

Seed Germination and Purity Analysis 2020

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The Connecticut Agricultural Experiment Station

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Technical Bulletin 26

September 2021

A total of 333 vegetable, crop, and turfgrass seed samples were collected by inspectors from the Bureau of Regulation and Inspection of the Connecticut Department of Agriculture for testing in 2020. As the official seed testing laboratory, The Connecticut Agricultural Experiment Station performed germination and purity analyses of the seed samples for compliance with the Connecticut Seed Law Regulations and the Federal Seed Act. Seed tests and analyses were conducted by following the Association of Official Seed Analysts (AOSA) Rules for Testing Seeds.

Among 329 vegetable seed samples, only 303 samples were tested for seed germination rates because the other 26 samples did not have enough seeds for the test (Table 1). Among the tested vegetable seed samples, two hundred seventy-five samples passed the germination test, but the other 28 samples did not meet their label claims and the Federal standard (Table 1). Summarized by seed sources, one or more vegetable seed samples from all companies where the samples were collected failed germination rate tests (Table 2). Grouped by vegetable species, bean, chive, cucumber, leek, parsnip, pea, thyme, and watermelon had more samples that did not meet the claims than the other species (Table 3). Seed samples were examined for prohibited noxious weed seeds and no vegetable samples contained noxious weed contaminants.

Two crop samples, rye and buckwheat, were received and tested for purity and germination rate tests. Both samples passed purity and germination rate tests (Table 4).

A total of two turfgrass seed mix samples were received and tested for purity and germination rates. Because most lawn seed samples were labeled with several varieties within a species or several species within a genus, purity and germination rates were tested in the combination of a genus and reported as the sums for the purity test and means for the germination test. The results showed that both samples passed purity and germination tests for all ingredients by meeting the label claims or passing the tests within acceptable tolerances, but the purity of fescue in the Conservation Seed Mix failed to meet the claims (Table 5).

Official seed samples were collected by Wayne Nelson at the Connecticut Department of Agriculture. The Seed Law is administered by the Seed Control Official for the Commissioner of the Department of Agriculture.

Table 1. Results of germination rates of vegetable seed samples in comparison to label claims

Plant	Cultivar	Seed Company	Germination (%)	
			Claimed	Found
Artichoke	Romanesco	New England Seed Co.	60	n/a***
Asparagus	Mary Washington	Plantation Products LLC	70	92
Basil	Spicy Globe	The Chas. C. Hart Seed Co.	70	92
Basil	A Foglia Violetta	New England Seed Co.	70	68****
Basil	Cardinal	Botanical Interests Inc.	70	n/a***
Basil	Italian Large Leaf	Botanical Interests Inc.	70	98
Basil	Italian Genovese	Botanical Interests Inc.	70	81
Basil	Purple	Seedway LLC	70	95
Basil	Spicy Saber	Burpee Garden Products Co.	70	95
Basil	Sweet	Plantation Products LLC	70	97
Basil	Spicy Globe	Plantation Products LLC	70	88
Basil	Genovese	Burpee Garden Products Co.	70	90
Basil	Genovese	Seeds of Change	70	0**
Bean, Asparagus	Yardlong Red Seeded	Burpee Garden Products Co.	75	n/a***
Bean	Blue Lake Bush	The Chas. C. Hart Seed Co.	75	69
Bean	Kentucky Wonder Pole	The Chas. C. Hart Seed Co.	75	61
Bean	Royal Purple	The Chas. C. Hart Seed Co.	75	55
Bean	Henderson Lima	The Chas. C. Hart Seed Co.	70	40
Bean	Jade	New England Seed Co.	70	69****
Bean	French Horticulture	New England Seed Co.	70	n/a***
Bean	Kentucky Wonder Green	New England Seed Co.	70	57**
Bean	Cannellini	New England Seed Co.	75	n/a***
Bean	Borlotto Lingua di Fuoco	New England Seed Co.	75	n/a***
Bean	Coco Blanc Precoce	New England Seed Co.	60	n/a***
Bean	Golden Butterwax	Seedway LLC	75	89
Bean, Bush	Eureka	Botanical Interests Inc.	75	23**
Bean, Bush	Long Tendergreen	Seedway LLC	70	34**
Bean, Garden	Blue Lake 274	Plantation Products LLC	75	21**
Bean, Garden	Bush Blue Lake 274	Burpee Garden Products Co.	70	80
Beet	Red Ace Hybrid	The Chas. C. Hart Seed Co.	65	89
Beet	Detroit Dark Red	The Chas. C. Hart Seed Co.	65	97
Beet	Red Ace F1	New England Seed Co.	65	97
Beet	Detroit Dark Red	New England Seed Co.	65	89
Beet	Detroit Dark Red	Botanical Interests Inc.	65	89
Beet	Early Wonder	Plantation Products LLC	65	93
Beet	Detroit Dark Red	Seedway LLC	65	89
Beet	Detroit Dark Red	Plantation Products LLC	65	77
Beet	Detroit Dark Red Medium Top	Burpee Garden Products Co.	65	98
Beet	Detroit Dark Red	Plantation Products LLC	65	94
Bok Choy		Seeds of Change	75	97
Broccoli	Fall Raab	The Chas. C. Hart Seed Co.	75	73****
Broccoli	Spring Raab	The Chas. C. Hart Seed Co.	75	92
Broccoli	Waltham 29	New England Seed Co.	75	95
Broccoli	Green Sprouting Calabrese	Plantation Products LLC	75	92
Broccoli	De Cicco	Burpee Garden Products Co.	75	93
Broccoli	Waltham 29	Plantation Products LLC	75	95
Broccoli	Waltham	Plantation Products LLC	75	92

