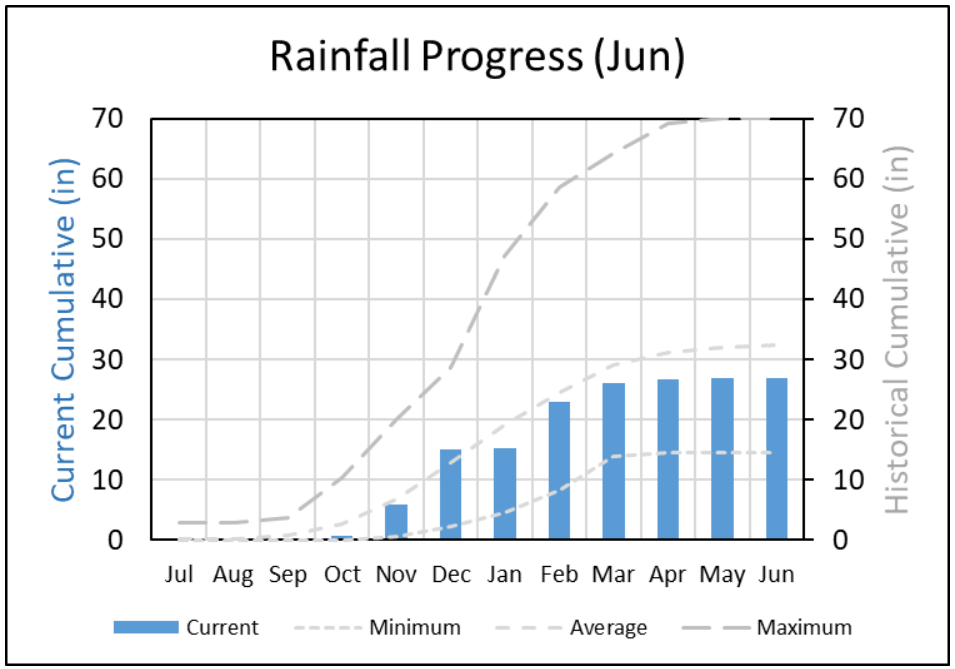
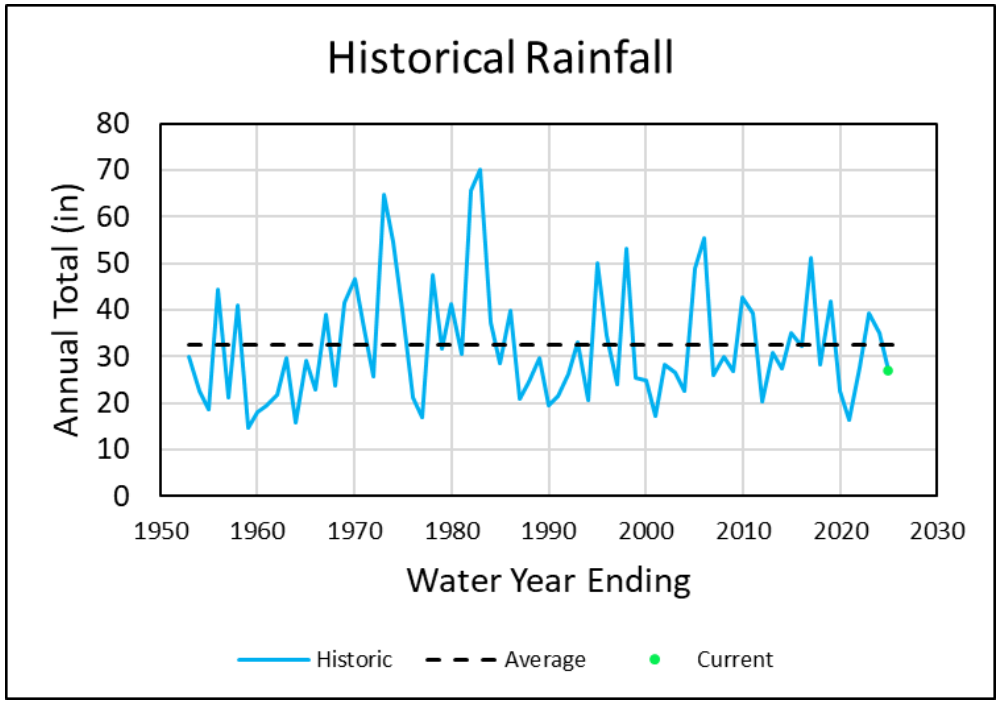
June 2025
BCPUD Water Supply Memo

