

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 9/22/2023  
 Time: 6:45:00 AM

| Santa Ana River |                             | Flow Rate (cfs) |
|-----------------|-----------------------------|-----------------|
| <b>A5</b>       | <b>Total SAR Inflows</b>    | 101.7           |
| <b>N2</b>       | <b>Total SAR Deliveries</b> | 101.7           |
| A1              | SAR PH#3 Penstock (calc)    | 0.0             |
| B1              | BVMWC Highline              | 0.0             |
| C1              | Greenspot Pipeline          | 0.0             |
| L2              | SBVWCD Parshall Flume       | 100.0           |
| G2              | North Fork Canal Weir       | 0.0             |
| H2              | Edwards Canal               | 0.0             |
| W1              | Redlands Aqueduct (calc)    | 1.7             |
|                 | Other                       | 0.0             |

| Mill Creek |                            | Flow Rate (cfs) |
|------------|----------------------------|-----------------|
| <b>D3</b>  | <b>Total MC Inflows</b>    | 14.5            |
| <b>U3</b>  | <b>Total MC Deliveries</b> | 14.5            |
| K3         | Yucaipa Pipeline           | 0.0             |
| O3         | SBVWCD Spreading           | 0.0             |
| T3         | MC #1 Flow (Cooley Hat)    | 14.5            |

| State Water Project |                             | Flow Rate (cfs) |
|---------------------|-----------------------------|-----------------|
| <b>G</b>            | <b>Total SWP Inflows</b>    | 70.2            |
| <b>V</b>            | <b>Total SWP Deliveries</b> | 70.2            |
| J                   | Northfork Canal             | 0.0             |
| L                   | Redlands Aqueduct           | 20.0            |
| M                   | Crafton Unger Lane          | 0.0             |
| T                   | Newport to BVMWC            | 0.0             |

| Reservoir Levels               | Feet   |
|--------------------------------|--------|
| Observation at SOD             | 2185.6 |
| Crafton Reservoir Level (21.3) | 18.3   |
| Mentone Reservoir Level        | 18.8   |

| River Recharge                      | AF |
|-------------------------------------|----|
| Estimate SAR Recharge (AF)          | 0  |
| Estimate Mill Creek Recharge (AF)   | 48 |
| Estimated Total River Recharge (AF) | 48 |

| Location                      | Type   | WY to Date (AF) | Target  |
|-------------------------------|--------|-----------------|---------|
| Santa Ana River               | SAR    | 45,959          | 176,000 |
| Santa Ana River to Mill Creek | SAR-MC | 1,622           | 0       |
| Santa Ana River to Mill Creek | SWP    | 712             | 0       |
| Santa Ana River               | SWP    | 1,002           | 0       |
| Mill Creek                    | MC     | 16,631          | 106,000 |
| Mill Creek                    | SWP    | 2,664           | 0       |
| Plunge Creek                  | PLC    | 2,722           | 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.

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Date: 9/22/2023  
Time: 6:45:00 AM

### State Water Project

| Inflows |                                |             | Deliveries |                       |      |   |                      |     |   |                             |             |
|---------|--------------------------------|-------------|------------|-----------------------|------|---|----------------------|-----|---|-----------------------------|-------------|
| A       | BBMWD In-lieu                  | 0.0         | H          | EVWD City Creek       | 8.6  | M | Crafton Unger Lane   | 0.0 | S | SBCFCD Grove                | 0.0         |
| B       | Muni test at Greenspot Station | 0.0         | I          | Santa Ana Low Turnout | 35.3 | N | BVMWC Boullioun Box  | 6.3 | 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                | 26.9        | K          | Edwards Canal         | 0.0  | Q | Zanja                | 0.0 | W | Tres Lagos                  | 0.0         |
| E       | Redlands Aqueduct Leakage      | 0.0         | L          | Redlands Aqueduct     | 20.0 | R | Tate Treatment Plant | 0.0 | V | <b>Total SWP Deliveries</b> | <b>70.2</b> |
| F       | Recharge Project               | 43.3        |            |                       |      |   |                      |     |   |                             |             |
| G       | <b>Total SWP Inflows</b>       | <b>70.2</b> |            |                       |      |   |                      |     |   |                             |             |

