



pennsylvania
DEPARTMENT OF AGRICULTURE

**Pennsylvania Department of Agriculture
Bureau of Plant Industry
2015 Seed Report
Pennsylvania Seed Act**

Dec 2015

Overview

The Pennsylvania Department of Agriculture Bureau of Plant Industry Seed Division performs analyses on seed samples drawn under the authority of the Pennsylvania Seed Act (amended 2005). The act helps ensure consumers are provided with truthful, accurate information upon which to make seed purchase decisions.

The division is responsible for (1) administration and enforcement of the Pennsylvania Seed Act; (2) administration of the Seed Certification Act; (3) operation of the State Seed Laboratory; and (4) maintaining the seed herbarium.

This report is a summary of official seed inspection and laboratory analyses performed by the seed division from July 1, 2014 to June 30, 2015.

Regulatory Requirements

The Seed Act, from which the division derives its authority, requires all seeds to be properly labeled before being distributed in Pennsylvania. Information must appear on a tag or label attached in a conspicuous place on the exterior of the seed container. Seeds not properly labeled are subject to a "Stop Sale" order, which prohibits its sale/distribution until relabeled to be in compliance with the law. Additionally, the person whose name appears on the seed analysis label must obtain an annual seed license at a cost of \$25.

During the fiscal year of 2014 there were **412** licensed Seed Dealers. A total of **\$10,175.00** was collected for Seed Dealers license's fees.

The Pennsylvania Code Chapter 111 lists additional requirements for labeling seeds, including:

- Labeling of flower seed mixtures
- Labeling of lawn seed mixtures
- Labeling of treated seeds
- Labeling of seeds for sprouting
- Germination standards for vegetable and flower seeds
- List of prohibited noxious weed seeds
- List of restricted noxious weed seeds including undesirable grass seed in lawn and turf seeds

Seed Certification

Seed certification helps maintain and make available to the public sources of high quality seeds and propagating materials of superior varieties grown and distributed to ensure genetic identity. Only after passing rigid field and seed

standards can seed be labeled as a class of certified seed. For a summary of crop, variety and acres inspected see Table V.

During the reporting period, **\$6,711.42** in fees was charged for field inspection, tags, labels and other services.

The Pennsylvania Department of Agriculture is an active member of the Association of Official Seed Certification Agencies.

Seed Laboratory

The Seed Laboratory provides technical information and performs a range of tests and analyses on seed samples from various sources. All seed samples are prepared and tested according to the "Rules for Testing Seeds" as approved and published by the Association of Official Seed Analysts (AOSA).

During the reporting period, the laboratory received **9,761** samples that required **11,685** separate tests (See Table I). Plant Industry Inspectors submitted **2956** regulatory seed samples for enforcement of the Seed Act, and **45** regulatory samples to test for viable weed seed to aid in the enforcement of the PA Feed Act. In addition, Plant Industry Inspectors issued **306** Seed Stop Sale Notices for labeling violations directly at retail and wholesale locations representing **2000** containers.

Farmers, wholesale seedsmen and retail outlets submitted **6,596** service samples for labeling purposes and guidance in planting. The seed certification program and various other state agencies submitted **166** samples to determine if the seed met their standards or specifications. A total of **\$70,441.00** in fees was collected for these services.

The Seed Analysts also identifies and tests seeds for the Pennsylvania Department of Transportation, other various State agencies, the State Police Crime Laboratory and the public.

The Seed Laboratory is an active member of AOSA and cooperates in work of various committees. A staff member attends the annual meeting of AOSA to vote on rule changes, discuss other items of business and attend committee meetings. Staff members also attended seed training schools; notably the Iowa State University Seed Short Course.

The department is also an active member of the Association of Seed Control Officials of the Northeastern States and the Association of American Seed Control Officials. A staff member attends the annual meeting of each organization.

Each year the Seed Analysts assist the small grain judge at the Pennsylvania Farm Show by examining each individual exhibit for noxious and common weed seeds, other crop seeds and foreign material.

Table I

Classification of samples by kind and numbers of tests involved.

Number of Samples	Kinds	Purity	Noxious Weed Examinations	Germinations*
5,650	Vegetable	69	5	5,749
2,037	Agricultural	511	718	1,901
1,503	Flower	0	1	1,528
12	Tree	0	0	1
45	Feed	0	45	3
15	Health Food	6	15	15
186	Pasture Mix	12	13	177
25	Flower Mix	0	0	14
31	Vegetable Mix	0	1	31
49	Conservation Mix	2	1	5
26	Vegetable Kit	0	0	25
182	Lawn Mix	89	89	90
0	Unidentified	0	0	0
9,761	Totals	689	888	9,539

Other Tests	
Treated Germination Test	0
Cold Test	112
Sand Test	47
Roundup® Ready Test	1
Tetrazolium Test	10
Endophyte Test	0
Ryegrass Fluorescence Test	150
Oats Fluorescence Test	73
Identification Test	8
400 Seed Count Test	80
Miscellaneous Test	7
Canada Noxious Weed Test	74
Seed Count Test	7
Total Tests	11,685

* Includes preliminary and final seedling counts.

SEED ACT ENFORCEMENT

In the enforcement of the Seed Act, Plant Industry Inspectors visit wholesale and retail firms to inspect seed labeling and obtain samples for testing. The inspectors collected 2,956 seed samples. A total of 192 or 6.50 % of these samples were found to be in violation of the Act. The inspectors also placed 198 lots of seed (3,969 containers) under 'Stop Sale' at 45 locations. These 'Stop Sales' are released when the owner or custodian of the seed follows the recommended procedure to have it relabeled in compliance with the law or otherwise disposed.

The tables on the following pages summarize the Seed Act Activities.

Table II is a comparison of the percentage of all violations for the past three years for all classes of seeds.

