

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT

BCPUD

BOX 390 270 ELM ROAD BOLINAS CALIFORNIA 94924

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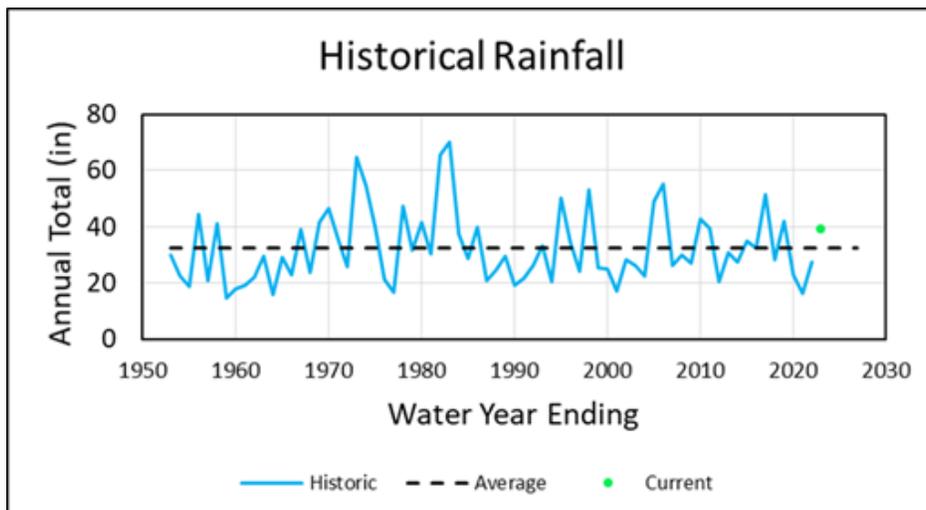
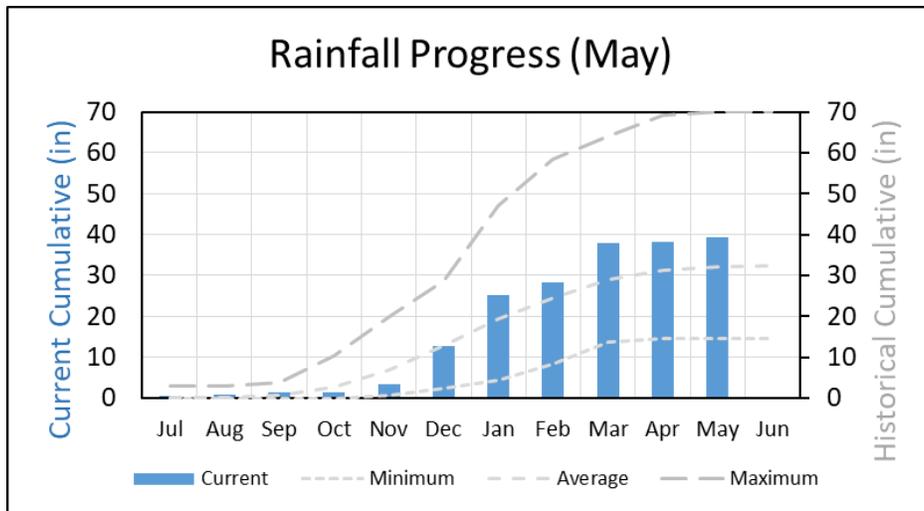


MEMORANDUM

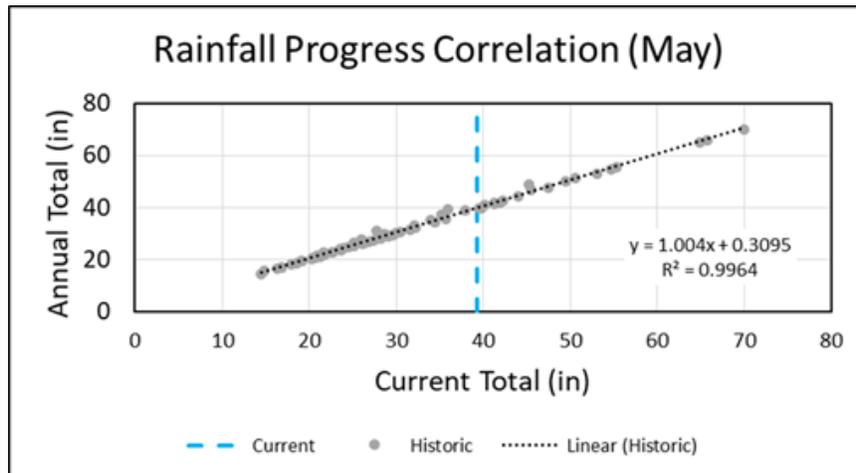
TO: Board of Directors
FROM: Jennifer Blackman
RE: Update on Water Supply
DATE: May 16, 2023

This memorandum provides a summary of the status of the District's water supply and related data and projections since the last memorandum to the Board dated March 13, 2023.

- Rainfall:** As of May 16, 2023, the district has received 39.27 inches of rain thus far in the 2022-23 rain year; this cumulative rainfall is well above the average rainfall for this time of year (see Rainfall Progress and Historical Rainfall graphs below).



A rainfall progress correlation analysis (see graph below) indicates a very tight correlation between current and historic rainfall; as such, the district has likely received its total rainfall for the rain year. That said, the correlation has a “best fit” prediction of 39.74 inches, so perhaps there is some potential for another half of an inch!



2. Water Production and Consumption: From March 14, 2023 – May 15, 2023, water *production* in the district averaged 64,879 gallons per day (GPD), which is an increase in production of 6,000 GPD as compared to the last reporting period, when production averaged 58,879 GPD. Note that the water treatment plant was off for eleven (11) days during this reporting period for operational reasons. *Water consumption* during this same timeframe averaged 61,758 GPD (approximately 105 GPD per connection), which was a slight uptick as compared to the last reporting period, when consumption averaged 103 GPD per connection. However, staff have noticed a jump up in consumption since the end of April: for the first fifteen days of May, consumption has averaged 67,534 GPD, or 115 GPD per connection

3. Water in Storage:

The Woodrat 1 Reservoir is full (7.6 million gallons, 6.9 million of which are usable), as is the Woodrat 2 Reservoir (9.3 million gallons, 8.6 million of which are usable).

4. Updated Base Flow Recession Model:

The graph on the next page 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 June 30, 2023. Creek flows continue to be much higher than in prior years as a result of the above-average annual rainfall received this rain year, with a projected creek flow of close to 175,000 GPD by June 30, 2023. This compares very favorably to creek flows of approximately 111,000 GPD on June 30, 2022, and as compared to creek flows of approximately 85,500 GPD on June 30, 2021 and creek flows of approximately 113,000 GPD on June 30, 2020. (See the two graphs following the base flow recession model depicting the correlation between annual rainfall and creek flow, as well as annual rainfall and creek flow history from 2020-2023.)

