

Pennsylvania Department of Agriculture Bureau of Plant Industry 2022 Fiscal Year Seed Report Pennsylvania Seed Act

August 2024

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 provides consumers with truthful and accurate information to help make seed purchasing 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) maintenance of the seed herbarium.

This report is a summary of official seed inspection and laboratory analyses performed by the seed division from **July 1, 2022 to June 30, 2023**.

Regulatory Requirements

The Seed act, from which the division derives its authority, requires proper labeling for all seeds distributed in Pennsylvania. Information must appear on a tag or label attached in a conspicuous place on the exterior of the seed container. Seed not properly labeled are subject to a "Stop Sale" order, which prohibits their 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 2022 there were **503** licensed Seed Dealers. The Department collected a total of **\$12,575.00** for Seed Dealers license 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 fiscal year the Department collected, **\$12,289.82** in fees for field inspection, tags, labels and other services.

The Pennsylvania Department of Agriculture is an active member of the Association of Official Seed Certifying 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 "AOSA Rules for Testing Seeds" as approved and published by the Association of Official Seed Analysts (AOSA).

During the reporting period, the laboratory received a total of **5,047** samples that required **7531** separate tests (See Table I). Plant Industry Inspectors submitted **1,808** regulatory seed samples for enforcement of the Seed Act, and **1** regulatory sample to test for viable weed seed to aid in the enforcement of the PA Feed Act. In addition, Plant Industry Inspectors issued **97** Seed Stop Sale Notices for labeling violations directly at retail and wholesale locations representing **2418** containers.

Farmers, wholesale seedsmen and retail outlets submitted **2,887** service samples for labeling purposes and guidance in planting. The seed certification program and various other state agencies submitted **351** samples to determine if the seed met their standards or specifications. The Department collected a total of **\$85,337.82** in fees for these services

The Pennsylvania Seed Act provides the Department the authority to fix, adjust, assess and collect fees for the certification inspection services and requested seed tests. The fees shall be enough to meet reasonable expenses incurred by the Department in making such inspections for certification and conducting seed tests. The current fee structure for seed service samples and certification services are available on the Department website at www.agriculture.pa.gov. The Secretary may adjust the fees by sending notice to licensees and publishing a notice in the Pennsylvania Bulletin. The fees, derived from these services and seed dealer licensing fees, help support the Seed Program.

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 Association of Official Seed Analysts (AOSA) and cooperates in work of various committees. Staff members attend the annual meeting of AOSA to vote on rule changes, discuss other items of business and attend committee meetings. Currently, Seed Program Supervisor Johnny Zook is the President of the AOSA and represents the Association at affiliate meetings. Seed Laboratory Supervisor Nishit Patel is the current AOSA CO-chair of the joint Purity Subcommittee. Staff members also participated in online seed training; notably the USDA and AOSA webinars.

The department is also an active member of the Association of American Seed Control Officials (AASCO). Seed Program Supervisor Johnny Zook attends the annual meeting and represents the Association at affiliate meetings.

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.

Classification of samples by kind and numbers of tests involved.

Number of Samples	Kinds	Purity	Noxious Weed Examinations	Germinations*
1,588	Vegetable	38	4	1,564
2,513	Agricultural	840	959	2,301
506	Flower	2	1	467
1	Tree	0	0	0
1	Feed	0	1	0
0	Sprouting Seed	0	0	0
82	Pasture Mix or Blend	22	33	65
1	Flower Mix or Blend	0	0	0
1	Vegetable Mix or Blend	0	0	1
69	Conservation Mix or Blend	2	2	5
0	Vegetable Kit	0	0	0
261	CSLT Grass Mix or Blend	125	147	123
0	Native Warm Season Mix or Blend	0	0	0
24	CSLT Grass Single Kind	14	24	14
5,047	Totals	1,043	1,171	4,540

Table I

Other Tests	
Interstate Noxious Weed Test	146
Treated Germination Test	0
Cold Test	151
Sand Test	3
Roundup® Ready Test	3
Tetrazolium Test	5
Endophyte Test	0
Ryegrass Fluorescence Test	174
Oats Fluorescence Test	83
400 Seed Count Test	86
Miscellaneous Test	3
Canada Noxious Weed Test	79
Seed Count Test	44
Total Tests	7,531

^{*} 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 1,808 seed samples. A total of 154 lots or 8.52% of these samples were found to be in violation of the Act, of which 131 (5,329 containers) were placed under 'Stop Sale' at 51 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.