Broccoli	Sun King Hybrid	Burpee Garden Products Co.	75	42*
Broccoli	Early Green	Seeds of Change	75	84
Brussels Sprouts	L.I. Improved	The Chas. C. Hart Seed Co.	70	98
Brussels Sprouts	Long Island Improved	New England Seed Co.	70	97
Brussels Sprouts	Long Island Improved	Plantation Products LLC	70	85
Brussels Sprouts	Catskill	Seedway LLC	55	n/a***
Brussels Sprouts	Catskill	Plantation Products LLC	70	99
Cabbage	Danish Ballhead	The Chas. C. Hart Seed Co.	75	71****
Cabbage	Chieftain	New England Seed Co.	75	95
Cabbage	Danish Ball Head	New England Seed Co.	75	99
Cabbage	Cappuccio Cuor di Bue	New England Seed Co.	75	91
Cabbage	Copenhagen Market	Botanical Interests Inc.	75	100
Cabbage	Premium Flat Dutch Late	Plantation Products LLC	75	82
Cabbage	Baby Choi	Burpee Garden Products Co.	75	99
Cabbage	Ferry's Round Dutch	Plantation Products LLC	75	95
Cabbage	Early Golden Acre	Plantation Products LLC	75	96
Cabbage	All Seasons	Burpee Garden Products Co.	75	98
Chinese cabbage	Pak Choi	The Chas. C. Hart Seed Co.	75	97
Chinese cabbage	Pak Choi	Seedway LLC	75	96
Cantaloupe	Delicious 51	New England Seed Co.	75	95
Cantaloupe	Hale's Best Jumbo	Plantation Products LLC	75	96
Carrot	Rainbow Mix	The Chas. C. Hart Seed Co.	55	75
Carrot	Lungo di Napoli	New England Seed Co.	55	99
Carrot	Danvers 126	Botanical Interests Inc.	55	91
Carrot	Imperator	Plantation Products LLC	55	61
Carrot	Chantenay Red Core	Seedway LLC	55	91
Carrot	Purple Haze	Seedway LLC	55	89
Carrot	Little Finger	Burpee Garden Products Co.	55	90
Carrot	Danvers #126	Plantation Products LLC	55	77
Carrots	Red Core Chantenay	New England Seed Co.	55	90
Cauliflower	Early Snowball	New England Seed Co.	75	79
Cauliflower	Romanesco Precoce	New England Seed Co.	75	92
Cauliflower	Early Snowball	Botanical Interests Inc.	75	91
Cauliflower	Snow Crown	Seedway LLC	75	n/a***
Cauliflower	Snowball X	Plantation Products LLC	75	91
Cauliflower	Snowball	Seeds of Change	55	95
Celery	Tall Utah	New England Seed Co.	55	82
Celery	Dorato D'Asti	New England Seed Co.	55	88
Celery	Utah	Seeds of Change	55	n/a***
Chard, Swiss	Lucullus	The Chas. C. Hart Seed Co.	65	99
Chard, Swiss	Fordhook Giant	Plantation Products LLC	65	98
Chard, Swiss	Bright Lights	Seedway LLC	65	91
Chicory	Catalogna	New England Seed Co.	65	92
Chicory	Puntarelle de Galatina	New England Seed Co.	65	62****
Chives		The Chas. C. Hart Seed Co.	50	67
Chives		Plantation Products LLC	50	0
Chives	Garlic	Burpee Garden Products Co.	50	n/a***
Cilantro		Burpee Garden Products Co.	70	96
Cilantro	Slow Bolt	Seeds of Change	70	96
Cilantro/Coriander	Long Standing	Botanical Interests Inc.	70	94
Cilantro/Coriander		Seedway LLC	70	94

