

Seed Germination and Purity Analysis

2017

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A total of 290 official seed samples were collected by inspectors from the Bureau of Regulation and Inspection of the Connecticut Department of Agriculture for testing in 2017. 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 (FSA).

Among 279 vegetable seed samples collected, two rosemary samples were excluded from the germination test because there were not enough seeds for the test. Germination rates of 277 tested vegetable seed samples were compared with the standards that are provided by the rules and regulations of the FSA. The result showed that germination rates of 247 (89.2%) samples exceeded label claims and standard, 17 (6.1%) samples passed the test within acceptable tolerance, and the other 13 (4.7%) samples failed the test (Table 1). Two hundred sixty four of the 277 tested vegetable seed samples passed the germination test (Table 2). Among eight seed companies, one company had 100% seed samples passed the germination test, but the other companies had one or more samples failed the test (Table 2). Twelve seed samples that failed the germination test were distributed in seven of forty four vegetable species, which included bean, celery, leek, lettuce, mustard, onion, and watermelon (Table 3).

Four lawn grass samples were tested for purity and germination. Varieties or species in a seed mix sample were grouped by genera for the tests. Therefore, purity and germination results were reported as the sum for a genus. The label claim is met as long as this sum equals or exceeds the sum of the individual components for a genus listed on the label. Two of the four lawn seed samples tested contained one component that failed to meet the purity claim, which was Power Tetraploid Perennial Ryegrass in the Southern New England Pasture Mix sample and Annual Ryegrass in the Contractors Lawn Mix sample, respectively (Table 4). All four samples passed the germination test (Table 4). None of the lawn samples contained seeds of noxious weeds.

The crop seed consisted of four rye samples, one oat sample, one buckwheat sample, and one pea sample. They were tested for purity and germination. The results showed that all samples passed the purity and germination test except one rye sample failed the germination test (Table 5). Although the germination rate of another rye sample (82%) was lower than the label claim, the sample passed the test with the tolerance (Table 5). No noxious weeds were identified in the crop seed samples.

Pamela Sletten and Lindsay Patrick performed the testing following the Association of Official Seed Analysts (AOSA) rules. Dr. Yonghao Li completed the analyses. Wayne Nelson, Seed Control Official, collected the samples. The Seed Law is administered by the Seed Control Official for the Commissioner of the Department of Agriculture.

Table 1. Results of germination of vegetable seed samples with comparisons to the standards that are provided by the rules and regulations of the Federal Seed Act

Plant	Cultivar	Seed Company	Germination (%)	
			Standard	Found ^z
Anise	N/A	Baker Creek Heirloom Seed Co.	50	65
Basil	Sweet	Plantation Products LLC	70	89
Basil	Dolce Vita Blend	Botanical Interest Inc.	70	61**
Basil	Italian Pesto	Renee's Garden	70	83
Basil	Sweet	Burpee Garden Products	70	94
Basil	Sweet	Plantation Products LLC	70	90
Basil, Herb	Basilico Opal A Foglia Violetta	NE Seed	70	93
Basil, Sweet	N/A	Plantation Products LLC	70	89
Bean	Blue lake 274	Plantation Products LLC	75	81
Bean	Golden Butterwax	Seedway LLC	75	45*
Bean	Golden Butterwax	Seedway LLC	75	84
Bean	Provider	Seedway LLC	75	79
Bean	Burpee Stringless	Burpee Garden Products	75	89
Bean, Broad	Fava	The Chas C. Hart Seed Co.	75	98
Bean, Bush	Royal Burgundy	NE Seed	75	90
Bean, Garden	Blue Lake Bush	The Chas C. Hart Seed Co.	75	64**
Bean, Garden	Kentucky Wonder	The Chas C. Hart Seed Co.	75	96
Bean, Lima	Henderson	The Chas C. Hart Seed Co.	70	87
Bean, Pole	Pole Blue Lake	NE Seed	75	63**
Bean	Fagiolo Nano Cannelino	NE Seed	75	88
Bean	Fagiolo Coro Bianco	NE Seed	75	28*
Beet	Bull's Blood	Baker Creek Heirloom Seed Co.	65	88
Beet	Detroit dark Red	Plantation Products LLC	65	93
Beet	Detroit Dark Red	The Chas C. Hart Seed Co.	65	93
Beet	Early Wonder	The Chas C. Hart Seed Co.	65	99
Beet	Detroit Dark Red	Plantation Products LLC	65	88
Beet	Early Wonder Tall Top	Seedway LLC	65	98
Beet	Early Wonder G.T.	NE Seed	65	93
Beet	Red Ace F1	NE Seed	65	97
Beet	Bietola Da Orto D'Egitto	NE Seed	65	100
Beet	Chioggia Guardsmark	Seedway LLC	65	100
Beet	Red Baron	Renee's Garden	65	100
Beet	Detroit Dark Red	Burpee Garden Products	65	97
Broccoli	Early Purple Sprouting	Baker Creek Heirloom Seed Co.	75	98
Broccoli	Green Sprouting Calabrese	Plantation Products LLC	75	71**
Broccoli	Calabrese	The Chas C. Hart Seed Co.	75	90
Broccoli	Fall Raab	The Chas C. Hart Seed Co.	75	84
Broccoli	Waltham 29	NE Seed	75	88
Broccoli	Raab Early Pugliest	NE Seed	75	98

