



pennsylvania
DEPARTMENT OF AGRICULTURE

**Pennsylvania Department of Agriculture
Bureau of Plant Industry
2013 Seed Report
Pennsylvania Seed Act**

October 2013

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, 2012 to June 30, 2013.

Regulatory Requirements

The Seed Act, from which the division derives its authority, requires all seeds to be properly labeled before being offered for sale in Pennsylvania. Information must appear prominently on a tag or label attached to the exterior of the seed container. Seeds not properly labeled are subject to a "Stop Sale" order, which prohibits its sale 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.

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, **\$19,720.23** in fees was charged for field inspection, tags, labels and other services.

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 **8,032** samples that required **9,960** separate tests (See Table I). Plant Industry Inspectors submitted **2,653** regulatory seed samples for enforcement of the Seed Act, and **26** regulatory samples to test for viable weed seed to aid in the enforcement of the Pennsylvania Feed Act.

Farmers, wholesale seedsmen and retail outlets submitted **5,124** service samples for labeling purposes and guidance in planting. The seed certification program and other state agencies submitted **229** samples to determine if the seed met their standards or specifications. A total of **\$72,024.23** in fees were collected for these services.

Seed analysts also identify and test seeds for the Pennsylvania Department of Transportation, Department of Environmental Protection, Department of Conservation and Natural Resources, Bureau of Animal Health, the State Police Crime Laboratory and the public.

The Seed Laboratory is an active member of the Association of Official Seed Certification Agencies and cooperates in work of various committees. A staff member attends the annual meeting of the association 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 and the Federal Seed Laboratory's Seed School.

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 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*
4,247	Vegetable	55	9	4,205
1,771	Agricultural	479	733	1,653
1,559	Flower	7	7	1,584
6	Tree	0	0	0
26	Feed	0	26	4
5	Health Food	1	1	5
138	Pasture Mix	19	19	141
3	Flower Mix	0	0	2
12	Vegetable Mix	0	0	12
66	Conservation Mix	1	2	17
0	Vegetable Kit	0	0	0
199	Lawn Mix	96	95	114
0	Unidentified	0	0	0
8,032	Totals	658	892	7,737

Other Tests	
Interstate Noxious Weed Test	32
Treated Germination Test	0
Cold Test	142
Sand Test	46
Roundup® Ready Test	15
Tetrazolium Test	13
Endophyte Test	0
Ryegrass Fluorescence Test	179
Oats Fluorescence Test	89
Identification Test	1
Miscellaneous Test	8
400 Seed Count Test	91
Seed Count Test	11
Canada Noxious Weed Test	46
Total Tests	9,960

* 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 2,653 seed samples. A total of 209 or 7.88 % of these samples were found to be in violation of the Act. The inspectors also placed 165 lots of seed (7,921 containers) under 'Stop Sale' at 43 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		
		7/1/2012 - 6/30/2013	7/1/2011 - 6/30/2012	7/1/2010 - 6/30/2011
Vegetable	1,546	4.08 %	5.16 %	9.47 %
Agricultural	442	12.90 %	18.65 %	16.04 %
Flower	547	9.14 %	7.37 %	12.21 %
Tree	1	100.00 %	0.00 %	100.00 %
Health Food	5	80.00 %	0.00 %	0.00 %
Pasture Mix	21	33.33 %	66.67 %	53.33 %
Flower Mix	0	0.00 %	0.00 %	13.04 %
Vegetable Mix	2	50.00 %	0.00 %	12.50 %
Conservation Mix	1	0.00 %	0.00 %	56.25 %
Vegetable Kit	0	0.00 %	0.00 %	71.43 %
Lawn Mix	88	29.55 %	32.86 %	35.71 %
Totals	2,653	7.88 %	8.24 %	14.51 %

* Samples collected by seed inspectors 7/1/2012 - 6/30/2013

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
Anise	2	2	0	0	0	0	0.00 %
Artichoke	3	3	0	0	0	0	0.00 %
Arugula	10	10	0	0	0	0	0.00 %
Asparagus	3	3	0	0	0	0	0.00 %
Asparagus Bean (Yardlong)	2	2	0	0	0	0	0.00 %
Basil	43	42	1	0	0	1	2.33 %
Bean, Garden	81	75	5	1	0	6	7.41 %
Bean, Red Kidney	3	3	0	0	0	0	0.00 %
Beets	33	31	2	0	0	2	6.06 %
Black-Eyed-Pea	1	1	0	0	0	0	0.00 %
Black-seeded Lettuce	1	1	0	0	0	0	0.00 %
Borage, Common	4	4	0	0	0	0	0.00 %
Brassica	1	1	0	0	0	0	0.00 %
Broccoli	21	21	0	0	0	0	0.00 %
Broccoli Raab (Turnip Broccoli)	4	4	0	0	0	0	0.00 %
Broccolini (Brokali)	1	1	0	0	0	0	0.00 %
Brussels-Sprouts	10	10	0	0	0	0	0.00 %
Cabbage	28	26	2	0	0	2	7.14 %
Cabbage	2	2	0	0	0	0	0.00 %
Cabbage, Chinese	3	3	0	0	0	0	0.00 %
Cantaloupe	12	12	0	0	0	0	0.00 %
Cardoon	2	2	0	0	0	0	0.00 %
Carrot	62	61	0	1	0	1	1.61 %
Cat Grass	2	2	0	0	0	0	0.00 %
Catnip	6	5	1	0	0	1	16.67 %
Cauliflower	15	14	1	0	0	1	6.67 %
Celeriac	2	2	0	0	0	0	0.00 %
Celery	5	5	0	0	0	0	0.00 %
Chamomile, Roman	1	1	0	0	0	0	0.00 %
Chervil	3	3	0	0	0	0	0.00 %
Chicory	5	3	2	0	0	2	40.00 %

