

**Office of Indiana
State Chemist &
Seed
Commissioner
Annual Seed
Regulatory
Report**

2015

175 South University Street, Purdue University, West Lafayette, IN 47907

Inspection &
Testing
Summary



2015 Indiana Seed Regulatory Program Annual Report



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INDIANA SEED CONTROL 2015 ANNUAL REPORT

Allow me to present this 2015 annual report of the Office of Indiana State Seed Commissioner. It represents a summary of official inspectional activities relating to seed control in Indiana, as well as laboratory analyses performed on official samples collected under the authority of the Indiana Seed Law for agricultural and vegetable seeds distributed in Indiana.



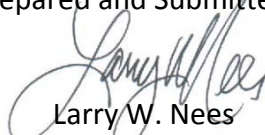
The activities of our seed regulatory program revolve around our mission statement: ***“Provide education and service to consumers of seed and the seed industry and assure a quality product is available in the marketplace and truthfully represented.”***

The Indiana Seed Law is a “truth-in-labeling” law requiring basic quality factors to be expressed to represent a level of quality to potential purchasers and consumers. The purpose of the law is to provide the consumer with adequate information, through fair and consistent labeling, to make intelligent purchases of agricultural and vegetable seed products.

The inspection staff of the Indiana State Chemist and Seed Commissioner provides market place surveillance throughout the state through inspectional visits to all retail sales outlets offering seed products for sale. These products routinely consist of various agricultural crop seeds, forage seeds, lawn and turf seeds, and vegetable seed kinds. Samples are obtained through official sampling methods and are analyzed in the state seed laboratory to determine compliance with labeled guarantees.

Our office is a charter member of the Association of American Seed Control Officials (AASCO) and the Association of Official Seed Analysts (AOSA) and we abide by the rules and protocols established by those associations. This report accurately reflects the dedication to our statutory responsibilities to enforce the Indiana Seed Law and provide consumer protection to Indiana farmers and seedsmen.

Prepared and Submitted By:


Larry W. Nees
Seed Administrator



Office of
Indiana State Chemist & Seed Commissioner

OUR PRESENCE IN INDIANA ...

The Indiana Seed Commissioner was established in 1921 with the passage of House Bill No. 99 which was signed into law on February 24, 1921 to create the Indiana Seed Law, a “truth-in-labeling” law.

Seed testing facilities were established at Purdue University following passage of that first law to provide support to enforcement activities conducted under the authority of the law. Testing services were also provided for residents and consumers of the state to assess seed quality on seed purchased and grown by farmers. The Office of Indiana State Chemist and Seed Commissioner (OISC) is located on the campus of Purdue University and housed in the Biochemistry Building in the College of Agriculture. This proximity to faculty, researchers and extension staff in the various agricultural sciences is beneficial in providing information on new technologies constantly emerging in the regulated industries OISC comes in contact with.

THE INDIANA SEED INDUSTRY

Indiana Seed Permit* holders number 289

(Both in-state and out-of-state distributors who market seed under their private label)

SEED DISTRIBUTION IN INDIANA

Table 1 below illustrates a comparison breakdown of reported pounds of agricultural and vegetable seeds distributed in Indiana on which inspection fees were paid during the calendar years of 2014 and 2015. These figures and categories reported represent those specified on the quarterly reports submitted from all permit holders licensed to do business in Indiana, as required by the Indiana Seed Law. The law requires all distributors who cause seed to be distributed in the state to report total sales made. Inspection fees are assessed based on the kind and amount of seed sold. Current fees assessed on total distribution are 30 cents/100 pounds sold for alfalfas, clovers, grasses and vegetables, and 15 cents/100 pounds sold for all other seeds.

Table 1. Kind of Seed	2014 Distribution	2015 Distribution
Alfalfas	3,197,650 lbs	2,632,000 lbs
Clovers	582,000 lbs	575,400 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

PROFESSIONAL AFFILIATIONS ...

The Office of the Indiana Seed Commissioner maintains membership in national seed organizations and associations and agreements with federal agencies.

