.9 |
| J3                    | Wilson Creek Spreading        | 0.0                     | Q3 | East Weir to Mill Creek        | 0.0        | T3    | Mill Creek #1 Flow (Cooley Hat) | 0.0         | R3                                | Boulliou to BVMWC Highline   | 0.0  |
| K3                    | <b>Yucaipa Pipeline</b>       | <b>0.0</b>              | S3 | East Weir to Zanja             | 0.0        | U3    | <b>Total MC Deliveries</b>      | <b>12.0</b> | V3                                | Zanja West Weir to CWC Canal | 0.0  |
|                       |                               |                         | T3 | <b>MC #1 Flow (Cooley Hat)</b> | <b>0.0</b> |       |                                 | W3          | Mill Creek PH #2,3 Afterbay Spill | 0.0                          |      |
|                       |                               |                         | N3 | <b>Cooley Hat (SCADA)</b>      | <b>9.0</b> |       |                                 | Y3          | Crafton Reservoir Level (21.3)    | 16.8                         |      |
| SBVWCD MC Spreading   |                               |                         |    |                                |            |       |                                 |             |                                   |                              |      |
| C3                    | SBVWCD Mill Creek Diversion   | 12.0                    |    |                                |            |       |                                 |             |                                   |                              |      |
| L3                    | East Weir (MC)                | 0.0                     |    |                                |            |       |                                 |             |                                   |                              |      |
| M3                    | BVHL (SAR)                    | 0.0                     |    |                                |            |       |                                 |             |                                   |                              |      |
| X1                    | SAR-MC Spread (Red. Aqueduct) | 0.0                     |    |                                |            |       |                                 |             |                                   |                              |      |
| O3                    | <b>SBVWCD MC Spreading</b>    | <b>12.0</b>             |    |                                |            |       |                                 |             |                                   |                              |      |

| SBVWCD Recharge                 |                             |        |                               |      |                 |                                |         |                            |                                   |         |   |
|---------------------------------|-----------------------------|--------|-------------------------------|------|-----------------|--------------------------------|---------|----------------------------|-----------------------------------|---------|---|
| Location                        |                             | Type   | Previous Day (AF)             |      | WY To Date (AF) |                                | Target  | Calendar Year To Date (AF) |                                   | Target  |   |
| A4                              | Santa Ana River             | SAR    | E4                            | 46.6 | I4              | 3,545.1                        | 176,000 | I4                         | 2,820.8                           | 176,000 |   |
| M4                              | Santa Ana Rvr to Mill Creek | SAR-MC | N4                            | 0.0  | O4              | 417.7                          |         | O4                         | 352.8                             |         |   |
| B4                              | Santa Ana River             | SWP    | F4                            | 0.0  | J4              | 0.0                            |         | J4                         | 0.0                               |         |   |
| C4                              | Mill Creek                  | MC     | G4                            | 23.8 | K4              | 1,659.8                        | 106,000 | K4                         | 887.9                             | 106,000 |   |
| D4                              | Mill Creek                  | SWP    | H4                            | 0.0  | L4              | 0.0                            |         | L4                         | 0.0                               |         |   |
|                                 | Plunge Creek                | PLC    |                               | 0.0  |                 | 106.5                          |         |                            | 106.5                             |         |   |
| 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 |