

OFFICE OF INDIANA STATE CHEMIST & SEED COMMISSIONER ANNUAL SEED REGULATORY REPORT

2024

Mark LeBlanc, Ph.D. - State Chemist & Seed Commissioner

2024
Indiana Seed Regulatory Program
Annual Report

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Indiana Seed Control 2024 Annual Report



Presented here within is the 2024 annual report of the Office of Indiana State Seed Commissioner. It represents a summary of official inspectional activities related to seed control in Indiana, as well as laboratory analyses performed on official samples collected under the authority of 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 consumers with adequate information, through fair and consistent labeling, to make intelligent purchases of agricultural and vegetable seed products.

The inspection staff of the Office of Indiana State Chemist and Seed Commissioner provides marketplace 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 Indiana 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, consumers, and seedsmen.

Prepared and Submitted By:

Jessica McVay
Seed Administrator

ENFORCEMENT ACTIONS…

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

- ## OUR PURPOSE

  The Indiana Seed Law (IC 15-15-1) is administered by the Office of Indiana State Chemist & Seed Commissioner. The purpose of the law is twofold: First, to give the purchaser sufficient information to enable them to buy good seed, and second, to protect the honest and reliable seedsman and the farmer from unscrupulous dealers. Our field, laboratory and office staff strive to carry out our mission in administration and enforcement of the Act.

- ## ENFORCEMENT ACTION TAKEN IN 2024

  Enforcement action initiated in 2024 was dictated by the seriousness of the violations found as a result of either laboratory analysis or inspectional observations discovered during facility inspections.

See Appendix on page 8 for additional details

Official Samples Tested in 2024:	1199
Official Samples Correctly Labeled:	969
Samples Incorrectly Labeled:	230
Total Tests Completed on Samples:	2496

Breakdown of 2024 Violations: *multiple violations per sample in some cases

Minor Violations Based on Product Analysis: (Relabeling Orders):	87
Serious Violations Based on Product Analysis: (Stop Sale Orders):	89
Technical Violations Based on Label Analysis:	27
Inspector-Issued Stop Sale Orders (Number of Seed Lot's Involved):	136
Active Indiana Seed Permits	454

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 and hard seed,). Additional claims evaluated included genetic trait verification for glyphosate tolerance (by lateral flow immunoassay) and BT traits including Cry1Ab, Cry3Bb, and Cry34, MCry3A, and Cry1F (utilizing lateral flow immunoassay test kits).

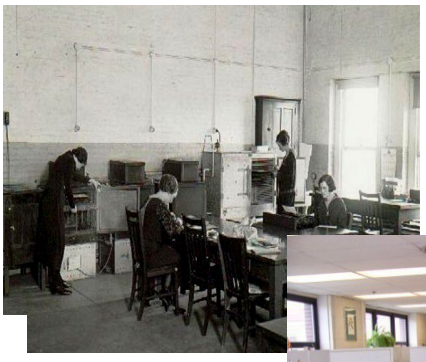
** Relabeling orders issued against seed lots classified as "minor" violations as a result of laboratory analysis*
*** Stop sale action taken against seed lots classified as "serious" violations as a result of laboratory analysis*

- ## USDA FEDERAL SEED ACT ENFORCEMENT

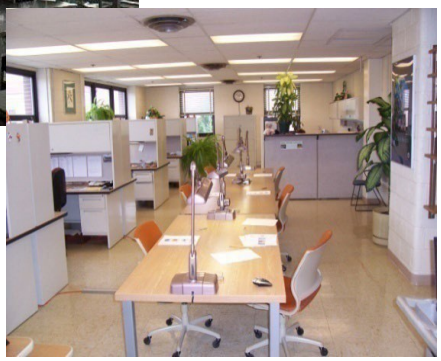
26 samples were sent to the Federal Lab for apparent violations of the Federal Seed Act. The USDA monitored websites and sent letters for violations found.

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.



Indiana State Seed Laboratory over the years

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.



Biochemistry Building
175 S. University Street, Purdue University
West Lafayette, IN 47907-206

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 (RUSSL) 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, (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 METHODS



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 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). In 2021, we increased our testing fees. They are $18 per sample for individual purity, germination and/or identification tests, and $36 per sample for complete tests (purity, germination, noxious weed seed exam). Detailed reports of analysis are furnished to the sender at the completion of the testing.

The laboratory also offers immunoassay strip testing for traits in soybeans, corn and alfalfa. This testing is first level testing and can show the presence or absence of these traits. It is accurate to within roughly five percent. If a more detailed test is required, we partner with a lab that conducts PCR DNA testing and can quote those tests.