AASCO (Association of American Seed Control Officials) The Seed Commissioner's office participates as an active member of AASCO. The Association of American Seed Control Officials is an organization of seed regulatory officials from the United States and Canada. The Association was organized in 1949, from an outgrowth of regional meetings held in various parts of the United States. The members meet annually to discuss mutual concerns of seed law enforcement, to be updated on new developments in the seed industry, and to update the Recommended Uniform State Seed Law (RUSSEL) which the organization developed and maintains as a "model" law for states and federal programs.

AOSA (Association of Official Seed Analysts, Inc.) The State Seed Laboratory is a member of the Association of Official Seed Analysts, Inc., (AOSA) a national body responsible for development of uniform testing rules utilized in the U.S. and Canada and recognized internationally. AOSA was formed in 1908 in response to initial attempts by individual states to develop seed laws. This was the beginning of regulated seed commerce in the United States. Initial priorities included, as was defined in the constitution, an attempt to seek uniformity and accuracy in methods, results, and reports. It set as its objective an effort to perfect and make publicly known, through publication, uniform rules for seed testing. Primary functions include:

- Establish the AOSA Rules for Testing Seeds which are generally adopted by most states as the rules for testing seeds in their respective states
- Contribute to the refinement and modification of the rules and procedures for seed testing
- Ensure that testing procedures are standardized between analysts and between laboratories
- Influence and assist in enforcement of appropriate seed legislation at state and federal levels

USDA Seed Regulatory & Testing Branch - The Indiana Seed Commissioner's Office maintains Cooperative Agreement #12-25-A-3330 with the USDA Seed Regulatory and Testing Branch for mutual assistance and cooperation in regulatory matters pertaining to seed shipped into the state from out-of-state vendors. The federal agency authorizes the State Seed Commissioner to sample seed and inspect records pertaining to seed shipments made into Indiana subject to the Federal Seed Act. The Federal Seed Act, by virtue of its basic similarity to the Indiana Seed Law, supplements the State Law.

ANALYSIS & TESTING ACTIVITIES

The Indiana State Seed Laboratory is an active member of the Association of Official Seed Analysts (AOSA) and the methods used for sample preparation and analysis are those approved by the Association. Under such "Rules for Testing Seeds" a standard analysis has been developed in conjunction with the enforcement of labeling laws that furnishes information as to the composition of the seed sample and the ability of the seed to produce plants. The rules, which are routinely followed, summarize and make available the accumulated experience of seed analysts.



The laboratory also offers a service testing program available to the general public. Individuals and/or companies requesting analysis information may submit samples to the laboratory for testing and specify the type of test or tests desired (purity, germination, noxious weed seed exam). Testing fees are \$6 per sample for individual purity, germination and/or identification tests, and \$10 per sample for complete tests

(purity, germination, noxious weed exam). Detailed reports of analysis are furnished to the sender at the completion of the testing.

2015 SAMPLE COLLECTION AND ANALYSIS

	<u>Total</u>	<u>Passed</u>	<u>% Passed</u>
Total Official Samples* Tested:	1,563	1,488	95.2%
Total Service Samples** Tested:	1,416		
(Includes Bird Feed Samples)	(31)		
Total Samples Tested in 2015:	2,979		

* Samples obtained by state inspectors for regulatory enforcement program

** Samples submitted by farmers/consumers for testing

INSPECTION & ENFORCEMENT

Seed Inspectional Visits Made in 2015	410		
Individual Labelers Sampled in 2015	188		
Total Official Samples Collected in 2015	1,563		
Official Samples Passing All Claims	1,488	95.2%	
Samples Deficient	75	4.8%	244,723 lbs
* Minor Violations Based on Product Analysis	42	2.7%	168,357 lbs
(* requiring relabeling of products)			
Serious Violations Based on Product Analysis	33	2.1%	76,366 lbs
Inspector-Issued Stop Sale Orders	78		76,175 lbs
Total Pounds of Seed Under Stop Sale Order			152,541 lbs
Retail Dealers Sampled in 2015	327		
Label Claims Verified By Analysis	8,265		
Crop Kinds Tested in 2015	79		

RECORD AUDITS ON INTEGRATED REFUGE PRODUCTS

Requests for seed lot records for “integrated refuge products” were made by OISC inspectors to monitor seed quality and blending of these “RIB” blended products. In lieu of obtaining official samples and conducting purity testing to separate components, inspectors were able to review blending records for these types of seed products. This involved reviewing blend records showing weights and final percentages of each component. In 2015 OISC inspectors conducted audits on 73 seed lots labeled by 16 different seed companies.



