*The Technical Services Division
    is recognized globally for expertise in grain inspection technologies.*

At our technical center in Kansas City, we provide:

- technical leadership, training and support services
- inspection methods development
- specialized analytical tests
- national quality assurance and standardized processes
- final appeal inspections on GIPSA's field-based testing services

We are the reference for all methods used for official certification of grain quality.

Rapid Tests

Functional Quality Prediction

Emerging Technologies

Pesticide Residue Analysis

Digital Media

U.S. DEPARTMENT OF AGRICULTURE
FEDERAL GRAIN INSPECTION SERVICE
TECHNICAL CENTER

Artificial Neural Network

Biotechnology Analysis

Unified Moisture Calibration

Rapid Test Performance Evaluation Programs
We maintain and improve reference methods and evaluate rapid tests for detecting mycotoxins and biotechnology-derived grains.

Functional Quality Assessment
Reference methods to assess wheat end-use quality are being developed to facilitate U.S. wheat exports.

Pesticide Residue Method Development and Testing
TSD maintains and improves methods for detecting pesticide residue in grains.

Biotechnology
We play a critical role in improving the reliability of testing for biotechnology-derived grains and oilseeds on a global basis through the USDA/GIPSA Proficiency Program and related activities.

Moisture Measurement Methods Development
TSD has developed a Unified Moisture Algorithm, a single calibration that may be used for all grain types.

Artificial Neural Network Calibration
GIPSA worked cooperatively with groups from Canada, Australia, and several European countries in the development and evaluation of a global artificial neural network (ANN) near-infrared transmittance (NIRT) calibration.

Educational Services
The grain industry relies on TSD to provide specialized instruction for their customers and employees. The Digital Media Group creates and disseminates visual reference materials, and interactive training modules in several languages on a variety of inspection topics.