Status of BCPUD’s Water Supply

Rainfall through the end of June

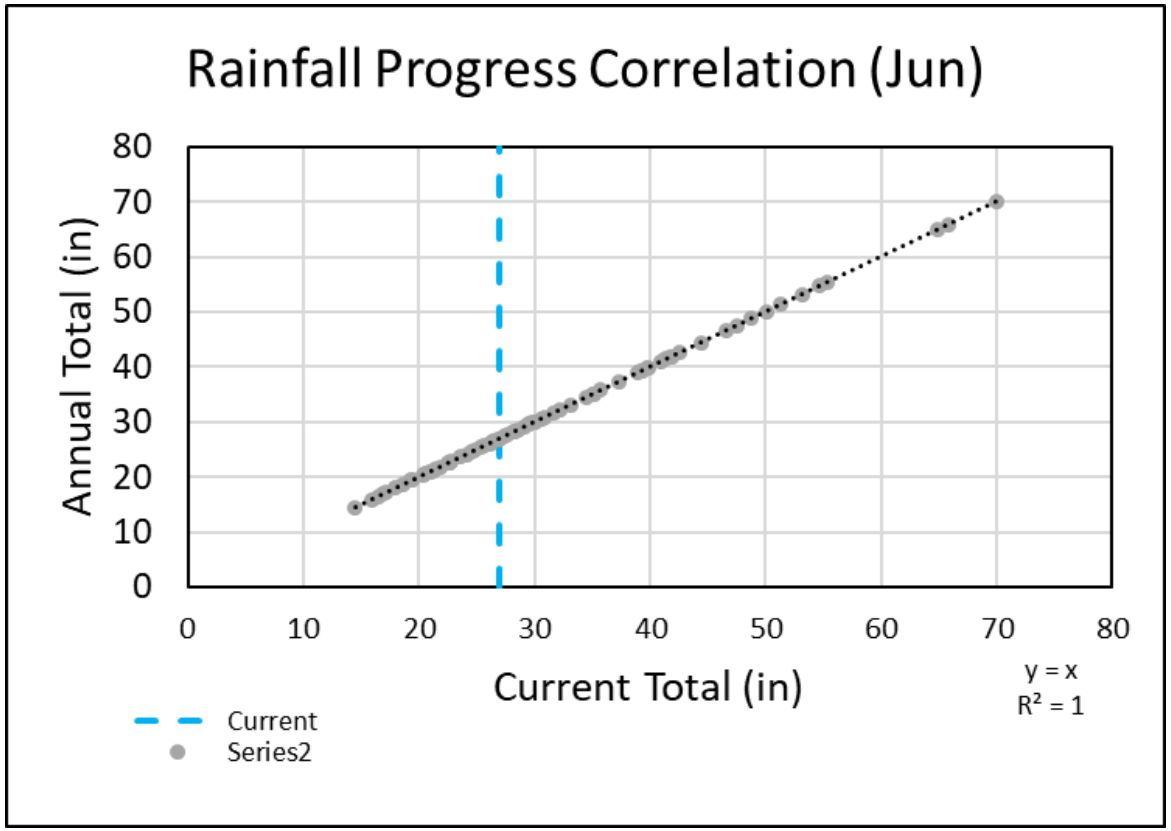




As of the end of June 2025, the District had received 26.98 inches of rain since July 1, 2024 (the beginning of the rain year), which is below the historical average of 32.48 inches by the end of June.

We received 0 inches of rain in June.

