



pennsylvania
DEPARTMENT OF AGRICULTURE

**Pennsylvania Department of Agriculture
Bureau of Plant Industry
2019 Fiscal Year Seed Report
Pennsylvania Seed Act**

December 2020

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, 2019 to June 30, 2020.

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 2019 there were **561** licensed Seed Dealers. The Department collected a total of **\$14,025.00** 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, **\$6,980.43** 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 **5,355** samples that required **7,189** separate tests (See Table I). Plant Industry Inspectors submitted **1,823** regulatory seed samples for enforcement of the Seed Act, and **5** regulatory samples to test for viable weed seed to aid in the enforcement of the PA Feed Act. In addition, Plant Industry Inspectors issued **53** Seed Stop Sale Notices for labeling violations directly at retail and wholesale locations representing **1143** containers.

Farmers, wholesale seedsmen and retail outlets submitted **3,384** service samples for labeling purposes and guidance in planting. The seed certification program and various other state agencies submitted **149** samples to determine if the seed met their standards or specifications. The Department collected a total of **\$81,450.43** in fees for these services. (Due to COVID 19 mitigation efforts, the Seed Program ran at reduced capacity and saw a decrease in regulatory and service seed samples this fiscal year.)

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 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 Vice President of the AOSA. Seed Laboratory Supervisor Nishit Patel is the current AOSA CO-chair of the joint Purity Committee. Staff members also attended seed training schools; notably the USDA Seed Regulation and Testing Division Federal Seed School, and the Northeast Seed Analyst Workshop, hosted by the PDA Seed Program.

The department is also an active member of the Association of American Seed Control Officials (AASCO). Seed Program Supervisor Johnny Zook is a member of the AASCO executive board and attends the annual meeting and represents the Association at affiliate meetings. Johnny Zook also represents AASCO on the Policy and Procedures Advisory Board (PPAB) to the National Seed Health System (NSHS).

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* |
|--------------------------|------------------------|---------------|----------------------------------|----------------------|
| 2,367 | Vegetable | 0 | 0 | 2,364 |
| 1,884 | Agricultural | 576 | 698 | 1,812 |
| 745 | Flower | 0 | 0 | 743 |
| 28 | Tree | 0 | 0 | 10 |
| 5 | Feed | 0 | 5 | 1 |
| 0 | Health Food | 0 | 0 | 0 |
| 70 | Pasture Mix | 19 | 20 | 68 |
| 1 | Flower Mix | 0 | 0 | 1 |
| 26 | Vegetable Mix | 5 | 5 | 23 |
| 63 | Conservation Mix | 6 | 7 | 12 |
| 0 | Vegetable Kit | 0 | 0 | 0 |
| 167 | Lawn Mix | 84 | 104 | 87 |
| 0 | Unidentified | 0 | 0 | 0 |
| 0 | Native Warm Season Mix | 0 | 0 | 0 |
| 5,356 | Totals | 690 | 839 | 5,121 |

| Other Tests | |
|------------------------------|--------------|
| Interstate Noxious Weed Test | 2 |
| Treated Germination Test | 0 |
| Cold Test | 157 |
| Sand Test | 8 |
| Roundup® Ready Test | 4 |
| Tetrazolium Test | 32 |
| Endophyte Test | 0 |
| Ryegrass Fluorescence Test | 159 |
| Oats Fluorescence Test | 62 |
| 400 Seed Count Test | 70 |
| Miscellaneous Test | 6 |
| Canada Noxious Weed Test | 4 |
| Seed Count Test | 35 |
| Total Tests | 7,189 |

* 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 1,818 seed samples. A total of 101 lots or 5.56 % of these samples were found to be in violation of the Act, of which 109 (3,424 containers) were placed under 'Stop Sale' at 40 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 | | |
|------------------------|--------------------|----------------------|----------------------|----------------------|
| | | 7/1/2019 - 6/30/2020 | 7/1/2018 - 6/30/2019 | 7/1/2017 - 6/30/2018 |
| Vegetable | 996 | 2.51 % | 5.47 % | 3.42 % |
| Agricultural | 224 | 11.16 % | 16.82 % | 4.91 % |
| Flower | 448 | 4.91 % | 13.84 % | 2.95 % |
| Pasture Mix | 19 | 26.32 % | 37.93 % | 40.54 % |
| Flower Mix | 0 | 0.00 % | 100.00 % | 20.00 % |
| Vegetable Mix | 21 | 0.00 % | 66.67 % | 5.56 % |
| Conservation Mix | 5 | 60.00 % | 66.67 % | 28.00 % |
| Vegetable Kit | 0 | 0.00 % | 50.00 % | 0.00 % |
| Lawn Mix | 105 | 20.00 % | 12.70 % | 12.80 % |
| Unidentified | 0 | 0.00 % | 0.00 % | 0.00 % |
| Native Warm Season Mix | 0 | 0.00 % | 0.00 % | 0.00 % |
| Totals | 1,818 | 5.56 % | 10.38 % | 5.48 % |