Cilantro/Coriander		The Chas. C. Hart Seed Co.	70	87
Collards	Georgia Green	The Chas. C. Hart Seed Co.	80	97
Collards	Georgia	New England Seed Co.	80	91
Collards	Vates	Seedway LLC	80	92
Collards	Georgia	Burpee Garden Products Co.	80	96
Collards	Georgia	Burpee Garden Products Co.	80	97
Corn	Early Sunglow	The Chas. C. Hart Seed Co.	75	95
Corn	Popcorn HYB White Hulless	New England Seed Co.	70	99
Corn	Popcorn Red Strawberry	New England Seed Co.	70	95
Corn	Sweet Corn Kandy Korn	New England Seed Co.	75	99
Corn	Sweet Corn Delectable	New England Seed Co.	75	97
Corn	Sweet Corn Butter and Sugar	New England Seed Co.	75	91
Corn	Sweet Corn Ambrosia	New England Seed Co.	75	92
Corn, Sweet	Burpee's Triple Crown Bicolor	Burpee Garden Products Co.	75	97
Cucumber	Boston Pickling	The Chas. C. Hart Seed Co.	80	71****
Cucumber	Improved Long Green	The Chas. C. Hart Seed Co.	80	75****
Cucumber	Marketmore 78	The Chas. C. Hart Seed Co.	80	45**
Cucumber	Boston Pickling	New England Seed Co.	80	74****
Cucumber	Parisian Gherkin HYB	New England Seed Co.	80	50**
Cucumber	Brown Russian	New England Seed Co.	80	26**
Cucumber	Calypso HYB	New England Seed Co.	80	44**
Cucumber	Bianco	New England Seed Co.	80	46**
Cucumber	Wisconsin SMR-58	Seedway LLC	80	53**
Cucumber	Straight 8	Seedway LLC	80	97
Cucumber	Chompers Hybrid	Burpee Garden Products Co.	80	n/a****
Cucumber	Straight Eight	Plantation Products LLC	80	86
Dill	Bouquet	The Chas. C. Hart Seed Co.	60	89
Dill	Tetra	Botanical Interests Inc.	60	60
Dill	Mammoth	Plantation Products LLC	60	92
Dill	Mammoth	Seedway LLC	60	78
Dill	Dukat	Seedway LLC	60	79
Dill	Bouquet	Plantation Products LLC	60	82
Dill	Mammoth	Plantation Products LLC	60	91
Dill	Long Island Mammoth	Plantation Products LLC	60	88
Dill		Seeds of Change	60	85
Eggplant	Black Beauty	The Chas. C. Hart Seed Co.	60	91
Eggplant	Black Beauty	New England Seed Co.	60	90
Eggplant	Long Purple	New England Seed Co.	60	94
Eggplant	Lunga Di Napoli	New England Seed Co.	60	93
Eggplant	Romanesca	New England Seed Co.	80	96
Eggplant	Black Beauty	Plantation Products LLC	60	93
Eggplant	High Bush Select	Seedway LLC	60	n/a****
Endive	Escarole Broadleaf	The Chas. C. Hart Seed Co.	70	99
Endive	Batavian Full Heart	New England Seed Co.	70	84
Endive	Green Ruffic	Seedway LLC	70	96
Endive	Green Curled	Burpee Garden Products Co.	70	96
Fennel	Finocchio	Botanical Interests Inc.	60	88
Kale	Lacinato	The Chas. C. Hart Seed Co.	75	93
Kale	Lacinato	New England Seed Co.	75	97
Kale	Nero Toscana	Botanical Interests Inc.	75	n/a****
Kale	Dwarf Blue Curled	Botanical Interests Inc.	75	94