Rainfall Progression Analysis

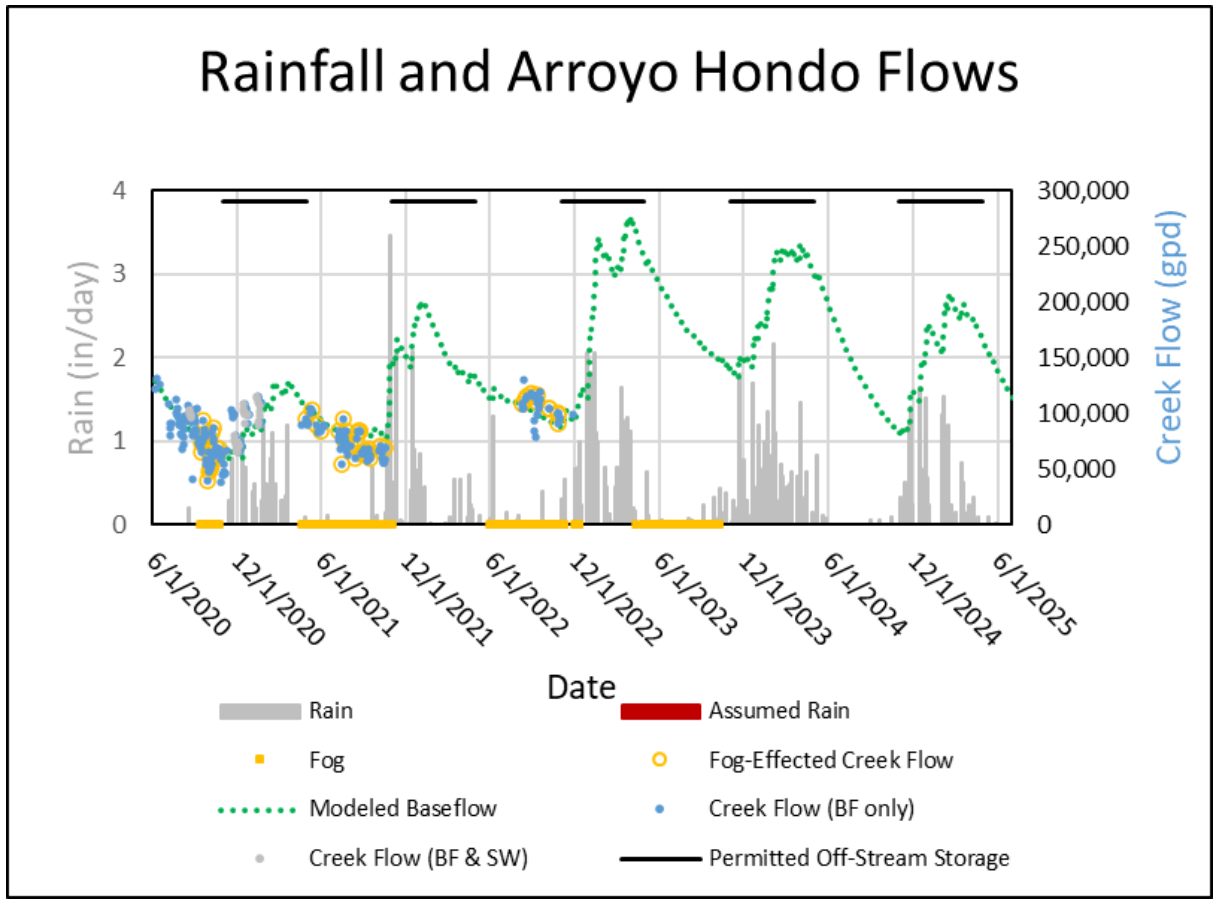


The cumulative total through June 30 is 26.98 inches. 57% of the 73 years on record had more or an equal amount of rain by the end of June, compared to this year (24/25 Rain Year).

Using this progression correlation analysis, we are projecting that we will have 26.98 inches by the end of this rain year (June 30, 2025).

This analysis uses historical data to predict how much rain we will have by the end of the year, based on the current year total.