* Samples collected by seed inspectors 7/1/2019 - 6/30/2020

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 |
| Allium Vineale | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Anise | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Artichoke | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Arugula | 7 | 7 | 0 | 0 | 0 | 0 | 0.00 % |
| Asparagus | 4 | 4 | 0 | 0 | 0 | 0 | 0.00 % |
| Asparagus Bean (Yardlong) | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Basil | 32 | 32 | 0 | 0 | 0 | 0 | 0.00 % |
| Bean, 'Great Northern' | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Bean, Garden | 34 | 25 | 9 | 0 | 0 | 9 | 26.47 % |
| Beet | 19 | 19 | 0 | 0 | 0 | 0 | 0.00 % |
| Bok Choy | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Borage, Common | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Brassica | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Broccoli | 17 | 17 | 0 | 0 | 0 | 0 | 0.00 % |
| Broccoli Raab (Turnip Broccoli) | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Brokali | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Brussels-Sprouts | 8 | 8 | 0 | 0 | 0 | 0 | 0.00 % |
| Cabbage | 14 | 14 | 0 | 0 | 0 | 0 | 0.00 % |
| Cantaloupe | 14 | 14 | 0 | 0 | 0 | 0 | 0.00 % |
| Caraway | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Carrot | 34 | 34 | 0 | 0 | 0 | 0 | 0.00 % |
| Catnip | 4 | 4 | 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 % |
| Celosia | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Chamomile, Annual | 4 | 4 | 0 | 0 | 0 | 0 | 0.00 % |
| Chervil | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Chives | 7 | 5 | 2 | 0 | 0 | 2 | 28.57 % |
| Chives, Garlic | 3 | 1 | 2 | 0 | 0 | 2 | 66.67 % |
| Cilantro | 7 | 7 | 0 | 0 | 0 | 0 | 0.00 % |

| Seed Kind Tested | Vegetable Seeds | | | | | | |
|---------------------------|-----------------|----|----|----|----|-------|---------|
| | Total | CL | SV | TV | MV | #VIOL | %VIOL |
| Collards | 6 | 6 | 0 | 0 | 0 | 0 | 0.00 % |
| Coriander | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Corn, Hybrid Field | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Corn, Hybrid Sweet | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Corn, Sweet | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Cornsalad | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Cowpea | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Cucumber | 42 | 42 | 0 | 0 | 0 | 0 | 0.00 % |
| Cumin | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Dill | 9 | 9 | 0 | 0 | 0 | 0 | 0.00 % |
| Eggplant | 14 | 14 | 0 | 0 | 0 | 0 | 0.00 % |
| Endive | 4 | 4 | 0 | 0 | 0 | 0 | 0.00 % |
| Escarole | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Fava Bean | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Fennel | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Garden Bean | 4 | 3 | 1 | 0 | 0 | 1 | 25.00 % |
| Gourd, Bottle | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Gourds, Luffa (Dishcloth) | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Honey Dew | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Kale | 19 | 19 | 0 | 0 | 0 | 0 | 0.00 % |
| Kale, Ornamental | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Kohlrabi | 8 | 8 | 0 | 0 | 0 | 0 | 0.00 % |
| Leek | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Lemon Balm | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Lettuce | 51 | 50 | 1 | 0 | 0 | 1 | 1.96 % |
| Lima Bean | 4 | 3 | 1 | 0 | 0 | 1 | 25.00 % |
| Marjoram | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Melons | 7 | 7 | 0 | 0 | 0 | 0 | 0.00 % |
| Mesclun | 5 | 5 | 0 | 0 | 0 | 0 | 0.00 % |
| Mung Bean | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Mustard | 14 | 14 | 0 | 0 | 0 | 0 | 0.00 % |
| New Zealand Spinach | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Okra | 6 | 6 | 0 | 0 | 0 | 0 | 0.00 % |
| Onion | 20 | 20 | 0 | 0 | 0 | 0 | 0.00 % |
| Oregano | 7 | 7 | 0 | 0 | 0 | 0 | 0.00 % |
| Pakchoi | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Parsley | 17 | 17 | 0 | 0 | 0 | 0 | 0.00 % |
| Parsnip | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Pea, Field | 7 | 7 | 0 | 0 | 0 | 0 | 0.00 % |
| Pea, Garden | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Pepper | 46 | 46 | 0 | 0 | 0 | 0 | 0.00 % |