### 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)           | 13.0         | A1                       | SAR PH #3 Penstock (calc) | 0.0          |
| H2                        | Edwards Canal                    | 0.0            | D2           | Boullioun Box Weir            | 0.0        | E1                | Main River Gage (USGS)          | 88.7         | B1                       | BVMWC Highline            | 0.0          |
| 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         | 11.3           | F2           | SBVWCD Mill Creek Spreading   | 0.0        | F1                | Greenspot Spill                 | 0.0          | D1                       | BVMWC River PU (USGS)     | 13.0         |
| V1                        | PH#3 Afterbay Spill/Loss to SAR  | 0.0            | B1           | <b>BVMWC Highline</b>         | <b>0.0</b> | Z1                | <b>SOD Release Subtotal</b>     | <b>101.7</b> | E1                       | Main River Gage (USGS)    | 88.7         |
| W1                        | Redlands Aqueduct / Sandbox      | 0.0            | <b>Other</b> |                               |            |                   |                                 | D1a          | BV Pick-Up gated         | <input type="checkbox"/>  |              |
| Y1                        | Redlands Sandbox Spill           | 2.5            | J1           | Big Bear Lake Release         | 1.2        | W                 | Observation at SOD              | 2185.6       | A5                       | <b>Total SAR Inflows</b>  | <b>101.7</b> |
| <b>Minus</b>              |                                  |                | L1           | SCE SAR AVM (SCADA)           | 0.0        | X                 | SOD Reservoir Elevation (scada) | 2184.5       | <b>Edison Generation</b> |                           |              |
| D1                        | BVMWC River PU (USGS)            | 13.0           | X1           | SAR-MC Spread (Red. Aqueduct) | 0.0        | Y                 | Debris Pool Elevation           | N/A          | SAR PH#1 Generating      | <input type="checkbox"/>  |              |
| I1                        | Redlands Tunnel                  | 0.8            |              |                               |            |                   |                                 |              | SAR PH#3 Generating      | <input type="checkbox"/>  |              |
| A1                        | <b>SAR PH #3 Penstock (calc)</b> | <b>0.0</b>     |              |                               |            |                   |                                 |              |                          |                           |              |
| K1                        | <b>PH#3 Penstock (SCADA)</b>     | <b>0.0</b>     |              |                               |            |                   |                                 |              |                          |                           |              |

### Santa Ana River Deliveries

| Greenspot Pipeline |                             | Tailrace Pipeline |                   | SBVWCD Parshall Flume To Basins  |             | Deliveries   |                                  |                    |                                  |                             |      |
|--------------------|-----------------------------|-------------------|-------------------|----------------------------------|-------------|--------------|----------------------------------|--------------------|----------------------------------|-----------------------------|------|
| M1                 | Redlands sand box           | 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         | 11.3               | W1                               | Redlands Aqueduct / Sandbox | 0.0  |
| O1                 | Newport for BVMWC           | 0.0               | J2                | Tailrace Valve to Parshall Flume | 0.0         | H1           | SBVWCD Diversion                 | 88.7               | Y1                               | Redlands Sandbox Spill      | 2.5  |
| P1                 | SBVWCD Mill Creek Spreading | 0.0               | K2                | Northfork Parshall Flume         | 11.3        | <b>minus</b> |                                  | Z2                 | Cuttle Weir To River             | 0.0                         |      |
| Q1                 | Crafton WC Unger Lane       | 0.0               | I2                | <b>Tailrace Pipeline</b>         | <b>11.3</b> | L2           | <b>SBVWCD Parshall Flume</b>     | <b>100.0</b>       | B1                               | BVMWC Highline              | 0.0  |
| R1                 | BVMWC Highline to Boullioun | 0.0               | <b>Irrigation</b> |                                  |             |              | C1                               | Greenspot Pipeline | 0.0                              |                             |      |
| S1                 | Tres Lagos                  | 0.0               | D2                | Boullioun Box Weir               | 0.0         |              | <b>Parshall Flume (SCADA)</b>    | <b>61.3</b>        | I2                               | Tailrace Pipeline           | 11.3 |
| T1                 | Tate Pump Station to Zanja  | 0.0               | R1                | BVMWC Highline to Boullioun      | 0.0         |              |                                  | L2                 | SBVWCD Parshall Flume            | 100.0                       |      |
| C1                 | <b>Greenspot Pipeline</b>   | <b>0.0</b>        | N                 | BVMWC Boullioun Box              | 6.3         |              |                                  | L2                 | Sedimentation Recharge           | 0.0                         |      |
|                    |                             |                   | <b>minus</b>      |                                  |             |              |                                  |                    |                                  |                             |      |
|                    |                             |                   | B2                | Gay Overflow                     | 4.0         |              |                                  | J2                 | Tailrace Valve to Parshall Flume | 0.0                         |      |
|                    |                             |                   | C2                | <b>Irrigation</b>                | <b>2.3</b>  |              |                                  | K2                 | Northfork Parshall Flume         | 11.3                        |      |
|                    |                             |                   |                   |                                  |             |              |                                  | I1                 | Redlands Tunnel                  | 0.8                         |      |
|                    |                             |                   |                   |                                  |             |              |                                  | N2                 | <b>Total SAR Deliveries</b>      | <b>101.7</b>                |      |

