

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 5/17/2022  
 Time: 7:00:00 AM

| Santa Ana River |                             | Flow Rate (cfs) |
|-----------------|-----------------------------|-----------------|
| <b>A5</b>       | <b>Total SAR Inflows</b>    | 32.1            |
| <b>N2</b>       | <b>Total SAR Deliveries</b> | 32.1            |
| A1              | SAR PH#3 Penstock (calc)    | 13.8            |
| B1              | BVMWC Highline              | 4.2             |
| C1              | Greenspot Pipeline          | 0.0             |
| L2              | SBVWCD Parshall Flume       | 6.2             |
| G2              | North Fork Canal Weir       | 1.5             |
| H2              | Edwards Canal               | 0.9             |
| W1              | Redlands Aqueduct (calc)    | 19.3            |
|                 | Other                       | 0.0             |

| Mill Creek |                            | Flow Rate (cfs) |
|------------|----------------------------|-----------------|
| <b>D3</b>  | <b>Total MC Inflows</b>    | 16.4            |
| <b>U3</b>  | <b>Total MC Deliveries</b> | 16.4            |
| K3         | Yucaipa Pipeline           | 0.0             |
| O3         | SBVWCD Spreading           | 5.8             |
| T3         | MC #1 Flow (Cooley Hat)    | 16.4            |

| State Water Project |                             | Flow Rate (cfs) |
|---------------------|-----------------------------|-----------------|
| <b>G</b>            | <b>Total SWP Inflows</b>    | 12.2            |
| <b>V</b>            | <b>Total SWP Deliveries</b> | 12.2            |
| J                   | Northfork Canal             | 0.0             |
| L                   | Redlands Aqueduct           | 0.0             |
| M                   | Crafton Unger Lane          | 6.0             |
| T                   | Newport to BVMWC            | 0.0             |

| Reservoir Levels               | Feet |
|--------------------------------|------|
| Observation at SOD             | N/A  |
| Crafton Reservoir Level (21.3) | 17.1 |
| Mentone Reservoir Level        | 17.2 |

| 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    | 6,772           | 176,000 |
| Santa Ana River to Mill Creek | SAR-MC | 257             | 0       |
| Santa Ana River               | SWP    | 0               | 0       |
| Mill Creek                    | MC     | 1,136           | 106,000 |
| Mill Creek                    | SWP    | 9               | 0       |
| Plunge Creek                  | PLC    | 851             | 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 through out the day.

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Date: 5/17/2022  
Time: 7:00:00 AM

| Inflows |                                |             | Deliveries |                       |     |   |                      |     |   |                             |             |
|---------|--------------------------------|-------------|------------|-----------------------|-----|---|----------------------|-----|---|-----------------------------|-------------|
| A       | BBMWD In-lieu                  | 6.0         | H          | EVWD City Creek       | 6.2 | M | Crafton Unger Lane   | 6.0 | 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                | 6.2         | 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>12.2</b> |
| F       | Recharge Project               | 0.0         |            |                       |     |   |                      |     |   |                             |             |
| G       | <b>Total SWP Inflows</b>       | <b>12.2</b> |            |                       |     |   |                      |     |   |                             |             |

| Santa Ana River Inflows          |                                  |             |                       |                               |            |                             |                                 |             |                                                         |                           |                          |
|----------------------------------|----------------------------------|-------------|-----------------------|-------------------------------|------------|-----------------------------|---------------------------------|-------------|---------------------------------------------------------|---------------------------|--------------------------|
| <b>SAR PH #3 Penstock (calc)</b> |                                  |             | <b>BVMWC Highline</b> |                               |            | <b>SOD Release Subtotal</b> |                                 |             | <b>Total SAR Inflows</b>                                |                           |                          |
| G2                               | Northfork Canal Weir             | 1.5         | A2                    | Newport                       | 0.0        | D1                          | BVMWC River PU (USGS)           | 13.9        | A1                                                      | SAR PH #3 Penstock (calc) | 13.8                     |
| H2                               | Edwards Canal                    | 0.9         | D2                    | Boullioun Box Weir            | 4.2        | E1                          | Main River Gage (USGS)          | 0.2         | B1                                                      | BVMWC Highline            | 4.2                      |
| 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         | 6.0         | F2                    | SBVWCD Mill Creek Spreading   | 0.0        | F1                          | Greenspot Spill                 | 0.0         | D1                                                      | BVMWC River PU (USGS)     | 13.9                     |
| V1                               | PH#3 Afterbay SpillLoss to SAR   | 0.0         | B1                    | <b>BVMWC Highline</b>         | <b>4.2</b> | Z1                          | <b>SOD Release Subtotal</b>     | <b>14.1</b> | E1                                                      | Main River Gage (USGS)    | 0.2                      |
| W1                               | Redlands Aqueduct / Sandbox      | 19.6        | <b>Other</b>          |                               |            | <b>minus</b>                |                                 |             | D1a                                                     | BV Pick-Up gated          | <input type="checkbox"/> |
| Y1                               | Redlands Sandbox Spill           | 0.0         | J1                    | Big Bear Lake Release         | 0.7        | w                           | Observation at SOD              | N/A         | A5                                                      | <b>Total SAR Inflows</b>  | <b>32.1</b>              |
| <b>Minus</b>                     |                                  |             | L1                    | SCE SAR AVM (SCADA)           | 18.1       | x                           | SOD Reservoir Elevation (scada) | 2151.0      | <b>Edison Generation</b>                                |                           |                          |
|                                  | BVMWC River PU (USGS)            | 13.9        | 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>13.8</b> |                       |                               |            |                             |                                 |             |                                                         |                           |                          |
| K1                               | <b>PH3# Penstock (SCADA)</b>     | <b>12.8</b> |                       |                               |            |                             |                                 |             |                                                         |                           |                          |