| Seed Kind Tested | Vegetable Seeds | | | | | | |
|------------------------|-----------------|------------|-----------|----------|----------|-----------|---------------|
| | Total | CL | SV | TV | MV | #VIOL | %VIOL |
| Pepper, Hot | 39 | 39 | 0 | 0 | 0 | 0 | 0.00 % |
| Pole Bean | 15 | 13 | 2 | 0 | 0 | 2 | 13.33 % |
| Popcorn | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Portulaca | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Pumpkin | 17 | 17 | 0 | 0 | 0 | 0 | 0.00 % |
| Radicchio | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Radish | 35 | 35 | 0 | 0 | 0 | 0 | 0.00 % |
| Rosemary | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Rutabaga | 4 | 4 | 0 | 0 | 0 | 0 | 0.00 % |
| Sage | 5 | 3 | 2 | 0 | 0 | 2 | 40.00 % |
| Salsify | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Savory, Summer | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Savory, Winter | 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 | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Sorrel | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Soybean | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Spearmint | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Spinach | 21 | 21 | 0 | 0 | 0 | 0 | 0.00 % |
| Squash | 32 | 31 | 1 | 0 | 0 | 1 | 3.13 % |
| Squash, Autum-Winter | 11 | 10 | 1 | 0 | 0 | 1 | 9.09 % |
| Squash, Hubbard | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Stevia | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Stevia, sweet | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Strawberry | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Sunflower | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Sweet Corn | 30 | 28 | 2 | 0 | 0 | 2 | 6.67 % |
| Sweet Marjoram | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Swiss Chard | 9 | 9 | 0 | 0 | 0 | 0 | 0.00 % |
| Tarragon | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Thyme | 6 | 5 | 1 | 0 | 0 | 1 | 16.67 % |
| Thymus, Creeping Thyme | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Tomatillo | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Tomato | 147 | 147 | 0 | 0 | 0 | 0 | 0.00 % |
| Turnip | 9 | 9 | 0 | 0 | 0 | 0 | 0.00 % |
| Watercress | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Watermelon | 21 | 21 | 0 | 0 | 0 | 0 | 0.00 % |
| Total | 996 | 971 | 25 | 0 | 0 | 25 | 2.51 % |

| Seed Kind Tested | Agricultural Seeds | | | | | | |
|----------------------|--------------------|------------|-----------|----------|----------|-----------|----------------|
| | Total | CL | SV | TV | MV | #VIOL | %VIOL |
| Alfalfa | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Alkaligrass, Weeping | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Barley | 4 | 4 | 0 | 0 | 0 | 0 | 0.00 % |
| Birdsfoot Trefoil | 4 | 3 | 0 | 0 | 1 | 1 | 25.00 % |
| Blue Fescue | 2 | 1 | 1 | 0 | 0 | 1 | 50.00 % |
| Buckwheat | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Clover, Crimson | 2 | 1 | 0 | 0 | 1 | 1 | 50.00 % |
| Clover, Ladino White | 2 | 1 | 1 | 0 | 0 | 1 | 50.00 % |
| Clover, Red | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Hairy Vetch | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Hard Fescue | 13 | 13 | 0 | 0 | 0 | 0 | 0.00 % |
| Japanese Millet | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Kentucky Bluegrass | 24 | 19 | 3 | 0 | 2 | 5 | 20.83 % |
| Orchardgrass | 8 | 4 | 3 | 0 | 1 | 4 | 50.00 % |
| Pea, Field | 28 | 28 | 0 | 0 | 0 | 0 | 0.00 % |
| Peanut | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Red Fescue | 15 | 15 | 0 | 0 | 0 | 0 | 0.00 % |
| Redtop | 4 | 3 | 1 | 0 | 0 | 1 | 25.00 % |
| Rye | 12 | 8 | 4 | 0 | 0 | 4 | 33.33 % |
| Ryegrass, Annual | 35 | 34 | 1 | 0 | 0 | 1 | 2.86 % |
| Ryegrass, Italian | 1 | 0 | 1 | 0 | 0 | 1 | 100.00 % |
| Ryegrass, Perennial | 27 | 25 | 2 | 0 | 0 | 2 | 7.41 % |
| Soybean | 6 | 6 | 0 | 0 | 0 | 0 | 0.00 % |
| Tall Fescue | 21 | 19 | 2 | 0 | 0 | 2 | 9.52 % |
| Timothy | 4 | 4 | 0 | 0 | 0 | 0 | 0.00 % |
| Triticale | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Turnip | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Wheat | 8 | 7 | 0 | 1 | 0 | 1 | 12.50 % |
| Total | 231 | 206 | 19 | 1 | 5 | 25 | 10.82 % |