APPENDIX

Table I

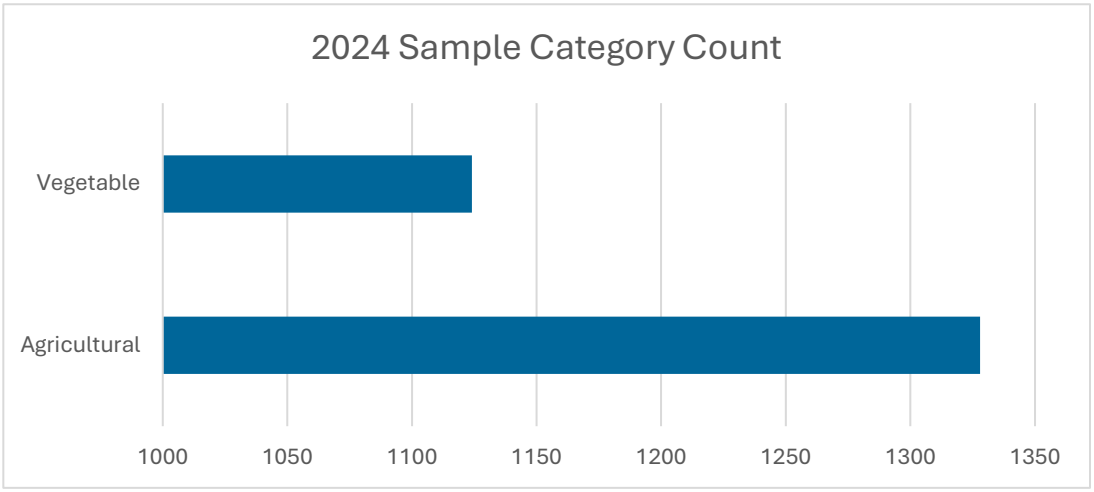


Table II

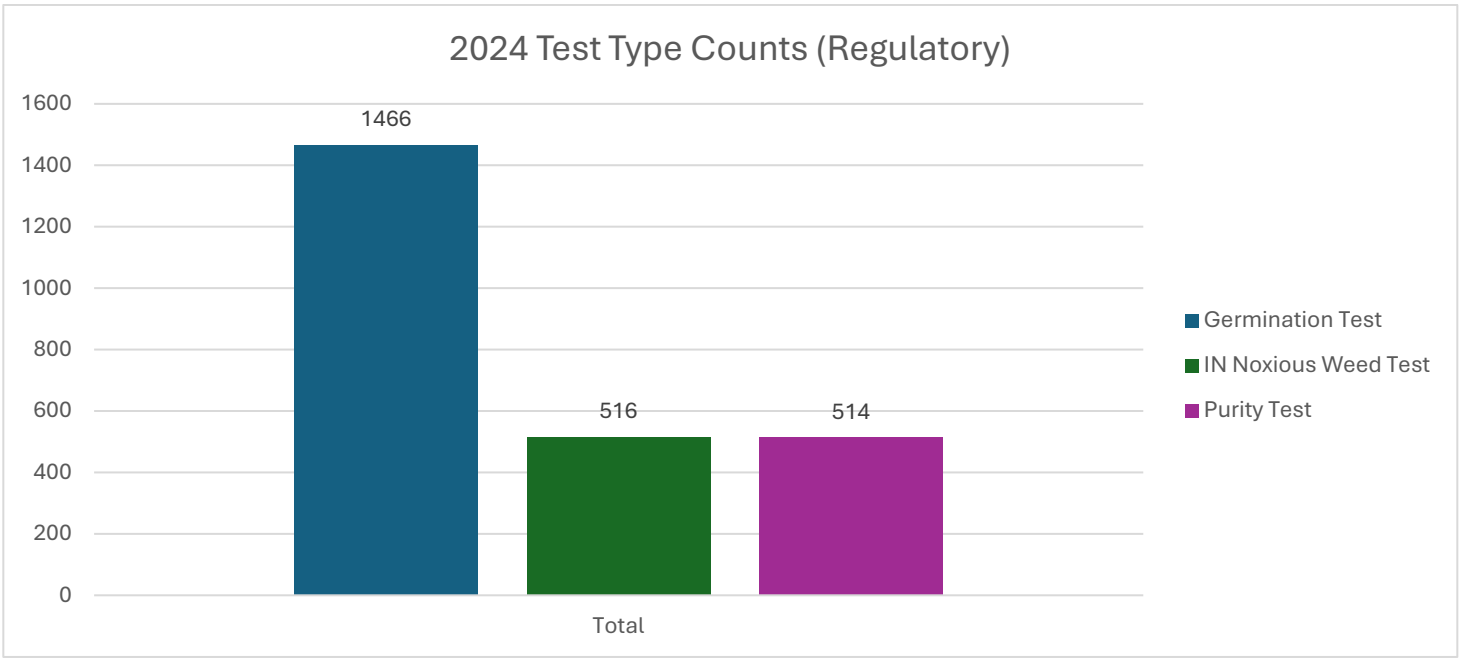


Table III

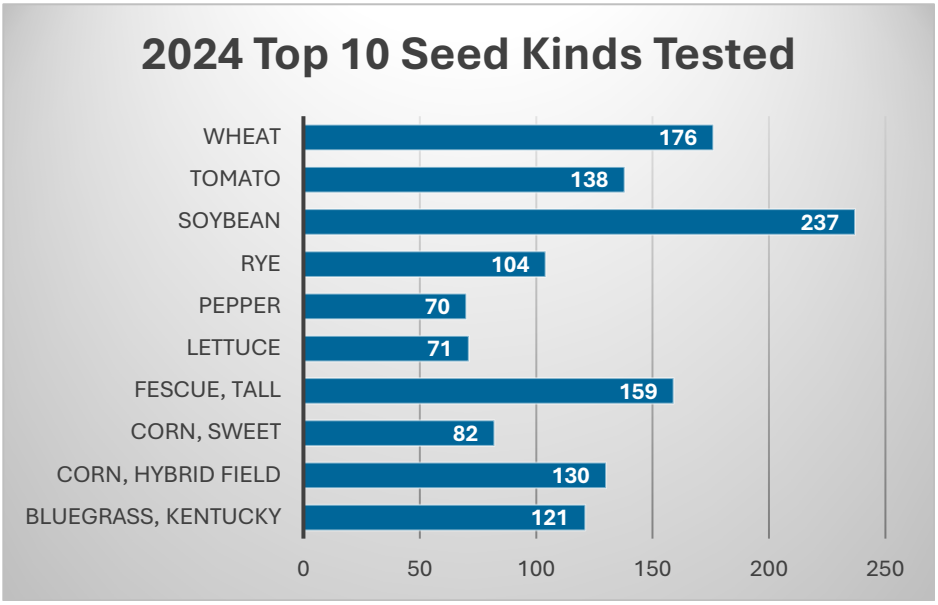


Table IV

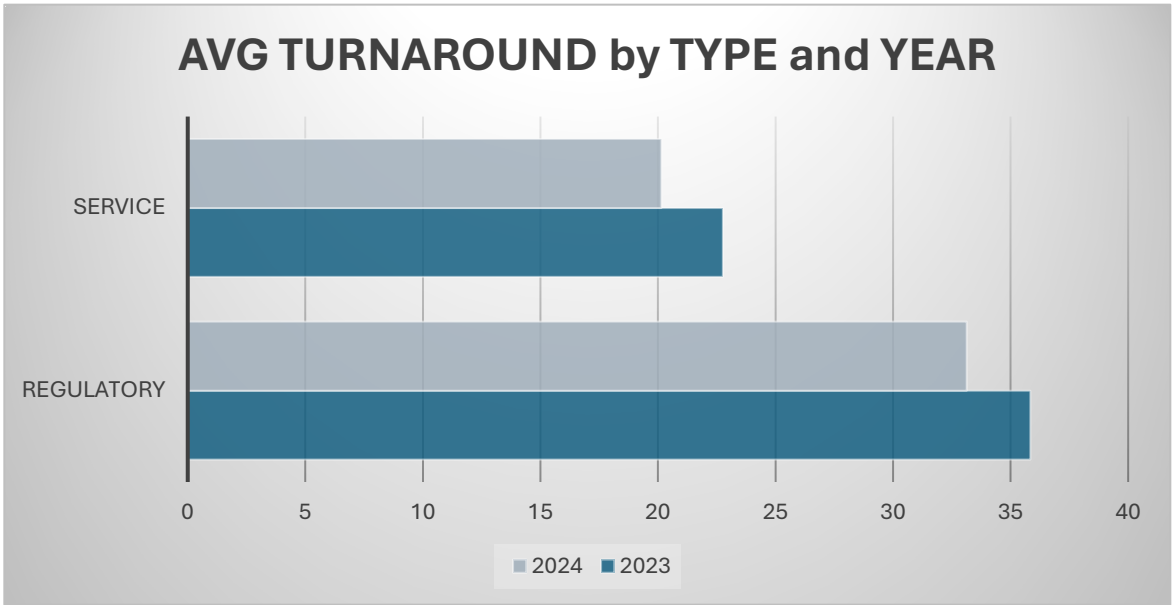


Table V

Total of each kind tested, number and percentage of violations.

Seed Kind Tested	Vegetable Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Arugula, Rocketsald, Roquette	1	1	0	0	0	0	0.00 %
Bean, Garden	37	27	5	0	5	10	27.03 %
Bean, Lima	2	1	1	0	0	1	50.00 %
Bean, Red Kidney	1	1	0	0	0	0	0.00 %
Beets	11	11	0	0	0	0	0.00 %
Broccoli	11	8	3	0	0	3	27.27 %
Brussels-Sprouts	5	5	0	0	0	0	0.00 %
Cabbage	15	15	0	0	0	0	0.00 %
Carrot	19	18	0	0	1	1	5.26 %
Cauliflower	2	2	0	0	0	0	0.00 %
Celery and Celeriac	6	4	2	0	0	2	33.33 %
Collards	2	1	0	1	0	1	50.00 %
Corn, Sweet	33	30	1	1	1	3	9.09 %
Cornsalad	1	1	0	0	0	0	0.00 %
Cowpea, Southern Pea, Bean, Yardlong	1	0	1	0	0	1	100.00 %