Seed Kind Tested	Vegetable Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Chives	7	5	2	0	0	2	28.57 %
Chives, Garlic	5	4	1	0	0	1	20.00 %
Cilantro	8	8	0	0	0	0	0.00 %
Collards	15	14	1	0	0	1	6.67 %
Coriander	4	3	1	0	0	1	25.00 %
Corn, Sweet	15	15	0	0	0	0	0.00 %
Cornsalad	6	6	0	0	0	0	0.00 %
Cowpea	2	2	0	0	0	0	0.00 %
Cress	1	1	0	0	0	0	0.00 %
Cucumber	60	59	1	0	0	1	1.67 %
Cumin	2	2	0	0	0	0	0.00 %
Dandelion	2	2	0	0	0	0	0.00 %
Dill	11	10	1	0	0	1	9.09 %
Eggplant	14	14	0	0	0	0	0.00 %
Endive	6	5	1	0	0	1	16.67 %
Escarole	2	2	0	0	0	0	0.00 %
Fava Bean	2	2	0	0	0	0	0.00 %
Fennel	5	5	0	0	0	0	0.00 %
Fenugreek	1	1	0	0	0	0	0.00 %
Garden Bean	11	11	0	0	0	0	0.00 %
German Chamomile	2	2	0	0	0	0	0.00 %
Gourd, Bottle	2	2	0	0	0	0	0.00 %
Gourd, Mixed	1	1	0	0	0	0	0.00 %
Gourd, Small-Seeded	2	2	0	0	0	0	0.00 %
Gourds, Large-Seeded	2	2	0	0	0	0	0.00 %
Gourds, Luffa (Dishcloth)	1	1	0	0	0	0	0.00 %
Groundcherry	1	1	0	0	0	0	0.00 %
Honey Dew	3	3	0	0	0	0	0.00 %
Horehound	1	1	0	0	0	0	0.00 %
Hyssop	1	1	0	0	0	0	0.00 %
Kale	15	13	1	0	1	2	13.33 %
Kohlrabi	12	12	0	0	0	0	0.00 %
Lavender	3	3	0	0	0	0	0.00 %
Leek	10	10	0	0	0	0	0.00 %
Lemon Balm	1	1	0	0	0	0	0.00 %
Lemon Basil	3	3	0	0	0	0	0.00 %
Lettuce	138	128	10	0	0	10	7.25 %
Lima Bean	10	10	0	0	0	0	0.00 %
Lovage	1	1	0	0	0	0	0.00 %
Mache (Corn salad)	2	2	0	0	0	0	0.00 %
Marjoram	1	1	0	0	0	0	0.00 %

Seed Kind Tested	Vegetable Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Melons	13	13	0	0	0	0	0.00 %
Mustard	17	15	2	0	0	2	11.76 %
Mustard, India	3	3	0	0	0	0	0.00 %
Okra	10	10	0	0	0	0	0.00 %
Onion	33	32	1	0	0	1	3.03 %
Orach Garden	2	2	0	0	0	0	0.00 %
Oregano	8	8	0	0	0	0	0.00 %
Pakchoi	6	6	0	0	0	0	0.00 %
Par-Cel	1	1	0	0	0	0	0.00 %
Parsley	19	18	1	0	0	1	5.26 %
Parsnip	4	4	0	0	0	0	0.00 %
Pea, Garden	64	63	0	1	0	1	1.56 %
Peanut	1	1	0	0	0	0	0.00 %
Pepper	59	56	3	0	0	3	5.08 %
Pepper, Habanero	3	2	1	0	0	1	33.33 %
Pepper, Hot	43	43	0	0	0	0	0.00 %
Popcorn	5	4	1	0	0	1	20.00 %
Pumpkin	28	27	0	0	1	1	3.57 %
Purslane	1	1	0	0	0	0	0.00 %
Radicchio	3	3	0	0	0	0	0.00 %
Radish	63	58	5	0	0	5	7.94 %
Rosemary	3	3	0	0	0	0	0.00 %
Rutabaga	3	3	0	0	0	0	0.00 %
Sage	5	5	0	0	0	0	0.00 %
Salad Greens	1	1	0	0	0	0	0.00 %
Salsify	1	0	1	0	0	1	100.00 %
Savory, Summer	2	2	0	0	0	0	0.00 %
Scarlet Runner Bean	3	3	0	0	0	0	0.00 %
Sorrel	2	2	0	0	0	0	0.00 %
Soybean	2	2	0	0	0	0	0.00 %
Spearmint	2	2	0	0	0	0	0.00 %
Spinach	23	22	1	0	0	1	4.35 %
Squash	78	77	1	0	0	1	1.28 %
Squash, Autum-Winter	15	13	2	0	0	2	13.33 %
Squash, Hubbard	1	1	0	0	0	0	0.00 %
Strawberry	1	1	0	0	0	0	0.00 %
Sweet Basil	5	5	0	0	0	0	0.00 %
Sweet Corn	35	34	1	0	0	1	2.86 %
Sweet Marjoram	2	2	0	0	0	0	0.00 %
Swiss Chard	20	19	1	0	0	1	5.00 %
Thyme	5	5	0	0	0	0	0.00 %