| Seed Kind Tested | Flower Seeds | | | | | | |
|----------------------------|--------------|----|----|----|----|-------|--------|
| | Total | CL | SV | TV | MV | #VIOL | %VIOL |
| Alyssum, Sweet | 8 | 8 | 0 | 0 | 0 | 0 | 0.00 % |
| Amaranthus | 4 | 4 | 0 | 0 | 0 | 0 | 0.00 % |
| Asclepias (Butterfly Weed) | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Asclepias (Milkweed) | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Aster, Alpine | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Aster, New England | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Asters | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |

| Seed Kind Tested | Flower Seeds | | | | | | |
|--------------------------|--------------|----|----|----|----|-------|----------|
| | Total | CL | SV | TV | MV | #VIOL | %VIOL |
| Baby's Breath | 1 | 1 | 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 | 4 | 4 | 0 | 0 | 0 | 0 | 0.00 % |
| Balsam | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Barley | 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 % |
| Bidens | 1 | 0 | 1 | 0 | 0 | 1 | 100.00 % |
| Black-Eye Susan Vine | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Blanket Flower | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Blue dracaena | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Borage, Common | 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 | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Candytuft, Annual | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Canna | 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 | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Catnip | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Celosia | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Celosia | 7 | 7 | 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 | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Cleome | 5 | 5 | 0 | 0 | 0 | 0 | 0.00 % |
| Coleus | 7 | 7 | 0 | 0 | 0 | 0 | 0.00 % |
| Columbine | 4 | 3 | 1 | 0 | 0 | 1 | 25.00 % |
| Columbine (long spur) | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Columbine, Colorado Blue | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Coreopsis, Large Flower | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Cornflower | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| COSMIDIUM | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Cosmos | 19 | 17 | 2 | 0 | 0 | 2 | 10.53 % |
| Cosmos, Sulphur | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Cypress Vine | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Dahlia | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Daisy, Gloriosa | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Daisy, Shasta | 3 | 3 | 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 | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Dusty Miller | 2 | 1 | 1 | 0 | 0 | 1 | 50.00 % |
| Echinacea | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Echium (Vipers Bugloss) | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Eucalyptus,Foliage | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Forget-Me-Not | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Forget-me-not, alpine | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Four O'clock | 4 | 4 | 0 | 0 | 0 | 0 | 0.00 % |
| Foxglove | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Gaillardia (Perennial) | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Gazania | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Geranium | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Gerbera (Transvaal Daisy) | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Gloriosa Daisy | 2 | 1 | 1 | 0 | 0 | 1 | 50.00 % |
| Gomphrena | 4 | 4 | 0 | 0 | 0 | 0 | 0.00 % |
| Gourd, Small-Seeded | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Gourds, Large-Seeded | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Gypsophila | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Hollyhock | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Hyssop | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Ice Plant | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Impatiens | 5 | 4 | 1 | 0 | 0 | 1 | 20.00 % |
| Larkspur | 5 | 5 | 0 | 0 | 0 | 0 | 0.00 % |
| Lavender | 6 | 5 | 1 | 0 | 0 | 1 | 16.67 % |
| Lavender | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Lewisia | 1 | 0 | 1 | 0 | 0 | 1 | 100.00 % |
| Lobelia | 5 | 5 | 0 | 0 | 0 | 0 | 0.00 % |
| Lunaria | 2 | 1 | 1 | 0 | 0 | 1 | 50.00 % |
| Lupine, Perennial | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Lupine, Russell hybrids | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Malabar Spinach | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Marigold, African | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Marigold, French | 3 | 2 | 1 | 0 | 0 | 1 | 33.33 % |
| Marigolds | 37 | 36 | 1 | 0 | 0 | 1 | 2.70 % |
| Melampodium | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Mexican Sunflower | 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 | 14 | 13 | 1 | 0 | 0 | 1 | 7.14 % |
| Nasturtium | 15 | 14 | 1 | 0 | 0 | 1 | 6.67 % |