			% Violations	
Kinds	Number of Samples*	7/1/2022 - 6/30/2023	7/1/2021 - 6/30/2022	7/1/2020 - 6/30/2021
Vegetable	881	5.56%	5.63%	3.13%
Agricultural	338	17.75%	15.63%	5.40%
Flower	339	3.54%	5.17%	9.20%
Sprouting Seed	0	0.00%	100.00%	0.00%
Pasture Mix or Blend	32	28.13%	29.17%	20.93%
Vegetable Mix or Blend	1	0.00%	8.00%	0.00%
Conservation Mix or Blend	0	0.00%	0.00%	80.00%
Vegetable Kit	0	0.00%	100.00%	0.00%
CSLT Grass Mix or Blend	192	10.94%	11.25%	15.67%
Native Warm Season Mix or Blend	0	0.00%	0.00%	0.00%
CSLT Grass Single Kind	24	12.50%	9.09%	0.00%
Totals	1,807	8.52%	8.04%	6.88%

^{*} Samples collected by seed inspectors 7/1/2022 - 6/30/2023

Explanation of abbreviations used in tables.

- Correctly labeled. CL

SV

MV

Serious violation, discrepancy exceeds double the tolerance.
Minor violation, discrepancy exceeds regular tolerance.
Technical violation, label does not bear all required information. TV

#VIOL – Number of violations.

%VIOL – Percentage of violations.

Table III

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

			V	egetable See	ds		
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL
	3	3	0	0	0	0	0.00%
Alfalfa	1	0	1	0	0	1	100.00%
Artichoke	2	2	0	0	0	0	0.00%
Arugula	9	9	0	0	0	0	0.00%
Asparagus	1	1	0	0	0	0	0.00%
Asparagus Bean (Yardlong)	2	1	1	0	0	1	50.00%
Basil	21	21	0	0	0	0	0.00%
Bean, Garden	39	36	3	0	0	3	7.69%
Bean, Snap	1	1	0	0	0	0	0.00%
Beet	22	20	2	0	0	2	9.09%
Beet, Sugar	2	0	2	0	0	2	100.00%
Borage, Common	1	1	0	0	0	0	0.00%
Broccoli	15	15	0	0	0	0	0.00%
Broccoli Raab (Turnip Broccoli)	3	3	0	0	0	0	0.00%
Brome, Smooth	1	1	0	0	0	0	0.00%
Brussels-Sprouts	5	5	0	0	0	0	0.00%
Cabbage	9	9	0	0	0	0	0.00%
Cantaloupe	11	11	0	0	0	0	0.00%
Carrot	34	31	2	0	1	3	8.82%
Catnip	1	1	0	0	0	0	0.00%
Cauliflower	10	10	0	0	0	0	0.00%
Celeriac	1	1	0	0	0	0	0.00%
Celery	4	4	0	0	0	0	0.00%
Chamomile, Bodegold	1	0	1	0	0	1	100.00%
Chervil	2	2	0	0	0	0	0.00%
Chives	5	5	0	0	0	0	0.00%
Cilantro	5	5	0	0	0	0	0.00%
Collards	3	3	0	0	0	0	0.00%
Corn, Hybrid Field	1	1	0	0	0	0	0.00%
Corn, Sweet	5	5	0	0	0	0	0.00%
Cornsalad	1	1	0	0	0	0	0.00%

Vegetable Seeds							
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL
Cowpea	2	2	0	0	0	0	0.00%
Cress	1	1	0	0	0	0	0.00%
Cress, Water	2	2	0	0	0	0	0.00%
Cucumber	36	35	1	0	0	1	2.78%
Dill	8	8	0	0	0	0	0.00%
Eggplant	16	16	0	0	0	0	0.00%
Endive	5	5	0	0	0	0	0.00%
Escarole	1	1	0	0	0	0	0.00%
Fennel	2	2	0	0	0	0	0.00%
Fennel, Florence(Sweet)	1	1	0	0	0	0	0.00%
Gourd, Bottle	1	0	1	0	0	1	100.00%
Gourds, Luffa (Dishcloth)	1	1	0	0	0	0	0.00%
Honey Dew	2	2	0	0	0	0	0.00%
Kale	19	18	1	0	0	1	5.26%
Kale, Ornamental	1	1	0	0	0	0	0.00%
Kohlrabi	3	3	0	0	0	0	0.00%
Leek	1	1	0	0	0	0	0.00%
Lemon Balm	3	3	0	0	0	0	0.00%
lemongrass	1	1	0	0	0	0	0.00%
Lettuce	57	52	5	0	0	5	8.77%
Lima Bean	7	4	2	0	1	3	42.86%
Mache (Cornsalad)	1	1	0	0	0	0	0.00%
Malabar Spinach	2	2	0	0	0	0	0.00%
Marjoram	1	1	0	0	0	0	0.00%
Melon, Chinese	1	1	0	0	0	0	0.00%
Melons	5	5	0	0	0	0	0.00%
Mint	1	1	0	0	0	0	0.00%
Mung Bean	1	1	0	0	0	0	0.00%
Mustard	10	10	0	0	0	0	
New Zealand Spinach	1	1	0	0	0	0	0.00%
Oat	1	0	1	0	0	1	100.00%
Okra	5	5	0	0	0	0	0.00%
Onion	11	10	1	0	0	1	9.09%
Oregano	3	2	1	0	0	1	33.33%
Pakchoi	3	3	0	0	0	0	0.00%
Parsley	13	13	0	0	0	0	0.00%
Parsnip	2	1	1	0	0	1	50.00%
Pea, Garden	35	33	2	0	0	2	5.71%
Pepper	39	37	2	0	0	2	5.13%
Pepper, Hot	36	36	0	0	0	0	
Perilla	1	1	0	0	0	0	0.00%

