

**Humboldt Bay Municipal Water District - Water Rights Telemetry Data****PROVISIONAL DATA, SUBJECT TO REVISION. Daily values calculated from hourly telemetry (SCADA) readings; not yet reviewed as final.**

Claimed water rights (State Water Board identification numbers): A016454 (Permit 11714), storage in Ruth Lake; A026657 (Permit 18347), direct diversion for power generation at Matthews Dam; A017291 (Permit 11715), direct diversion from the Mad River at Essex. Values are not apportioned to each right.

Water year beginning 10/01/2026. Data through 10/17/2026. Large diversion submission under California Code of Regulations, title 23, section 935(b); updated at least weekly.

Measurement locations: Ruth Lake level sensor at Matthews Dam (water surface elevation; storage is calculated by SCADA from the elevation); outflow from Ruth Lake is calculated by SCADA as turbine flow (ultrasonic flow meter) plus Howell-Bunger valve flow (valve rating) plus spillway flow (lake elevation and spillway rating); the fish release pipe is normally closed; Essex Ranney collector flow meters (Col134 venturi and Col2).

End-of-day elevation and storage are the last hourly reading of the day. Rates are the average of the hourly readings for the day; daily volume = daily average rate x 1 day (1 cfs for one day = 1.98347 acre-feet). Hourly records are retained by the District and are available on request.

| Date       | Ruth Lake water surface elevation, end of day (ft) | Ruth Lake storage, total volume at end of day (AF) | Change in storage from prior day (AF) | Outflow from Ruth Lake, daily volume (AF) | Outflow from Ruth Lake, daily average rate (cfs) | Turbine flow (included in outflow), daily volume (AF) | Turbine flow (included in outflow), daily average rate (cfs) | Diversion from the Mad River at Essex, daily volume (AF) | Diversion at Essex, daily average rate (cfs) | Note                                                                                                                                |
|------------|----------------------------------------------------|----------------------------------------------------|---------------------------------------|-------------------------------------------|--------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 10/01/2026 | 2,642.71                                           | 36,349                                             | -57                                   | 86.7                                      | 43.7                                             | 86.7                                                  | 43.7                                                         | 21.1                                                     | 10.6                                         |                                                                                                                                     |
| 10/02/2026 | 2,642.56                                           | 36,207                                             | -142                                  | 87.2                                      | 44.0                                             | 87.5                                                  | 44.1                                                         | 26.6                                                     | 13.4                                         |                                                                                                                                     |
| 10/03/2026 | 2,642.50                                           | 36,151                                             | -56                                   | 85.5                                      | 43.1                                             | 86.3                                                  | 43.5                                                         | 20.2                                                     | 10.2                                         |                                                                                                                                     |
| 10/04/2026 | 2,642.33                                           | 35,990                                             | -161                                  | 85.2                                      | 42.9                                             | 86.1                                                  | 43.4                                                         | 27.0                                                     | 13.6                                         |                                                                                                                                     |
| 10/05/2026 | 2,642.10                                           | 35,773                                             | -217                                  | 85.6                                      | 43.2                                             | 85.3                                                  | 43.0                                                         | 23.2                                                     | 11.7                                         |                                                                                                                                     |
| 10/06/2026 | 2,641.91                                           | 35,594                                             | -179                                  | 84.9                                      | 42.8                                             | 85.1                                                  | 42.9                                                         | 25.8                                                     | 13.0                                         |                                                                                                                                     |
| 10/07/2026 | 2,641.83                                           | 35,520                                             | -74                                   | 87.0                                      | 43.9                                             | 87.3                                                  | 44.0                                                         | 23.8                                                     | 12.0                                         |                                                                                                                                     |
| 10/08/2026 | 2,641.68                                           | 35,380                                             | -140                                  | 88.9                                      | 44.8                                             | 88.2                                                  | 44.5                                                         | 22.8                                                     | 11.5                                         |                                                                                                                                     |
| 10/09/2026 | 2,641.64                                           | 35,343                                             | -37                                   | 88.7                                      | 44.7                                             | 88.4                                                  | 44.6                                                         | 25.7                                                     | 12.9                                         |                                                                                                                                     |
| 10/10/2026 | 2,641.51                                           | 35,222                                             | -121                                  | 87.3                                      | 44.0                                             | 87.9                                                  | 44.3                                                         | 20.3                                                     | 10.2                                         | 1 of 24 hourly Ruth readings unusable                                                                                               |
| 10/11/2026 | 2,641.43                                           | 35,147                                             | -75                                   | 89.0                                      | 44.9                                             | 88.4                                                  | 44.5                                                         | 25.3                                                     | 12.7                                         |                                                                                                                                     |
| 10/12/2026 | 2,641.18                                           | 34,914                                             | -233                                  | 89.3                                      | 45.0                                             | 40.3                                                  | 20.3                                                         | 23.4                                                     | 11.8                                         |                                                                                                                                     |
| 10/13/2026 | 2,640.97                                           | 34,719                                             | -195                                  | 90.0                                      | 45.4                                             | 0.2                                                   | 0.1                                                          | 26.4                                                     | 13.3                                         | 1 of 24 hourly Ruth readings unusable                                                                                               |
| 10/14/2026 | 2,640.90                                           | 34,655                                             | -64                                   | 89.8                                      | 45.3                                             | 0.2                                                   | 0.1                                                          | 21.2                                                     | 10.7                                         | 1 of 24 hourly Ruth readings unusable                                                                                               |
| 10/15/2026 | 2,640.86                                           | 34,619                                             | -36                                   | 89.5                                      | 45.1                                             | 26.0                                                  | 13.1                                                         | 25.9                                                     | 13.1                                         |                                                                                                                                     |
| 10/16/2026 | 2,640.21                                           | 34,022                                             | -597                                  | 89.5                                      | 45.1                                             | 89.4                                                  | 45.1                                                         | 22.8                                                     | 11.5                                         | Ruth Lake level sensor (pressure transducer) flushed by Ops on 10/16; the drop in elevation and storage that day is from the flush. |
| 10/17/2026 | 2,640.24                                           | 34,050                                             | 28                                    | 88.9                                      | 44.8                                             | 89.7                                                  | 45.2                                                         | 25.3                                                     | 12.8                                         |                                                                                                                                     |