Model of Arroyo Hondo Creek Flows

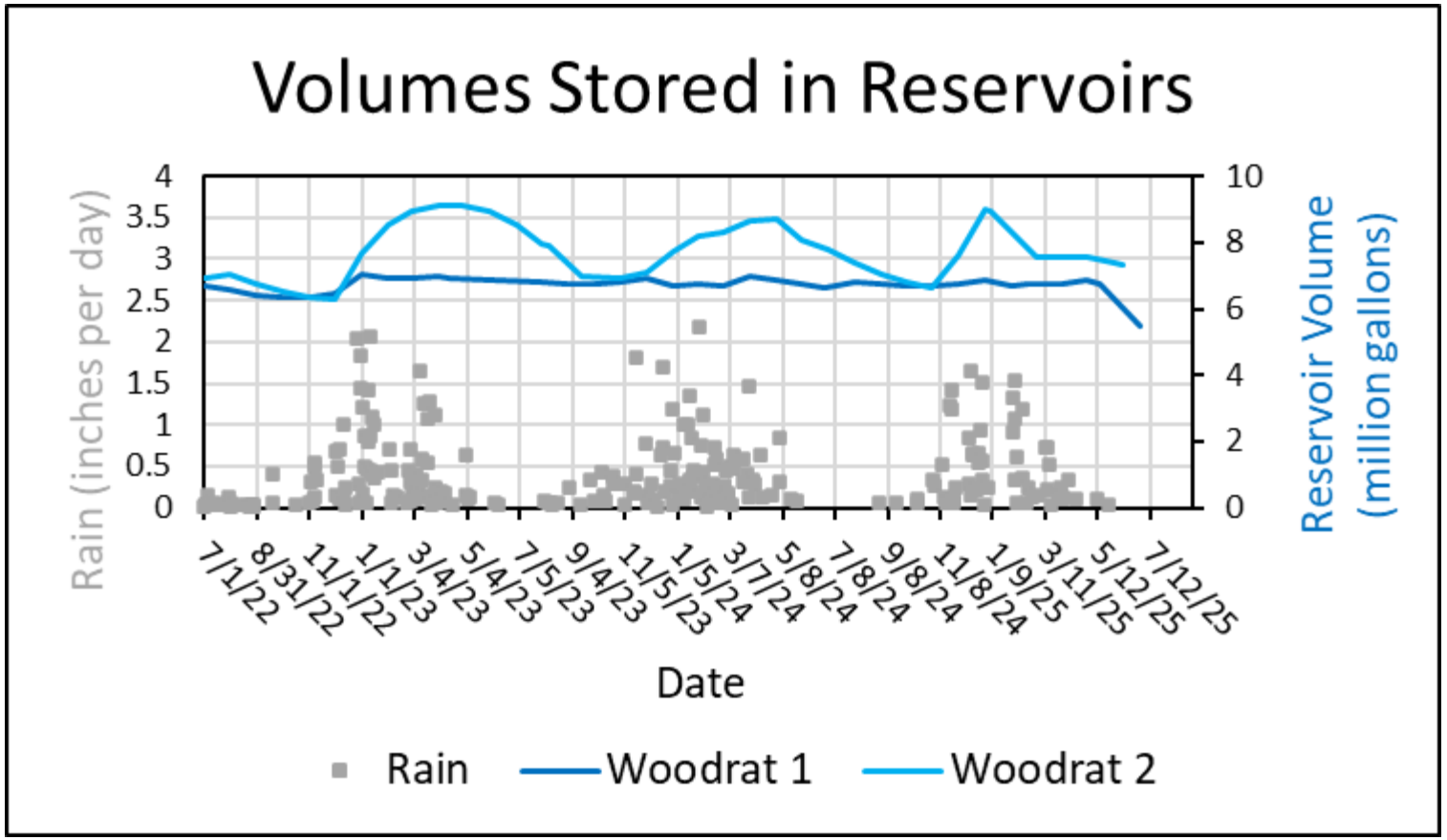


Creek flows continue to meet District Demand

- Average flows by the end of June were modeled at ~137,140 GPD
- Flows by the end of July (WITHOUT RAIN) are predicted to be ~ 114,870 GPD