			V	egetable See	ds		
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL
Pole Bean	4	3	1	0	0	1	25.00%
Popcorn	1	1	0	0	0	0	0.00%
Pumpkin	26	24	2	0	0	2	7.69%
Purslane	1	1	0	0	0	0	0.00%
Radicchio	4	4	0	0	0	0	0.00%
Radish	36	35	1	0	0	1	2.78%
Rosemary	1	1	0	0	0	0	0.00%
Runner Bean	3	2	1	0	0	1	33.33%
Rutabaga	2	2	0	0	0	0	0.00%
Sage	3	2	1	0	0	1	33.33%
Savory, Summer	1	1	0	0	0	0	0.00%
Scarlet Runner Bean	1	1	0	0	0	0	0.00%
Senposai	1	1	0	0	0	0	0.00%
Sesame	1	1	0	0	0	0	0.00%
Shallot	3	3	0	0	0	0	0.00%
Soybean	1	1	0	0	0	0	0.00%
Spinach	14	13	1	0	0	1	7.14%
Squash	29	26	3	0	0	3	10.34%
Squash, Autum-Winter	18	15	3	0	0	3	16.67%
Stevia	1	1	0	0	0	0	0.00%
Stevia, sweet	1	0	1	0	0	1	100.00%
Strawberry	1	0	1	0	0	1	100.00%
Strawberry, Alpine	1	1	0	0	0	0	0.00%
Sweet Corn	29	29	0	0	0	0	0.00%
Swiss Chard	7	7	0	0	0	0	0.00%
Thyme	4	4	0	0	0	0	0.00%
Tomatillo	3	3	0	0	0	0	0.00%
Tomato	121	120	1	0	0	1	0.83%
Turnip	9	9	0	0	0	0	0.00%
Watermelon	17	16	1	0	0	1	5.88%
Wheat	1	1	0	0	0	0	0.00%
Total	908	859	47	0	2	49	5.40%

	Agricultural Seeds						
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL
Alfalfa	27	19	6	2	0	8	29.63%
Barley	5	5	0	0	0	0	0.00%
Bean, Hyacinth	1	1	0	0	0	0	0.00%
Birdsfoot Trefoil	2	2	0	0	0	0	0.00%

			Agı	ricultural Se	eds		
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL
Brome, Meadow	1	1	0	0	0	0	0.00%
Brome, Smooth	3	3	0	0	0	0	0.00%
Buckwheat	5	4	1	0	0	1	20.00%
Chewings Fescue	1	1	0	0	0	0	0.00%
Chicory	1	1	0	0	0	0	0.00%
Clover, Balansa	1	0	1	0	0	1	100.00%
Clover, Berseem	2	2	0	0	0	0	0.00%
Clover, Crimson	7	7	0	0	0	0	0.00%
Clover, Ladino White	3	2	1	0	0	1	33.33%
Clover, Red	16	11	4	1	0	5	31.25%
Clover, White	5	5	0	0	0	0	0.00%
Corn, Hybrid Field	30	15	4	11	0	15	50.00%
Corn, Ornamental	1	0	1	0	0	1	100.00%
Corn, Refuge	1	0	0	1	0	1	100.00%
Crownvetch	2	1	1	0	0	1	50.00%
Festulolium, tetraploid	1	1	0	0	0	0	0.00%
Flax	1	1	0	0	0	0	0.00%
Hairy Vetch	1	1	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	14	11	0	0	3	3	21.43%
Meadow Fescue	1	1	0	0	0	0	0.00%
Millet, Pearl	1	1	0	0	0	0	0.00%
Mustard, White	1	1	0	0	0	0	0.00%
Oat	15	12	3	0	0	3	20.00%
Orchardgrass	18	14	3	1	0	4	22.22%
Radish	5	5	0	0	0	0	0.00%
Radish, Forage	5	4	1	0	0	1	20.00%
Rape, Annual	1	1	0	0	0	0	0.00%
Red Fescue	10	10	0	0	0	0	0.00%
Redtop	3	1	2	0	0	2	66.67%
Rye	15	12	3	0	0	3	20.00%
Ryegrass, Annual	31	25	6	0	0	6	19.35%
Ryegrass, Perennial	19	17	2	0	0	2	10.53%
Sorghum	4	4	0	0	0	0	0.00%
Sorghum-Sudangrass Hybrid	6	6	0	0	0	0	0.00%
Soybean	16	15	0	0	1	1	6.25%
Spelt	1	1	0	0	0	0	0.00%
Sudangrass	3	3	0	0	0	0	0.00%
Sunflower	1	0	1	0	0	1	100.00%
Sunn Hemp	1	0	1	0	0	1	100.00%