| Santa Ana River Deliveries |                             |            |                          |                                  |            |                                        |                                  |            |                   |                                  |             |
|----------------------------|-----------------------------|------------|--------------------------|----------------------------------|------------|----------------------------------------|----------------------------------|------------|-------------------|----------------------------------|-------------|
| <b>Greenspot Pipeline</b>  |                             |            | <b>Tailrace Pipeline</b> |                                  |            | <b>SBVWCD Parshall Flume To Basins</b> |                                  |            | <b>Deliveries</b> |                                  |             |
| M1                         | SBCFCD Grove                | 0.0        | G2                       | Northfork Canal Weir             | 1.5        | 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         | 6.0        | W1                | Redlands Aqueduct / Sandbox      | 19.6        |
| O1                         | Newport for BVMWC           | 0.0        | J2                       | Tailrace Valve to Parshall Flume | 0.0        | H1                                     | SBVWCD Diversion                 | 0.2        | Y1                | Redlands Sandbox Spill           | 0.0         |
| P1                         | SBVWCD Mill Creek Spreading | 0.0        | K2                       | Northfork Parshall Flume         | 6.0        | <b>minus</b>                           |                                  |            | Z2                | Cuttle Weir to River             | 0.0         |
| Q1                         | Crafton WC Unger Lane       | 0.0        | I2                       | <b>Tailrace Pipeline</b>         | <b>8.4</b> | Sedimentation Basin Recharge           | 0.0                              | B1         | BVMWC Highline    | 4.2                              |             |
| R1                         | BVMWC Highline to Boullioun | 0.0        | <b>Irrigation</b>        |                                  |            | L2                                     | <b>SBVWCD Parshall Flume</b>     | <b>6.2</b> | C1                | Greenspot Pipeline               | 0.0         |
| S1                         | Crafton WC Boullioun        | 0.0        | D2                       | Boullioun Box Weir               | 4.2        | <b>Parshall Flume (SCADA)</b>          |                                  |            | I2                | Tailrace Pipeline                | 8.4         |
| T1                         | Tate Pump Station to Zanja  | 0.0        | N                        | BVMWC Boullioun Box              | 0.0        |                                        |                                  |            | L2                | SBVWCD Parshall Flume            | 6.2         |
| C1                         | <b>Greenspot Pipeline</b>   | <b>0.0</b> | <b>minus</b>             |                                  |            |                                        |                                  |            | L2                | Sedimentation Recharge           | 0.0         |
|                            |                             |            | B2                       | Gay Overflow                     | 1.0        |                                        |                                  |            | <b>minus</b>      |                                  |             |
|                            |                             |            | C2                       | <b>Irrigation</b>                | <b>3.2</b> |                                        |                                  |            | J2                | Tailrace Valve to Parshall Flume | 0.0         |
|                            |                             |            |                          |                                  |            |                                        |                                  |            | K2                | Northfork Parshall Flume         | 6.0         |
|                            |                             |            |                          |                                  |            |                                        |                                  |            | I1                | Redlands Tunnel                  | 0.3         |
|                            |                             |            |                          |                                  |            |                                        |                                  |            | N2                | <b>Total SAR Deliveries</b>      | <b>32.1</b> |