The following Table 2 represents a general summary of control work for all seed samples examined. The inspectional record for all companies sampled is shown including overall sample totals, the number of samples passing and the specific violations noted for each company. “Serious” violations (shown) involved enforcement action requiring either relabeling or removal from sale.

Table 2. 2015 Inspection of Agricultural and Vegetable Seeds in Indiana

	<u>Total Samples</u>	<u>Total Passed</u>
1 st Choice Seeds, Milton, IN	10	9
Ace Hardware, Rockville, IN	4	4
Advanta US Inc., Herford, TX	1	1
Ag Alumni Seed Improvement, Romney, IN	4	4
Ag Plus Turf Center, New Haven, IN	5	5
Ag Venture Inc, Kentland, IN	30	29
Agri Maxx Wheat Company, Mascoutah, IL	3	2
Amturf Enterprises LLC, Jefferson, OR	6	3
Lawn Grass Mix, Lot #SS14141111, Insp.#: 150818	Germination Red fescue	Claim: 85 Found: 51%
Lawn Grass Mix, Lot#L152-14-838-1, Insp.#: 151247	Germination Ky Bluegrass	Claim: 85% Found: 67%
Lawn Grass Mix, Lot#L152-15-1016-3, Insp.#: 151248	Pure Seed	Claim: 43.93% Found: 35.77%
Arkansas County Seed Co., Fayetteville, AR	1	1
Axis Seed LLC, Adel, IA	1	1
Baker Creek Heirloom Seed, Mansfield, MO	1	1
Baker Seed Company, West Salem, IL	2	2
Barenbrug USA, Tangent, OR	24	22
Beck’s Superior Hybrids Inc, Atlanta, IN	12	12
Behm & Hagemann Inc, Peoria, IL	5	5
Bentley Seed Inc, Cambridge, NY	3	3

BFG Supply Co., Harrisonburg, VA	4	4
Bierma Hardware Inc., Wheatfield, IN	2	2
Bio Gene Seeds, Sardinia, OH	2	0
Soybeans, Lot# DM-301-14, Insp.#: 150828, Germination Claim: 95%		Found: 52%
Seed Count Claim: 3005		Found: 2763
Bio-Town Seed, Reynolds, IN	4	4
Birch Road Greenhouse, Bremen, IN	3	3
Bionide Products, Inc., Oriskany, NY	2	0
Lawn Mix, Lot# L152-12-2025-75, Insp.#: 151499,	Pure Seed T.Fescue Claim: 59.27%	Found: 47.84%
	Germination T. Fescue Claim: 90%	Found: 59%
Lawn Mix, Lot# L152-12-1590-75, Insp.#: 151500,	Germination Fine Fescues Claim: 85%	Found: 32%
	Germination Ky Bluegrass Claim: 85%	Found: 69%
Botanical Interests Inc, Broomfield, CO	14	14
Brodbeck Seed Inc, Wabash, IN	26	26
Burpee Garden Product Co, Warminster, PA	64	63
Onion, Lot# 13, Insp.#: 150990	Germination Claim: 70%	Found: 38%
Burtch Seed Company, Celina, OH	2	2
Byron Seeds LLC, Marshall, IN	40	33
Clover, White, Lot# M140507B-CT, Insp.#:150310	Pure Seed Claim: 65.8%	Found: 59.57%
Oats, Lot # 5253DH, Insp. #: 151442	Pure Seed Claim: 99.78%	Found: 98.48%
Caudill Seed Co, Louisville, KY	9	9
Caudill Seed Co., Morehead, KY	9	9
Caudill Seed Co., Granite, OK	1	1
Central Farm Supply, Louisville, KY	8	8
Champion Seed Co., Woodburn, IN	6	6
Channel Bio LLC, St. Louis, MO	20	20
CISCO Companies, The, Indianapolis, IN	73	67
Brome, Smooth, Lot# 1305, Insp.#: 150469	Germination	Claim: 85% Found: 36%
Mixture, Pasture, Lot# CPM-152331, Insp.#: 151475	Germination	Claim: 85% Found: 51%
Clemmons & Hamner Seed Inc., Killen, AL	1	1
Colonial Landscaping Garden Shop, Sullivan, IN	3	3
Cooks Garden, Warminster, PA	5	5
Cooper OK Hardware, Stilesville, IN	4	4
Country Corner Greenhouse, Marshall, IN	2	2
Country Garden Greenhouse, Westport, IN	2	2
Country Rodes Greenhouses, Rochester, IN	1	1
Cox's Plant Farm, Clayton, IN	5	5
CPS, Switz City, IN	1	1
Crookham Company, Caldwell, ID	1	1
Crop Tech Seeds, Vincennes, IN	5	4
Dairyland Seed Co Inc, West Bend, WI	6	6
Deer Creek Seed Co., Ashland, WI	9	8
Direct Enterprises, Westfield, IN	10	10
Discount Seeds Inc., Watertown, SD	3	2
Dow AgroSciences LLC, Indianapolis, IN	2	2