	Agricultural Seeds						
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL
Tall Fescue	19	17	2	0	0	2	10.53%
Timothy	17	12	4	0	1	5	29.41%
Triticale	5	4	1	0	0	1	20.00%
Turnip	2	2	0	0	0	0	0.00%
Wheat	17	15	2	0	0	2	11.76%
Total	359	288	50	16	5	71	19.78%

]	Flower Seed	s		
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL
Alyssum montanum	1	1	0	0	0	0	0.00%
Alyssum, Sweet	6	6	0	0	0	0	0.00%
Amaranth, Globe	1	1	0	0	0	0	0.00%
Amaranthus	2	2	0	0	0	0	0.00%
Asclepias (Butterfly Weed)	2	2	0	0	0	0	0.00%
Asclepias (Milkweed)	1	1	0	0	0	0	0.00%
Aster, Alpine	2	1	1	0	0	1	50.00%
Asters	2	2	0	0	0	0	0.00%
Baby's Breath, Annual	1	1	0	0	0	0	0.00%
Baby's-Breath, perennial	1	1	0	0	0	0	0.00%
Bachelor's Button	2	2	0	0	0	0	0.00%
Balsam	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%
Bullwort	1	0	1	0	0	1	100.00%
Butterfly Flower	1	1	0	0	0	0	0.00%
Butterfly-Bush	1	1	0	0	0	0	0.00%
Calendula	3	3	0	0	0	0	0.00%
California Poppy	1	1	0	0	0	0	0.00%
Carnation	1	1	0	0	0	0	0.00%
Carpet Of Snow	1	1	0	0	0	0	0.00%
Carrot	1	1	0	0	0	0	0.00%
Cat Grass	1	1	0	0	0	0	0.00%
Celosia	8	8	0	0	0	0	0.00%
Celosia	2	2	0	0	0	0	0.00%
Chamomile, Roman	1	0	1	0	0	1	100.00%
Chinese Lanterns	1	1	0	0	0	0	0.00%
Chrysanthemum	1	1	0	0	0	0	0.00%
Cleome	2	2	0	0	0	0	0.00%
Coleus	7	7	0	0	0	0	0.00%

	Flower Seeds						
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL
Columbine	4	4	0	0	0	0	0.00%
Columbine (long spur)	1	1	0	0	0	0	0.00%
Coreopsis, Lance-leaf	2	2	0	0	0	0	0.00%
Coreopsis, Large Flower	1	1	0	0	0	0	0.00%
Corn, Ornamental	1	1	0	0	0	0	0.00%
Cornflower	2	2	0	0	0	0	0.00%
Cornflower, Tall	1	1	0	0	0	0	0.00%
COSMIDIUM	1	1	0	0	0	0	0.00%
Cosmidium	1	1	0	0	0	0	0.00%
Cosmos	14	14	0	0	0	0	0.00%
Craspedia	1	1	0	0	0	0	0.00%
Cup & Saucer Vine	1	1	0	0	0	0	0.00%
Cuphea	1	1	0	0	0	0	0.00%
Cypress Vine	1	1	0	0	0	0	0.00%
Dahlia	1	1	0	0	0	0	0.00%
Daisy, Gloriosa	1	0	1	0	0	1	100.00%
Daisy, Painted Tricolor	1	1	0	0	0	0	0.00%
Daisy, Shasta	3	3	0	0	0	0	0.00%
Delphinium (Pacific Giants)	1	1	0	0	0	0	0.00%
Delphinium belladonna	1	1	0	0	0	0	0.00%
Dianthus	4	4	0	0	0	0	0.00%
Dusty Miller	1	1	0	0	0	0	0.00%
Echinacea	4	4	0	0	0	0	0.00%
Four O'clock	2	2	0	0	0	0	0.00%
Foxglove	2	2	0	0	0	0	0.00%
Gaillardia (Perennial)	1	1	0	0	0	0	0.00%
Geranium	2	2	0	0	0	0	0.00%
Gerbera (Transvaal Daisy)	1	1	0	0	0	0	0.00%
Gomphrena	2	2	0	0	0	0	0.00%
Gourd, Mixed	2	2	0	0	0	0	0.00%
Gourd, Small-Seeded	2	2	0	0	0	0	0.00%
Helichrysum	1	1	0	0	0	0	0.00%
Hibiscus	2	2	0	0	0	0	0.00%
Hollyhock	1	1	0	0	0	0	0.00%
Hyacinth Bean	1	1	0	0	0	0	0.00%
Ice Plant	1	1	0	0	0	0	0.00%
Impatiens	4	4	0	0	0	0	0.00%
Johnny Jump Up	1	1	0	0	0	0	0.00%
Larkspur, Rocket (annual)	1	0	1	0		1	100.00%
Lavender	6	6	0	0		0	
Lewisia	1	1	0			0	

