

# Montana AWRA Pre-Conference Workshop\*

## *Understanding Irrigation Effects on Surface Water and Ground Water*

Wednesday, October 10, 2007 Lewistown, Montana

Sponsored by:

Montana Section  
American Water Resources Association



Montana Water Center



Soil and Water Conservation Society



Montana Watershed Coordination Council

The MT AWRA Preconference Workshop is truly designed to be a workshop. After the introduction, participants will learn how to conduct meaningful water measurement calculations and understand their importance as they relate to irrigation. Participants will also have time to ask questions of the presenters.

After lunch and an introduction to several irrigation field tools, participants will rotate between three stations along Big Spring Creek to learn to use these instruments in water management calculations. A training video will be provided in case of rain or snow.

### **AGENDA:**

- 9:00 Welcome
  - 9:15 Setting the Stage - Steve Custer, MSU Earth Science and Joel Calhoon, MSU Civil Engineering
  - 10:15 Break
  - 10:30 Kirk Waren, Montana Bureau of Mines and Geology, Hydrogeologist – Methods of measuring Water Quality
  - Noon Lunch - on your own
  - 1:00 Irrigation Water Measurement and Evaluation Field Tools - Peter Robinson, NRCS Irrigation Engineer, West Regional Technical Center, Portland, OR.
  - 2:20 Scott Brown, MT Salinity Control Association - Ground Water Impacts from Canal Leakage
  - 3:00 Break & Regroup at Field Site
  - 3:15 Field Demonstrations (3 stations 40 minutes each, rotation) - Location: Big Spring Creek near the Yogo Inn.
    - 1. Flow - Ron Shields, (retired USGS Hydrologist) Water Legend Hydrology and Tom Pick
    - 2. Temperature - TBA
    - 3. Gauging – Mike Roberts, DNRC
  - 5:00 Adjourn
- Alternate afternoon session if bad weather:
- 3:00 Break
  - 3:15 Caveman video on stream flow
  - 4:00 Adjourn

\* This workshop is free, pre-registration required.

For more information go to [awra.org/state/montana/events/preconference.htm](http://awra.org/state/montana/events/preconference.htm)