Cucumber	4	3	0	1	0	1	25.00 %
Eggplant	3	1	1	1	0	2	66.67 %
Endive	1	1	0	0	0	0	0.00 %
Kale	21	14	4	0	3	7	33.33 %
Kale, Siberian	1	1	0	0	0	0	0.00 %
Kohlrabi	5	5	0	0	0	0	0.00 %
Leek	4	4	0	0	0	0	0.00 %
Lettuce	24	22	2	0	0	2	8.33 %
Mixture, Vegetable	1	0	0	0	1	1	100.00 %
Mustard	7	7	0	0	0	0	0.00 %
Okra	1	0	0	0	1	1	100.00 %
Onion	25	14	10	0	1	11	44.00 %
Pak choi, pok choi or bok choy	4	3	1	0	0	1	25.00 %
Parsley	1	1	0	0	0	0	0.00 %
Parsnip	3	1	1	0	1	2	66.67 %
Pea, Garden	14	14	0	0	0	0	0.00 %

Seed Kind Tested	Vegetable Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Pepper	14	13	1	0	0	1	7.14 %
Radish	15	14	0	1	0	1	6.67 %
Rutabaga	1	1	0	0	0	0	0.00 %
Soybean	1	0	1	0	0	1	100.00 %
Spinach	16	15	1	0	0	1	6.25 %
Squash	4	4	0	0	0	0	0.00 %
Tomato	10	10	0	0	0	0	0.00 %
Turnip	11	11	0	0	0	0	0.00 %
Watermelon	1	0	0	0	1	1	100.00 %
Total	**339**	**284**	**35**	**5**	**15**	**55**	**16.22 %**