Table III summarizes the kinds of agriculture, vegetable and flower seeds tested with the number and percentage violation of each.

Table IV summarizes the inspection record of individual wholesale distributors giving total samples and number correctly labeled or in violation.

Table V represents a summary of crops, varieties and acres inspected by the seed certification program.

Table II

A comparison of violations of seed samples taken by seed inspectors.

Kinds	Number of Samples*	% Violations		
		7/1/2014 - 6/30/2015	7/1/2013 - 6/30/2014	7/1/2012 - 6/30/2013
Vegetable	1,795	4.85 %	5.52 %	4.08 %
Agricultural	378	5.29 %	10.00 %	12.90 %
Flower	547	4.20 %	7.40 %	9.14 %
Tree	1	100.00 %	0.00 %	100.00 %
Health Food	15	46.67 %	66.67 %	80.00 %
Pasture Mix	21	23.81 %	22.73 %	33.33 %
Flower Mix	21	14.29 %	37.50 %	0.00 %
Vegetable Mix	25	4.00 %	2.86 %	50.00 %
Conservation Mix	3	0.00 %	50.00 %	0.00 %
Vegetable Kit	26	3.85 %	0.00 %	0.00 %
Lawn Mix	124	35.48 %	16.35 %	29.55 %
Unidentified	0	0.00 %	0.00 %	0.00 %
Totals	2,956	6.50 %	7.44 %	7.88 %

* Samples collected by seed inspectors 7/1/2014 - 6/30/2015

Explanation of abbreviations used in tables.

- CL – Correctly labeled.
- SV – Serious violation, discrepancy exceeds double the tolerance.
- MV – Minor violation, discrepancy exceeds regular tolerance.
- TV – Technical violation, label does not bear all required information.
- #VIOL – Number of violations.
- %VIOL – Percentage of violations.

Table III

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

Seed Kind Tested	Vegetable Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Amaranth	1	1	0	0	0	0	0.00 %
Anise	1	1	0	0	0	0	0.00 %
Artichoke	2	2	0	0	0	0	0.00 %
Arugula	15	15	0	0	0	0	0.00 %
Asparagus	3	2	1	0	0	1	33.33 %
Asparagus Bean (Yardlong)	1	1	0	0	0	0	0.00 %
Basil	58	58	0	0	0	0	0.00 %
Bean, Garden	110	86	24	0	0	24	21.82 %
Bean, Red Kidney	1	0	1	0	0	1	100.00 %
Beet	43	41	2	0	0	2	4.65 %
Bitter Gourd/Melon	2	2	0	0	0	0	0.00 %
Borage, Common	2	2	0	0	0	0	0.00 %
Broccoli	21	20	1	0	0	1	4.76 %
Broccoli Raab (Turnip Broccoli)	5	5	0	0	0	0	0.00 %
Brokali	1	0	1	0	0	1	100.00 %
Brussels-Sprouts	11	9	2	0	0	2	18.18 %
Burdock, Greater	1	1	0	0	0	0	0.00 %
Burnet	1	1	0	0	0	0	0.00 %
Cabbage	37	33	4	0	0	4	10.81 %
Cabbage, Chinese	1	1	0	0	0	0	0.00 %
Cantaloupe	12	12	0	0	0	0	0.00 %
Carrot	58	57	1	0	0	1	1.72 %
Cat Grass	1	1	0	0	0	0	0.00 %
Catgrass	2	2	0	0	0	0	0.00 %
Catnip	6	4	2	0	0	2	33.33 %
Cauliflower	13	13	0	0	0	0	0.00 %
Celeriac	4	4	0	0	0	0	0.00 %
Celery	7	6	1	0	0	1	14.29 %
Chamomile, Roman	1	1	0	0	0	0	0.00 %
Chervil	3	3	0	0	0	0	0.00 %
Chickpea	1	1	0	0	0	0	0.00 %

Seed Kind Tested	Vegetable Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Chicory	6	5	1	0	0	1	16.67 %
Chicory	1	1	0	0	0	0	0.00 %
Chives	5	5	0	0	0	0	0.00 %
Chives, Garlic	6	6	0	0	0	0	0.00 %
Cilantro	13	13	0	0	0	0	0.00 %
Collards	13	13	0	0	0	0	0.00 %
Coriander	2	2	0	0	0	0	0.00 %
Corn, Sweet	66	66	0	0	0	0	0.00 %
Cowpea	2	2	0	0	0	0	0.00 %
Cress	3	3	0	0	0	0	0.00 %
Cucumber	54	53	1	0	0	1	1.85 %
Dandelion	3	3	0	0	0	0	0.00 %
Dill	16	16	0	0	0	0	0.00 %
Eggplant	12	12	0	0	0	0	0.00 %
Endive	11	11	0	0	0	0	0.00 %
Escarole	4	4	0	0	0	0	0.00 %
Fava Bean	3	3	0	0	0	0	0.00 %
Fennel	8	8	0	0	0	0	0.00 %
Garden Bean	6	6	0	0	0	0	0.00 %
German Chamomile	2	1	1	0	0	1	50.00 %
Gourd, Bottle	5	5	0	0	0	0	0.00 %
Gourd, Small-Seeded	8	8	0	0	0	0	0.00 %
Gourds, Large-Seeded	8	8	0	0	0	0	0.00 %
Gourds, Luffa (Dishcloth)	3	3	0	0	0	0	0.00 %
Groundcherry	1	1	0	0	0	0	0.00 %
Kale	15	14	1	0	0	1	6.67 %
Kohlrabi	12	12	0	0	0	0	0.00 %
Lavender	4	4	0	0	0	0	0.00 %
Leek	9	9	0	0	0	0	0.00 %
Lemon Balm	1	1	0	0	0	0	0.00 %
lemongrass	2	2	0	0	0	0	0.00 %
Lettuce	159	150	9	0	0	9	5.66 %
Lima Bean	10	7	3	0	0	3	30.00 %
Lovage	1	1	0	0	0	0	0.00 %
Mache (Corn salad)	7	6	1	0	0	1	14.29 %
Marigold, Sweet	1	1	0	0	0	0	0.00 %
Marjoram	2	2	0	0	0	0	0.00 %
Melons	19	19	0	0	0	0	0.00 %
Mint	1	1	0	0	0	0	0.00 %
Mustard	26	26	0	0	0	0	0.00 %
Mustard, India	2	2	0	0	0	0	0.00 %