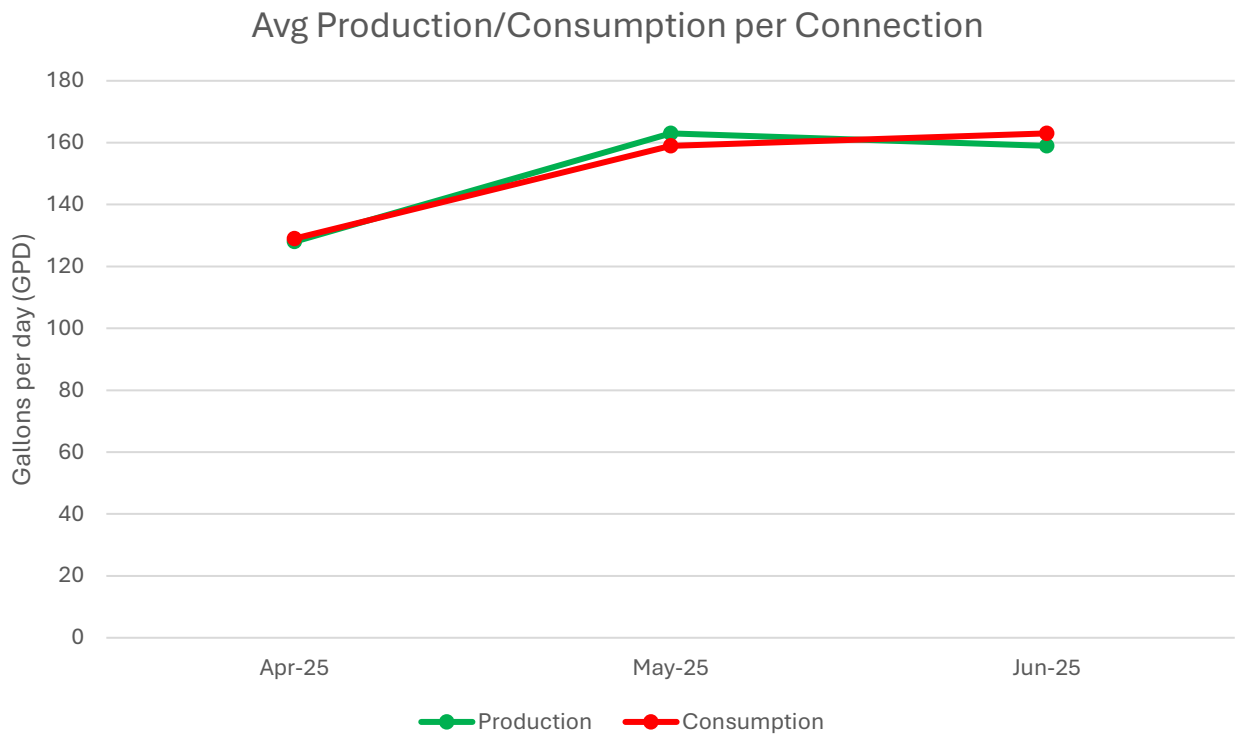
Graph is the District's Base Flow (BF) recession model for the Arroyo Hondo Creek, updated to depict predictions of the base flow portion of creek flows through the end of December 2024, based on actual rainfall through November. The creek is no longer flowing over the impoundment structures, and depending on the rate of water production, when we are drawing from the creek, water levels recede below the lip of the dam. This would allow us to gather empirical data to calculate actual creek flows, and to validate the model, however we have not yet collected this data.

Water Storage



Woodrat 1 Reservoir and Woodrat 2 Reservoir are full (not spilling).