Table VI

Seed Kind Tested	Agricultural Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Alfalfa	9	7	0	0	2	2	22.22 %
Alkaligrass, Weeping	1	1	0	0	0	0	0.00 %
Barley	5	4	0	1	0	1	20.00 %
Beet, Sugar	1	0	1	0	0	1	100.00 %
Bermudagrass	1	1	0	0	0	0	0.00 %
Bluegrass, Kentucky	24	20	1	2	1	4	16.67 %
Bluestem, Little	1	1	0	0	0	0	0.00 %
Brome, Meadow	2	1	0	1	0	1	50.00 %
Buckwheat	3	2	0	0	1	1	33.33 %
Carex Spp.	1	1	0	0	0	0	0.00 %
Chicory	3	1	1	0	1	2	66.67 %
Clover, Arrowleaf	1	0	0	0	1	1	100.00 %
Clover, Balansa	2	1	0	0	1	1	50.00 %
Clover, Berseem	2	0	1	1	0	2	100.00 %
Clover, Crimson	6	4	1	0	1	2	33.33 %
Clover, Ladino and White	8	4	2	1	1	4	50.00 %
Clover, Red	13	8	1	1	3	5	38.46 %
Clover, Strawberry	1	1	0	0	0	0	0.00 %
Corn, Hybrid Field	108	108	0	0	0	0	0.00 %
Crabgrass	1	0	0	0	1	1	100.00 %
Dropseeds	1	1	0	0	0	0	0.00 %
Fescue, Creeping Red	3	2	0	0	1	1	33.33 %
Fescue, Fine	2	1	1	0	0	1	50.00 %
Fescue, Meadow	1	1	0	0	0	0	0.00 %
Fescue, Tall	128	99	16	0	13	29	22.66 %
Grama, Side-oats	2	2	0	0	0	0	0.00 %

Seed Kind Tested	Agricultural Seeds						
	Total	**CL**	**SV**	**TV**	**MV**	**#VIOL**	**%VIOL**
Junegrass, Prairie	1	1	0	0	0	0	0.00 %
Lespedeza, Korean	2	1	0	1	0	1	50.00 %
Oat and red oat	14	11	2	1	0	3	21.43 %
Orchardgrass	9	5	1	0	3	4	44.44 %
Pea, Field	1	1	0	0	0	0	0.00 %
Popcorn	2	2	0	0	0	0	0.00 %
Radish	6	4	1	1	0	2	33.33 %
Rape, Turnip; Rape, Bird	3	1	0	1	1	2	66.67 %
Rye	45	30	8	5	2	15	33.33 %
Ryegrass (mixes)	11	10	1	0	0	1	9.09 %
Ryegrass, Annual; Ryegrass, Italian	14	13	0	0	1	1	7.14 %
Ryegrass, Intermediate	1	1	0	0	0	0	0.00 %
Ryegrass, Perennial	12	9	1	1	1	3	25.00 %
Sorghum spp.	1	1	0	0	0	0	0.00 %
Soybean	176	157	4	0	15	19	10.80 %
Spelt	1	1	0	0	0	0	0.00 %
Sunflower; large and small seeded	1	0	1	0	0	1	100.00 %
Teff	1	0	0	0	1	1	100.00 %
Timothy	9	9	0	0	0	0	0.00 %
Trefoil, Birdsfoot	1	1	0	0	0	0	0.00 %
Triticale	9	8	0	1	0	1	11.11 %
Turnip	4	4	0	0	0	0	0.00 %
Vetch, Hairy	1	1	0	0	0	0	0.00 %
Wheat	56	53	1	2	0	3	5.36 %
Wildrye, Virginia	1	1	0	0	0	0	0.00 %
Total	**712**	**596**	**45**	**20**	**51**	**116**	**16.29 %**

Table VII

Vegetable Seeds Wholesale Distributors			Vegetable Seeds			
			CL	SV	TV	MV
AMERICAN SEED CORP	NORTON	MA	3	2	0	0
BACK TO THE ROOTS	OAKLAND	CA	4	0	0	1
BENTLEY SEED CO	CAMBRIDGE	NY	4	0	0	0
BERLIN SEEDS	MILLERSBURG	OH	8	3	0	1
BFG SUPPLY CO	HARRISONBURG	VA	17	0	0	0
BOTANICAL INTERESTS, INC	BROOMFIELD	CO	9	0	0	0
BURPEE GARDEN PRODUCTS	WARMINSTER	PA	62	0	0	0
CAUDILL SEED COMPANY	MOREHEAD	KY	11	1	3	0
CORNUCOPIA SEEDS	FELTON	CA	4	1	0	0
CROP TECH SEED COMPANY	VINCENNES	IN	3	0	0	2
DIRECT ENTERPRISES INC	WESTFIELD	IN	13	0	0	0
E & R SEED	MONROE	IN	10	1	0	2
GREEN GARDEN PRODUCTS	NORTON	MA	42	12	1	2
HARRIS SEEDS	ROCHESTER	NY	1	0	0	0
HIGH MOWING ORGANIC SEEDS	WOLCOTT	VT	2	0	0	0
HOLMES SEED CO.	CANTON	OH	0	0	0	1
ILLINOIS FOUNDATION SEEDS INC	TOLONO	IL	0	1	0	0
LAKE VALLEY SEED	BOULDER	CO	7	2	0	0
LEWIS SEED CO, INC	LOUISVILLE	KY	5	1	0	0
LIVINGSTON SEED COMPANY	NORTON	MA	29	4	0	0
MOUNTAIN VALLEY SEED	SOUTH SALT LAKE	UT	0	1	0	0
OLDS GARDEN SEED	HALL	NY	13	5	0	3
OSBORNE QUALITY SEEDS	MOUNT VERNON	WA	0	0	1	0
RENEE'S GARDEN	FELTON	CA	6	0	0	1
RISPENS SEED INC	BEECHER	IL	1	0	0	0
ROHRER SEEDS	SMOKETOWN	PA	6	1	0	1
RUPP SEEDS INC	WAUSEON	OH	3	0	0	0
SAUDER FARM COUNTRY	ELKTON	KY	2	0	0	0
SEED SAVERS EXCHANGE	DECORAH	IA	1	0	0	0
SEEDS OF CHANGE	COMPTON	CA	2	0	0	0
THE CHARLES C. HART SEED CO	WETHERSFIELD	CT	3	0	0	0
THE PAGE SEED COMPANY	GREENE	NY	13	0	0	0
VOID OR MISC SAMPLE OISC	WEST LAFAYETTE	IN	0	0	0	1
		Total	**284**	**35**	**5**	**15**