| Seed Kind Tested | Flower Seeds | | | | | | |
|-----------------------------------|--------------|----|----|----|----|-------|----------|
| | Total | CL | SV | TV | MV | #VIOL | %VIOL |
| Nemesia | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Nemophila | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Nicotiana | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Nigella | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Oat | 1 | 0 | 0 | 1 | 0 | 1 | 100.00 % |
| Painted Daisy | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Pansy, Common | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Penstemon | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Petunias | 6 | 6 | 0 | 0 | 0 | 0 | 0.00 % |
| Phacelia | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Phlox, Annual | 4 | 3 | 1 | 0 | 0 | 1 | 25.00 % |
| Poppy | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Poppy, Opium | 1 | 0 | 1 | 0 | 0 | 1 | 100.00 % |
| Poppy, Oriental | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Portulaca | 9 | 9 | 0 | 0 | 0 | 0 | 0.00 % |
| Queen Anne's Lace | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Rudbeckia | 4 | 3 | 1 | 0 | 0 | 1 | 25.00 % |
| Salvia | 7 | 7 | 0 | 0 | 0 | 0 | 0.00 % |
| Salvia | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Scabiosa (annual) /Mourning-bride | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Scarlet Runner Bean | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Snapdragon | 9 | 9 | 0 | 0 | 0 | 0 | 0.00 % |
| Spilanthes | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| St John's Wort | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Statice | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| 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 | 2 | 2 | 0 | 0 | 0 | 0 | 0.00 % |
| Sunflower | 41 | 41 | 0 | 0 | 0 | 0 | 0.00 % |
| Sweet Pea, annual | 6 | 6 | 0 | 0 | 0 | 0 | 0.00 % |
| Sweet Pea, perennial | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Sweet William | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Thunbergia | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Tithonia | 1 | 0 | 1 | 0 | 0 | 1 | 100.00 % |
| Tritoma | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Umbrella Sedge | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Verbascum | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Verbena | 1 | 0 | 1 | 0 | 0 | 1 | 100.00 % |
| Verbena, Rigid | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Vinca | 8 | 8 | 0 | 0 | 0 | 0 | 0.00 % |

| Seed Kind Tested | Flower Seeds | | | | | | |
|------------------|--------------|------------|-----------|----------|----------|-----------|---------------|
| | Total | CL | SV | TV | MV | #VIOL | %VIOL |
| Viola | 3 | 3 | 0 | 0 | 0 | 0 | 0.00 % |
| Wallflower | 1 | 1 | 0 | 0 | 0 | 0 | 0.00 % |
| Zinnia | 51 | 50 | 1 | 0 | 0 | 1 | 1.96 % |
| Total | 448 | 426 | 21 | 1 | 0 | 22 | 4.91 % |

| Seed Kind Tested | Feed | | | | | | |
|------------------|-------|----|----|----|----|-------|--------|
| | Total | CL | SV | TV | MV | #VIOL | %VIOL |
| Feed | 5 | 5 | 0 | 0 | 0 | 0 | 0.00 % |

| Seed Kind Tested | Pasture Mix | | | | | | |
|------------------|-------------|----|----|----|----|-------|---------|
| | Total | CL | SV | TV | MV | #VIOL | %VIOL |
| Pasture Mix | 19 | 14 | 5 | 0 | 0 | 5 | 26.32 % |

| Seed Kind Tested | Lawn Mix | | | | | | |
|------------------|----------|----|----|----|----|-------|---------|
| | Total | CL | SV | TV | MV | #VIOL | %VIOL |
| Lawn Mix | 105 | 84 | 15 | 4 | 2 | 21 | 20.00 % |

Table IV

| Vegetable Seeds Wholesale Distributors | | | Vegetable Seeds | | | |
|--|-----------------|--------------|-----------------|-----------|----------|----------|
| | | | CL | SV | TV | MV |
| BURPEE GARDEN PRODUCTS | WARMINSTER | PA | 663 | 25 | 0 | 0 |
| HENRY F MICHELL, CO. | KING OF PRUSSIA | PA | 88 | 0 | 0 | 0 |
| LAKE VALLEY SEED COMPANY, INC. | BOULDER | CO | 1 | 0 | 0 | 0 |
| P L ROHRER & BRO, INC. | SMOKETOWN | PA | 104 | 0 | 0 | 0 |
| PLANTATION PRODUCTS, LLC | NORTON | MA | 11 | 0 | 0 | 0 |
| SEEDS OF CHANGE | COMPTON | CA | 1 | 0 | 0 | 0 |
| SEEDWAY LLC | ELIZABETHTOWN | PA | 91 | 0 | 0 | 0 |
| SEEDWAY, LLC | HALL | NY | 12 | 0 | 0 | 0 |
| | | Total | 971 | 25 | 0 | 0 |

