

TECHNICAL SERVICES DIVISION

*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.

METHODS DEVELOPMENT

Emerging Technologies

Rapid Tests



Functional Quality Prediction



Pesticide Residue Analysis



Digital Media



Artificial Neural Network



Unified Moisture Calibration



Biotechnology Analysis



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

TSD is actively working on standardizing existing reference methods and on the development of new, more rapid methods to assess the end-use quality of U.S. Wheat.

Pesticide Residue Method Development and Testing

TSD develops new multi-residue methods, provides official testing services, and export survey programs for pesticide residues in U.S. grain.

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.