Summer 2025 Water Usage Trends



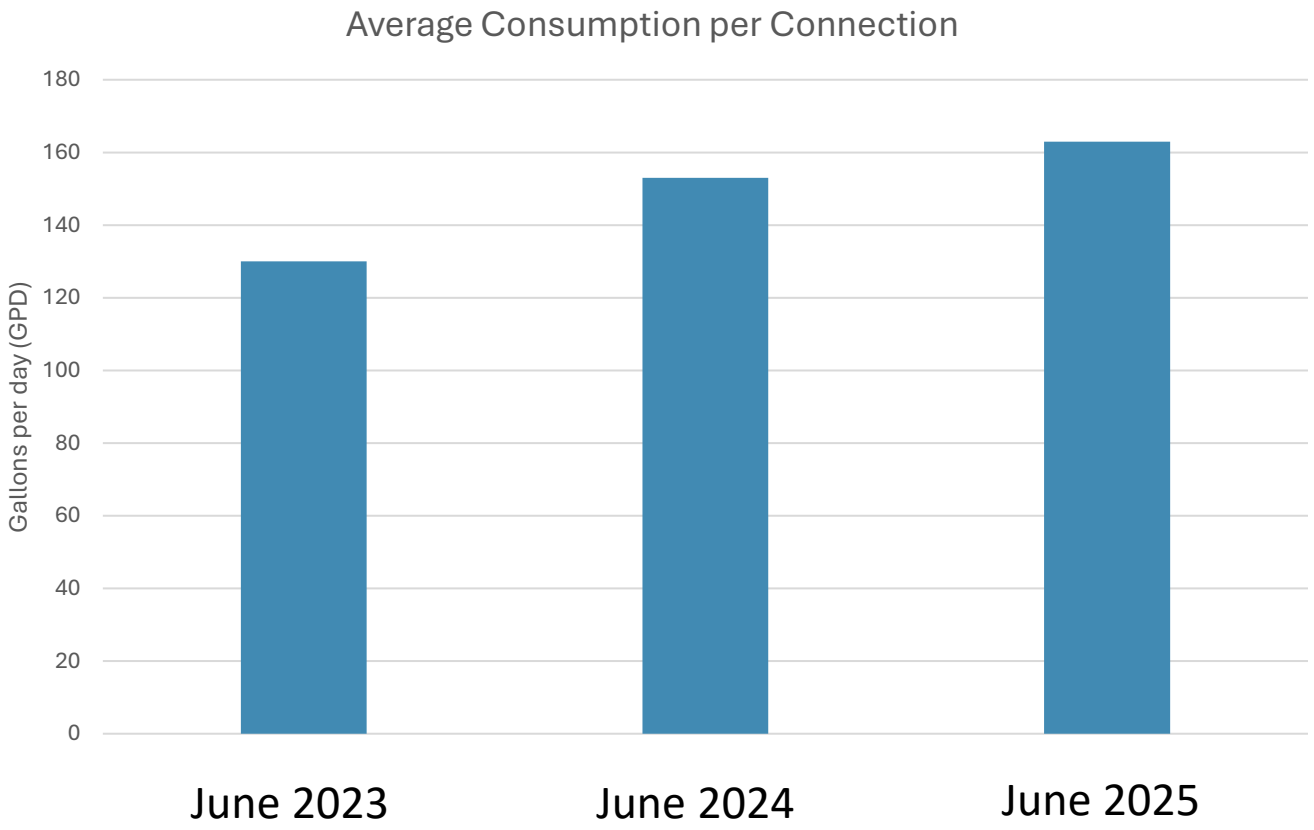
PRODUCTION

- In June 2025, water *production* in the district averaged **159** gallons per day (GPD) per connection
- This is **DOWN** from May's production, which averaged **163** GPD per connection

CONSUMPTION

- Water *consumption* in June averaged **163 GPD** per connection)
- This is **UP** from May consumption, which averaged **159 GPD** per connection).