Kale	Blue Scotch Curled	Plantation Products LLC	75	97
Kale	Russian Red	Seedway LLC	75	98
Kale	Blue Scotch	Seedway LLC	75	84
Kale	Dwarf Blue Curled Vates	Burpee Garden Products Co.	75	99
Kale	Red Russian	Seeds of Change	75	n/a***
Kale	Dinosaur	Seeds of Change	75	97
Kohl Rabi	White Vienna	The Chas. C. Hart Seed Co.	75	78
Kohl Rabi	White Vienna	New England Seed Co.	75	93
Kohl Rabi	Early White Vienna	Plantation Products LLC	75	77
Kohl Rabi	Purple Vienna	Seedway LLC	75	90
Kohl Rabi	Kossak	Seedway LLC	75	n/a***
Leek	America Broad Flag	New England Seed Co.	60	94
Leek	American Flag	Botanical Interests Inc.	60	95
Leek	America Flag	Plantation Products LLC	60	n/a***
Leeks	American Flag	Plantation Products LLC	60	46**
Lettuce	Bibb	The Chas. C. Hart Seed Co.	80	99
Lettuce	Iceberg	The Chas. C. Hart Seed Co.	80	99
Lettuce	Blk. Seeded Simpson	The Chas. C. Hart Seed Co.	80	93
Lettuce	Red Sails	New England Seed Co.	80	97
Lettuce	Parris Island Cos	New England Seed Co.	80	99
Lettuce	Great Lakes	New England Seed Co.	80	98
Lettuce	Buttercrunch	New England Seed Co.	80	100
Lettuce	Cavolo di Napoli	New England Seed Co.	80	99
Lettuce	Quattro Stagioni	New England Seed Co.	80	93
Lettuce	Tom Thumb	Botanical Interests Inc.	80	98
Lettuce	Oak Leaf Blend	Botanical Interests Inc.	80	89
Lettuce	Ice Queen	Botanical Interests Inc.	80	98
Lettuce	Black Seeded Simpson	Plantation Products LLC	80	94
Lettuce	Parris Island Romaine	Plantation Products LLC	80	82
Lettuce	Simpson Elite	Plantation Products LLC	80	96
Lettuce	Black Seeded Simpson	Seedway LLC	80	99
Lettuce	Deer Tongue Red	Seedway LLC	80	96
Lettuce	Black Seeded Simpson	Seedway LLC	80	98
Lettuce	Buttercrunch	Seedway LLC	80	96
Lettuce	Parris Island Cos	Seedway LLC	80	99
Lettuce	Parris Island Cos	Plantation Products LLC	80	96
Lettuce	Red Salad Bowl	Burpee Garden Products Co.	80	98
Lettuce	Igloo	Burpee Garden Products Co.	80	98
Lettuce	Little Caesar	Burpee Garden Products Co.	80	98
Lettuce	Iceberg	Plantation Products LLC	80	96
Lettuce	Black Seeded Simpson	Plantation Products LLC	80	97
Lettuce	Bibb (or Limestone)	Plantation Products LLC	80	100
Lettuce	Salad Bowl	Burpee Garden Products Co.	80	98
Lettuce	Black Seeded Simpson	Burpee Garden Products Co.	80	99
Lettuce	Emerald Oak	Seeds of Change	80	100
Lettuce	Green Romaine	Seeds of Change	80	n/a***
Marjoram		Botanical Interests Inc.	50	79
Melon, Musk	Delicious 51	New England Seed Co.	75	94
Melon, Musk	Rugoso di Cosenza	New England Seed Co.	75	96
Mustard	Green Wave	New England Seed Co.	75	93
Mustard	Florida Broad Leaf	Plantation Products LLC	75	92