Flower Seeds							
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL
Lobelia	2	2	0	0	0	0	0.00%
Lunaria	1	1	0	0	0	0	0.00%
Lupine, Russell hybrids	1	1	0	0	0	0	0.00%
Marigold, African	2	2	0	0	0	0	0.00%
Marigold, French	7	7	0	0	0	0	0.00%
Marigold, Sweet	1	1	0	0	0	0	0.00%
Marigolds	8	8	0	0	0	0	0.00%
Melampodium	1	1	0	0	0	0	0.00%
Monarda	1	1	0	0	0	0	0.00%
Moonflower	1	1	0	0	0	0	0.00%
Morning Glory	9	9	0	0	0	0	0.00%
Nasturtium	13	13	0	0	0	0	0.00%
Nicotiana	1	1	0	0	0	0	0.00%
Nigella	1	1	0	0	0	0	0.00%
Ornamental Grass	1	1	0	0	0	0	0.00%
Pansy, Common	2	2	0	0	0	0	0.00%
Pentas	1	1	0	0	0	0	0.00%
Petunias	19	19	0	0	0	0	0.00%
Phacelia	1	1	0	0	0	0	0.00%
Phlox	1	1	0	0	0	0	0.00%
Phlox, Annual	2	1	1	0	0	1	50.00%
Poppy, California	2	2	0	0	0	0	0.00%
Poppy, Corn	1	1	0	0	0	0	0.00%
Poppy, Oriental	2	1	1	0	0	1	50.00%
Portulaca	2	2	0	0	0	0	0.00%
Rudbeckia	2	1	1	0	0	1	50.00%
Salvia	1	1	0	0	0	0	0.00%
Salvia	2	2	0	0	0	0	0.00%
Scabiosa (annual) /Mourning-bride	1	1	0	0	0	0	0.00%
Snapdragon	5	5	0	0	0	0	0.00%
Spilanthes	1	0	1	0	0	1	100.00%
Statice	1	1	0	0	0	0	0.00%
Stock	2	2	0	0	0	0	0.00%
Strawflower	2	2	0	0	0	0	0.00%
Sunflower	1	1	0	0	0	0	0.00%
Sunflower	36	35	1	0	0	1	2.78%
Sweet Pea, annual	3	3	0	0	0	0	0.00%
Sweet William	1	1	0	0	0	0	0.00%
Tarragon	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%

	Flower Seeds						
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL
Tritoma	1	1	0	0	0	0	0.00%
Verbascum	2	2	0	0	0	0	0.00%
Verbena	1	1	0	0	0	0	0.00%
Vinca	3	3	0	0	0	0	0.00%
Viola	2	2	0	0	0	0	0.00%
Wallflower	1	0	1	0	0	1	100.00%
Zinnia	45	44	1	0	0	1	2.22%
Total	339	327	12	0	0	12	3.54%

		Feed					
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL
Feed	1	1	0	0	0	0	0.00%

		Pasture Mix or Blend						
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL	
Pasture Mix or Blend	32	23	5	3	1	9	28.13%	

		Flower Mix or Blend						
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL	
Flower Mix or Blend	1	1	0	0	0	0	0.00%	

		CSLT Grass Mix or Blend						
Seed Kind Tested	Total	CL	SV	TV	MV	#VIOL	%VIOL	
CSLT Grass Mix or Blend	192	171	20	1	0	21	10.94%	

Table IV

			Vegetable Seeds			
Vegetable Seeds Wholesa	le Distributors		CL	SV	TV	MV
AMERICAN SEED CO INC	SPRING GROVE	PA	2	1	0	1
BACK TO THE ROOTS, INC	OAKLAND	CA	2	0	0	0
BENTLEY SEEDS, INC.	CAMBRIDGE	NY	1	0	0	0
BOTANICAL INTERESTS INC	BROOMFIELD	CO	3	0	0	0
BURPEE GARDEN PRODUCTS	WARMINSTER	PA	702	37	0	0
FISHERS GREENHOUSE & GARDEN CENTER LLC	STRASBURG	PA	7	0	0	0
GREEN GARDEN PRODUCTS	NORTON	MA	13	1	0	0
HAKES FARM & SEED SERVICE	RED LION	PA	3	0	0	0
HEIRLOOM SEED PROJECT	LANCASTER	PA	4	0	0	0
HYBRID SEED COMPANY INC	GETTYSBURG	PA	2	2	0	0
MARTINS PRODUCE SUPPLIES	SHIPPENSBURG	PA	4	0	0	0
NESEED	EAST HARTFORD	CT	0	1	0	0
NOLTS PRODUCE SUPPLIES, LLC	LEOLA	PA	6	0	0	0
P L ROHRER & BRO, INC.	LANCASTER	PA	65	2	0	0
PLANTATION PRODUCTS, LLC	NORTON	MA	1	1	0	0
ROHRER SEEDS	LANCASTER	PA	1	0	0	0
SEEDWAY, LLC	HALL	NY	1	0	0	0
SINGING SPRING SEEDS	STRASBURG	PA	7	1	0	1
SPANGLERS HOME CENTER INC	DOVER	PA	3	0	0	0
THE MILL OF BEL AIR	BEL AIR	MD	3	1	0	0
ZIMMEY'S GREENHOUSE	MYERSTOWN,	PA	2	0	0	0
		Total	832	47	0	2

