Water Right Accounting in Water District 34

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Date: 8/4/2015

Water Right Accounting Program
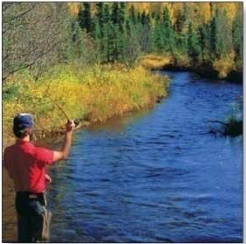
- ➤ Currently used in:
  - ➤ Bear
  - ➤ Boise
  - ➤ Payette
  - ➤ Upper Snake

- ➤ 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.
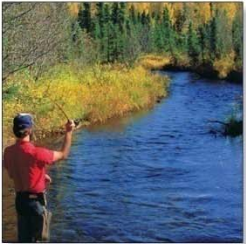
Water Right Accounting - Water District 34

➢ 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
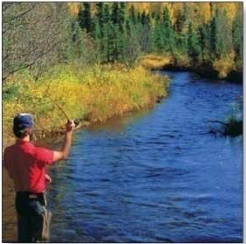
➢ Enhancements unique to Water District 34

  ➢ 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.
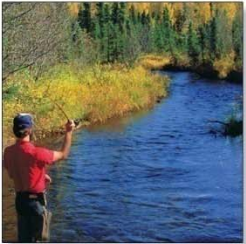
Demand Database - Cont.

➢ 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.

Enhanced Water Right Accounting Program - WD34

➢ 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

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