Duncan White LLC, W Farmington, OH	1	1	
Dutch Country Store, Gosport, IN	3	3	
Eagle Eye Marketing Group, Berlin, CT	1	1	
Ebberts Field Seeds Inc, Covington, OH	3	3	
Encap LLC, Green Bay, WI	1	0	
Lawn Mix, Lot# C5593201, Insp#150817,	Germination T. Fescue	Claim: 85%	Found:69%
	Germination Ky. Bluegrass	Claim: 80%	Found: 2%
Federal Hybrids Inc., West Bend, IA	5	5	
French's Hybrids, Inc., Wakeman, OH	2	2	
Frontiersmen Inc, Kentland, IN	6	6	
Garden Center, The, Indianapolis, IN	1	1	
Glick Seed Service, Columbus, IN	3	3	
Glick Farms, Hartsville, IN	1	1	
Granny's Market, North Judson, IN	2	2	
Grazing Systems Supply, Greensburg, IN	2	2	
Great Lakes Hybrids, Ovid, MI	3	3	
Growmark, Bloomington, IL	1	1	
Harrells LLC, Lakeland, FL	5	5	
Hesco, Watertown, SD	2	2	
Higginbotham Seed Company , INC, Paris, IL	1	1	
High Mowing Organic Seeds, Wolcott, VT	2	2	
Hubner Seed Co Inc, West Lebanon, IN	3	3	
Hundley Seed Co., Champlain, VA	2	2	
Hurt Seed Co., Halls, TN	1	1	
Infinity Fertilizers Inc., Milan, IL	2	1	
Lawn Mix, Lot#: 14004-7, Insp.# 151243	Germination Tall Fescue	Claim: 86%	Found:36%
DLF International Seed, Halsey, OR	15	13	
Isch Seeds LLC, Bluffton, IN	1	1	
J & C Feed and Farm Supply, Scottsburg, IN	1	1	
Jakes Feed & Garden, Valparaiso, IN	2	2	
Jomar Seeds, Plymouth, IN	1	1	
Jonathan Green Inc., Farmingdale, NJ	6	6	
Kal-Bro Farms LLC, DeMotte, IN	2	2	
Kammans Greenhouse & Farm Market, Vallonia, IN	2	2	
Kewanna Pro Hardware & Supply	2	2	
Kingsbury Elevator Inc., Kingsbury, IN	3	3	
Koontz Hardware, Bremen, IN	2	2	
Kratz Farms, Slinger, WI	1	0	
Oats, Lot# 1970EK3.4.9, Insp.# 151446	Germination	Claim: 90%	Found:61%
Kruse Farm Supply, Inc., Bristol, IN	2	2	
LaCrosse Forage & Turf, Elwood, IN	1	1	
LaCrosse Forage & Turf, LaCrosse, WI	23	20	
Lake Valley Seed, Boulder, CO	15	15	