### Mill Creek Inflows

| Total MC Inflows |                             | Other       |    |                                  |      |
|------------------|-----------------------------|-------------|----|----------------------------------|------|
| A3               | RPU Flow                    | 0.0         | E3 | M/C #1 Penstock Flow             | 14.5 |
| B3               | M/C #3 Penstock             | 14.5        | F3 | Stream Parshall Flume to Yucaipa | 0.0  |
| C3               | SBVWCD Mill Creek Diversion | 0.0         | G3 | Observation at Garnet            | 30.0 |
| D3               | <b>Total MC Inflows</b>     | <b>14.5</b> |    |                                  |      |

### Mill Creek Deliveries

| Yucaipa Pipeline           |                               | MC #1 Flow (Cooley Hat) |    | Total MC Deliveries            |             | Other |                                 |             |                                   |                              |      |
|----------------------------|-------------------------------|-------------------------|----|--------------------------------|-------------|-------|---------------------------------|-------------|-----------------------------------|------------------------------|------|
| H3                         | Yucaipa Regional Park         | 0.0                     | P3 | Tate Inflow                    | 0.0         | C3    | SBVWCD Mill Creek Diversion     | 0.0         | H3                                | Mentone Reservoir Level      | 18.8 |
| J3                         | Wilson Creek Spreading        | 0.0                     | Q3 | East Weir to Mill Creek        | 7.5         | T3    | Mill Creek #1 Flow (Cooley Hat) | 14.5        | R3                                | Boullioun to BVMWC Highline  | 0.0  |
| K3                         | <b>Yucaipa Pipeline</b>       | <b>0.0</b>              | S3 | East Weir to Zanja             | 7.0         | U3    | <b>Total MC Deliveries</b>      | <b>14.5</b> | V3                                | Zanja West Weir to CWC Canal | 1.5  |
|                            |                               |                         | T3 | <b>MC #1 Flow (Cooley Hat)</b> | <b>14.5</b> |       |                                 | W3          | Mill Creek PH #2,3 Afterbay Spill | 0.0                          |      |
|                            |                               |                         | N3 | <b>Cooley Hat (SCADA)</b>      | <b>13.5</b> |       |                                 | Y3          | Crafton Reservoir Level (21.3)    | 18.3                         |      |
| <b>SBVWCD MC Spreading</b> |                               |                         |    |                                |             |       |                                 |             |                                   |                              |      |
| C3                         | SBVWCD Mill Creek Diversion   | 0.0                     |    |                                |             |       |                                 |             |                                   |                              |      |
| 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>0.0</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                            | 198.2 | I4                             | 45,959.1 | 176,000 | I4                                | 45,471.6       | 176,000 |
| M4                              | Santa Ana Rvr to Mill Creek | SAR-MC | N4                            | 0.0   | O4                             | 1,621.9  |         | O4                                | 1,438.3        |         |
|                                 | Santa Ana Rvr to Mill Creek | SWP    |                               | 15.9  |                                | 712.4    |         |                                   | 712.4          |         |
| B4                              | Santa Ana River             | SWP    | F4                            | 70.0  | J4                             | 1,001.7  |         | J4                                | 1,001.7        |         |
| C4                              | Mill Creek                  | MC     | G4                            | 0.0   | K4                             | 16,630.8 | 106,000 | K4                                | 16,006.0       | 106,000 |
| D4                              | Mill Creek                  | SWP    | H4                            | 0.0   | L4                             | 2,663.9  |         | L4                                | <b>2,663.9</b> |         |
|                                 | Plunge Creek                | PLC    |                               | 0.6   |                                | 2,721.5  |         |                                   | 2,600.0        |         |
| 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) | 30                          |        | Share of Lost Mill Creek Flow | 1     | Estimate Mill Creek flow (cfs) | 29       |         | Estimate Mill Creek Recharge (AF) | 48             |         |
| Flow in the River Above Alabama | 30                          |        | Flowing Beyond Alabama        | 0.6   | Total River Flow (cfs)         | 29       |         | Total River Recharge (AF)         | 48             |         |