Water Right Accounting in Water District 34

Presented by: David Hoekema
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Water Right Accounting Program

- Currently used in:
  - Bear
  - Boise
  - Payette
  - Upper Snake

- Developed as a tool to help a water master account for all the water in a river.

- Distributes natural flow based on water right priorities.

- Calculates natural flow and storage used by each diversion.
Water Right Accounting - Water District 34

- Big Lost Water Right Accounting program developed in 1993.
- Run sporadically, most recently run in 2010.
- Never gained acceptance in Water District 34.
Enhancements

- Unique factors for Water District 34
  - Rotation credit
  - Some users do not want water right delivered every day

- Enhancements unique to Water District 34
  - Create a Demand Database
  - Customize Water Right Accounting Program for Water District 34
Demand Database

- Will be used by watermaster to:
  - Improve the existing method for determining the natural flow priority date being delivered.
  - Create a complete and transparent record of the data the watermaster used to predict priority date for delivery.
Demand Database - Cont.

- Process to predict priority date:
  - Watermaster enters how much of their natural flow water rights each user wants delivered.

- Database will:
  - Determine the priority date to be delivered using only those water rights being demanded.
  - Produce a report listing the rights to deliver on each canal.
  - Generate a water right file needed to run the water right accounting program.
Demand Database Progress

- First version was presented to the District 34 watermaster in May 2015.

- Watermaster declined to use it, stating it required too much staff time to interact with water users and enter data.

- Updating it to automatically import user demand data from the Big Lost Irrigation District. This will reduce the effort required by the District 34 staff.
Three types of water will be represented in the program: natural flow, exchange flow, and stored flow.

Losses will be shared between natural flow, exchange flow, and stored flow.

The program will keep track of BLRID storage and rotation storage.
Timeline

- Demand Database
- WD34 Water Right Accounting Program
Questions

(208) 287-4830