Mustard	Tendergreen	Burpee Garden Products Co.	75	99
Mustard	Green Wave	Seeds of Change	75	92
Okra	Long Green	The Chas. C. Hart Seed Co.	50	51
Okra	Clemson Spineless #80	Plantation Products LLC	50	66
Onion	White Portugal	The Chas. C. Hart Seed Co.	70	24**
Onion	Yellow Sweet Spanish	The Chas. C. Hart Seed Co.	70	89
Onion	White Bunching	New England Seed Co.	70	73
Onion	Sweet Spanish	New England Seed Co.	70	86
Onion	White Lisbon	Botanical Interests Inc.	70	56**
Onion	Yellow Sweet Spanish Utah	Botanical Interests Inc.	70	77
Onion	Evergreen Bunching	Plantation Products LLC	70	76
Onion	Sweet Spanish	Seedway LLC	70	92
Onion	White Lisbon Bunching	Plantation Products LLC	70	14**
Onion	Sweet Spanish	Seedway LLC	70	85
Onion	Evergreen Bunching	Plantation Products LLC	70	76
Onion	Sweet Spanish Yellow	Plantation Products LLC	70	89
Onion	Texas Grano 502	Plantation Products LLC	70	97
Onion	Sweet White Spanish	Burpee Garden Products Co.	70	75
Onion	Yellow Spanish Sweet	Seeds of Change	70	91
Onion, Bunching	Blushing Bunch	Burpee Garden Products Co.	70	91
Parsley	Flat Leaf Italian	The Chas. C. Hart Seed Co.	60	87
Parsley	Gigante	New England Seed Co.	60	95
Parsley	Flat Leaf	Botanical Interests Inc.	60	84
Parsley	Moss Curled	Botanical Interests Inc.	60	79
Parsley	Italian/Single	Plantation Products LLC	60	79
Parsley	Triple/Curled	Plantation Products LLC	60	62
Parsley	Italian Giant	Seedway LLC	60	81
Parsley	Italian Plain Leaf	Seedway LLC	60	78
Parsley	Single Italian Flat	Plantation Products LLC	60	71
Parsley	Extra Triple Curled	Plantation Products LLC	60	72
Parsley	Plain or Single	Plantation Products LLC	60	81
Parsley	Gigante d'Italia	Burpee Garden Products Co.	60	82
Parsley	Plain or Single Italian	Burpee Garden Products Co.	60	72
Parsley	Italian Flat Leaf	Seeds of Change	60	70
Parsnip	All American	New England Seed Co.	60	80
Parsnip	All American	Seedway LLC	60	83
Parsnip	All American	Plantation Products LLC	60	89
Parsnips	Hollow Crown	Plantation Products LLC	60	82
Pea	Oregon Sugar Pod II	The Chas. C. Hart Seed Co.	80	83
Pea	Early Frosty	The Chas. C. Hart Seed Co.	80	30**
Pea	Sugar Snap	New England Seed Co.	80	86
Pea, Shell	Lincoln	New England Seed Co.	80	97
Pea, Shell	Green Arrow	New England Seed Co.	80	84
Pea, Snap	Sugar Daddy	New England Seed Co.	80	70**
Pepper	Sweet Banana	The Chas. C. Hart Seed Co.	55	71
Pepper	Red Cherry Hot	The Chas. C. Hart Seed Co.	55	19**
Pepper	Cubanelle	The Chas. C. Hart Seed Co.	55	92
Pepper	Sweet Banana	New England Seed Co.	55	75
Pepper	Early Jalapeno	New England Seed Co.	55	94
Pepper	Red Cherry Hot	New England Seed Co.	55	87
Pepper	Sweet Bell California Wonder	New England Seed Co.	55	71