Lesco Inc, Cleveland, OH	5	5	
Lewis Seed Co Inc, Louisville, KY	14	13	
Sweetcorn, NC0350, Insp. # 151164			Germination Claim: 80% Found: 59%
LG Seeds, Elmwood, IL	23	23	
Livingston Seed Co, The, Columbus, OH	74	73	
Brussel Sprouts, Lot #:R1, Insp. #: 150873			Germination Claim: 70% Found: 31%
Lord Seed Farms, Walton, IN	3	3	
Loveland Products, Greely, CO	32	32	
Martin Seed & Supply, Ron, Elkhart, IN	6	6	
Martin Seeds Inc, Williamsport, IN	7	6	
Wheat, Lot# 2, Insp. # 151422			Germination Claim: 85% Found: 56%
Masters Choice, Inc., Anna, IL	7	7	
Matthys Farm Market, South Bend, IN	2	2	
McKillip Seeds Inc, Wabash, IN	3	2	
Wheat, Common, Lot #:112, Insp. #: 151365			Germination Claim: 90% Found: 50%
McKinley Terrace Garden Ctr, Mishawaka, IN	3	3	
Miller's Hardware & Garden Ctr, Salem, IN	4	4	
Miracle-Gro Lawn Products, Marysville, OH	2	2	
Monsanto Co, St Louis, MO	75	75	
Moore Seed Farm, Elsie, MI	2	2	
Morgan County Seeds, Barnett, MO	3	3	
Mt View Seeds, Salem, OR	4	4	
Muller True Value Hardware, Ferdinand, IN	1	1	
Musall's Lawn & Garden Center, Monticello, IN	2	1	
Cabbage, Lot #: M3317, Insp. #: 150839			Germination Claim: 75% Found: 36%
Mycogen Seeds, Indianapolis, IN	33	33	
Nancy's Hardware, Feed & Auto, Monrovia, IN	1	1	
National Seed Co., Lisle, IL	2	2	
Nelsons Greenhouse, Dana, IN	5	5	
Not Just A Garden Center, Mishawaka, IN	1	1	
NGR Agricultural Services & Supplies, New Ross, IN	4	4	
Obermeier Hardware & Rental, Rockport, IN	3	3	
Olds Garden Seeds, St Paul, MN	1	1	
Osborn Seed Company, Culver, IN	5	5	
Page Seed Co, The, Greene, NY	14	12	
Parke Seeds Inc, Marshall, IN	1	1	
Partner's Brand Seed, Howe, IN	8	8	
Pennington Seed Co, Lebanon, OR	7	5	
Lawn Mix, Lot#: L144-OE14XPC008, Insp.# 150815			Germination Tall Fescue Claim: 85% Found: 54%
Lawn Mix, Lot #: L144-OP12WNV012, Insp.# 150980			Germination Fine Fescue Claim: 85% Found: 54%
Pennington Seed Co, Greenfield, MO	7	2	
Mixture, Lot #:ME15XFR001, Insp. #: 150686			Germination Fine Fescue Claim: 85% Found:63%
Lawn Mix, Lot#: ME14WIY012, Insp.# 150977			Pure Seed Tall Fescue Claim: 79.00% Found: 75.07%
Lawn Mix, Lot# ME5XFR001, Insp. # 151054			Germination Fin Fescue: Claim: 85% Found: 53%
			Germination Ky Bluegrass Claim: 80% Found: 66%