Table VIII

Agricultural Seeds Wholesale Distributors			Agricultural Seeds			
			CL	SV	TV	MV
A-L OUTDOORS, LLC	WORTHINGTON	MN	0	1	0	0
AGASSIZ SEEDS INC	WEST FARGO	ND	3	0	1	1
AGRI-GREEN SEED SOLUTIONS LLC	SWEETSER	IN	1	0	0	0

Agricultural Seeds Wholesale Distributors			Agricultural Seeds			
			CL	SV	TV	MV
AGRICULTURAL ALUMNI SEED IMPROVEMENT ASSOC, INC	ROMNEY	IN	2	0	0	0
AGRIGOLD	SAINT FRANCISVILLE	IL	7	0	0	1
AGRIMAXX WHEAT COMPANY, LLC	MASCOUTAH	IL	5	0	0	0
ALLIANCE SEED COMPANY	JEFFERSON	OR	1	0	0	0
ANTLER KING TROPHY PRODUCTS INC	UPPER SANDUSKY	OH	1	0	0	1
AUGUSTA SEED CORPORATION	VERONA	VA	2	0	0	0
AXIS SEED LLC	ADEL	IA	2	0	0	0
BAKER SEED LLC	WEST SALEM	IL	4	0	0	0
BARENBRUG USA INC	TANGENT	OR	13	1	0	3
BASF CORPORATION	RESEARCH TRIANGLE PARK	NC	3	0	0	0
BAYER CROPSCIENCE LP	ST LOUIS	MO	53	1	0	2
BECK'S SUPERIOR HYBRIDS, INC	ATLANTA	IN	30	0	0	2
BIO-TOWN SEEDS INC	REYNOLDS	IN	4	0	1	0
BIOLOGIC LLC	WEST POINT	MS	1	0	0	0
BYRON SEEDS, LLC	ROCKVILLE	IN	12	3	2	3
CAUDILL SEED & WAREHOUSE CO, INC	GRANITE	OK	3	0	2	0
CAUDILL SEED COMPANY	MOREHEAD	KY	5	1	1	0
CENTRAL FARM & GARDEN INC	WOOSTER	OH	1	0	1	0
CENTRAL FARM SUPPLY OF KY, INC	LOUISVILLE	KY	2	0	0	0
CHANNEL BIO LLC	ST LOUIS	MO	9	0	0	0
COLUMBIA GRAIN INT. LLC	CLARKSTON	WA	1	0	0	0
COMMODITY MARKETING COMPANY	ALPHARETTA	GA	12	4	0	1
CONSERV FS, INC	WOODSTOCK	IL	1	0	0	0
CORTEVA AGRISCIENCE MCS LLC	JOHNSTON	IA	71	2	0	0
COVER CROP PARTNERS LLC	SHIPSHEWANA	IN	5	0	2	1
CROP TECH SEED COMPANY	VINCENNES	IN	4	0	0	0
DENZLER SEEDS INC	MILTON	IN	9	0	0	0
DKD GENETICS, INC	VINCENNES	IN	1	0	0	0
DLF USA INC	HALSEY	OR	63	8	0	8

DLF USA INC.	LA CROSSE	WI	6	3	0	2
EBBERTS FIELD SEEDS INC	COVINGTON	OH	4	0	0	0
FAITHWAY ALLIANCE	GUNTERSVILLE	AL	1	0	0	0
FOSTERS INC	EAST PEORIA	IL	3	0	0	0
FRONTIERSMEN INC	KENTLAND	IN	4	0	0	0
GREEN GARDEN PRODUCTS	NORTON	MA	1	0	0	0
GREEN SEED AG LLC	BERNE	IN	1	0	0	0
HUNDLEY SEED CO	CHAMPLAIN	VA	1	0	0	0
HURT SEED CO INC	HALLS	TN	1	0	0	0
ISCH SEEDS, LLC	BLUFFTON	IN	0	0	1	0
JONATHAN GREEN & SONS INC	HOWELL	NJ	3	0	0	0

