



2015

INDIANA SEED CONTROL REPORT

Providing education, service and protection to Indiana Consumers and seed industry to assure quality seed products of the highest integrity are truthfully represented and available in the marketplace

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The Indiana Seed Law (IC 15-15-1) is administered by the Office of Indiana State Chemist & Seed Commissioner. Seeds are the primary means to produce the plants which carry the traits that provide us with the food and fiber for an increasing population with ever higher expectations of the products purchased. Our field, laboratory, and office staff strive to carry out our mission in administration and enforcement of the Act.

- INSPECTION, SAMPLING AND TESTING IN SUPPORT OF THE INDIANA SEED LAW**

Total Official Samples Collected in 2015:	1,563	Seed Permit Holders (distributors/labelers):	294
Total Service Samples Tested in 2015:	1,416	Crop Kinds Tested:	79
Total Samples Tested in 2015:	2,979	Label Claims Verified:	8,265
Total Inspectional Visits Made in 2015:	410	Retail Dealers Visited and Sampled:	327
Individual Labelers Sampled:	188		

- ENFORCEMENT ACTION TAKEN IN 2015**

Enforcement action initiated in 2015 was based on the seriousness of the violations found as a result of either laboratory analysis or inspectional observations discovered during facility inspections.

Official Samples Tested in 2015:	1,563		
Official Samples Passing:	1,488	95.2%	
Samples Deficient:	75	4.8%	Impacting 244,723 pounds of seed
Minor Violations (relabeling orders)	*42	2.7%	Impacting 168,400 pounds of seed
Serious Violations (stop sale orders)	**33	2.1%	Impacting 76,400 pounds of seed
Inspector-Issued Stop Sale Orders	78	Orders	Impacting 76,175 pounds of seed

Laboratory analysis done to verify label claims of “mechanical purity” (included Pure Seed %, other crop seed %, inert matter %, weed seed %, noxious weed seed), seed count, and “viability” (germination, hard seed and dormancy). Additional claims evaluated included genetic trait verification for glyphosate tolerance (by both lateral flow immunoassay and bioassay) and Bt traits including Cry1Ab, Cry3Bb, Cry34, MCry3A, and Cry1F (utilizing lateral flow immunoassay test kits).

* Relabeling orders issued against seed lots classified as “minor” violations as a result of laboratory analysis

** Stop sale action taken against seed lots classified as “serious” violations as a result of laboratory analysis

- SEED DISTRIBUTION IN INDIANA**

Table 1. Kind of Seed	2014 Distribution	2015 Distribution
Alfalfas	3,197,650 lbs	2,632,000 lbs
Clovers	582,000 lbs	575,800 lbs
Vegetables	601,000 lbs	526,400 lbs
Grasses	9,468,000 lbs	10,503,000 lbs
Corn	116,224,000 lbs	115,441,800 lbs
Soybeans	372,345,700 lbs	377,653,900 lbs
Wheat	36,009,100 lbs	29,464,400 lbs
Oats	2,529,800 lbs	3,112,300 lbs
Miscellaneous	20,583,500 lbs	18,594,500 lbs

- GENETIC TRAIT TESTING MONITORING PROGRAM**

Soybean varieties and corn hybrids were again monitored in 2015 low level contamination of conventional lines with GM traits. Minimal selective testing was done on random non-GM seed lots sampled during the 2015 season to determine if any possible low-level contamination was present. An immunoassay test was utilized to screen seed lots for low-level contamination of GM traits.

- USDA FEDERAL SEED ACT ENFORCEMENT**

Samples are collected and submitted to the USDA Seed Regulatory and Testing Branch in support of the Cooperative Agreement for enforcement of the Federal Seed Act on shipments of seed moving in interstate commerce. OISC routinely submits file samples and documentation on seed lots that are found to be in violation of the Indiana Seed Law and Federal Seed Act. Final settlement (\$) on cases completed and submitted from previous years was achieved during 2015 involving 10 cases and 10 interstate shippers, amounting to a total of \$27,875 in settlement fees.