Lawn Mix, Lot #ME15XFR001, Insp.# 151233	Germination CR	Fescue Claim: 85%	Found:27%
Performance Seed, St Cloud, MN	5		5
Pfister Seeds LLC, Champaign, IL	3		3
Pinnacle Agriculture Distribution, Stuttgart, AR	1		1
Pioneer Hi Bred Interntl Inc, Johnston, IA	72		72
Plantation Products, Norton, MA	73		71
Broccoli, Lot #: R1, Insp.#: 150681	Germination Claim: 75%	Found: 54%	
Chives, Lot #: R1, Insp.#: 150914	Germination Claim: 50%	Found: 8%	
Powell Seeds, Converse, IN	6		6
Preferred Alfalfa Genetics, Story City, IA	3		3
Pro Harvest Seeds, Ashkum, IL	1		1
Purple Ribbon Seeds, Marshall, IN	9		9
Ragan & Massey Inc, Ponchatoula, LA	5		5
Remington True Value, Remington, IN	2		2
Renee's Garden, Felton, CA	3		3
Richmond's Feed Service, Wakarusa, IN	2		2
Robin's Nest, Boonville, IN	3		3
Rupp Seeds Inc., Wauseon, OH	2		2
Rural King, Monticello, IN	1		1
Rural King Supply Inc, Mattoon, IL	8		6
Saddle Butte Ag, Inc., Shedd, OR	1		1
Schillinger Genetics, Inc., West Des Moines, IA	1		1
Schultz Turf & Forage Seed, Dieterich, IL	1		0
Scotts Company, The, Marysville, OH	4		3
Seed Consultants, Washington Courthouse, OH	2		2
Seed Savers, Exchange, Decorah, IA	3		2
Lettuce, Lot # OG8381-82, Insp. # 151077	Germination Claim: 80%	Found: 33%	
Seeds, Inc., Memphis, TN	1		1
Seeds of Change, Rancho Dominguez, CA	17		16
Seedway, Hall, NY	19		18
Select Seed Hybrids, Camden, IN	3		3
Seminis Vegetable Seeds, Inc., Oxnard, CA	1		1
Sexauer Discount Farm Service, Brookings, SD	2		2
Shively Road Greenhouse, Nappanee, IN	3		3
Smith Farm Store, Rochester, IN	2		2
Specialty Hybrids Inc, Monticello, IN	9		9
Spectrum Premium Genetics, Linden, IN	7		7
Springfield Seed, Springfield, KY	1		1
Stephans IGA Store, Flora, IN	2		2
Stevenson's Ace Hardware, Crawfordsville, IN	1		1
Stewart Seeds Inc, Greensburg, IN	16		16
Steyer Seeds, Old Fort, OH	14		14

Steyer Seeds, Tiffin, OH	5	5
Stine Seed Company, Adel, IA	31	31
Stone Seed Farms, Inc., Pleasant Plains, IL	3	3
Sunnybrook Greenhouses, Rochester, IN	2	2
Sunstar Hybrids, Culver, IN	14	14
Superior Ag Resources, Huntingburg, IN	3	3
Superior Seed Inc., Rushville, IN	4	4
Sustainable Low Maintenance Grass LLC, Palm Coast, FL	1	1
Syngenta Seeds Inc, Minneapolis, MN	25	25
Telebrands Corp., Fairfield, NJ	1	1
Tenbarge Seed Co, Haubstadt, IN	13	11
Tennessee Farmers Cooperative, Lavergne, TN	1	1
Tractor Supply Co, Brentwood, TN	5	4
Tri-Star Seed Company, Inc., Spring Hill, KS	3	2
Turner Seed Co Inc of KY, Winchester, KY	4	4
Turner Seed Inc., Antioch, TN	3	3
Turner Seed Inc, Lavergne, TN	13	13
Unity Seeds LLC, West Lafayette, IN	21	21
Urban Farmer LLC, Westfield, IN	5	3
Leek, Lot # AMFL14, Insp.# 151194	Germination Claim: 90%	Found: 69%
Carrot, Lot # CDRC14, Insp.# 151197	Germination Claim: 90%	Found: 65%
Varn's & Hoover Hardware	3	3
Weaver Popcorn Co Inc, Van Buren, IN	6	6
Weeks Seed Co Inc, Greenville, NC	10	9
Brussel Sprouts, Lot # N/A, Insp. # 151170	Germination Claim: 70%	Found: 25%
Wetsel Seed Co., Harrisonburg, VA	11	8
Lettuce, Lot # 2879, Insp. # 151135	Germination Claim: 85%	Found: 67%
Winamac Lumber Yard, Winamac, IN	2	2
Winfield Solutions LLC, St. Paul, MN	45	45
Wischmeier Nursery, Inc., Columbus, IN	1	1
Wolf River Valley Seeds, Whitelake, WI	1	1
Wyatt Seed Co Inc, Petersburg, IN	7	6
Pasture Mix, Lot # 81415-2, Insp.#: 151299	Germination Timothy Claim: 85%	Found: 49%
Wyckoff Hybrids Inc, Valparaiso, IN	11	11
X-Seed, Becker, MN	2	1
Yerks Seed Inc, Woodburn, IN	3	3