Agricultural Seeds Wholesale Distributors			**Agricultural Seeds**			
			CL	**SV**	**TV**	**MV**
KWS CEREALS USA, LLC	CHAMPAIGN	IL	1	0	0	0
LAKEVIEW FARMS	MIDDLETOWN	MO	1	0	0	0
LANDSCAPE SUPPLY, INC	ROANOKE	VA	1	0	0	0
LESCO INC	CLEVELAND	OH	4	0	0	0
LEWIS SEED CO, INC	LOUISVILLE	KY	3	0	0	1
LG SEEDS	ELMWOOD	IL	3	0	0	1
LOVELAND PRODUCTS INC	GREELEY	CO	1	0	0	0
LOVELAND PRODUCTS INC	LOVELAND	CO	25	2	0	1
M.S. TECHNOLOGIES LLC	WEST POINT	IA	11	0	0	5
MCKILLIP SEEDS INC	WABASH	IN	3	0	0	0
MILLBORN SEEDS INC	BROOKINGS	SD	2	1	0	0
MOORE SEED FARM LLC	ELSIE	MI	1	0	0	0
MOUNTAIN VIEW SEEDS LTD	SALEM	OR	4	0	0	0
NORTHERN STAR SEED LLC	FRANKFORT	IN	1	0	0	0
PARTNERS BRAND SEED CO. LLC	HOWE	IN	6	0	0	0
PENNINGTON SEED CO	LEBANON	OR	6	0	0	0
PENNINGTON SEED INC	GREENFIELD	MO	5	2	0	0
PENNINGTON SEED INC/SEED PRODUCTION DIVISION	MADISON	GA	1	0	0	0
POWELL SEEDS	CONVERSE	IN	2	0	0	0
PREFERRED ALFALFA GENETICS	STORY CITY	IA	0	0	1	0
PRO HARVEST SEEDS INC	ASHKUM	IL	1	0	0	0
PURPLE RIBBON SEEDS INC	MARSHALL	IN	5	1	0	0
RK HOLDINGS, LLP	MATTOON	IL	1	0	0	0
RON MARTIN SEED & SUPPLY LLC	ELKHART	IN	1	0	0	0
ROSE AGRI-SEED INC.	HUBBARD	OR	2	1	0	0
RURAL KING	WAVERLY	OH	1	0	0	0

RUSH SEEDS	RUSHVILLE	IN	1	0	0	0
SADDLE BUTTE AG INC	TANGENT	OR	2	0	0	0
SCOTT PET PRODUCTS	ROCKVILLE	IN	1	0	0	0
STINE SEED COMPANY	ADEL	IA	20	0	0	3
SUNSTAR HYBRIDS	CULVER	IN	3	0	0	0
SUPERIOR AG RESOURCES CO-OP	HUNTINGBURG	IN	1	0	1	1
SUPERIOR SEED INC	RUSHVILLE	IN	5	0	0	0
SYNGENTA SEEDS LLC	NAMPA	ID	1	0	0	0
TENBARGE SEED	HAUBSTADT	IN	6	1	0	0
THE CISCO COMPANIES	INDIANAPOLIS	IN	25	2	0	1
THE HOGAN COMPANY	SPRINGFIELD	TN	1	0	0	0
THE SCOTTS COMPANY	MARYSVILLE	OH	3	0	0	0
TRI-CAL SUPERIOR FORAGE LLC	BUTTE	MT	2	0	0	0
TRI-STAR SEED CO., INC.	SPRING HILL	KS	2	1	0	1
TURNER SEED INC	ANTIOCH	TN	23	3	4	6

Agricultural Seeds Wholesale Distributors			**Agricultural Seeds**			
			CL	**SV**	**TV**	**MV**
TURNER SEED INC OF KY	WINCHESTER	KY	2	0	0	0
W L RESEARCH	NAMPA	ID	1	0	0	0
WESTERN EXCELSIOR	EVANSVILLE	IN	1	0	0	0
WHITETAIL INSTITUTE OF NORTH AMERICA	PINTLALA	AL	0	2	0	0
WILBUR ELLIS	LAUREL	NE	1	0	0	0
WINFIELD SOLUTIONS LLC	NAMPA	ID	12	0	1	0
WINFIELD SOLUTIONS, LLC	ST PAUL	IN	1	0	0	0
WYATT SEED COMPANY	PETERSBURG	IN	1	0	0	1
WYFFELS HYBRIDS INC	GENESEO	IL	3	0	0	0
YERKS SEED INC	WOODBURN	IN	2	0	0	0
		Total	**568**	**40**	**18**	**46**