Seed Kind Tested	Vegetable Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Thymus, Creeping Thyme	1	1	0	0	0	0	0.00 %
Tomatillo	9	9	0	0	0	0	0.00 %
Tomato	139	134	5	0	0	5	3.60 %
Turnip	24	24	0	0	0	0	0.00 %
Watermelon	19	19	0	0	0	0	0.00 %
White-seeded Lettuce	1	1	0	0	0	0	0.00 %
Total	1,550	1,486	59	3	2	64	4.13 %

Seed Kind Tested	Agricultural Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Alfalfa	17	17	0	0	0	0	0.00 %
Alkaligrass, Weeping	1	0	1	0	0	1	100.00 %
Alsike Clover	4	2	2	0	0	2	50.00 %
Barley	5	5	0	0	0	0	0.00 %
Bentgrass, Autumn	1	0	1	0	0	1	100.00 %
Birdsfoot Trefoil	8	7	1	0	0	1	12.50 %
Bluestem, Big	1	1	0	0	0	0	0.00 %
Brassica	1	1	0	0	0	0	0.00 %
Brome, Alaska	1	1	0	0	0	0	0.00 %
Brome, Smooth	2	2	0	0	0	0	0.00 %
Buckwheat	2	2	0	0	0	0	0.00 %
Chewings Fescue	9	7	2	0	0	2	22.22 %
Corn, Hybrid Field	35	35	0	0	0	0	0.00 %
Crimson Clover	2	2	0	0	0	0	0.00 %
Crownvetch	3	3	0	0	0	0	0.00 %
Deertongue Grass	1	1	0	0	0	0	0.00 %
Festulolium	2	2	0	0	0	0	0.00 %
Hairy Vetch	1	0	1	0	0	1	100.00 %
Hard Fescue	18	14	3	1	0	4	22.22 %
Japanese Millet	1	1	0	0	0	0	0.00 %
Kentucky Bluegrass	43	35	4	2	2	8	18.60 %
Ladino White Clover	2	2	0	0	0	0	0.00 %
Oat	15	13	2	0	0	2	13.33 %
Orchardgrass	18	15	2	0	1	3	16.67 %
Pea, Field	1	1	0	0	0	0	0.00 %
Peanut	1	1	0	0	0	0	0.00 %
Radish, Forage	2	2	0	0	0	0	0.00 %
Rape	1	0	1	0	0	1	100.00 %
Red Clover	9	8	1	0	0	1	11.11 %

Seed Kind Tested	Agricultural Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Red Fescue	17	14	3	0	0	3	17.65 %
Redtop	6	5	1	0	0	1	16.67 %
Reed Canarygrass	1	0	0	0	1	1	100.00 %
Rye	5	5	0	0	0	0	0.00 %
Ryegrass, Annual	29	23	2	0	4	6	20.69 %
Ryegrass, Intermediate	4	4	0	0	0	0	0.00 %
Ryegrass, Perennial	47	33	9	1	4	14	29.79 %
Sheep Fescue	1	1	0	0	0	0	0.00 %
Sorghum	1	1	0	0	0	0	0.00 %
Sorghum-Sudangrass Hybrid	7	7	0	0	0	0	0.00 %
Soybean	22	21	1	0	0	1	4.55 %
Sudangrass	1	1	0	0	0	0	0.00 %
Sweet Clover	2	1	1	0	0	1	50.00 %
Sweet Corn	3	3	0	0	0	0	0.00 %
Switchgrass	2	1	0	0	1	1	50.00 %
Tall Fescue	42	37	5	0	0	5	11.90 %
Teff	1	0	1	0	0	1	100.00 %
Timothy	22	21	1	0	0	1	4.55 %
Triticale	3	3	0	0	0	0	0.00 %
Turnip	1	1	0	0	0	0	0.00 %
Wheat	16	15	1	0	0	1	6.25 %
White Clover	9	8	1	0	0	1	11.11 %
Total	449	385	47	4	13	64	14.25 %

Seed Kind Tested	Flower Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Achillea	1	1	0	0	0	0	0.00 %
Agastache – Giant Hyssop	2	2	0	0	0	0	0.00 %
Ageratum	3	2	1	0	0	1	33.33 %
Alyssum, golden-tuft	1	1	0	0	0	0	0.00 %
Amaranthus	6	5	0	1	0	1	16.67 %
Asclepias (Butterfly Weed)	2	2	0	0	0	0	0.00 %
Asters	3	3	0	0	0	0	0.00 %
Aubrieta	1	1	0	0	0	0	0.00 %
Baby's Breath	3	3	0	0	0	0	0.00 %
Baby's Breath, Annual	1	1	0	0	0	0	0.00 %
Bachelor's Button	3	3	0	0	0	0	0.00 %
Balloon Flower (Campanula)	1	0	1	0	0	1	100.00 %
Balsam	1	1	0	0	0	0	0.00 %