| Agricultural Seeds Wholesale Distributors | | | Agricultural Seeds | | | |
|---|----------------------|----|--------------------|----|----|----|
| | | | CL | SV | TV | MV |
| ALLIANCE SEED INC | BROOKLYN | NY | 3 | 0 | 0 | 0 |
| ANDRE & SON, INC. | MONTROSE | PA | 1 | 2 | 0 | 0 |
| BFG SUPPLY DBA WETSEL | CHESWICK | PA | 56 | 0 | 0 | 2 |
| BURPEE GARDEN PRODUCTS | WARMINSTER | PA | 30 | 0 | 1 | 0 |
| CENTRAL TURF & IRRIGATION SUPPLY | ELMSFORD | NY | 1 | 0 | 0 | 0 |
| CHEMGRO SEEDS | EAST PETERSBURG | PA | 4 | 0 | 0 | 0 |
| DLF PICKSEED | HALSEY | OR | 2 | 0 | 0 | 0 |
| ERNST CONSERVATION SEED | MEADVILLE | PA | 3 | 3 | 0 | 1 |
| F M BROWN'S SONS, INC. | SINKING SPRING | PA | 9 | 0 | 0 | 0 |
| FM BROWN'S SONS, INC. | SINKING SPRING | PA | 3 | 0 | 0 | 0 |
| GROWMARK FS LLC | YORK | PA | 9 | 1 | 0 | 0 |
| GROWMARK FS, LLC | MILFORD | DE | 6 | 0 | 0 | 0 |
| HADLEY SEED FARM | HADLEY | PA | 1 | 1 | 0 | 0 |
| HISTANDS SUPPLY | WYCOMBE | PA | 0 | 2 | 0 | 0 |
| JUDSONS INC | COLUMBIA CROSS ROADS | PA | 1 | 0 | 0 | 0 |
| KING'S AGRI SEEDS, INC. | LANCASTER | PA | 1 | 0 | 0 | 0 |
| LEBANON SEABOARD CORP | LEBANON | PA | 1 | 0 | 0 | 0 |
| LEBANON VALLEY AG PRODUCTS | MYERSTOWN | PA | 0 | 1 | 0 | 0 |
| LESCO, INC. | CLEVELAND | OH | 1 | 0 | 0 | 0 |
| LIFETIME SEED, CO. | EAST PEORIA | IL | 1 | 0 | 0 | 0 |
| LOCAL SEED COMPANY, LLC. | MEMPHIS | TN | 0 | 1 | 0 | 0 |
| LOVELAND PRODUCTS, INC. | GREELEY | CO | 1 | 0 | 0 | 0 |
| MONSANTO COMPANY | ST LOUIS | MO | 6 | 0 | 0 | 0 |
| NORTHAMPTON COUNTY SEED, CO. | NAZARETH | PA | 3 | 1 | 0 | 0 |
| PENNINGTON SEED | LEBANON | OR | 5 | 1 | 0 | 1 |
| PLANTATION PRODUCTS, LLC | NORTON | MA | 1 | 0 | 0 | 0 |
| PREFERRED SEED COMPANY, INC. | BUFFALO | NY | 3 | 0 | 0 | 0 |
| RURAL KING | MATTOON | IL | 1 | 0 | 0 | 0 |

| Agricultural Seeds Wholesale Distributors | | | Agricultural Seeds | | | |
|---|--------------|--------------|--------------------|-----------|----------|----------|
| | | | CL | SV | TV | MV |
| SEEDWAY, LLC | HALL | NY | 40 | 4 | 0 | 1 |
| THE CISCO COMPANIES | INDIANAPOLIS | IN | 2 | 0 | 0 | 0 |
| TRUGREEN | MEMPHIS | TN | 0 | 2 | 0 | 0 |
| VALLEY CREEK SEED | SAINT THOMAS | PA | 2 | 0 | 0 | 0 |
| W I MILLER & SONS | FARMDALE | OH | 2 | 0 | 0 | 0 |
| | | Total | 199 | 19 | 1 | 5 |