Seed Kind Tested	Vegetable Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
New Zealand Spinach	1	1	0	0	0	0	0.00 %
Okra	14	14	0	0	0	0	0.00 %
Onion	41	35	6	0	0	6	14.63 %
Oregano	10	10	0	0	0	0	0.00 %
Oriental Green	2	2	0	0	0	0	0.00 %
Pakchoi	7	7	0	0	0	0	0.00 %
Par-Cel	1	0	1	0	0	1	100.00 %
Parsley	27	27	0	0	0	0	0.00 %
Parsnip	6	6	0	0	0	0	0.00 %
Pea, Garden	68	63	5	0	0	5	7.35 %
Peanut	2	1	1	0	0	1	50.00 %
Pepper	90	84	6	0	0	6	6.67 %
Pepper, Hot	56	50	6	0	0	6	10.71 %
Popcorn	2	2	0	0	0	0	0.00 %
Pumpkin	23	22	1	0	0	1	4.35 %
Purslane	2	2	0	0	0	0	0.00 %
Radicchio	4	4	0	0	0	0	0.00 %
Radish	79	79	0	0	0	0	0.00 %
Rosemary	3	3	0	0	0	0	0.00 %
Runner Bean	3	3	0	0	0	0	0.00 %
Rutabaga	2	2	0	0	0	0	0.00 %
Sage	8	7	1	0	0	1	12.50 %
Salad Greens	1	1	0	0	0	0	0.00 %
Savory, Summer	2	2	0	0	0	0	0.00 %
Scarlet Sage	2	2	0	0	0	0	0.00 %
Shallot	1	1	0	0	0	0	0.00 %
Sorrel	3	3	0	0	0	0	0.00 %
Soybean	6	4	2	0	0	2	33.33 %
Spearmint	2	2	0	0	0	0	0.00 %
Spinach	30	30	0	0	0	0	0.00 %
Squash	75	72	3	0	0	3	4.00 %
Strawberry	1	1	0	0	0	0	0.00 %
Sunflower	2	2	0	0	0	0	0.00 %
Sweet Marjoram	4	4	0	0	0	0	0.00 %
Swiss Chard	29	27	2	0	0	2	6.90 %
Tarragon	1	1	0	0	0	0	0.00 %
Thistle, Russian	1	1	0	0	0	0	0.00 %
Thyme	9	9	0	0	0	0	0.00 %
Thymus, Creeping Thyme	1	1	0	0	0	0	0.00 %
Tomatillo	8	8	0	0	0	0	0.00 %
Tomato	193	191	2	0	0	2	1.04 %

Seed Kind Tested	Vegetable Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Turnip	20	20	0	0	0	0	0.00 %
Watermelon	9	9	0	0	0	0	0.00 %
Total	1,808	1,715	93	0	0	93	5.14 %

Seed Kind Tested	Agricultural Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Alfalfa	10	10	0	0	0	0	0.00 %
Alfalfa	7	5	1	1	0	2	28.57 %
Barley	10	10	0	0	0	0	0.00 %
Beet, Sugar	1	1	0	0	0	0	0.00 %
Bentgrass	1	1	0	0	0	0	0.00 %
Birdsfoot Trefoil	8	8	0	0	0	0	0.00 %
Brome, Alaska	1	1	0	0	0	0	0.00 %
Brome, Smooth	3	3	0	0	0	0	0.00 %
Buckwheat	3	3	0	0	0	0	0.00 %
Camelina	1	1	0	0	0	0	0.00 %
Chewings Fescue	1	1	0	0	0	0	0.00 %
Clover, Alsike	3	3	0	0	0	0	0.00 %
Clover, Balansa	1	1	0	0	0	0	0.00 %
Clover, Crimson	2	2	0	0	0	0	0.00 %
Clover, Ladino White	3	3	0	0	0	0	0.00 %
Clover, Red	11	11	0	0	0	0	0.00 %
Clover, White	2	2	0	0	0	0	0.00 %
Cogongrass	1	1	0	0	0	0	0.00 %
Corn, Hybrid Field	20	20	0	0	0	0	0.00 %
Corn, Sweet	3	3	0	0	0	0	0.00 %
Crownvetch	4	4	0	0	0	0	0.00 %
Festulolium	1	1	0	0	0	0	0.00 %
Hairy Vetch	3	3	0	0	0	0	0.00 %
Hard Fescue	10	10	0	0	0	0	0.00 %
Japanese Millet	1	1	0	0	0	0	0.00 %
Kentucky Bluegrass	40	37	2	0	1	3	7.50 %
Lespedeza	1	1	0	0	0	0	0.00 %
Meadow Fescue	2	2	0	0	0	0	0.00 %
Millet, Browntop	1	1	0	0	0	0	0.00 %
Oat	17	14	2	0	1	3	17.65 %
Orchardgrass	11	10	1	0	0	1	9.09 %
Pea, Field	1	1	0	0	0	0	0.00 %
Radish, Forage	2	2	0	0	0	0	0.00 %