ENFORCEMENT OF FEDERAL LAW

OISC/USDA Cooperative Agreement

Appendix A. Summary of USDA Federal Seed Act Cases in 2015 Settled With the Assistance of the Indiana Seed Control Program

Seed Regulatory and Testing Services

The Seed Regulatory and Testing Branch enforces interstate commerce provisions of the Federal Seed Act and provides seed testing service under the Agricultural Marketing Act.

Federal Seed Act

- The Federal Seed Act regulates the interstate shipment of agricultural and vegetable seeds.
- The FSA requires that seed shipped in interstate commerce be labeled with information that allows seed buyers to make informed choices.
- Seed labeling information and advertisements pertaining to the seed must be truthful.
- The FSA helps promote uniformity among State laws and fair competition within the seed trade.

Complaints Under the Federal Seed Act

Complaints involving mislabeled seed are submitted to the Branch for investigation. Most complaints are submitted by State seed control officials through existing cooperative agreements. They may be submitted by anyone. Regulatory action is taken against the interstate shipper, when the violation is confirmed. State inspectors routinely inspect and sample seed shipments being marketed in their States.

Information on interstate shipments found to be mislabeled may be submitted to the Seed Regulatory and Testing Branch for action, such as:

- letter of warning for minor violations and technical violations
- monetary penalty for serious violations

USDA FEDERAL SEED ACT ENFORCEMENT

OISC enforcement of the Federal Seed Act in 2015 resulted in final settlement on cases submitted from previous years that involved 10 interstate shippers, amounting to a total of \$27,875 in settlement fees. A case summary is shown below:

Final settlement was achieved during 2015 on the following cases:

Summary of Cases Involving Indiana Action

- FSA 12-0099, Smith Seed Services, Halsey, OR - \$3,825
- FSA13-0013, Loveland Products, Greeley, CO - \$525
- FSA13-0011, Lewis Seed Company, Louisville, KY - \$1,750
- FSA13-0176, Barenbrug USA, Tangent, OR - \$6,500
- FSA13-0177, Rose Agri-Seed, Canby, OR - \$525
- FSA14-0150, Deer Creek Seed, Ashland, WI - \$675
- FSA14-0173, Plantation Products, Norton, MA - \$2,475
- FSA14-0058, Pennington Seed, Madison, GA - \$8,125
- FSA14-0160, Swanson Seed, Sherwood, OR - \$2,475
- FSA14-0078, DLF Pickseed USA, Halsey, OR - \$7,150
- FSA15-0013, Crossman Seed, Rochester, NY - \$350

OUR PEOPLE

INDIANA SEED REGULATORY PROGRAM STAFF

The success and effectiveness of our program is due to the dedication and support of our staff involved in laboratory testing and field inspection. The following individuals provide that support. Our laboratory program staff in chronological order of hire:



Minoo Faghihi, Seed Analyst

Minoo was hired in February of 2005 as an analyst to specialize in seed purity testing in the laboratory and provides valuable assistance in leading our seed purity testing in the laboratory. She obtained her accreditation from AOSA as a Certified Seed Analyst in germination testing in April of 2012 and her purity accreditation in February of 2013.. In her present role as senior purity analyst, she focuses on seed purity testing, seed count testing and germination testing activities in the State Seed Laboratory.



Jodi Small, Seed Analyst

Jodi was hired in March of 2005 as an analyst to specialize in germination testing for the laboratory. In her present role as senior germination analyst, her main focus is in viability testing of all species coming into the laboratory, conducting warm germination tests on both agricultural and vegetable crop kinds. Jodi obtained her accreditation from AOSA as a Certified Seed Analyst in germination testing in April of 2012. She is also involved in bioassay testing for varietal traits and tetrazolium testing.