| Flower Seeds Wholesale Distributors | | | Flower Seeds | | | |
|-------------------------------------|-----------------|--------------|--------------|-----------|----------|----------|
| | | | CL | SV | TV | MV |
| BURPEE GARDEN PRODUCTS | WARMINSTER | PA | 268 | 21 | 1 | 0 |
| HENRY F MICHELL, CO. | KING OF PRUSSIA | PA | 82 | 0 | 0 | 0 |
| P L ROHRER & BRO, INC. | SMOKETOWN | PA | 24 | 0 | 0 | 0 |
| PLANTATION PRODUCTS, LLC | NORTON | MA | 1 | 0 | 0 | 0 |
| SEEDWAY LLC | ELIZABETHTOWN | PA | 51 | 0 | 0 | 0 |
| | | Total | 426 | 21 | 1 | 0 |

| Feed Wholesale Distributors | | | Feed | | | |
|------------------------------|--------------|--------------|----------|----------|----------|----------|
| | | | CL | SV | TV | MV |
| CENTERFIELD SERVICES LLC | STEWARTSTOWN | PA | 1 | 0 | 0 | 0 |
| GOLDENFEAST INC | PHOENIXVILLE | PA | 2 | 0 | 0 | 0 |
| TURGEON HOLLSOPPLE FEED MILL | HOLLSOPPLE | PA | 2 | 0 | 0 | 0 |
| | | Total | 5 | 0 | 0 | 0 |

| Pasture Mix Wholesale Distributors | | | Pasture Mix | | | |
|------------------------------------|-------------------|--------------|-------------|----------|----------|----------|
| | | | CL | SV | TV | MV |
| ANTLER KING TROPHY PROD, INC. | BLACK RIVER FALLS | WI | 1 | 1 | 0 | 0 |
| BFG SUPPLY DBA WETSEL | CHESWICK | PA | 1 | 0 | 0 | 0 |
| CHEMGRO SEEDS | EAST PETERSBURG | PA | 0 | 1 | 0 | 0 |
| GROWMARK FS LLC | YORK | PA | 9 | 1 | 0 | 0 |
| LA CROSSE SEED, LLC | LA CROSSE | WI | 0 | 1 | 0 | 0 |
| P L ROHRER & BRO, INC. | SMOKETOWN | PA | 2 | 0 | 0 | 0 |
| SEEDWAY, LLC | HALL | NY | 1 | 1 | 0 | 0 |
| | | Total | 14 | 5 | 0 | 0 |

| Vegetable Mix Wholesale Distributors | | | Vegetable Mix | | | |
|--------------------------------------|------------|----|---------------|----|----|----|
| | | | CL | SV | TV | MV |
| BURPEE GARDEN PRODUCTS | WARMINSTER | PA | 18 | 0 | 0 | 0 |
| PLANTATION PRODUCTS, LLC | NORTON | MA | 2 | 0 | 0 | 0 |

| Vegetable Mix Wholesale Distributors | | | Vegetable Mix | | | |
|--------------------------------------|---------|--------------|---------------|----------|----------|----------|
| | | | CL | SV | TV | MV |
| SEEDS OF CHANGE | COMPTON | CA | 1 | 0 | 0 | 0 |
| | | Total | 21 | 0 | 0 | 0 |

| Conservation Mix Wholesale Distributors | | | Conservation Mix | | | |
|---|-------------------|--------------|------------------|----------|----------|----------|
| | | | CL | SV | TV | MV |
| ANTLER KING TROPHY PROD, INC. | BLACK RIVER FALLS | WI | 0 | 1 | 0 | 0 |
| BFG SUPPLY DBA WETSEL | CHESWICK | PA | 1 | 0 | 0 | 0 |
| GROWMARK FS LLC | YORK | PA | 1 | 1 | 0 | 1 |
| | | Total | 2 | 2 | 0 | 1 |

