

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT

BCPUD BOX 390 270 ELM ROAD BOLINAS CALIFORNIA 94924 415 868 1224

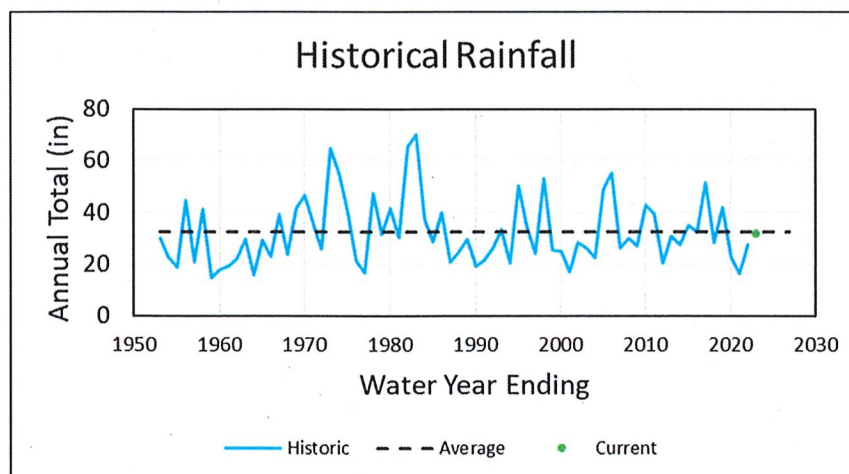
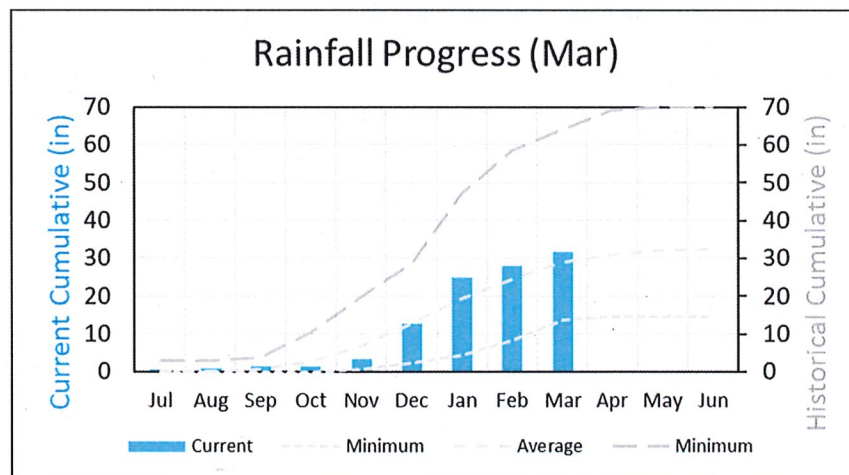


MEMORANDUM

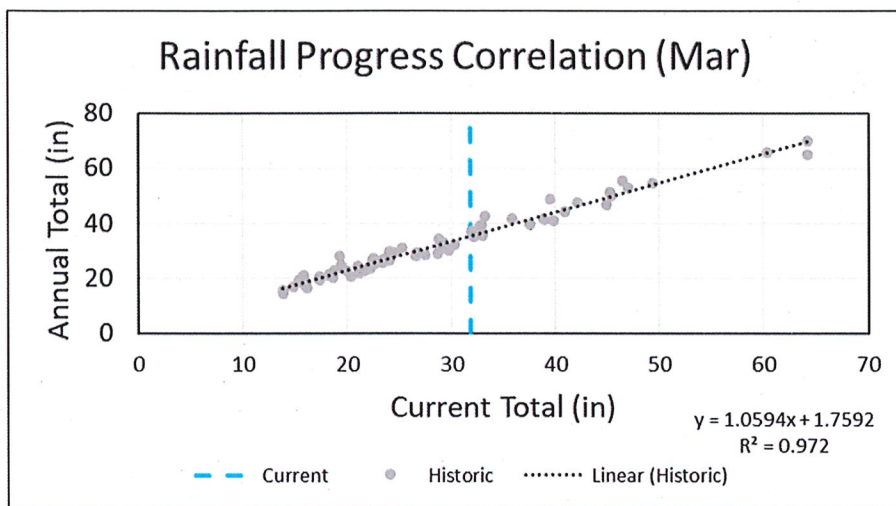
TO: Board of Directors
FROM: Jennifer Blackman *JWB*
RE: Update on Water Supply
DATE: March 13, 2023

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 February 15, 2023.

1. **Rainfall:** As of March 13, 2023, the district has received 31.74 inches of rain thus far in the 2022-23 rain year, with most of that rain received during the succession of "atmospheric river" storm events in late December and the first half of January. This cumulative rainfall is just above the average rainfall for this time of year (see Rainfall Progress graph below), even if there is no more rainfall in March.



A rainfall progress correlation analysis (see graph below) indicates that there are 46 years in the BCPUD’s rain records when the district has received 31.74 inches or less of rain through the end of March. During those 46 years, the district subsequently received a minimum annual rainfall of 14.49 inches, a maximum annual rainfall of 34.49 inches, and a “best fit” of 35.38 inches.



2. Water Production and Consumption: From February 14, 2023 – March 13, 2023, water *production* in the district averaged 58,879 gallons per day (GPD), which is an increase of approximately 7,000 GPD in production as compared to the last reporting period, when production averaged 51,657 GPD. Note that the water treatment plant was off for just three (3) days during this reporting period for operational reasons (as compared to five (5) days during the prior reporting period). Water *consumption* during this same timeframe averaged 60,652 GPD (approximately 103 GPD per connection), and is quite similar to the prior reporting period, when consumption averaged 61,552 GPD, or approximately 105 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 creek flows through June 1, 2023. Creek flows have responded to the rains with a current creek flow of approximately 240,000 GPD, and a projected creek flow of close to 180,000 GPD by June 1, 2023 if historically average rainfall occurs during April (2.14 inches) and May (0.89 inches) – see the red bars to the right side of the graph.