Pepper	California Wonder 300 TMR	Plantation Products LLC	55	45****
Pepper	Jalapeno Chili	Plantation Products LLC	55	63
Pepper, Sweet	Lemon Dream	Burpee Garden Products Co.	55	n/a****
Pumpkin	Jack O'Lantern	The Chas. C. Hart Seed Co.	75	72****
Pumpkin	Baby Bear	The Chas. C. Hart Seed Co.	75	88
Pumpkin	Howden	The Chas. C. Hart Seed Co.	75	89
Pumpkin	Big Max	The Chas. C. Hart Seed Co.	75	97
Pumpkin	Jack Be Little	New England Seed Co.	75	96
Pumpkin	Stella Luna	New England Seed Co.	75	99
Pumpkin	Small Sugar	New England Seed Co.	75	99
Radish	Cherry Bell	The Chas. C. Hart Seed Co.	75	98
Radish	Watermelon	The Chas. C. Hart Seed Co.	75	97
Radish	Cherry Belle	Botanical Interests Inc.	75	97
Radish	French Breakfast	Plantation Products LLC	75	90
Radish	White Icicle	Plantation Products LLC	75	100
Radish	Cherry Belle	Seedway LLC	75	97
Radish	Champion	Seedway LLC	75	99
Radish	Chinese White Winter	Seedway LLC	75	99
Radish	French Dressing	Burpee Garden Products Co.	75	69****
Radish	Crimson Giant	Plantation Products LLC	75	98
Radish	German Giant	Burpee Garden Products Co.	75	98
Radish	French Breakfast	Burpee Garden Products Co.	75	100
Radish	Cherry	Seeds of Change	75	94
Rosemary		Botanical Interests Inc.	30	n/a****
Rutabaga	American Purple Top	Seedway LLC	60	81
Sage	Salvia Oficinal	New England Seed Co.	60	97
Spinach	New Zealand	The Chas. C. Hart Seed Co.	40	80
Spinach	Lavewa	Botanical Interests Inc.	60	86
Spinach	Bloomsdale Long Standing	Plantation Products LLC	60	88
Spinach	Winter Bloomsdale	Seedway LLC	60	93
Spinach	Space Hybrid	Burpee Garden Products Co.	60	99
Spinach	Big Ruffles Hybrid	Burpee Garden Products Co.	60	97
Spinach	Bloomsdale, Long Standing	Plantation Products LLC	60	93
Spinach	Correnta Hybrid	Plantation Products LLC	60	99
Spinach	Bloomsdale Long Standing	Burpee Garden Products Co.	60	89
Spinach	Palco Hybrid	Burpee Garden Products Co.	60	n/a****
Squash	Delicata	The Chas. C. Hart Seed Co.	75	98
Squash	Round Zucchini	The Chas. C. Hart Seed Co.	75	86
Squash	Cocozelle Italian	The Chas. C. Hart Seed Co.	75	78
Squash	Buttercup Burgess	The Chas. C. Hart Seed Co.	75	86
Squash	Dark Green Zucchini	The Chas. C. Hart Seed Co.	75	89
Squash	Early Summer Crookneck	New England Seed Co.	75	93
Squash	Hubbard Blue	New England Seed Co.	75	n/a****
Squash	American Tondo	New England Seed Co.	75	n/a****
Squash	Early Prolific Straightneck	New England Seed Co.	75	74****
Squash	Zucchini Verde de Milano	New England Seed Co.	75	73****
Thyme	English	Botanical Interests Inc.	50	70
Thyme		Seedway LLC	50	73
Thyme		Plantation Products LLC	50	11**
Tomatillo	Purple	Plantation Products LLC	50	84
Tomato	Amish Paste	The Chas. C. Hart Seed Co.	75	93

Tomato	Beefsteak	The Chas. C. Hart Seed Co.	75	93
Tomato	Aunt Ruby's German Green	New England Seed Co.	75	96
Tomato	Brandywine Yellow	New England Seed Co.	75	89
Tomato	Brandywine Black	New England Seed Co.	75	96
Tomato	Chocolate Stripes	New England Seed Co.	75	96
Tomato	Crovarese	New England Seed Co.	75	95
Tomato	Rio Grande	New England Seed Co.	75	84
Tomato	S. Marzano 2	New England Seed Co.	75	98
Tomato	Red Cherry Large	Plantation Products LLC	75	92
Tomato	Roma VF	Seedway LLC	80	n/a***
Tomato	Roma VF	Burpee Garden Products Co.	75	97
Tomato	Big Pink Hybrid	Burpee Garden Products Co.	75	n/a***
Tomato	Burpee's Early Pick VF Hybrid	Burpee Garden Products Co.	75	n/a***
Tomato	Rutgers	Plantation Products LLC	75	96
Tomato	Rio Grande	Plantation Products LLC	75	92
Tomato	Roma	Burpee Garden Products Co.	75	96
Tomato Husk	Green Zebra	New England Seed Co.	50	96
Turnip	Purple Top White Globe	The Chas. C. Hart Seed Co.	80	91
Turnip	Market Express	Botanical Interests Inc.	80	97
Turnip	Purple Top White Globe	Plantation Products LLC	80	92
Turnip	Purple Top White Globe	Seedway LLC	80	99
Turnip	Purple Top White Globe	Seedway LLC	80	96
Turnip	Purple Top White Globe	Plantation Products LLC	80	92
Watermelon	Charleston Gray	The Chas. C. Hart Seed Co.	70	18**
Watermelon	Sugar Baby	The Chas. C. Hart Seed Co.	70	61****
Watermelon	Jubilee	New England Seed Co.	70	8**
Watermelon	Moon & Stars Red	New England Seed Co.	70	26**