Comparison to past two years

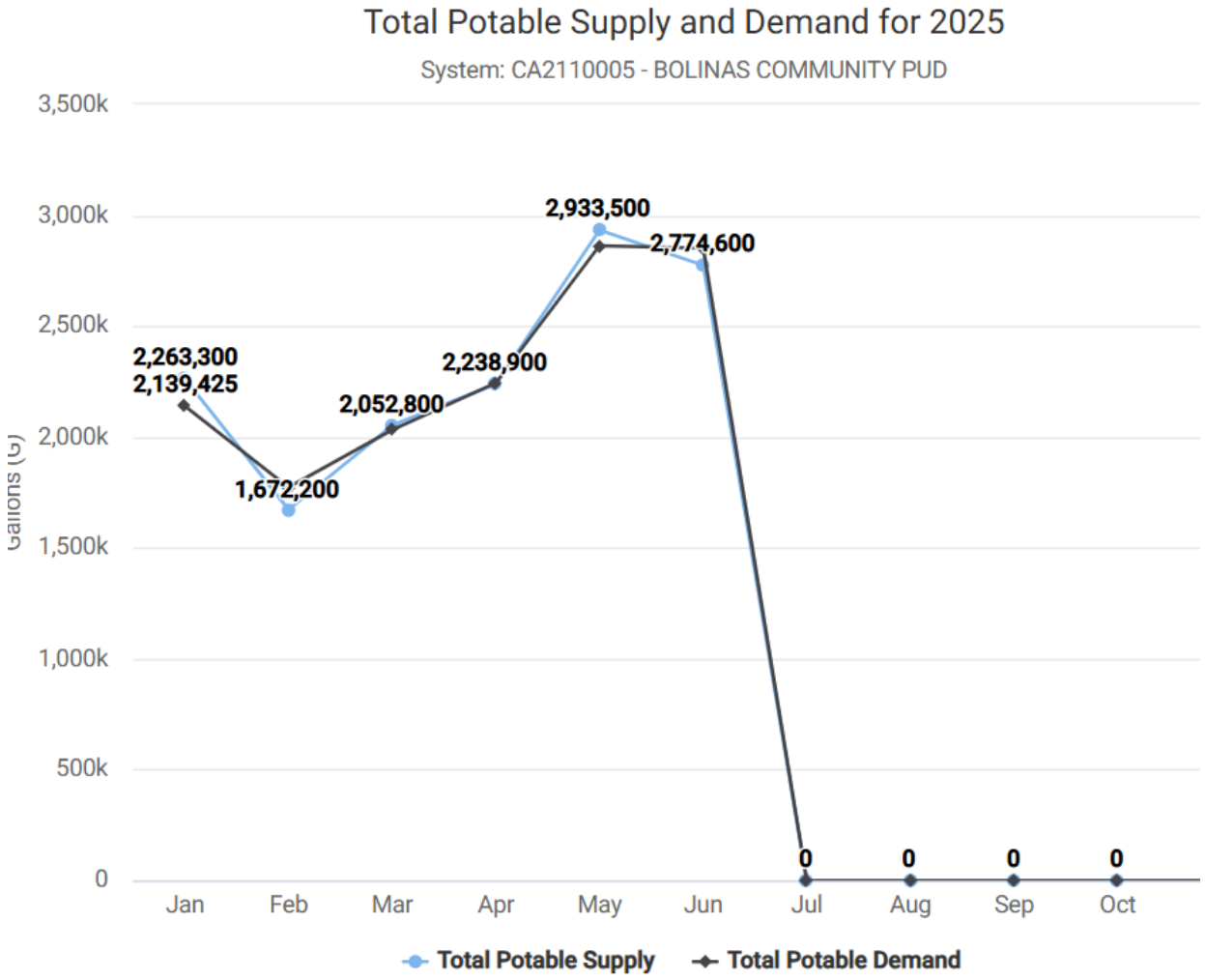


Average use per connection:

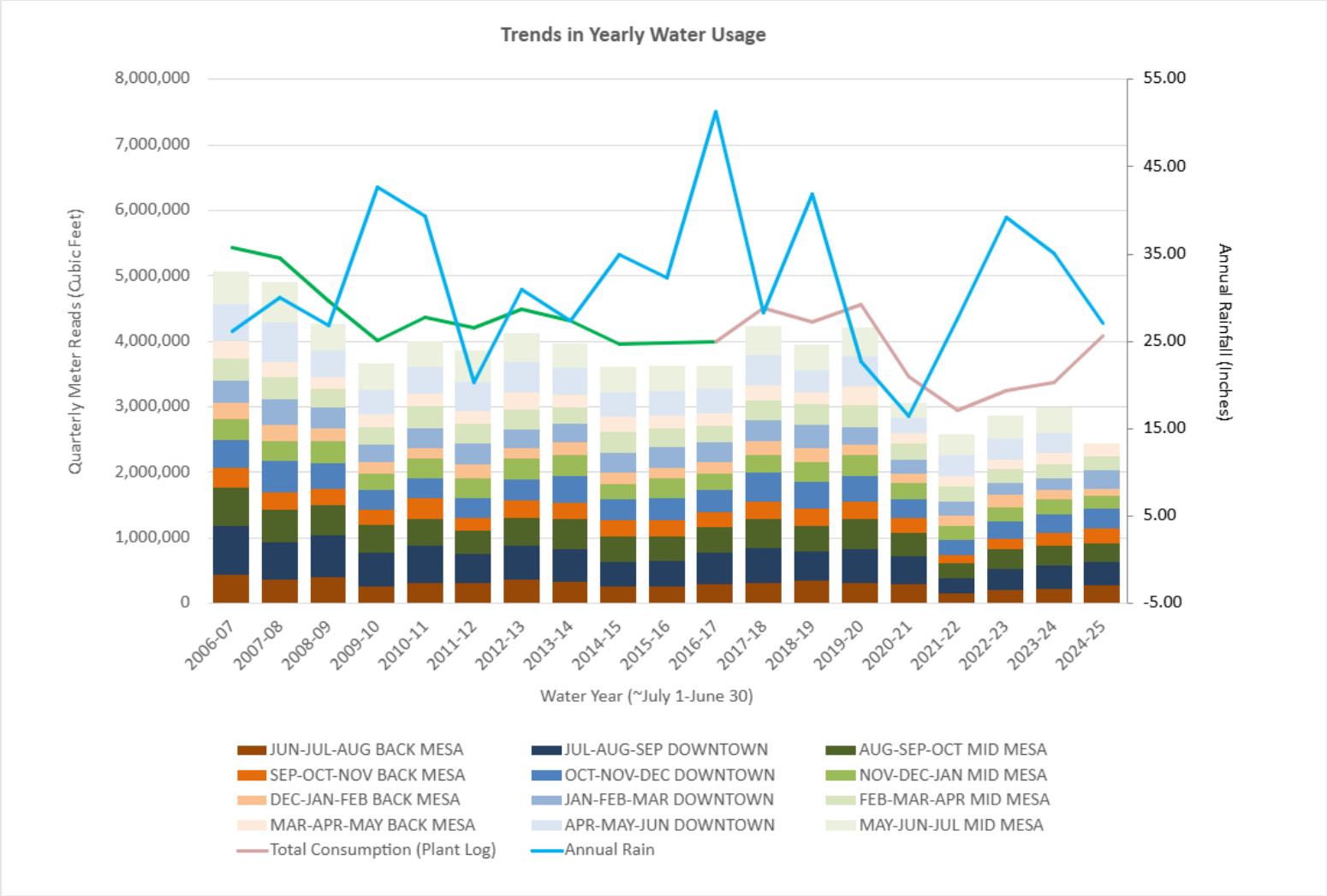
- June 2023 – 130 GPD
- June 2024 – 153 GPD
- June 2025 – 163 GPD

6.5% increase per connection compared to last June

2025 Water Usage Trends



Annual Trends Since 2006
Quarterly Water Usage through June 2025



This graph shows "Cumulative Quarterly Water Usage", as measured by "Regional Quarterly Water Meter Reads"

Remember: at the beginning of each month staff reads all meters within 1 of 3 given regions:

1) BACK MESA
2) DOWNTOWN
3) MID MESA

Annual Rain Fall is plotted as a BLUE LINE

Town Consumption Estimates, based on the amount of water leaving the treatment plant daily is shown in PINK LINE.

GREEN LINE is an extension of pink line, which models consumption based on an absolute unaccounted for water loss of 437,856 CuFt (~10% loss)