Seed Kind Tested	Agricultural Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Rape	2	2	0	0	0	0	0.00 %
Red Fescue	19	18	1	0	0	1	5.26 %
Redtop	6	4	2	0	0	2	33.33 %
Reed Canarygrass	1	1	0	0	0	0	0.00 %
Rye	12	12	0	0	0	0	0.00 %
Ryegrass, Annual	28	28	0	0	0	0	0.00 %
Ryegrass, Intermediate	1	1	0	0	0	0	0.00 %
Ryegrass, Perennial	31	26	5	0	0	5	16.13 %
Showy Tick Trefoil	1	1	0	0	0	0	0.00 %
Sorghum	2	2	0	0	0	0	0.00 %
Sorghum-Sudangrass Hybrid	1	1	0	0	0	0	0.00 %
Soybean	23	23	0	0	0	0	0.00 %
Spelt	1	1	0	0	0	0	0.00 %
Switchgrass	2	2	0	0	0	0	0.00 %
Tall Fescue	25	23	1	0	1	2	8.00 %
Timothy	17	17	0	0	0	0	0.00 %
Triticale	8	5	3	0	0	3	37.50 %
Turnip	2	2	0	0	0	0	0.00 %
Wheat	12	12	0	0	0	0	0.00 %
Total	380	358	18	1	3	22	5.79 %

Seed Kind Tested	Flower Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Abutilon/Indian Mallow	1	0	1	0	0	1	100.00 %
Achillea (Yarrow)	1	1	0	0	0	0	0.00 %
Agastache – Giant Hyssop	2	2	0	0	0	0	0.00 %
Ageratum	4	4	0	0	0	0	0.00 %
Agrostemma	1	1	0	0	0	0	0.00 %
Alyssum, golden-tuft	1	1	0	0	0	0	0.00 %
Alyssum, Sweet	11	9	2	0	0	2	18.18 %
Amaranthus	6	6	0	0	0	0	0.00 %
Angelonia	1	1	0	0	0	0	0.00 %
Asters	5	5	0	0	0	0	0.00 %
Aubrieta	1	1	0	0	0	0	0.00 %
Baby's Breath, Annual	1	1	0	0	0	0	0.00 %
Baby's-Breath, perennial	3	3	0	0	0	0	0.00 %
Bachelor's Button	6	3	3	0	0	3	50.00 %
Balsam	1	1	0	0	0	0	0.00 %
Bean, Hyacinth	1	1	0	0	0	0	0.00 %

Seed Kind Tested	Flower Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Begonia	2	2	0	0	0	0	0.00 %
Bells of Ireland	4	3	1	0	0	1	25.00 %
Bishop's Flower	2	2	0	0	0	0	0.00 %
Black-Eye Susan Vine	2	2	0	0	0	0	0.00 %
Blanket Flower	1	1	0	0	0	0	0.00 %
Blue Fescue	1	1	0	0	0	0	0.00 %
Bluestem, Little	1	0	1	0	0	1	100.00 %
Broomcorn	2	2	0	0	0	0	0.00 %
Browallia	1	1	0	0	0	0	0.00 %
Butterfly Flower	2	2	0	0	0	0	0.00 %
Butterfly-Bush	1	1	0	0	0	0	0.00 %
Cactus	1	1	0	0	0	0	0.00 %
Calendula	7	7	0	0	0	0	0.00 %
California Poppy	1	1	0	0	0	0	0.00 %
Campanula	1	1	0	0	0	0	0.00 %
Canterbury Bells	1	1	0	0	0	0	0.00 %
Cape Daisy	1	1	0	0	0	0	0.00 %
Cardinal Climber	1	1	0	0	0	0	0.00 %
Carnation	1	1	0	0	0	0	0.00 %
Cat Grass	2	2	0	0	0	0	0.00 %
Catmint	1	0	1	0	0	1	100.00 %
Celosia	7	7	0	0	0	0	0.00 %
China Aster	2	2	0	0	0	0	0.00 %
Chinese Lanterns	1	1	0	0	0	0	0.00 %
Chrysanthemum	2	1	1	0	0	1	50.00 %
Cineraria	1	1	0	0	0	0	0.00 %
Cleome	5	3	2	0	0	2	40.00 %
Coleus	5	4	1	0	0	1	20.00 %
Columbine	4	4	0	0	0	0	0.00 %
Coneflower, Purple	1	1	0	0	0	0	0.00 %
Convolvulus	2	2	0	0	0	0	0.00 %
Coreopsis, Lance-leaf	2	2	0	0	0	0	0.00 %
Corn, Ornamental	3	3	0	0	0	0	0.00 %
Corn, Sweet	9	9	0	0	0	0	0.00 %
Cornflower	3	3	0	0	0	0	0.00 %
Cosmidium burridgeanum	1	1	0	0	0	0	0.00 %
Cosmos	24	23	1	0	0	1	4.17 %
Creeping Zinnia	1	1	0	0	0	0	0.00 %
Cuphea	1	1	0	0	0	0	0.00 %
Cypress Vine	3	3	0	0	0	0	0.00 %
Dahlia	3	2	1	0	0	1	33.33 %