Seed Kind Tested	Flower Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Bean, Castor	1	0	1	0	0	1	100.00 %
Bee Balm	1	1	0	0	0	0	0.00 %
Begonia	1	1	0	0	0	0	0.00 %
Bells of Ireland	2	2	0	0	0	0	0.00 %
Bishop's Flower	1	1	0	0	0	0	0.00 %
Black-Eye Susan Vine	2	2	0	0	0	0	0.00 %
Blue Fescue	1	1	0	0	0	0	0.00 %
Broomcorn	1	0	1	0	0	1	100.00 %
Browallia	1	1	0	0	0	0	0.00 %
Butterfly Flower	1	1	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	6	6	0	0	0	0	0.00 %
California Poppy	3	3	0	0	0	0	0.00 %
Candytuft	2	2	0	0	0	0	0.00 %
Canterbury Bells	1	1	0	0	0	0	0.00 %
Cape Daisy	1	0	1	0	0	1	100.00 %
Carnation	1	1	0	0	0	0	0.00 %
Catmint	1	1	0	0	0	0	0.00 %
Cattails	1	0	1	0	0	1	100.00 %
Celosia	1	1	0	0	0	0	0.00 %
Celosia	5	5	0	0	0	0	0.00 %
China Aster	1	1	0	0	0	0	0.00 %
Chinese Lanterns	1	1	0	0	0	0	0.00 %
Chrysanthemum	2	2	0	0	0	0	0.00 %
Cleome	4	4	0	0	0	0	0.00 %
Coleus	4	4	0	0	0	0	0.00 %
Columbine	9	9	0	0	0	0	0.00 %
Coneflower	1	1	0	0	0	0	0.00 %
Convolvulus	3	3	0	0	0	0	0.00 %
Coreopsis	4	4	0	0	0	0	0.00 %
Coreopsis, Lance-Leaf	1	1	0	0	0	0	0.00 %
Corn, Ornamental	3	3	0	0	0	0	0.00 %
Cornflower	3	2	1	0	0	1	33.33 %
Cosmos	18	17	1	0	0	1	5.56 %
Cosmos, Sulphur	3	3	0	0	0	0	0.00 %
Cypress Vine	2	2	0	0	0	0	0.00 %
Dahlia	3	3	0	0	0	0	0.00 %
Daisy, African	1	1	0	0	0	0	0.00 %
Daisy, Gloriosa	1	1	0	0	0	0	0.00 %
Daisy, Shasta	5	5	0	0	0	0	0.00 %

Seed Kind Tested	Flower Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Delphinium (Pacific Giants)	3	2	1	0	0	1	33.33 %
Dianthus	6	6	0	0	0	0	0.00 %
Dusty Miller	2	2	0	0	0	0	0.00 %
Echinacea	4	4	0	0	0	0	0.00 %
Field Larkspur	1	1	0	0	0	0	0.00 %
Five-Spot	1	1	0	0	0	0	0.00 %
Forget-Me-Not	1	1	0	0	0	0	0.00 %
Forget-Me-Not,Chinese	1	1	0	0	0	0	0.00 %
Four O'clock	6	3	3	0	0	3	50.00 %
Foxglove	3	3	0	0	0	0	0.00 %
Gaillardia	2	2	0	0	0	0	0.00 %
Gaillardia (Perennial)	2	2	0	0	0	0	0.00 %
Gazania	3	2	1	0	0	1	33.33 %
Geranium	3	3	0	0	0	0	0.00 %
Gloriosa Daisy	1	1	0	0	0	0	0.00 %
Godetia	1	1	0	0	0	0	0.00 %
Gomphrena	2	2	0	0	0	0	0.00 %
Gourd, Small-Seeded	1	1	0	0	0	0	0.00 %
Gourds, Large-Seeded	1	0	1	0	0	1	100.00 %
Gourds, Luffa (Dishcloth)	1	0	1	0	0	1	100.00 %
Gypsophila	1	1	0	0	0	0	0.00 %
Helichrysum	1	1	0	0	0	0	0.00 %
Hollyhock	6	6	0	0	0	0	0.00 %
Hypoestes	1	1	0	0	0	0	0.00 %
Ice Plant (Mesembryanthemum)	1	1	0	0	0	0	0.00 %
Impatiens	6	4	2	0	0	2	33.33 %
Ipomopsis (Scarlet Gilia)	1	1	0	0	0	0	0.00 %
June Grass	1	1	0	0	0	0	0.00 %
Kale, Ornamental	1	1	0	0	0	0	0.00 %
Larkspur	6	5	1	0	0	1	16.67 %
Larkspur, Rocket (annual)	1	1	0	0	0	0	0.00 %
Laurentia	1	1	0	0	0	0	0.00 %
Lavender	6	5	1	0	0	1	16.67 %
Lobelia	2	1	1	0	0	1	50.00 %
Love In A Mist	1	1	0	0	0	0	0.00 %
Lunaria	1	1	0	0	0	0	0.00 %
Lupine hartwegii (annual)	2	2	0	0	0	0	0.00 %
Lupine, Russell	2	2	0	0	0	0	0.00 %
Lupine, Russell hybrids	2	2	0	0	0	0	0.00 %
Lychnis	1	1	0	0	0	0	0.00 %
Malabar Spinach	1	1	0	0	0	0	0.00 %