| Lawn Mix Wholesale Distributors | | | Lawn Mix | | | |
|----------------------------------|-----------------|----|----------|----|----|----|
| | | | CL | SV | TV | MV |
| BARENBRUG USA | TANGENT | OR | 3 | 3 | 0 | 0 |
| BFG SUPPLY DBA WETSEL | CHESWICK | PA | 3 | 1 | 0 | 0 |
| CAPE HORN COUNTRY | YORK | PA | 0 | 1 | 0 | 0 |
| CENTRAL FARM AND GARDEN | WOOSTER | OH | 1 | 0 | 0 | 0 |
| CENTRAL TURF & IRRIGATION SUPPLY | ELMSFORD | NY | 2 | 0 | 0 | 0 |
| CHEMGRO SEEDS | EAST PETERSBURG | PA | 0 | 0 | 1 | 0 |
| DLF PICKSEED | HALSEY | OR | 1 | 1 | 0 | 0 |
| FISHER & SON COMPANY, INC. | EXTON | PA | 4 | 0 | 0 | 0 |
| GENESIS TURFGRASS INC | GLEN ROCK | PA | 3 | 0 | 0 | 0 |
| GROWMARK FS LLC | YORK | PA | 3 | 1 | 0 | 0 |
| HAKES FARM & SEED SERVICE | RED LION | PA | 1 | 0 | 0 | 0 |
| HELENA AGRI-ENTERPRISES, LLC | EVANS CITY | PA | 2 | 0 | 0 | 0 |
| HOME DEPOT 4131 | LANCASTER | PA | 1 | 0 | 0 | 0 |
| J.R. SIMPLOT, DBA JACKLIN SEED | LIBERTY LAKE | WA | 2 | 3 | 1 | 0 |
| JONATHAN GREEN, INC. | FARMINGDALE | NJ | 3 | 0 | 0 | 0 |
| KING'S AGRI SEEDS, INC. | LANCASTER | PA | 8 | 1 | 0 | 0 |
| LEBANON SEABOARD CORP | LEBANON | PA | 6 | 0 | 0 | 2 |
| LEBANON SEABOARD CORP | LEBANON | PA | 1 | 0 | 0 | 0 |
| LESCO, INC. | CLEVELAND | OH | 2 | 0 | 0 | 0 |
| LESCO, INC. | CLEVELAND | OH | 9 | 1 | 1 | 0 |
| MID-ATLANTIC SEEDS, INC. | YORK | PA | 1 | 0 | 0 | 0 |
| NORTHAMPTON COUNTY SEED, CO. | NAZARETH | PA | 1 | 0 | 1 | 0 |
| P L ROHRER & BRO, INC. | SMOKETOWN | PA | 2 | 0 | 0 | 0 |
| PENNINGTON SEED | LEBANON | OR | 2 | 0 | 0 | 0 |
| PENNINGTON SEED | EASTON | PA | 0 | 1 | 0 | 0 |
| PENNINGTON SEED, INC. | GREENFIELD | MO | 5 | 0 | 0 | 0 |
| SEEDWAY, LLC | HALL | NY | 5 | 1 | 0 | 0 |

| Lawn Mix Wholesale Distributors | | | Lawn Mix | | | |
|---------------------------------|------------|--------------|-----------|-----------|----------|----------|
| | | | CL | SV | TV | MV |
| SOUTHERN STATES-WESTFIELD | WESTFIELD | MA | 2 | 0 | 0 | 0 |
| THE SCOTTS COMPANY | MARYSVILLE | OH | 6 | 0 | 0 | 0 |
| TRACTOR SUPPLY COMPANY | BRENTWOOD | TN | 1 | 0 | 0 | 0 |
| WEST YORK AGWAY | YORK | PA | 0 | 1 | 0 | 0 |
| WINFIELD SOLUTIONS LLC | YORK | PA | 1 | 0 | 0 | 0 |
| WINFIELD SOLUTIONS, LLC | SAINT PAUL | MN | 3 | 0 | 0 | 0 |
| | | Total | 84 | 15 | 4 | 2 |

SEED CERTIFICATION
 TABLE V
 SUMMARY OF FIELD INSPECTIONS FOR 2019
 (JULY 1, 2019- JUNE 30, 2020)

| CROP | VARIETY | FOUNDATION | REGISTERED | CERTIFIED | Q/A |
|---------------|---------------------|------------|------------|-----------|-------|
| Oats, Spring | Armor | ---- | 32.00 | 229.70 | ---- |
| | Corral | ---- | ---- | 10.50 | ---- |
| | Hayden | ---- | 23.25 | 35.00 | ---- |
| | | | | | |
| | | | | | |
| Potatoes | Atlantic | ---- | ---- | 1.30 | ---- |
| | LaChipper | ---- | ---- | 2.38 | ---- |
| | Red Lasoda | ---- | ---- | 274.82 | ---- |
| | | | | | |
| | | | | | |
| Triticale | Fredro | ---- | ---- | 93.00 | ---- |
| | HyOctane | ---- | ---- | ---- | ---- |
| | Short Beard Thunder | 344.22 | ---- | 127.80 | ---- |
| | | | | | |
| | | | | | |
| Wheat, Winter | JM1520 | ---- | ---- | ---- | 21.00 |
| | | | | | |
| | | | | | |
| | | | | | |
| TOTAL ACRES | | 344.22 | 55.25 | 774.32 | 21.00 |

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)