Seed Kind Tested	Flower Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Daisy, Painted	1	1	0	0	0	0	0.00 %
Daisy, Shasta	5	5	0	0	0	0	0.00 %
Delphinium (Pacific Giants)	5	4	1	0	0	1	20.00 %
Dianthus	5	5	0	0	0	0	0.00 %
Dusty Miller	1	1	0	0	0	0	0.00 %
Echinacea	1	1	0	0	0	0	0.00 %
Eucalyptus,Foliage	1	1	0	0	0	0	0.00 %
Forget-Me-Not	2	2	0	0	0	0	0.00 %
Forget-Me-Not,Chinese	1	1	0	0	0	0	0.00 %
Four O'clock	3	3	0	0	0	0	0.00 %
Foxglove	3	3	0	0	0	0	0.00 %
Gaillardia	3	3	0	0	0	0	0.00 %
Gazania	2	2	0	0	0	0	0.00 %
Geranium	5	5	0	0	0	0	0.00 %
German Chamomile	1	1	0	0	0	0	0.00 %
Gloriosa Daisy	3	3	0	0	0	0	0.00 %
Godetia	1	1	0	0	0	0	0.00 %
Goldeneye, Showy	1	1	0	0	0	0	0.00 %
Gomphrena	3	3	0	0	0	0	0.00 %
Gourd, Small-Seeded	1	1	0	0	0	0	0.00 %
Hairgrass, Slender	1	1	0	0	0	0	0.00 %
Helichrysum	1	0	1	0	0	1	100.00 %
Hollyhock	9	9	0	0	0	0	0.00 %
Iberis	1	1	0	0	0	0	0.00 %
Ice Plant	1	1	0	0	0	0	0.00 %
Impatiens	1	0	1	0	0	1	100.00 %
Ipomopsis (Scarlet Gilia)	2	2	0	0	0	0	0.00 %
Kale, Ornamental	4	4	0	0	0	0	0.00 %
Larkspur	1	1	0	0	0	0	0.00 %
Larkspur, Field	1	1	0	0	0	0	0.00 %
Larkspur, Rocket (annual)	3	3	0	0	0	0	0.00 %
Lavender	2	2	0	0	0	0	0.00 %
Lavender	3	3	0	0	0	0	0.00 %
Lemon Balm	1	1	0	0	0	0	0.00 %
Lobelia	3	3	0	0	0	0	0.00 %
Love In A Mist	1	1	0	0	0	0	0.00 %
Lunaria	1	1	0	0	0	0	0.00 %
Lupine, Russell	2	2	0	0	0	0	0.00 %
Lychnis	1	1	0	0	0	0	0.00 %
Marigold, Sweet	1	1	0	0	0	0	0.00 %
Marigolds	42	40	2	0	0	2	4.76 %

Seed Kind Tested	Flower Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Mexican Sunflower	2	2	0	0	0	0	0.00 %
Monarda	1	1	0	0	0	0	0.00 %
Moneyplant	1	1	0	0	0	0	0.00 %
Moonflower	2	2	0	0	0	0	0.00 %
Morning Glory	15	15	0	0	0	0	0.00 %
Nasturtium	13	13	0	0	0	0	0.00 %
Nemophila	2	2	0	0	0	0	0.00 %
Nicotiana	1	1	0	0	0	0	0.00 %
Painted Daisy	1	1	0	0	0	0	0.00 %
Pampas Grass	1	1	0	0	0	0	0.00 %
Pansy, Common	5	5	0	0	0	0	0.00 %
Pentas	1	0	1	0	0	1	100.00 %
Pepper, Ornamental	1	1	0	0	0	0	0.00 %
Petunias	7	7	0	0	0	0	0.00 %
Phlox	1	1	0	0	0	0	0.00 %
Popcorn	1	1	0	0	0	0	0.00 %
Poppy, California	5	5	0	0	0	0	0.00 %
Poppy, Corn	1	1	0	0	0	0	0.00 %
Poppy, Opium	3	3	0	0	0	0	0.00 %
Poppy, Oriental	3	3	0	0	0	0	0.00 %
Poppy, Shirley	2	2	0	0	0	0	0.00 %
Portulaca	4	3	1	0	0	1	25.00 %
Ridolfia	1	0	1	0	0	1	100.00 %
Rudbeckia	4	4	0	0	0	0	0.00 %
Salpiglossis	1	1	0	0	0	0	0.00 %
Salvia	6	6	0	0	0	0	0.00 %
Scabiosa (annual) /Mourning-bride	1	1	0	0	0	0	0.00 %
Senna	1	1	0	0	0	0	0.00 %
Snapdragon	9	9	0	0	0	0	0.00 %
Spurred Snapdragon	1	1	0	0	0	0	0.00 %
Statice	2	2	0	0	0	0	0.00 %
Stock	3	3	0	0	0	0	0.00 %
Strawflower	2	2	0	0	0	0	0.00 %
Sunflower	65	65	0	0	0	0	0.00 %
Sweet Alyssum	2	2	0	0	0	0	0.00 %
Sweet Pea, annual	15	15	0	0	0	0	0.00 %
Sweet William	1	1	0	0	0	0	0.00 %
Texas Bluebonnet	1	1	0	0	0	0	0.00 %
Tithonia	2	2	0	0	0	0	0.00 %
Verbena	1	1	0	0	0	0	0.00 %
Verbena	1	1	0	0	0	0	0.00 %

Seed Kind Tested	Flower Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Vinca	4	4	0	0	0	0	0.00 %
Viola	3	3	0	0	0	0	0.00 %
Wallflower	1	1	0	0	0	0	0.00 %
Zinnia	55	55	0	0	0	0	0.00 %
Total	547	524	23	0	0	23	4.20 %

Seed Kind Tested	Tree Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Spruce	1	0	0	0	1	1	100.00 %
Total	1	0	0	0	1	1	100.00 %

Seed Kind Tested	Feed						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Feed	45	45	0	0	0	0	0.00 %

Seed Kind Tested	Pasture Mix						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Pasture Mix	21	16	4	1	0	5	23.81 %

Seed Kind Tested	Flower Mix						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Flower Mix	21	18	3	0	0	3	14.29 %

Seed Kind Tested	Vegetable Kit						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Vegetable Kit	26	25	1	0	0	1	3.85 %

Seed Kind Tested	Lawn Mix						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Lawn Mix	124	80	37	2	5	44	35.48 %