			Agricultural Seeds			
Agricultural Seeds Whole	esale Distributors		CL	SV	TV	MV
ADVANTA US	HEREFORD	TX	1	0	0	0
ADVANTA US, INC.	HEREFORD	TX	1	0	0	0
AG SEED CLEANING, INC.	MYERSTOWN	PA	1	0	0	0
ALBERT LEA SEED HOUSE	ALBERT LEA	MN	1	0	0	0
ALFOREX SEEDS LLC	WOODLAND	CA	1	0	0	0
ANDRE & SON, INC.	MONTROSE	PA	1	0	0	0
ANGELINA SEED COMPANY, LLC	VIDALIA	LA	0	1	0	0
BARENBRUG USA	TANGENT	OR	2	0	0	0
BASF CORPORATION	RESEARCH TRIANGLE PARK	NC	1	0	0	0
BAYER CROPSCIENCE LP	SAINT LOUIS	МО	4	1	0	0
BAYER CROPSCIENCE LP DBA HUBNER SEED	ST. LOUIS	МО	2	0	0	0
BFG SUPPLY DBA WETSEL	CHESWICK	PA	46	7	1	3

			Agricultural Seeds			
Agricultural Seeds W	holesale Distributors	-	CL	SV	TV	MV
BURPEE GARDEN PRODUCTS	WARMINSTER	PA	1	1	0	0
BYRON SEEDS LLC	ROCKVILLE	IN	2	0	1	0
CENTRAL FARM AND GARDEN	WOOSTER	ОН	3	0	0	0
CHANNEL BIO LLC	SAINT LOUIS	МО	2	1	0	0
CHEMGRO SEEDS	EAST PETERSBURG	PA	7	4	2	0
DAIRYLAND SEEDS	WOODLAND	CA	1	0	0	0
DLF PICKSEED	HALSEY	OR	5	0	0	0
FISHER'S FARM SEEDS	ELIZABETHVILLE	PA	1	0	0	0
FM BROWN'S SONS, INC.	SINKING SPRING	PA	9	1	0	0
GREENWAY ANIMAL NUTRITION	CLINTON	ON	1	1	0	0
GROWMARK	TOWANDA	PA	0	0	1	0
GROWMARK FS LLC	MILFORD	DE	1	0	0	0
GROWMARK INC	BLOOMINGTON	IL	42	3	0	1
HADLEY SEED FARM	HADLEY	PA	1	0	0	0
HAKES FARM & SEED SERVICE	RED LION	PA	0	1	0	0
HEIRLOOM SEED PROJECT	LANCASTER	PA	1	0	0	0
HELENA AGRI-ENTERPRISES, LLC	FREDERICK	MD	1	0	0	0
HOMESTEAD NUTRITION, INC.	NEW HOLLAND	PA	0	1	0	0
HORST HYBRID SEEDS	CHAMBERSBURG	PA	4	0	2	0
HORSTDALE FARM SUPPLY LLC	GREENCASTLE	PA	1	0	0	0
KING'S AGRI SEEDS, INC.	LANCASTER	PA	30	2	0	0
LEABROOK AG	LANCASTER	PA	8	0	0	0
LEBANON VALLEY AG PRODUCTS	MYERSTOWN	PA	4	0	0	0
LOCAL SEED COMPANY, LLC.	MEMPHIS	TN	5	1	0	0
LOVELAND PRODUCTS, INC	GREELEY	CO	4	0	0	0
MID-ATLANTIC SEEDS, INC.	YORK	PA	3	0	3	1
NEXGROW GENETICS	NAMPA	ID	0	1	0	0
NOLTS PRODUCE SUPPLIES, LLC	LEOLA	PA	0	1	0	0
P L ROHRER & BRO, INC.	LANCASTER	PA	1	0	0	0
PARTNERS BRAND SEED CO, LLC	HOWE	IN	0	0	1	0
PENNINGTON SEED, INC.	GREENFIELD	МО	1	0	0	0
PINE CREEK SEED FARM, LLC	JERSEY SHORE	PA	4	1	0	0
PREFERRED SEED COMPANY, INC.	BUFFALO	NY	5	3	0	0
REVERE SEED	MEMPHIS	TN	3	4	0	0
RURAL KING	MATTOON	IL	0	1	0	0
SADDLE BUTTE AG, INC.	SHEDD	OR	3	0	0	0
SCHLESSMAN SEED CO.	MILAN	ОН	1	0	1	0
SEEDWAY, LLC	HALL	NY	54	5	0	0
SEMICAN INTERNATIONAL INC	PLESSISVILLE	QC	2	0	0	0
SYNERGY AG LLC	TIFFIN	ОН	2	0	0	0
SYNGENTA SEEDS LLC	MINNEAPOLIS	MN	1	0	1	0
VIRGINIA SEED COMPANY	UNIONVILLE	VA	0	1	0	0