| Mill Creek Inflows      |                             |              |    |                                  |      |
|-------------------------|-----------------------------|--------------|----|----------------------------------|------|
| <b>Total MC Inflows</b> |                             | <b>Other</b> |    |                                  |      |
| A3                      | RPU Flow                    | 5.3          | E3 | M/C #1 Penstock Flow             | 16.4 |
| B3                      | M/C #3 Penstock             | 11.1         | 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>16.4</b>  |    |                                  |      |

| Mill Creek Deliveries      |                               |            |                                |                                |             |                            |                                 |             |              |                                   |      |
|----------------------------|-------------------------------|------------|--------------------------------|--------------------------------|-------------|----------------------------|---------------------------------|-------------|--------------|-----------------------------------|------|
| <b>Yucaipa Pipeline</b>    |                               |            | <b>MC #1 Flow (Cooley Hat)</b> |                                |             | <b>Total MC Deliveries</b> |                                 |             | <b>Other</b> |                                   |      |
| H3                         | Yucaipa Regional Park         | 0.0        | P3                             | Tate Inflow                    | 0.0         | C3                         | SBVWCD Mill Creek Diversion     | 0.0         | H3           | Mentone Reservoir Level           | 17.2 |
| J3                         | Wilson Creek Spreading        | 0.0        | Q3                             | East Weir to Mill Creek        | 6.6         | T3                         | Mill Creek #1 Flow (Cooley Hat) | 16.4        | R3           | Boullioun to BVMWC Highline       | 0.0  |
| K3                         | <b>Yucaipa Pipeline</b>       | <b>0.0</b> | S3                             | East Weir to Zanja             | 9.8         | U3                         | <b>Total MC Deliveries</b>      | <b>16.4</b> | V3           | Zanja West Weir to CWC Canal      | 9.2  |
| <b>SBVWCD MC Spreading</b> |                               |            | T3                             | <b>MC #1 Flow (Cooley Hat)</b> | <b>16.4</b> |                            |                                 |             | W3           | Mill Creek PH #2,3 Afterbay Spill | 0.0  |
| C3                         | SBVWCD Mill Creek Diversion   | 0.0        | N3                             | <b>Cooley Hat (SCADA)</b>      | <b>16.2</b> |                            |                                 |             | Y3           | Crafton Reservoir Level (21.3)    | 17.1 |
| L3                         | East Weir (MC)                | 5.8        |                                |                                |             |                            |                                 |             |              |                                   |      |
| M3                         | BVHL (SAR)                    | 0.0        |                                |                                |             |                            |                                 |             |              |                                   |      |
| X1                         | SAR-MC Spread (Red. Aqueduct) | 0.0        |                                |                                |             |                            |                                 |             |              |                                   |      |
| O3                         | <b>SBVWCD MC Spreading</b>    | <b>5.8</b> |                                |                                |             |                            |                                 |             |              |                                   |      |

| SBVWCD Recharge                 |                             |             |                               |      |  |                                |         |               |                                   |         |         |               |
|---------------------------------|-----------------------------|-------------|-------------------------------|------|--|--------------------------------|---------|---------------|-----------------------------------|---------|---------|---------------|
| <b>Location</b>                 |                             | <b>Type</b> | <b>Previous Day (AF)</b>      |      |  | <b>WY To Date (AF)</b>         |         | <b>Target</b> | <b>Calendar Year To Date (AF)</b> |         |         | <b>Target</b> |
| A4                              | Santa Ana River             | SAR         | E4                            | 13.7 |  | I4                             | 6,772.4 | 176,000       | I4                                | 5,895.8 | 176,000 |               |
| M4                              | Santa Ana Rvr to Mill Creek | SAR-MC      | N4                            | 0.0  |  | O4                             | 256.9   |               | O4                                | 173.2   |         |               |
| B4                              | Santa Ana River             | SWP         | F4                            | 0.0  |  | J4                             | 0.0     |               | J4                                | 0.0     |         |               |
| C4                              | Mill Creek                  | MC          | G4                            | 11.5 |  | K4                             | 1,135.5 | 106,000       | K4                                | 513.5   | 106,000 |               |
| D4                              | Mill Creek                  | SWP         | H4                            | 0.0  |  | L4                             | 8.7     |               | L4                                | 0.0     |         |               |
|                                 | Plunge Creek                | PLC         |                               | 0.0  |  |                                | 851.0   |               |                                   | 354.5   |         |               |
| 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) |         |               | 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       |         |               |