Table IV

Vegetable Seeds Wholesale Distributors			Vegetable Seeds			
			CL	SV	TV	MV
ABBOTT & COBB INC	TREVOSE	PA	64	1	0	0
AMERICAN SEED CO INC	SPRING GROVE	PA	13	1	0	0
BAKER CREEK HEIRLOOM SEED CO	MANSFIELD	MO	3	0	0	0
BOTANICAL INTERESTS INC	BROOMFIELD	CO	7	0	0	0
CROSMAN SEED CORP	EAST ROCHESTER	NY	1	0	0	0
FRANCHI SEMENTI	LAWRENCE	KS	1	0	0	0
HIGH MOWING SEED CO	WOLCOTT	VT	2	0	0	0
HOME FARMER	SAN LUIS OBISPO	CA	1	0	0	0
JOHNNYS SELECTED SEEDS	WINSLOW	ME	1	0	0	0
LAKE VALLEY SEED COMPANY INC	BOULDER	CO	4	1	0	0
LIVINGSTON SEED INC	COLUMBUS	OH	4	0	0	0
MICHELL CO, HENRY F	KING OF PRUSSIA	PA	20	0	0	0
P L ROHRER & BRO INC	SMOKETOWN	PA	64	2	0	0
PLANTATION PRODUCTS	NORTON	MA	14	0	0	0
RENEE'S GARDEN LLC	FELTON	CA	1	0	0	0
SEED SAVERS EXCHANGE	DECORAH	IA	1	1	0	0
SEEDS OF CHANGE	COMPTON	CA	6	0	0	0
SEEDWAY LLC	HALL	NY	161	5	0	0
THE COOKS GARDEN	WARMINSTER	PA	322	21	0	0
THE PAGE SEED COMPANY	GREENE	NY	1	0	0	0
W ATLEE BURPEE CO	WARMINSTER	PA	1,016	55	0	0
WEEKS SEED CO	GREENVILLE	NC	1	0	0	0
		Total	1,708	87	0	0

Agricultural Seeds Wholesale Distributors			Agricultural Seeds			
			CL	SV	TV	MV
ADVANTA US	AMARILLO	TX	2	0	0	0
AGRIGOLD	SAINT FRANCISVILLE	IL	1	0	0	0
ALFOREX SEEDS LLC D/B/A PRODUCER'S CHOICE	JORDAN	MN	1	0	0	0
ALLIANCE SEEDS INC	BROOKLYN	NY	5	0	0	0
AMERICAN SEED CO INC	SPRING GROVE	PA	17	2	0	1
ANDRE & SON INC	MONTROSE	PA	1	0	0	0
AUGUSTA SEED	VERONA	VA	1	0	0	0
BARENBRUG USA	TANGENT	OR	2	0	0	0
BFG SUPPLY CO.	BURTON	OH	22	1	0	0
BFG SUPPLY DBA WETSEL	HARRISONBURG	VA	14	0	0	0
BFG SUPPLY DBA WETSEL INC	CHESWICK	PA	19	0	0	0
CENTRAL FARM AND GARDEN	WOOSTER	OH	2	0	0	0
CHEMGRO SEEDS	EAST PETERSBURG	PA	13	0	0	0

Agricultural Seeds Wholesale Distributors			Agricultural Seeds			
			CL	SV	TV	MV
CLARK SEEDS INC	CLAYTON	DE	1	0	0	0
COVER CROP SOLUTIONS, LLC	LITITZ	PA	2	0	0	0
DAIRYLAND SEED CO INC	KEWASKUM	WI	3	0	0	0
DLF INTERNATIONAL SEEDS	HALSEY	OR	0	1	0	0
DOEBLER'S PENNSYLVANIA HYBRIDS INC	JERSEY SHORE	PA	2	0	0	0
EDDIE MERCER AGRI SERVICES INC	FREDERICK	MD	4	1	0	0
ERNST CONSERVATION SEED	MEADVILLE	PA	9	1	0	0
F M BROWNS SONS INC	SINKING SPRING	PA	9	0	0	0
FLICKER HILL FARM	HANOVER	PA	1	0	0	0
FRENCH'S HYBRIDS INC	WAKEMAN	OH	1	0	0	0
GROWMARK FS LLC	YORK	PA	39	2	0	0
GROWMARK FS, LLC	MILFORD	DE	2	0	0	0
HISTANDS SUPPLY	WYCOMBE	PA	3	0	0	0
HORST SEEDS	CHAMBERSBURG	PA	1	0	0	0
KING'S AGRI SEEDS INC	RONKS	PA	1	1	0	0
LA CROSSE FORAGE & TURF SEED LLC DBA LA CROSSE SEE	LA CROSSE	WI	1	0	0	0
LA CROSSE FORAGE & TURF SEED, LLC DBA LA CROSSE SE	SIOUX FALLS	SD	1	0	0	0
LEABROOK AG	LANCASTER	PA	6	1	0	0
LOVELAND PRODUCTS INC	GREELEY	CO	8	0	0	0
MASTERS CHOICE INC	ANNA	IL	1	0	0	0
MID-ATLANTIC SEEDS INC	YORK	PA	11	1	0	0
MILLBORN SEEDS INC	BROOKINGS	SD	1	0	0	0
MONSANTO COMPANY	ST LOUIS	MO	3	0	0	0
NATIONAL SEED	NEW BRUNSWICK	NJ	1	0	0	0
NEXGROW GENETICS DBA FORAGE GENETICS INTERNATIONAL	NAMPA	ID	0	0	1	0
NORTHAMPTON COUNTY SEED CO	NAZARETH	PA	14	1	0	0
P L ROHRER & BRO INC	SMOKETOWN	PA	0	1	0	0
PENNINGTON SEED	LEBANON	OR	1	0	0	0
PIONEER HI-BRED INT'L INC	JOHNSTON	IA	3	0	0	0
PREFERRED SEED COMPANY INC	BUFFALO	NY	4	0	0	0
RAGAN & MASSEY INC	PONCHATOU LA	LA	1	0	0	0
SEED LAB	HARRISBURG	PA	1	0	0	0
SEEDWAY LLC	MIFFLINBURG	PA	1	0	0	0
SEEDWAY LLC	HALL	NY	106	3	0	2
SEMICAN INTERNATIONAL INC	PLESSISVILLE	QC	1	0	0	0
SOUTHERN STATES COOP INC	RICHMOND	VA	1	0	0	0
STEYER SEEDS LLC	OLD FORT	OH	1	0	0	0
SYNGENTA SEEDS INC	MINNEAPOLIS	MN	3	0	0	0
T A SEEDS LLC	JERSEY SHORE	PA	3	0	0	0