				Agricultural Seeds		
Agricultural Seeds Wh	olesale Distributors		CL	SV	TV	MV
W-L RESEARCH	NAMPA	ID	1	0	0	0
WAL MART SUPERCENTER #2023	LEBANON	PA	1	0	0	0
WINFIELD SOLUTIONS, LLC	SAINT PAUL	MN	1	0	0	0
		Total	278	42	13	5

			Flower Seeds			
Flower Seeds Wh	olesale Distributors		CL	SV	TV	MV
AMERICAN SEED CO INC	SPRING GROVE	PA	1	0	0	0
BURPEE GARDEN PRODUCTS	WARMINSTER	PA	295	10	0	0
GREEN GARDEN PRODUCTS	NORTON	MA	5	1	0	0
HAKES FARM & SEED SERVICE	RED LION	PA	1	0	0	0
P L ROHRER & BRO, INC.	LANCASTER	PA	24	1	0	0
THE MILL OF BEL AIR	BEL AIR	MD	1	0	0	0
		Total	327	12	0	0

			Feed			
Feed W	holesale Distributors		CL	SV	TV	MV
HADLEY SEED FARM	HADLEY	PA	1	0	0	0
		Total	1	0	0	0

				Pasture M	ix or Blend	
Pasture Mix or Blend	Wholesale Distributors		CL	SV	TV	MV
BARENBRUG USA	TANGENT	OR	2	1	0	0
BEDFORD FARM BUREAU COOP	BEDFORD	PA	1	0	0	0
BFG SUPPLY DBA WETSEL	CHESWICK	PA	2	0	0	0
BIOLOGIC, LLC	WEST POINT	MS	1	0	0	0
CHEMGRO SEEDS	EAST PETERSBURG	PA	2	0	1	1
DLF PICKSEED	HALSEY	OR	2	0	0	0
GREEN PARK SEEDS	LOYSVILLE	PA	2	0	0	0
GROWMARK INC	BLOOMINGTON	IL	1	0	0	0
KING'S AGRI SEEDS, INC.	LANCASTER	PA	7	3	0	0
LOCAL SEED COMPANY, LLC.	MEMPHIS	TN	1	0	0	0
ROHRER SEEDS	LANCASTER	PA	0	0	1	0
SEEDWAY, LLC	HALL	NY	2	1	0	0
THE MILL OF BEL AIR	BEL AIR	MD	0	0	1	0
		Total	23	5	3	1

			Flower Mix or Blend			
Flower Mix or Blend Wholesale Distributors			CL	SV	TV	MV
SKYLINE ENCAP HOLDINGS LLC DBA ENCAP GREEN BAY WI			1	0	0	0
		Total	1	0	0	0

			Vegetable Mix or Blend			
Vegetable Mix or Blend Wholesale Distributors			CL	SV	TV	MV
GREEN GARDEN PRODUCTS NORTON MA		1	0	0	0	
		Total	1	0	0	0

			CSLT Grass Mix or Blend			
CSLT Grass Mix or Blend Wholesale Distributors			CL	SV	TV	MV
AMERICAN SEED CO INC	SPRING GROVE	PA	2	1	0	0
AMTURF ENTERPRISES, LLC	JEFFERSON	OR	2	0	0	0
ANDRE & SON, INC.	MONTROSE	PA	7	0	0	0
AQUARIUS SUPPLY, INC	HAWTHORNE	NJ	1	0	0	0
BARENBRUG USA	TANGENT	OR	11	2	0	0
BFG SUPPLY DBA WETSEL	CHESWICK	PA	5	2	0	0
CDI LAWN EQUIPMENT	COLLEGEVILLE	PA	1	0	0	0
CHEMGRO SEEDS	EAST PETERSBURG	PA	2	1	0	0
CONSERVATION RESOURCES, LLC	PIPERSVILLE	PA	1	0	0	0
CROP PRODUCTION SERVICES	LOVELAND	CO	0	1	0	0
DLF PICKSEED	HALSEY	OR	8	1	0	0
E M HERR FARM & HOME CENTER	WILLOW STREET	PA	1	0	0	0
FM BROWN'S SONS, INC.	SINKING SPRING	PA	5	0	0	0
GENESIS TURFGRASS INC	GLEN ROCK	PA	8	1	0	0
GREEN PARK SEEDS	LOYSVILLE	PA	0	1	0	0
GROWMARK INC	BLOOMINGTON	IL	2	0	0	0
GROWMARK, INC	BLOOMINGTON	IL	1	0	0	0
HAKES FARM & SEED SERVICE	RED LION	PA	1	0	0	0
HOME DEPOT 4116, THE	PITTSBURGH	PA	1	0	0	0
HOME DEPOT 4126	GREENSBURG	PA	1	0	0	0
HOME DEPOT 4131	LANCASTER	PA	1	0	0	0
HORSTDALE FARM SUPPLY LLC	GREENCASTLE	PA	0	1	0	0
JERSEY SEED INC.	NEW BRUNSWICK	NJ	2	0	0	0
JONATHAN GREEN, INC.	FARMINGDALE	NJ	8	0	0	0
LEBANON SEABOARD CORP	LEBANON	PA	16	1	0	0
LESCO, INC.	CLEVELAND	ОН	5	1	0	0
LIFETYME SEED, CO.	EAST PEORIA	IL	4	0	0	0
LOWES -HANOVER	HANOVER	PA	1	0	0	0
LOWES HOME CENTERS LLC #2409	YORK	PA	1	0	0	0
MID-ATLANTIC SEEDS, INC.	YORK	PA	0	2	0	0