Teresa Thompson, Laboratory Technician VII

Teresa began her Purdue career in 2004 working in the Department of Horticulture as a lab technician. She was hired by the Seed Laboratory in January 2012 as a secretary to the Seed Laboratory and Seed Administrator. In her role, she is responsible for data entry of all sample information that is submitted and for printing all analysis reports of samples tested in the laboratory. She assists with visitors who may stop or send in samples or phone in with questions. She also assists with germination testing and supervising student workers.



Ben Alkire – Laboratory Technician VI

Ben was hired in January of 2012 in the laboratory to specialize in seed purity testing. He holds BS and MS degrees in Horticulture. He has most recently worked as University Development Coordinator at Kabul University, Afghanistan, following work as Specialty Crops Research Associate at Purdue's Department of Horticulture and Landscape Architecture. He has an extensive knowledge of taxonomy and economic crops, horticultural and agronomic. He has received the Presidential Volunteer Service Award for his international volunteer service.



Jessica Gray – Laboratory Technician VI

Jessica was hired in August of 2012 in the laboratory as a Seed Analyst/Feed Microscopist. She holds a BS in Interdisciplinary Biology with a minor in Forensic Science. Her role in the laboratory is to assist in both purity and germination testing and provide microscopic analysis on animal feed and bird feed products. Jessica obtained her accreditation from AOSA as a Certified Seed Analyst (CSA) in germination testing in August of 2014.

FIELD STAFF

Our inspectors serve as the field representative for our agency. As such, an inspector is charged with effectively communicating and enforcing laws, rules, and policies of the agency, inspecting facilities, reviewing records, collecting samples, collecting and documenting evidence, issuing regulatory orders, and completing necessary reports for the administrative and laboratory programs.

Brett Groves, Chief Inspector

Britney Fraley – Inspector, Southeast Sector

Britney is originally from Hancock County where she grew up being actively involved in her family's hog, cattle, and grain operation. She graduated with a B.S. degree in Agribusiness Management from Purdue University. Prior to being an inspector she worked for Crop Production Services as a Crop Consultant for 4 years. Britney covers the southeast region of Indiana from Indianapolis to the Ohio River.

Charles Thomas – Urban & Agricultural Products Inspector

Charles started out at Purdue in 1987 as a laboratory technician for the Animal Science Department. He joined the Office of Indiana State Chemist in 2000 as a chemist for the Pesticide Formulation Section and accepted a role as inspector in 2005. He is a Purdue University graduate with an M.S. degree in Animal Science. He now has assumed the role as our small package inspector and covers the entire state. He visits mainly retail stores, takes small package samples of feed, seed and fertilizer products, checks labeling and product registration and sends the samples to the lab for analysis.



Ken Neuhoff – Inspector, Northwest Sector

Ken came to us from Pulaski Farm Bureau Co-op where he was a branch manager. Ken has a B. S. in Agriculture from Purdue. The area that Ken covers is the Northwest portion of the state.

Tom Smith – Inspector, West Central Sector

Tom started with this office in the summer of 1999. Tom received a B. S. in Agriculture Education at Purdue University and is a Certified Crop Advisor. Tom's area is the West Central part of the state.

Jean Schnur – Inspector, Southwest Sector

Jean covers the Southwest part of Indiana from Terre Haute to Evansville. She graduated from Purdue University with a B.S. degree in Agronomy in 1982. Jean was previously employed as an inspector for the State Chemist from 1986 to 1994, leaving to raise her young family. She has been actively involved in the family farm, raising hay, goats, sheep and cattle before rejoining our staff in April of 2014.

Craig Taft – Inspector, Northeast Sector

Craig is originally from southeastern Illinois and grew up around a general veterinary practice. He graduated from Southern Illinois University with a B.S. degree in Agriculture. For the last 16 years Craig has worked in the corn and soybean seed research industry. Craig joined the staff in April 2015 and is responsible for the Northeast section of the state.

Bob Wakeman – Inspector, East Central Sector

Our inspector for the East-Central region of Indiana is Bob Wakeman. Bob started with the Office in January 2003. He is a Purdue graduate with a B.S. in Agriculture, Farm Business and Management.