Agricultural Seeds Wholesale Distributors			Agricultural Seeds			
			CL	SV	TV	MV
T. A. SEEDS	AVIS	PA	2	0	0	0
W ATLEE BURPEE CO	WARMINSTER	PA	2	0	0	0
W I MILLER & SONS	FARMDALE	OH	1	0	0	0
WIMBERLY FARMS INC	PRINCESS ANNE	MD	1	0	0	0
WINFIELD SOLUTIONS LLC	ST PAUL	MN	1	0	0	0
		Total	358	16	1	3

Flower Seeds Wholesale Distributors			Flower Seeds			
			CL	SV	TV	MV
ERNST CONSERVATION SEED	MEADVILLE	PA	1	0	0	0
LIVINGSTON SEED INC	COLUMBUS	OH	3	0	0	0
MICHELL CO, HENRY F	KING OF PRUSSIA	PA	48	7	0	0
P L ROHRER & BRO INC	SMOKETOWN	PA	45	1	0	0
PLANTATION PRODUCTS	NORTON	MA	6	0	0	0
SEEDS OF CHANGE	COMPTON	CA	1	0	0	0
SEEDWAY LLC	HALL	NY	56	4	0	0
THE COOKS GARDEN	WARMINSTER	PA	47	3	0	0
W ATLEE BURPEE CO	WARMINSTER	PA	317	8	0	0
		Total	524	23	0	0

Tree Seeds Wholesale Distributors			Tree Seeds			
			CL	SV	TV	MV
BUZZY INC	POTTSVILLE	PA	0	0	0	1
		Total	0	0	0	1

Feed Wholesale Distributors			Feed			
			CL	SV	TV	MV
ABBA PRODUCTS CORPORATION	HILLSIDE	NJ	1	0	0	0
ALBION MILL	ALBION	PA	4	0	0	0
AMERICAN SEED CO INC	SPRING GROVE	PA	2	0	0	0
CAPE HORN COUNTRY	RED LION	PA	1	0	0	0
CHATHAM RUN FEED MILL INC	LOCK HAVEN	PA	1	0	0	0
CHS INC. DBA SUNFLOWER	GRANDIN	ND	3	0	0	0
CO-OPERATIVE FEED DEALERS INC.	CONKLIN	NY	1	0	0	0
F M BROWNS SONS INC	SINKING SPRING	PA	13	0	0	0
GLOBAL HARVEST FOODS LTD	SEATTLE	WA	1	0	0	0
GOLDENFEAST INC	PHOENIXVILLE	PA	9	0	0	0
HOKE MILLS INC	ABBOTTSTOWN	PA	1	0	0	0
SUNDAYS MILL CO LLC	CARLISLE	PA	2	0	0	0

Feed Wholesale Distributors			Feed			
			CL	SV	TV	MV
TRACTOR SUPPLY COMPANY	BRENTWOOD	TN	4	0	0	0
WALMART	BENTONVILLE	AR	1	0	0	0
WENTZEL SONS INC, H R	NEWPORT	PA	1	0	0	0
		Total	45	0	0	0

Health Food Wholesale Distributors			Health Food			
			CL	SV	TV	MV
BOTANICAL INTERESTS INC	BROOMFIELD	CO	4	5	0	0
THE COOKS GARDEN	WARMINSTER	PA	2	1	0	0
W ATLEE BURPEE CO	WARMINSTER	PA	2	1	0	0
		Total	8	7	0	0

Pasture Mix Wholesale Distributors			Pasture Mix			
			CL	SV	TV	MV
AGRIGOLD	SAINT FRANCISVILLE	IL	2	0	0	0
BARENBRUG USA	TANGENT	OR	0	1	0	0
BEL AIR FARM SUPPLY	BEL AIR	MD	0	1	0	0
BIOLOGIC LLC	WEST POINT	MS	0	1	0	0
GROWMARK FS LLC	YORK	PA	5	0	0	0
KING'S AGRI SEEDS INC	RONKS	PA	1	0	0	0
LEABROOK AG	LANCASTER	PA	1	0	0	0
MID-ATLANTIC SEEDS INC	YORK	PA	1	0	0	0
MONSANTO COMPANY	ST LOUIS	MO	1	0	0	0
SEEDWAY LLC	HALL	NY	2	0	0	0
W ATLEE BURPEE CO	WARMINSTER	PA	1	0	1	0
WHITETAIL INSTITUTE OF NORTH AMERICA	PINTLALA	AL	2	1	0	0
		Total	16	4	1	0

Flower Mix Wholesale Distributors			Flower Mix			
			CL	SV	TV	MV
DLF INTERNATIONAL SEEDS	HALSEY	OR	0	1	0	0
P L ROHRER & BRO INC	SMOKETOWN	PA	1	0	0	0
PLANTATION PRODUCTS	NORTON	MA	5	1	0	0
SEEDWAY LLC	HALL	NY	0	1	0	0
W ATLEE BURPEE CO	WARMINSTER	PA	12	0	0	0
		Total	18	3	0	0

