



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RIGHTS

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TO THE MEADOWVILLE WATER USERS:

On June 4, 2002 my staff made a field inspection of the diversion sites and current measuring devices in the Meadowville Distribution system. The data gathered during the inspection was analyzed to determine the type of measuring devices and/or any other improvements needed in the system to accurately measure the water diverted. The proposed recommendations are as follows:

1. J.R. Weston Ditch: It is recommended that an 18-inch parshall flume be installed downstream from the diversion point.
2. Judd Kimball Springs: A 9-inch parshall flume should be installed at a place in the creek channel below the culvert.
3. Meadowville Ditch: The 24-inch parshall flume needs to be reset and the ditch banks around the flume stabilized. The survey data indicated there is very little fall from the top of the ditch to approximately 600 ft downstream. This small slope causes submerged flow conditions at certain times of the year. Therefore, it is necessary for the commissioner to check the level of submergence by taking an additional water level measurement at the throat section. Then compute the submergence ratio of the downstream water level to the upstream level and use special rating tables to compute the flows, if the submergence ratio is greater than 70%.

The work must be inspected by the commissioner to ensure that the flumes have been installed correctly.

If you have any questions, please contact me at (801) 538-7380 or Gertrudys Adkins at (801) 538-7384.

Sincerely,

Lee H. Sim, P.E.

Assistant State Engineer for Distribution

cc: Bob Fotheringham
Chad Peart