

Smart Irrigation Technology Testing Laboratory
Department of Biological and Agricultural Engineering
Texas A&M Agricultural Extension Service

SPRINKLER TESTING SERVICES



Indoor Pressure/Flow Sprinkler Testing Set Up

Methodology and Testing Equipment

Pressure and Flow Testing is conducted within a controlled laboratory environment. A datalogger records both input and output pressure; and total flow and flow rate during testing. A variable frequency drive centrifugal pump along with fixed and adjustable pressure regulators are used to control flow and pressure during testing.

Testing equipment includes:

- Goulds ½ HP, 3 Phase, 9 Stage Centrifugal Pump with Variable Frequency Drive
 - Flows up to 10 GPM
 - Pressures from 70 PSI to 120 PSI
- Seametrics Low Flow Mag Meter
 - ± 0.01 Gallon Flow Resolution
- Dual Campbell Scientific CS451 Pressure Transducers
- Pressure Regulation
 - Senninger PRLV Inline Pressure Regulators (30, 35, 40, 45, 50, 60, and 70 PSI)
 - CASH ACME EB 25 Adjustable Pressure Regulator (20 to 90 PSI)

Sprinkler Testing Fee Schedule

A test is defined as measuring the performance of a sprinkler at a single targeted pressure setting during three repetitions.

1. Basic Flow and Pressure Analysis - \$250 per test
2. Flow, Pressure and Radius of Throw Analysis - \$300 per test
3. Flow, Pressure, Radius of Throw and Distribution Analysis - \$350 per test

Invoicing

Invoicing is through the Texas A&M AgriLife Extension Service. We do not require a written agreement for testing services and invoicing. However, we can execute a Contractual Services Agreement if needed by the customer.

Contacts

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