A case summary is shown below:

Case #12-0099	Smith Seed Services, Halsey, OR	\$3,825 settlement
Case #13-0013	Loveland Products, Greeley, CO	\$ 525 settlement
Case #13-0011	Lewis Seed Co., Louisville, KY	\$1,750 settlement

Case #14-0150	Deer Creek Seed, Ashland, WI	\$ 675 settlement
Case #13-0177	Rose Agri-Seed, Canby, OR	\$ 525 settlement
Case #14-0173	Plantation Products, Norton, MA	\$2,475 settlement
Case #15-0013	Crossman Seed, E. Rochester, NY	\$ 350 settlement
Case #14-0058	Pennington Seed, Madison, GA	\$8,125 settlement
Case #14-0160	Swanson Seed, Sherwood, OR	\$2,475 settlement
Case #14-0078	DLF Pickseed USA, Halsey, OR	\$7,150 settlement

- PROVIDING SUPPORT TO OTHER AGENCIES AND UNIVERSITY DEPARTMENTS**

The OISC seed program provides support in the form of seed testing and document review and approval to the following State agencies:

INDOT (Indiana Dept. of Transportation) – Road construction and renovation projects in Indiana that utilize seed planting to stabilize soil utilize OISC as a reviewer of documents (seed analysis reports) for each specific seed lot used by contractors around the state. INDOT requires an official review be done by OISC on each specific project before the contractor is allowed to proceed with seeding and sowing. Case Review summaries are issued by the seed administrator for each INDOT Job Number utilizing seed. During 2015, the seed administrator reviewed 2,648 documents for 89 specific INDOT Projects completed in the state. In the case of seed lots utilizing seed of the standard agricultural crop kinds used in the Midwest, OISC inspectors visit Indiana seed dealers and sample specific seed lots destined for use on INDOT projects. Samples are submitted to the state seed laboratory for testing and results are provided to INDOT and the dealer to determine if lots meet the minimum quality standards set forth in INDOT guidelines. In 2015, 36 seed lots were sampled and tested to determine if quality levels were sufficient to meet INDOT guidelines.

Certificates of Origin – Indiana seedsmen marketing their seed products overseas are sometimes faced with certain demands of the receiving foreign country. Some countries require a “certificate of origin” that declares a confirmation of where that seed was grown. Requests for certificates declaring this are forwarded to the OISC seed program along with supportive documentation and an official “government certificate” is prepared and supplied to the seedsman for forwarding to the requesting foreign country. In 2015, two (2) certificates were issued by OISC to seedsmen in Indiana for this purpose.

Certificates of Free Sale – Some foreign countries require the issuance of a “certificate of free sale” seeking the assurances from a government agency that specific products comply with the requirements of US laws for distribution in our domestic commerce. In 2015, the OISC Seed Administrator issued certificates for 3 specific products achieving registration under our Indiana Seed Law or Legume Inoculant and Plant Growth Substances Law at the request of the exporting company.

Purdue P&PDL/ADDL - Plant & Pest Diagnostic Laboratory/Animal Disease Diagnostic Laboratory (Purdue) The OISC seed laboratory is called upon to identify unknown seed specimens in submitted samples from either the P&PDL and/or ADDL diagnostic laboratories on the Purdue campus. During 2015, two (2) samples were received by the state seed laboratory for identification and/or confirmation for these laboratories.

OISC Feed Control Section – Analysis was performed on official feed samples obtained by OISC staff in support of the Indiana Feed Law, to analyze for weed seed content and other contaminants via a microscopic examination. In 2015, 31 samples were analyzed with 4 found to be out of compliance with feed rule limitations (12.9%)

- PROVIDING SUPPORT TO INDIANA FARMERS AND GROWERS**

The Indiana State Seed Laboratory, by virtue of specific language in the Indiana Seed Law which reads ...”the state seed commissioner is authorized to make or provide for making purity and germination tests for farmers and dealers on request ...” provides a fee-based testing service to farmers and dealers. A summary of 2015 testing is shown below:

Total Samples Submitted and Tested	1,416	No. of Clients Submitting Samples	123
Number of Seed Crops Tested	187		
Total Testing Fees Collected	\$9,464		