Seed Kind Tested	Flower Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Marigolds	39	34	5	0	0	5	12.82 %
Melampodium	2	1	1	0	0	1	50.00 %
Mexican Sunflower	1	1	0	0	0	0	0.00 %
Monarda	2	2	0	0	0	0	0.00 %
Moonflower	3	3	0	0	0	0	0.00 %
Morning Glory	16	15	1	0	0	1	6.25 %
Nasturtium	13	11	2	0	0	2	15.38 %
Nemophila	1	1	0	0	0	0	0.00 %
Nicotiana	2	2	0	0	0	0	0.00 %
Nicotiana	2	1	1	0	0	1	50.00 %
Nigella	1	1	0	0	0	0	0.00 %
Painted Daisy	3	3	0	0	0	0	0.00 %
Pansy, Common	10	10	0	0	0	0	0.00 %
Penstemon	1	1	0	0	0	0	0.00 %
Petunias	8	7	1	0	0	1	12.50 %
Phlox	1	1	0	0	0	0	0.00 %
Phlox, Drummond	1	1	0	0	0	0	0.00 %
Poppy, California	1	1	0	0	0	0	0.00 %
Poppy, Corn	3	3	0	0	0	0	0.00 %
Poppy, Hungarian breadseed	3	3	0	0	0	0	0.00 %
Poppy, Opium	2	2	0	0	0	0	0.00 %
Poppy, Oriental	6	5	1	0	0	1	16.67 %
Portulaca	5	5	0	0	0	0	0.00 %
Queen Anne's Lace	1	1	0	0	0	0	0.00 %
Ridolfia	1	0	1	0	0	1	100.00 %
Rockcress	1	1	0	0	0	0	0.00 %
Rudbeckia	8	8	0	0	0	0	0.00 %
Salvia	7	5	2	0	0	2	28.57 %
Scabiosa (annual) /Mourning-bride	1	1	0	0	0	0	0.00 %
Scarlet Runner Bean	1	1	0	0	0	0	0.00 %
Snapdragon	11	10	1	0	0	1	9.09 %
Statice	1	1	0	0	0	0	0.00 %
Stock	1	0	1	0	0	1	100.00 %
Stock	2	2	0	0	0	0	0.00 %
Strawflower	3	2	1	0	0	1	33.33 %
Sunflower	51	49	2	0	0	2	3.92 %
Sweet Alyssum	13	10	3	0	0	3	23.08 %
Sweet Marigold	1	1	0	0	0	0	0.00 %
Sweet Sultan	1	1	0	0	0	0	0.00 %
Sweet William	3	2	1	0	0	1	33.33 %
Sweetpea, annual	13	13	0	0	0	0	0.00 %

Seed Kind Tested	Flower Seeds						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Texas Bluebonnet	1	1	0	0	0	0	0.00 %
Thunbergia	1	1	0	0	0	0	0.00 %
Tithonia	1	1	0	0	0	0	0.00 %
Torenia (Wishbone Flower)	1	1	0	0	0	0	0.00 %
Tricolor Daisy	1	1	0	0	0	0	0.00 %
Tritoma	2	1	1	0	0	1	50.00 %
Verbascum	1	1	0	0	0	0	0.00 %
Verbena	1	0	1	0	0	1	100.00 %
Verbena	1	1	0	0	0	0	0.00 %
Vinca	5	5	0	0	0	0	0.00 %
Viola	5	5	0	0	0	0	0.00 %
Wallflower	1	1	0	0	0	0	0.00 %
Zinnia	57	54	3	0	0	3	5.26 %
Total	547	497	49	1	0	50	9.14 %

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

Seed Kind Tested	Feed						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Feed	26	26	0	0	0	0	0.00 %

Seed Kind Tested	Pasture Mix						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Pasture Mix	21	14	5	0	2	7	33.33 %

Seed Kind Tested	Lawn Mix						
	Total	CL	SV	TV	MV	#VIOL	%VIOL
Lawn Mix	88	62	18	0	8	26	29.55 %

Table IV

Vegetable Seeds Wholesale Distributors			Vegetable Seeds			
			CL	SV	TV	MV
ABBOTT & COBB INC	TREVOSE	PA	83	6	0	2
BENTLEY SEEDS INC	CAMBRIDGE	NY	1	1	0	0
BOTANICAL INTERESTS INC	BROOMFIELD	CO	1	0	0	0
CAPE HORN COUNTRY	RED LION	PA	0	1	0	0
CROSMAN SEED CORP	EAST ROCHESTER	NY	3	0	0	0
D LANDRETH SEED CO	NEW FREEDOM	PA	77	7	0	0
FERRY MORSE SEED COMPANY	FULTON	KY	4	0	0	0
FRANCHI SEMENTI	SARASOTA	FL	0	1	0	0
GROWMARK FS LLC	YORK	PA	1	0	0	0
HAKES FARM & SEED SERVICE	RED LION	PA	0	1	0	0
HARRIS SEEDS	ROCHESTER	NY	0	6	0	0
HIGH MOWING SEED CO	WOLCOTT	VT	1	0	0	0
IDEA VILLAGE CORPORATION	WAYNE	NJ	0	1	0	0
LAKE VALLEY SEED COMPANY INC	BOULDER	CO	5	0	0	0
LIVINGSTON SEED INC	COLUMBUS	OH	14	0	0	0
MICHELL CO, HENRY F	KING OF PRUSSIA	PA	19	1	0	0
P L ROHRER & BRO INC	SMOKETOWN	PA	71	2	0	0
PLANTATION PRODUCTS	NORTON	MA	21	0	0	0
RENEE'S GARDEN LLC	FELTON	CA	1	0	0	0
SEEDS OF CHANGE	COMPTON	CA	2	1	0	0
SEEDWAY LLC	HALL	NY	104	0	0	0
SHIRK'S FARM & GARDEN	EAST EARL	PA	2	0	3	0
SOUTHERN STATES COOP INC	RICHMOND	VA	0	1	0	0
THE CHARLES C HART SEED CO	WETHERSFIELD	CT	2	0	0	0
THE COOKS GARDEN	WARMINSTER	PA	270	11	0	0
THE PAGE SEED COMPANY	GREENE	NY	1	0	0	0
TOLAND HOME GARDEN	PORT TOWNSEND	WA	0	1	0	0
W ATLEE BURPEE CO	WARMINSTER	PA	798	16	0	0
WEEKS SEED CO	GREENVILLE	NC	2	1	0	0
		Total	1,483	58	3	2