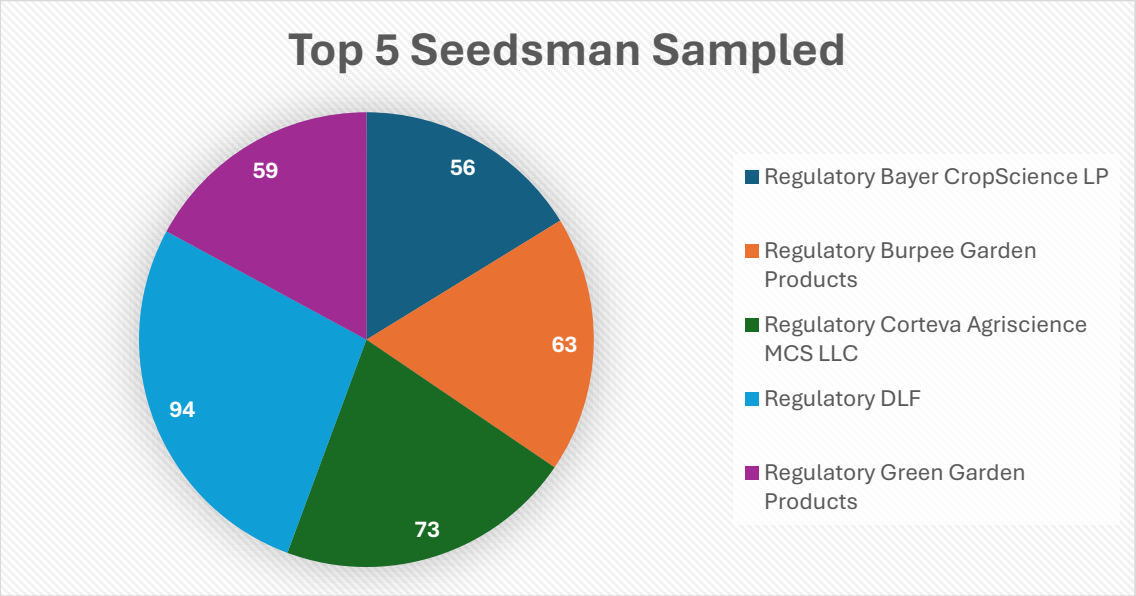
Table IX

Pasture Mix Wholesale Distributors			Pasture Mix			
			CL	SV	TV	MV
A-L OUTDOORS, LLC	WORTHINGTON	MN	1	0	0	0
BARENBRUG USA INC	TANGENT	OR	3	0	0	0
BIOLOGIC LLC	WEST POINT	MS	1	0	0	0
BYRON SEEDS, LLC	ROCKVILLE	IN	1	0	0	0
CAUDILL SEED COMPANY	MOREHEAD	KY	0	0	1	0
COVER CROP PARTNERS LLC	SHIPSHEWANA	IN	0	0	0	1
DLF USA INC	HALSEY	OR	3	3	0	1
DLF USA INC.	LA CROSSE	WI	1	0	0	0
DOMAIN OUTDOOR LLC	HUDSON	WI	7	0	0	1
KAUP FORAGE & TURF	NORFOLK	NE	0	0	0	1
LESCO INC	CLEVELAND	OH	1	0	0	0
RED CEDAR LLC	LAWRENCEBURG	KY	1	0	0	0
SCOTT PET PRODUCTS	ROCKVILLE	IN	0	1	0	1
THE CISCO COMPANIES	INDIANAPOLIS	IN	7	0	0	2
VOID OR MISC SAMPLE OISC	WEST LAFAYETTE	IN	1	0	0	0
WHITETAIL INSTITUTE OF NORTH AMERICA	PINTLALA	AL	1	0	0	0
WYATT SEED COMPANY	PETERSBURG	IN	1	0	0	0
		Total	**29**	**4**	**1**	**7**

Table X

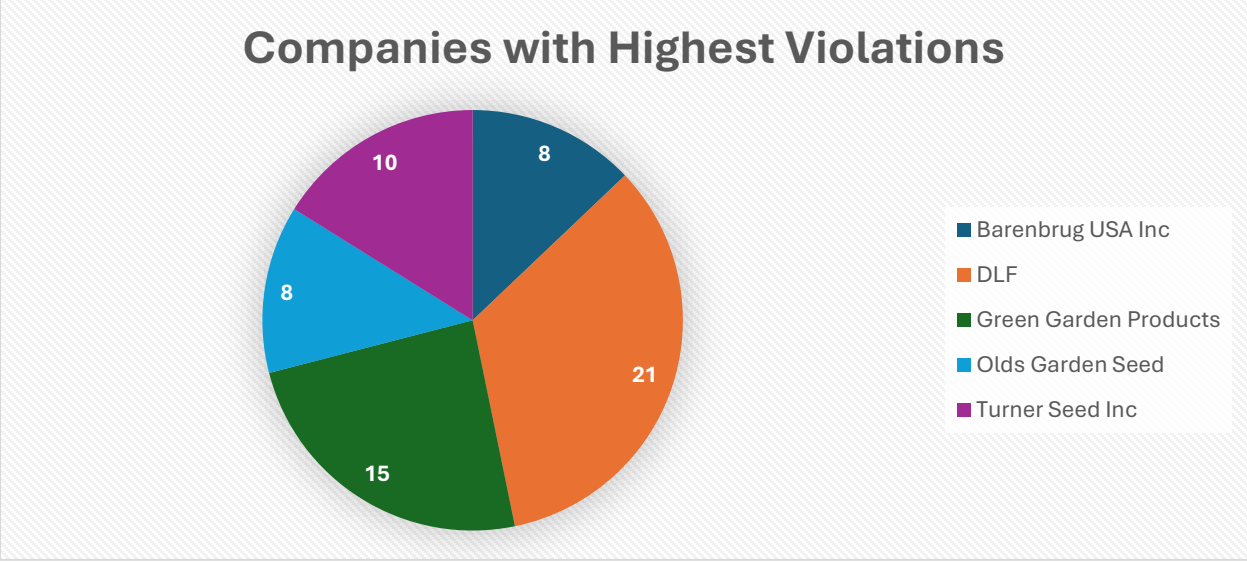
Lawn Mix Wholesale Distributors			Lawn Mix			
			CL	SV	TV	MV
ADVANCED TURF SOLUTIONS	FISHERS	IN	3	0	0	1
AG PLUS TURF CENTER	NEW HAVEN	IN	2	0	0	0
AG PLUS, INC	SOUTH WHITLEY	IN	1	0	0	0
AGASSIZ SEEDS INC	WEST FARGO	ND	2	0	0	1
BARENBRUG USA INC	TANGENT	OR	19	3	1	3
C L & S INC	MONROEVILLE	IN	1	0	0	0
CENTRAL FARM & GARDEN INC	WOOSTER	OH	1	0	0	0
CENTRAL FARM SUPPLY OF KY, INC	LOUISVILLE	KY	2	0	0	0
DLF USA INC	HALSEY	OR	7	0	0	1
DLF USA INC.	LA CROSSE	WI	1	0	0	1
EVERGREEN SEED SUPPLY, LLC	DESHLER	OH	3	0	0	0
GLOBAL HARVEST FOODS, LLC	SEATTLE	WA	4	1	0	1
GREEN GARDEN PRODUCTS	NORTON	MA	0	0	0	1
JONATHAN GREEN & SONS INC	HOWELL	NJ	6	0	0	2
LA CROSSE FORAGE & TURF SEED LLC	ELWOOD	IN	1	0	0	0
LESCO INC	CLEVELAND	OH	12	1	0	1
MOUNTAIN VIEW SEEDS LTD	SALEM	OR	2	0	0	1
PENNINGTON SEED INC	GREENFIELD	MO	6	0	0	4
PREMIER HORTICULTURE INC.	QUAKERTOWN	PA	0	1	0	0
ROSE AGRI-SEED INC.	HUBBARD	OR	3	1	0	0
TENBARGE SEED	HAUBSTADT	IN	3	1	0	0
THE CISCO COMPANIES	INDIANAPOLIS	IN	8	1	1	1
THE SCOTTS COMPANY	MARYSVILLE	OH	4	1	0	0
TURNER SEED INC	ANTIOCH	TN	1	0	1	1
WESTERN EXCELSIOR	EVANSVILLE	IN	1	0	0	0
		Total	**93**	**10**	**3**	**19**

