

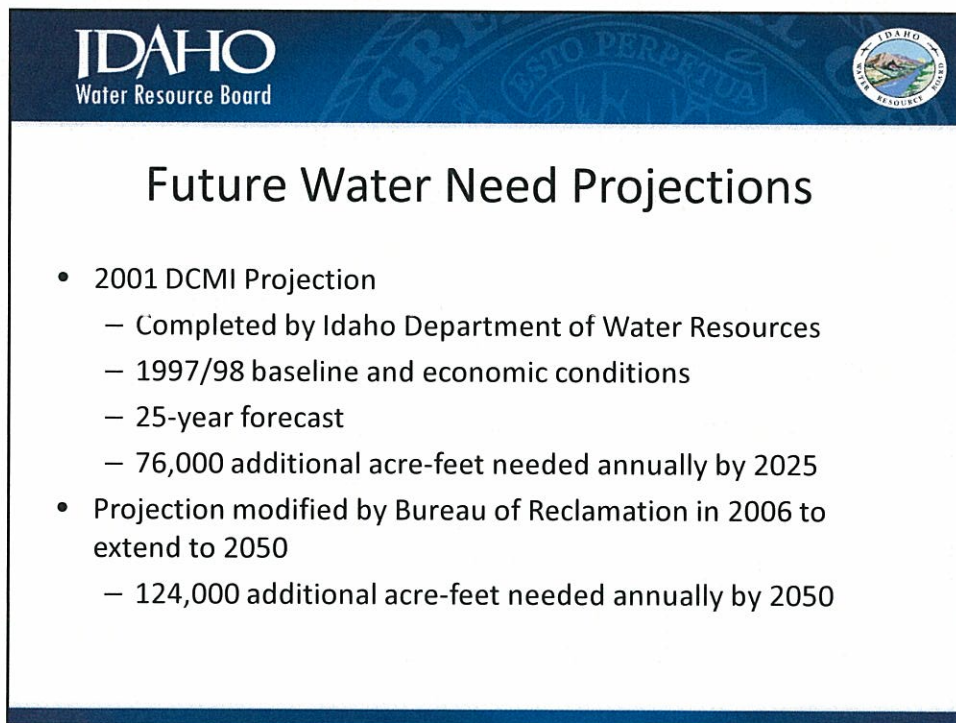
The slide features a background image of a person fishing in a river. In the top right corner, there is the Idaho Water Resource Board logo, which includes a circular seal with the text 'IDAHO WATER RESOURCE BOARD' and '1890'. To the right of the seal, the text 'IDAHO Water Resource Board' is displayed. The main title 'Treasure Valley Water Future' is centered in a large font, with the subtitle 'Uncertainties and Unknowns' below it. A horizontal line is positioned under the subtitle. At the bottom center, the presenter's name 'Helen Harrington' and the date 'October 20, 2010' are listed.

IDAHO Water Resource Board

Treasure Valley Water Future

Uncertainties and Unknowns

Helen Harrington
October 20, 2010



The slide has a dark blue header with the Idaho Water Resource Board logo on the left and a circular seal on the right. The main title 'Future Water Need Projections' is centered in a large font. Below the title, there are two bullet points, each with three sub-points. The first bullet point is '2001 DCMI Projection' and the second is 'Projection modified by Bureau of Reclamation in 2006 to extend to 2050'.

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Future Water Need Projections

- 2001 DCMI Projection
 - Completed by Idaho Department of Water Resources
 - 1997/98 baseline and economic conditions
 - 25-year forecast
 - 76,000 additional acre-feet needed annually by 2025
- Projection modified by Bureau of Reclamation in 2006 to extend to 2050
 - 124,000 additional acre-feet needed annually by 2050



Future Water Need Projections

2010 for Treasure Valley CAMP process

- Completed by WRIME
- 2010 baseline and economic conditions
- 733,000 additional acre-feet needed annually by 2060 for DCMI uses (includes urban/residential irrigation)
- 650,000 annual acre-foot reduction in agricultural irrigation use (some agricultural irrigation transitions to urban/residential irrigation use)
- 733,000 less 660,000 = 83,000 additional acre-feet needed annually by 2060 (assumes efficient transition from agricultural irrigation to DCMI uses)



Summary of Water Need Projections

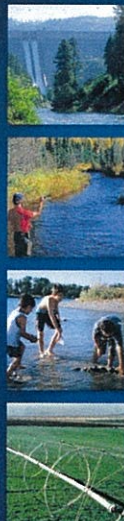
- 76,000 acre-feet by 2025 (IDWR, 2001)
- 83,000 acre-feet by 2060 (WRIME, 2010)
- 124,000 by 2050 (BOR, 2006)

Although there are some differences in the numbers, all projections show that a significant amount of additional water is needed in the Treasure Valley in the future.



What About “Unaccounted For” Future Water Needs? (or “Known Unknowns”)

- Climate Change – projections indicate warmer winters with less snow and more rain, reducing amount of water storage provided by snowpack. New storage would be needed just to stay even.
- Conjunctive Administration – likely to be implemented in Treasure Valley in the future and would likely result in mitigation obligations on the part of junior-priority ground water users to senior-priority surface water users. Extent of obligations are unknown until calls are made and orders issued.
- Some uses, including those above Lucky Peak, have not been administered in priority. Bringing these into priority administration will place an additional need on the system although its probably small.
- Others?



Range of Additional Future Water Demand (2060)