Agricultural Seeds Wholesale Distributors			Agricultural Seeds			
			CL	SV	TV	MV
ADVANTA US	HEREFORD	TX	1	0	0	0
AGRIGENETICS D/B/A MYCOGEN SEEDS	INDIANAPOLIS	IN	2	0	0	0
ALLIANCE SEEDS INC	BROOKLYN	NY	4	1	0	0
AMERICAN SEED CO INC	SPRING GROVE	PA	1	2	0	0
ANDRE & SON INC	MONTROSE	PA	1	1	0	0
BARENBRUG USA	TANGENT	OR	5	0	0	0
BFG SUPPLY CO.	BURTON	OH	1	0	0	0

Agricultural Seeds Wholesale Distributors			Agricultural Seeds			
			CL	SV	TV	MV
BFG SUPPLY DBA WETSEL INC	KITTANNING	PA	49	2	0	0
BIOLOGIC INC - MOSSY OAK	WEST POINT	MS	1	0	0	0
BRAMHILL SEEDS LTD.	PALMERSTON	ON	0	1	0	0
CENTRAL FARM AND GARDEN	WOOSTER	OH	1	0	0	0
CHEMGRO SEEDS	EAST PETERSBURG	PA	10	1	0	1
CHEMGRO SEEDS	REEDSVILLE	PA	8	1	0	0
D LANDRETH SEED CO	NEW FREEDOM	PA	4	0	0	0
DLF INTERNATIONAL SEEDS	HALSEY	OR	0	1	0	0
EDDIE MERCER AGRI SERVICES INC	FREDERICK	MD	3	0	0	0
ERNST CONSERVATION SEED	MEADVILLE	PA	6	2	0	1
F M BROWN'S SONS, INC	SINKING SPRING	PA	2	0	0	0
F M BROWNS SONS INC	SINKING SPRINGS	PA	8	0	0	1
GRASSLYN INC	STATE COLLEGE	PA	1	0	0	0
GROWMARK FS LLC	MILFORD	DE	8	0	0	0
GROWMARK FS LLC	YORK	PA	28	4	0	2
HADLEY SEED FARM	HADLEY	PA	2	1	0	0
HARRELL'S LLC	LAKELAND	FL	1	0	0	0
HORST SEEDS	CHAMBERSBURG	PA	2	0	0	0
JOHN DEERE LANDSCAPE DBA LESCO INC	CLEVELAND	OH	1	0	0	0
KING'S AGRI SEEDS INC	RONKS	PA	11	1	0	0
LACROSSE FORAGE & TURF SEED CORP	LA CROSSE	WI	2	0	0	0
LEABROOK AG	LANCASTER	PA	1	0	0	0
LEBANON SEABOARD CORP	DENVER	PA	5	1	0	0
LONG ACRE POTATO FARM	TIONESTA	PA	1	0	0	0
LOVELAND PRODUCTS INC	GREELEY	CO	5	0	0	0
MASTERS CHOICE INC	ANNA	IL	4	0	0	0
MID-ATLANTIC SEEDS INC	YORK	PA	34	14	3	1
MONSANTO CO	ST LOUIS	MO	7	0	0	0
NEXGROW GENETICS DBA FORAGE GENETICS INTERNATIONAL	NAMPA	IN	1	0	0	0
NORTHAMPTON COUNTY SEED CO	NAZARETH	PA	6	0	0	1
P L ROHRER & BRO INC	SMOKETOWN	PA	8	1	0	0
PENNINGTON SEED	LEBANON	OR	1	0	0	0
PENNINGTON SEED INC	GREENFIELD	MO	2	0	0	0
PREFERRED SEED COMPANY INC	BUFFALO	NY	4	0	0	0
RAGAN & MASSEY, INC.	PONCHATOULA	LA	1	0	0	0
SCHLESSMAN SEED CO	MILAN	OH	1	0	0	0
SCHWARTZ FARMS	CORTLAND	OH	1	0	0	0
SEEDWAY LLC	HALL	NY	107	3	1	6
SEMICAN INTERNATIONAL INC	PLESSISVILLE	QC	1	0	0	0
SOUTHERN STATES COOP INC	RICHMOND	VA	6	0	0	0
STEYER SEEDS LLC	TIFFIN	OH	3	0	0	0

