Water Measurement Workshop and Tour and Consultation Visits to Irrigation Districts

Schedule

Water Measurement Workshop and Tour

**Wednesday, February 2**  
8:30 a.m. - 9:00 a.m. Registration  
9:00 a.m. - 12:00 noon Workshop (see workshop outline)  
12:00 noon - 1:30 p.m. Luncheon  
1:30 p.m. - 3:00 p.m. Tour ramp flume installation at Delta Lake Irrigation District  
3:00 p.m. - 4:00 p.m. Hand-held metering devices Demonstration  

Consultation Visits to Selected Irrigation Districts

**Thursday, February 3**  
all day  
Consultation Visits to Selected Districts  

Sponsored by Texas Cooperative Extension, Texas A&M University Rio Grande Basin Initiative and the Lower Rio Grande Irrigation District Managers Association
Workshop Description

This workshop will present an overview of common flow measurement devices and structures used in irrigation districts. The workshop is designed for district managers, directors and others with an interest in water measurement. Topics include common water measurement terms and concepts, the principle types of measurement structures and devices, how to select which one to use, and proper placement, management and maintenance. Both open canal and closed conduit devices will be discussed. Two case studies will also be presented and discussed: The design considerations for sharp crested weirs that have been installed in Hidalgo County Irrigation District No. 1 and Delta Lake Irrigation District will be discussed.

Workshop Outline

I. Water Measurement Terms and Principles
II. Overview of Flow Measurement Devices
   1. Open Channel
   2. Farm Outlets
   3. Pipes
III. Proper Placement, Maintenance and Measurement
IV. Example Designs in the Rio Grande Valley
   1. Sharp Crested Weir
   2. Ramp Flumes

Instructors

Dr. Robert Hill, Irrigation Specialist
Utah State University Cooperative Extension
Logan, Utah

Alan Moore, Manager, Cameron Drainage District
(Former NRCS Engineer)
Harlingen

Dr. Guy Fipps, Extension Agricultural Engineer
Texas Cooperative Extension
College Station

Visits to Irrigation Districts

Dr. Hill and Dr. Fipps have agreed to extend their stay in the Valley to further assist districts with options that will be discussed at the workshop by visiting selected irrigation districts. This will provide districts a unique opportunity to have these experts look as specific situations on-site and make recommendations. Visits will be scheduled to as many districts as feasible. However, due to time constraints, only a limited number of visits will be possible. Only those districts participating in the February 2 program will be considered for on-site visits. Visits will need to be held to 1-2 hours in length.
Registration Form

Irrigation District Manager: Please register your district’s participation in the Workshop and visits to districts. A firm number is needed for the workshop for meal planning purposes. If registering as an individual, list your name. A registration fee will not be charged for this workshop. Workshop expenses are being covered by the Texas A&M University Rio Grande Basin Initiative and the Lower Rio Grande Irrigation District Managers Association.

Contact Person ________________________________________________________________

Irrigation District ______________________________________________________________

Leave blank if not affiliated with a district

Office Telephone ___________________________ Mobil Telephone _______________________

☐ Yes, my district will participate in the Water Measurement Workshop on Wednesday, February 2.

_______ Number of people attending

Visits to Irrigation Districts

☐ Yes, my district is interested in participating in a visit from Dr. Hill and Dr. Fipps to my district. List those who will participate in the visit, their affiliation with your district and your time preference. A limited number of visits will be scheduled.

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<th>Name</th>
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Indicate your preference of time for scheduling a visit to your district by placing 1st by your first choice, 2nd by your second choice in the space below.

☐ Thursday February 3 morning
☐ Thursday February 3 afternoon

Fax this registration form to the Hidalgo County Extension Office at 1-956-383-1735 or call at 1-956-383-1026 or 1-800-638-8239 prior to Monday, January 31