Vegetable Mix Wholesale Distributors			Vegetable Mix			
			CL	SV	TV	MV
SEEDWAY LLC	HALL	NY	0	1	0	0
W ATLEE BURPEE CO	WARMINSTER	PA	24	0	0	0
		Total	24	1	0	0

Conservation Mix Wholesale Distributors			Conservation Mix			
			CL	SV	TV	MV
BFG SUPPLY DBA WETSEL INC	CHESWICK	PA	1	0	0	0
HAKES FARM & SEED SERVICE	RED LION	PA	2	0	0	0
		Total	3	0	0	0

Vegetable Kit Wholesale Distributors			Vegetable Kit			
			CL	SV	TV	MV
W ATLEE BURPEE CO	WARMINSTER	PA	25	1	0	0
		Total	25	1	0	0

Lawn Mix Wholesale Distributors			Lawn Mix			
			CL	SV	TV	MV
AMERICAN SEED CO INC	SPRING GROVE	PA	3	0	0	2
AMTURF ENTERPRISES, LLC	CROWN POINT	IN	2	0	0	0
ANDRE & SON INC	MONTROSE	PA	1	0	0	0
BARENBRUG USA	TANGENT	OR	9	1	0	0
BFG SUPPLY DBA WETSEL INC	CHESWICK	PA	1	0	0	0
BONIDE PRODUCTS INC.	ORISKANY	NY	1	0	0	0
BRUSCA LANDSCAPE SUPPLY INC	NORRISTOWN	PA	1	0	0	0
CENTRAL TURF & IRRIGATION SUPPLY	ELMSFORD	NY	1	0	0	0
CHEMGRO SEEDS	EAST PETERSBURG	PA	0	0	1	0
CONSERVATION RESOURCES LLC	PIPERSVILLE	PA	1	1	0	0
DLF INTERNATIONAL SEEDS	HALSEY	OR	1	1	0	0
F M BROWNS SONS INC	SINKING SPRING	PA	2	0	0	0
FISHER & SON COMPANY INC	EXTON	PA	7	4	0	1
GENESIS TURFGRASS INC	GLEN ROCK	PA	1	0	0	0
GROWMARK FS LLC	YORK	PA	2	0	0	0
HARRELLS LLC	LAKELAND	FL	2	1	0	0
HILLTOP DISTRIBUTORS CO INC	MEDIA	PA	1	0	0	0
HISTANDS SUPPLY	WYCOMBE	PA	6	4	0	0
JOHN DEERE LANDSCAPE/LESCO INC	CLEVELAND	OH	1	0	0	0
LEBANON SEABOARD CORP	LEBANON	PA	1	3	0	0
LEBANON SEABOARD CORP	LEBANON	PA	1	0	0	0
LEBANON SEABOARD CORP	LEBANON	PA	1	1	0	0

Lawn Mix Wholesale Distributors			Lawn Mix			
			CL	SV	TV	MV
LOVELAND PRODUCTS INC	GREELEY	CO	1	0	0	0
MID-ATLANTIC SEEDS INC	YORK	PA	1	2	0	0
MT. VIEW SEEDS LTD	SALEM	OR	0	1	0	0
NATIONAL SEED	NEW BRUNSWICK	NJ	0	0	1	0
NORTHAMPTON COUNTY SEED CO	NAZARETH	PA	2	0	0	0
P L ROHRER & BRO INC	SMOKETOWN	PA	1	0	0	0
PENNINGTON SEED	LEBANON	OR	4	0	0	0
PENNINGTON SEED INC	GREENFIELD	MO	1	1	0	0
SAUDERS NURSERY	EAST EARL	PA	1	4	0	0
SEEDWAY LLC	HALL	NY	3	0	0	0
SITEONE LANDSCAPE SUPPLY, DBA LESCO INC	CLEVELAND	OH	11	5	0	2
SOUTHERN STATES COOP INC	RICHMOND	VA	1	0	0	0
SOUTHERN STATES-WESTFIELD	WESTFIELD	MA	1	1	0	0
SUSTAINABLE LOW MAINTENANCE GRASS LLC	PALM COAST	FL	1	0	0	0
THE LAWN DEPOT INC	DOYLESTOWN	PA	0	1	0	0
THE MILL OF BEL AIR	BEL AIR	MD	0	2	0	0
THE SCOTTS COMPANY	MARYSVILLE	OH	4	1	0	0
WINFIELD SOLUTIONS LLC	ST PAUL	MN	0	2	0	0
X-SEED, LLC	BECKER	MN	2	1	0	0
		Total	80	37	2	5

SEED CERTIFICATION
TABLE V
SUMMARY OF FIELD INSPECTIONS FOR 2015
(JULY 1, 2014- JUNE 30, 2015)

CROP	VARIETY	FOUNDATION	REGISTERED	CERTIFIED	Q/A
Barley, Winter	Amaze 10	----	11	----	
	Dan	----	----	----	95.74
	VA07H-31WS	----	----	----	
Oats, Spring	Armor	----	31.6	236	
	Corral	----	----	17	
Potatoes	Albane	----	----	1.5	
	Chieftain	----	----	4.8	
	Eva	----	----	11.99	
	LaChipper	----	----	97.5	
	Lamoka	----	----	1.12	
	Reba	----	----	24.04	
	Red La Soda	----	----	141	
	Red Maria	----	----	6.42	
	Snowden	----	----	29.11	
	Waneta	----	----	23.49	
Wheat, Winter	Bravo	----	----	14.5	
	Sunburst	----	18	24	
Soybean	SR3590N	----	----	----	59
TOTAL ACRES		0	78.75	1429.08	275

The above acreage was applied for certification. Seed from acreage that has passed field inspection must also meet mechanical standards in the Seed Lab to complete certification.

Number of Samples per Year