XI



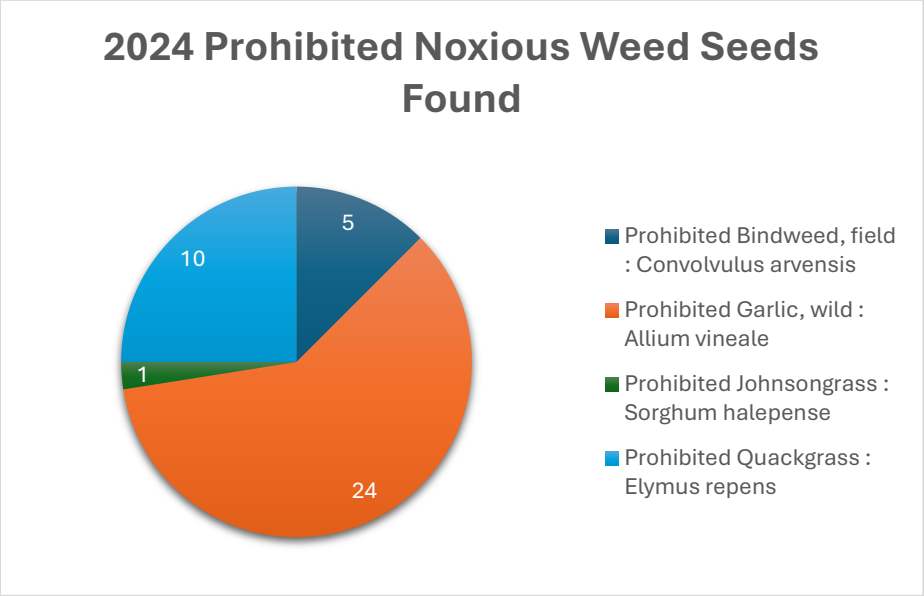
* Based on total count of samples

Table XII



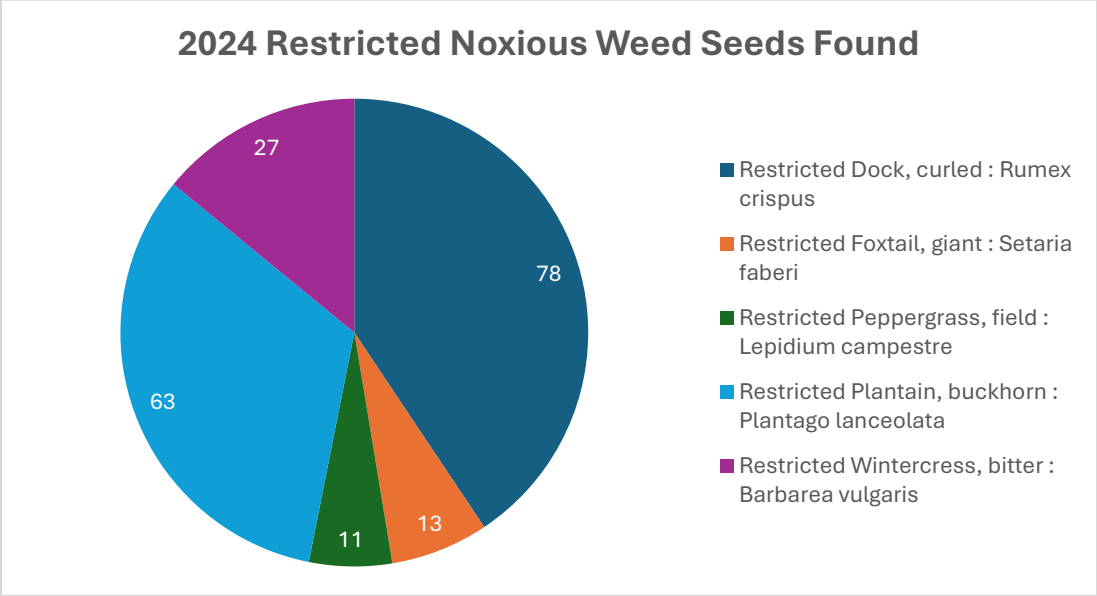
* Based on total count of violations

Table XIII



*Based on Indiana Noxious Weed Seed

Table XIV



*Based on Indiana Noxious Weed Seed