*: Did not meet the label claim

** : Did not meet the label claim and there were not enough seed for retest

***: Did not have enough seed for the germination test

****: Did not meet the claim, but passed the test within the acceptable tolerance

Table 2. Results of percent vegetable seed samples that met label claims of germination rates by seed source

Company	Number of Tested Samples	Meeting Label Claims (%)
Botanical Interests Inc.	24	92
Burpee Garden Products Co.	33	97
New England Seed Co.	77	90
Plantation Products LLC	66	92
Seeds of Change	12	92
Seedway LLC	36	94
The Chas C Hart Seed Co.	55	74

Table 3. Results of average seed germination rates by vegetable crops and percentages of samples that met the label claims

Plant	Number of Tested Samples	Germination (%)		Samples Meeting the Label Claim (%)
		Label Claim	Average Found	
Asparagus	1	70	92	100
Basil	10	70	80	90
Bean	11	75	54	27
Beet	10	65	91	100
Bok choy	1	75	97	100
Broccoli	9	75	84	89
Brussels sprouts	4	70	95	100
Cabbage	10	75	93	100
Cantaloupe	2	75	96	100
Carrot	9	55	85	100
Cauliflower	5	75	90	100
Celery	2	55	85	100
Chicory	2	65	77	100
Chinese green	2	75	97	100
Chives	2	50	34	50
Cilantro	5	70	93	100
Collards	5	80	95	100
Corn	8	75	96	100
Cucumber	11	80	61	45
Dill	9	60	83	100
Eggplant	6	60	93	100
Endive	4	70	94	100
Fennel	1	60	88	100
Kale	8	75	95	100
Kohlrabi	4	75	85	100
Leek	3	60	78	67
Lettuce	30	80	97	97
Marjoram	1	50	79	100
Melon, Musk	2	75	95	100
Mustard	4	75	94	100
Okra	2	50	59	100
Onion	16	70	74	81
Parsley	14	60	78	100
Parsnip	4	60	84	67
Peas	6	80	75	67
Pepper	9	55	69	89

Pumpkin	7	75	91	100
Radish	13	75	95	100
Rutabaga	1	75	81	100
Sage	1	60	97	100
Spinach	9	60	92	100
Squash	8	60	85	100
Chart, Swiss	3	65	96	100
Thyme	3	50	51	67
Tomatillo	1	75	84	100
Tomato	15	75	94	100
Turnip	6	80	95	100
Watermelon	4	70	28	25

Table 4. Results of purity and germination rates of crop samples in comparison to the label claims

Seed Company	Seed Sample	Purity (%)		Germination (%)	
		Claim	Found	Claim	Found
V- Town Ag Supply	Fall Rye VNS	99.00	99.3	85	89
V-Town Ag Supply	Buckwheat VNS	99.40	99.7	90	97

Table 5. Results of purity and germination rates of lawn seed samples in comparison to the label claims

Sample Source	Seed and Seed Mixture Sample	Purity (%)		Germination (%)	
		Claim	Found ^z	Claim	Found ^z
V-Town Ag Supply	URI #2 Improved Seed Mix				
	Rockstar Kentucky Bluegrass	19.91	41.08	85	91
	Kentucky Bluegrass 98/85	19.91		85	
	Grand Prix Triplex Perennial Ryegrass	19.59	21.49	90	90
	Creeping red fescue	39.20	37.06	92	91
V-Town Ag Supply	Conservation Seed Mix				
	Rockstar Kentucky Bluegrass CBT	4.98	6.31	85	88
	Grand Prix Triplex Perennial Ryegrass	24.49	59.05	90	93
	Annual Ryegrass	24.69			
	Creeping Red Fescue	24.69		90	
	Falcon IV Turf-type Tall Fescue CBT	16.89	30.05	90	89
	Red Top	0.99		93	
	Ladino White Clover	0.99	1.83	78	75
	Musket Colonial Bentgrass	0.98	2.21	90	88

^z: *: did not meet the label claim.

** : did not meet the claim, but passed the test within the acceptable tolerance.

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