Agricultural Seeds Wholesale Distributors			Agricultural Seeds			
			CL	SV	TV	MV
SYNGENTA SEEDS INC	MINNEAPOLIS	MN	4	0	0	0
T A SEEDS LLC	JERSEY SHORE	PA	5	0	0	0
TRACTOR SUPPLY CO C/O SIMMONS PET FOOD	BRENTWOOD	TN	1	0	0	0
TRACTOR SUPPLY COMPANY	BRENTWOOD	TN	0	2	0	0
W ATLEE BURPEE CO	WARMINSTER	PA	0	1	0	0
W I MILLER & SONS	FARMDALE	OH	2	0	0	0
WELTER SEED & HONEY CO.	ONSLow	IA	1	0	0	0
WINFIELD SOLUTIONS LLC	ST PAUL	MN	10	0	0	0
		Total	385	40	4	13

Flower Seeds Wholesale Distributors			Flower Seeds			
			CL	SV	TV	MV
BAKER CREEK HEIRLOOM SEED CO	MANSFIELD	MO	1	0	0	0
BENTLEY SEEDS INC	CAMBRIDGE	NY	3	0	0	0
BOTANICAL INTERESTS INC	BROOMFIELD	CO	2	0	0	0
CROSMAN SEED CORP	EAST ROCHESTER	NY	1	0	0	0
D LANDRETH SEED CO	NEW FREEDOM	PA	5	7	1	0
DUNECRAFT INC	CHAGRIN FALLS	OH	0	1	0	0
LAKE VALLEY SEED COMPANY INC	BOULDER	CO	1	1	0	0
LIVINGSTON SEED INC	COLUMBUS	OH	9	0	0	0
MICHELL CO, HENRY F	KING OF PRUSSIA	PA	45	17	0	0
P L ROHRER & BRO INC	SMOKETOWN	PA	19	4	0	0
PLANTATION PRODUCTS	NORTON	MA	5	0	0	0
RENEE'S GARDEN LLC	FELTON	CA	1	0	0	0
SEEDS OF CHANGE	COMPTON	CA	0	1	0	0
SEEDWAY LLC	HALL	NY	41	0	0	0
THE COOKS GARDEN	WARMINSTER	PA	38	1	0	0
W ATLEE BURPEE CO	WARMINSTER	PA	326	17	0	0
		Total	497	49	1	0

Tree Seeds Wholesale Distributors			Tree Seeds			
			CL	SV	TV	MV
DUNECRAFT INC	CHAGRIN FALLS	OH	0	1	0	0
		Total	0	1	0	0

Feed Wholesale Distributors			Feed			
			CL	SV	TV	MV
ALBRIGHT'S MILL, VONADA ENTERPRISES, INC. D/B/A	MILL HALL	PA	1	0	0	0

Feed Wholesale Distributors			Feed			
			CL	SV	TV	MV
BEAVER CREEK AVIARY	SAINT THOMAS	PA	3	0	0	0
CANFIELD'S PET & FARM	STROUDSBURG	PA	1	0	0	0
CAPE HORN COUNTRY	RED LION	PA	1	0	0	0
CHAMPION LAKES GOLF COURSE	BOLIVAR	PA	1	0	0	0
D & L ENOS MILLING	SUGAR GROVE	PA	1	0	0	0
EIGHTY FOUR AGWAY	EIGHTY FOUR	PA	1	0	0	0
F M BROWN'S SONS, INC	SINKING SPRING	PA	3	0	0	0
GOLDENFEAST INC	PHOENIXVILLE	PA	1	0	0	0
GOODS FEED MILL	EAST EARL	PA	1	0	0	0
H W NEIGER MILLING CO	LAKE CITY	PA	3	0	0	0
HADLEY SEED FARM	HADLEY	PA	1	0	0	0
J & J FEEDS AND NEEDS LLC	SHIPPENVILLE	PA	1	0	0	0
KAYBROOK GREEN HILLS SWIM CLUB	OREFIELD	PA	1	0	0	0
MASTER FEED & GRAIN INC	CONNEAUTVILLE	PA	1	0	0	0
MOYER INDOOR/OUTDOOR	SOUDERTON	PA	1	0	0	0
PACIFIC COAST DISTRIBUTING C/O KAYTEE PRODUCTS	CHILTON	WI	1	0	0	0
SUNRISE FEEDS	SELINSGROVE	PA	1	0	0	0
THE HIGGINS GROUP CORP	MIAMI	FL	2	0	0	0
		Total	26	0	0	0

Health Food Wholesale Distributors			Health Food			
			CL	SV	TV	MV
BOTANICAL INTERESTS INC	BROOMFIELD	CO	1	0	0	0
W ATLEE BURPEE CO	WARMINSTER	PA	0	4	0	0
		Total	1	4	0	0

Pasture Mix Wholesale Distributors			Pasture Mix			
			CL	SV	TV	MV
AGRIGENETICS D/B/A MYCOGEN SEEDS	INDIANAPOLIS	IN	1	0	0	0
AMERICAN SEED CO INC	SPRING GROVE	PA	0	0	0	1
ANTLER KING TROPHY PROD INC	BLACK RIVER FALL	WI	0	1	0	0
BARENBRUG USA	TANGENT	OR	2	0	0	0
CHEMGRO SEEDS	EAST PETERSBURG	PA	1	0	0	0
GROWMARK FS LLC	YORK	PA	1	0	0	0
HOMESTEAD NUTRITION INC	NEW HOLLAND	PA	0	0	0	1
KING'S AGRI SEEDS INC	RONKS	PA	5	3	0	0
MONSANTO CO	ST LOUIS	MO	4	0	0	0
SEEDWAY LLC	HALL	NY	0	1	0	0
		Total	14	5	0	2