			C	CSLT Grass Mix or Blend			
CSLT Grass Mix or Blend Wholesale Distributors			CL	SV	TV	MV	
MOUNTAIN VIEW SEEDS LIMITED	SALEM	OR	1	0	0	0	
OLIGER SEED CO.	AKRON	ОН	1	0	0	0	
P L ROHRER & BRO, INC.	LANCASTER	PA	4	0	0	0	
PENNINGTON SEED	LEBANON	OR	1	1	0	0	
PENNINGTON SEED	EASTON	PA	1	0	0	0	
PENNINGTON SEED, INC.	GREENFIELD	МО	12	0	0	0	
PINE CREEK SEED FARM, LLC	JERSEY SHORE	PA	0	1	0	0	
ROHRER SEEDS	LANCASTER	PA	3	0	0	0	
ROSE AGRI-SEED INC D/B/A PURE SEED	HUBBARD	OR	3	1	0	0	
SAUDERS NURSERY	EAST EARL	PA	1	0	0	0	
SEEDWAY, LLC	HALL	NY	20	2	0	0	
SYNATEK, LP	SOUDERTON	PA	2	0	0	0	
THE MILL OF BEL AIR	BEL AIR	MD	1	0	0	0	
THE SCOTTS COMPANY	MARYSVILLE	ОН	9	0	0	0	
THE SCOTTS COMPANY	MARYSVILLE	ОН	9	0	1	0	
TRACTOR SUPPLY COMPANY	BRENTWOOD	TN	2	0	0	0	
WATSON SUPPLY INC	HARRISBURG	PA	2	0	0	0	
WEST YORK AGWAY	YORK	PA	1	0	0	0	
_		Total	171	20	1	0	

			CSLT Grass Single Kind			
CSLT Grass Single Kind Wholesale Distributors			CL	SV	TV	MV
ALLIANCE SEED INC	BROOKLYN	NY	2	0	0	1
AMERICAN SEED CO INC	SPRING GROVE	PA	1	0	0	0
BFG SUPPLY DBA WETSEL	CHESWICK	PA	3	1	0	0
DLF PICKSEED	HALSEY	OR	3	0	0	0
FM BROWN'S SONS, INC.	SINKING SPRING	PA	4	0	0	0
GENESIS TURFGRASS INC	GLEN ROCK PA		1	0	0	0
GROWMARK INC	BLOOMINGTON	IL	1	0	0	0
LESCO, INC.	CLEVELAND	ОН	1	0	0	0
MID-ATLANTIC SEEDS, INC.	YORK	PA	1	1	0	0
OLIGER SEED CO.	AKRON	ОН	1	0	0	0
PREFERRED SEED COMPANY, INC.	BUFFALO	NY	1	0	0	0
SEEDWAY, LLC	HALL	NY	1	0	0	0
TRUGREEN	MEMPHIS	TN	1	0	0	0
		Total	21	2	0	1

SEED CERTIFICATION TABLE V

SUMMARY OF FIELD INSPECTIONS FOR 2022 (JULY 1, 2022- JUNE 30, 2023)

CROP	VARIETY	FOUNDATION	REGISTERED	CERTIFIED	Q/A
Barley	Hirondella		18		
	Secretariat			99.80	
	Scala			15.00	
Oats	Armor		20.65	26.50	
	Hayden		22.60	72.00	
Potato	Colomba			64.22	
1 00000	EVA			12.35	
	Lamoka			36.18	
	Mackinaw			0.52	
	Norwis			0.26	
	Reba			2.38	
	Red Lasoda #10			87.45	
	Red Lasoda #11			54.90	
	Red Lasoda NY10			18.00	
	Red Lasoda NY11			22.00	
	Red Lasoda NY12			22.00	
	Red Lasoda NY13			8.00	
	Red Lasoda NY14			10.00	
	Red Maria			6.10	
	Sifra			14.90	
	Snowden			23.20	
	Waneta			76.28	
Triticale	Short Beard Thunder		20.00	450.00	
Wheat	SR2144				30
TOTAL ACRES		0.00	81.25	1122.04	30.00

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 fiscal Year

(July 1st - June 30th)