Vegetable Mix Wholesale Distributors			Vegetable Mix			
			CL	SV	TV	MV
D LANDRETH SEED CO	NEW FREEDOM	PA	0	1	0	0
W ATLEE BURPEE CO	WARMINSTER	PA	1	0	0	0
		Total	1	1	0	0

Conservation Mix Wholesale Distributors			Conservation Mix			
			CL	SV	TV	MV
BFG SUPPLY DBA WETSEL INC	KITTANNING	PA	1	0	0	0
		Total	1	0	0	0

Lawn Mix Wholesale Distributors			Lawn Mix			
			CL	SV	TV	MV
AMERICAN SEED CO INC	SPRING GROVE	PA	3	1	0	0
AMTURF ENTERPRISES LLC	JEFFERSON	OR	3	2	0	0
BARENBRUG USA	TANGENT	OR	2	2	0	1
BFG SUPPLY CO.	BURTON	OH	0	1	0	0
CENTRAL FARM AND GARDEN	WOOSTER	OH	1	0	0	1
CHEMGRO SEEDS	EAST PETERSBURG	PA	1	0	0	0
COMMERCE CORP INC	WARRENSVILLE HIGHTS	OH	1	0	0	0
ENCAP LLC	GREEN BAY	WI	0	1	0	0
F M BROWNS SONS INC	SINKING SPRINGS	PA	5	0	0	0
FISHER & SON COMPANY INC	EXTON	PA	2	1	0	1
GROWMARK FS LLC	YORK	PA	1	0	0	0
HARRELL'S LLC	LAKELAND	FL	1	2	0	0
JOHN DEERE LANDSCAPE DBA LESCO INC	CLEVELAND	OH	2	0	0	0
JONATHAN GREEN, INC.	FARMINGDALE	NJ	0	1	0	1
LEBANON SEABOARD CORP	DENVER	PA	1	1	0	0
LEBANON SEABOARD CORP	LEBANON	PA	1	0	0	0
MID-ATLANTIC SEEDS INC	YORK	PA	4	2	0	0
MOUNTAIN VIEW SEEDS LIMITED	SALEM	OR	1	0	0	0
NATIONAL SEED	NEW BRUNSWICK	NJ	2	1	0	0
P L ROHRER & BRO INC	SMOKETOWN	PA	3	0	0	0
PENNINGTON SEED	LEBANON	OR	1	1	0	0
PENNINGTON SEED INC	GREENFIELD	MO	3	0	0	0
PLANTATION PRODUCTS	NORTON	MA	1	0	0	0
PORTMAN FARMS INC	BRIDGEVILLE	PA	1	0	0	0
SEEDWAY LLC	HALL	NY	3	1	0	1
SEETON TURF WAREHOUSE LLC	MT LAUREL	NJ	1	0	0	0
SOUTHERN STATES COOP INC	RICHMOND	VA	5	0	0	2
SOUTHERN STATES-WESTFIELD	WESTFIELD	MA	3	0	0	0
THE SCOTTS CO	KING OF PRUSSIA	PA	1	0	0	0

Lawn Mix Wholesale Distributors			Lawn Mix			
			CL	SV	TV	MV
THE SCOTTS COMPANY	MARYSVILLE	OH	1	1	0	0
TRACTOR SUPPLY CO C/O SIMMONS PET FOOD	BRENTWOOD	TN	2	0	0	0
TRI STATE TURF SUPPLY	WARMINSTER	PA	1	0	0	0
TRI STATE TURF SUPPLY	WEST CHESTER	PA	1	0	0	0
WINFIELD SOLUTIONS LLC	ST PAUL	MN	3	0	0	1
X-SEED INC	CLEAR LAKE	MN	1	0	0	0
		Total	62	18	0	8

SEED CERTIFICATION
TABLE V
SUMMARY OF FIELD INSPECTIONS FOR 2013
(JULY 1, 2012- JUNE 30, 2013)

CROP	VARIETY	FOUNDATION	REGISTERED	CERTIFIED	Q/A
*Crownvetch	Penngift	----	----	80	
Barley, Winter	Charles	----	2	----	
	Dan	----	----	85	28
	Endeavor	----	2	----	
	Valor	----	----	82.15	
Oats, Spring	Armor	----	26.75	434.75	
	Corral	----	29	----	
	Vista	----	----	100	
Potatoes	Albane	----	----	5.8	
	Chieftain	----	----	4.98	
	Eva	----	----	20.86	
	LaChipper	----	----	156	
	Lamoka	----	----	.15	
	Reba	----	----	34.64	
	Red La Soda	----	----	164	
	Red Maria	----	----	5.55	
	Snowden	----	----	42.56	
	Waneta	----	----	2.64	
Wheat, Winter	Hopewell	----	5	95	
	Malabar	----	6	70	
	SS 8500	----	----	----	247
	Sunburst	----	8	60	
Soybean	360 SB	----	----	30	
	440 STS SB	----	----	6.5	
Triticale	Fridge	----	----	65	
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.

* These established stands are not field inspected. Cleaned seed is officially sampled by an inspector.

Number of Samples per Year