Broccoli	DiCicco	Botanical Interest Inc.	75	70**
Broccoli	Super Rapini	Renee's Garden	75	94
Broccoli	Sunking Hybrid	Burpee Garden Products	75	91
Broccoli	Calabrese	Plantation Products LLC	75	71**
Brussels Sprouts	Long Island Improved	Plantation Products LLC	70	93
Brussels Sprouts	Long Island Improved	The Chas C. Hart Seed Co.	70	83
Brussels Sprouts	Long Island Improved	NE Seed	70	90
Brussels Sprouts	Long Island Improved	Burpee Garden Products	70	84
Cabbage	Brunswick	Baker Creek Heirloom Seed Co.	75	84
Cabbage	Premium Flint Dutch Late	Plantation Products LLC	75	96
Cabbage	Copenhagen	The Chas C. Hart Seed Co.	75	93
Cabbage	Danish Ball Head	NE Seed	75	87
Cabbage	Cavolo Verza DiNapoli Prescoce	NE Seed	75	80
Cabbage	Stonehead	Seedway LLC	75	92
Cabbage	Farliano	Burpee Garden Products	75	90
Cabbage	Baby Choi	Burpee Garden Products	75	85
Cabbage	Early Golden Acre	Plantation Products LLC	75	95
Cabbage, Chinese	Pak Choi	Seedway LLC	75	97
Cabbage, Chinese	Pak Choi	The Chas C. Hart Seed Co.	75	93
Carrot	Berlicum 2	Baker Creek Heirloom Seed Co.	55	97
Carrot	Nantes	Plantation Products LLC	55	89
Carrot	Rainbow	The Chas C. Hart Seed Co.	55	76
Carrot	Danvers 126	Plantation Products LLC	55	69
Carrot	Chantenay	Seedway LLC	55	89
Carrot	Coreless Nantes	NE Seed	55	87
Carrot	Danvers 126	Botanical Interest Inc.	55	82
Carrot	King Midas	Renee's Garden	55	86
Carrot	Short N' Sweet	Burpee Garden Products	55	67
Cauliflower	Purple of Sicily	Baker Creek Heirloom Seed Co.	75	95
Cauliflower	Snowball	The Chas C. Hart Seed Co.	75	88
Cauliflower	Early Snowball	NE Seed	75	96
Cauliflower	Cavalfiore Romanesco Prescoce	NE Seed	75	99
Cauliflower	Snowball X	Plantation Products LLC	75	67**
Celery	Utah Tall	Baker Creek Heirloom Seed Co.	55	44*
Celery	Tall Utah	NE Seed	55	32*
Celery	Sedano Dorato D'Asti	NE Seed	55	90
Celery	Utah	Botanical Interest Inc.	55	89
Chicory	Witloof Di bruxelles	Baker Creek Heirloom Seed Co.	65	76
Chicory	Catalogna	NE Seed	65	55**
Chives	Common	Burpee Garden Products	50	82
Chives	Herb	The Chas C. Hart Seed Co.	50	90
Collards	Georgia Southern	Baker Creek Heirloom Seed Co.	80	85
Collards	Georgia Green	The Chas C. Hart Seed Co.	80	97

Collards	Georgia	NE Seed	80	96
Collards	Vates	Seedway LLC	80	94
Collards	Georgia	Burpee Garden Products	80	94
Coriander	Cilantro	Plantation Products LLC	70	90
Coriander	N/A	Seedway LLC	70	97
Corn	Butter & Sugar	NE Seed	75	94
Corn	Early Glow	NE Seed	75	99
Corn, Sweet	Kandy Korn	The Chas C. Hart Seed Co.	75	97
Corn, Sweet	Butter & Sugar	The Chas C. Hart Seed Co.	75	98
Corn, Sweet	Silver Queen	The Chas C. Hart Seed Co.	75	93
Corn, Sweet	Golden Cross Bantam	Burpee Garden Products	75	88
Corn, Pop	Red Strawberry	NE Seed	75	95
Cucumber	Bush Pickle	The Chas C. Hart Seed Co.	80	93
Cucumber	Marketmore 76	The Chas C. Hart Seed Co.	80	98
Cucumber	Boston Pickling	NE Seed	80	93
Cucumber	Straight Eight	NE Seed	80	95
Cucumber	Cetriob Bianco	NE Seed	80	78**
Cucumber	Straight 8	Seedway LLC	80	91
Cucumber	Straight Eight	Burpee Garden Products	80	99
Cucumber, Pickling	Calypso Hybrid	NE Seed	80	91
Dandelion	Cicoria Italian	The Chas C. Hart Seed Co.	60	88
Dill	Vierling	Baker Creek Heirloom Seed Co.	60	83
Dill	Mammoth	Plantation Products LLC	60	84
Dill	Bouquet	The Chas C. Hart Seed Co.	60	95
Dill	Dukat	Seedway LLC	60	71
Dill	Bouquet	Botanical Interest Inc.	60	89
Dill	Dukat	Renee's Garden	60	89
Dill	Tetra	Burpee Garden Products	60	64
Eggplant	Black Beauty	Plantation Products LLC	60	61
Eggplant	Black Beauty	The Chas C. Hart Seed Co.	60	81
Eggplant	Long Purple	NE Seed	60	81
Eggplant	Melanzana Romanescu	NE Seed	60	71
Eggplant	Melanzana Lunga Di Napoli	NE Seed	60	98
Endive	Frisee	Baker Creek Heirloom Seed Co.	70	93
Endive	Broad Leaf/Escarole	The Chas C. Hart Seed Co.	70	69**
Endive	Batavian Full heart	NE Seed	70	62**
Endive	Full Heart	Seedway LLC	70	78
Endive	Olesh Tres Fine	Botanical Interest Inc.	70	94
Fennel	Florence	Burpee Garden Products	60	64
Fennel, Sweet	N/A	The Chas C. Hart Seed Co.	50	81
Kale	Dwarf Siberian	Baker Creek Heirloom Seed Co.	75	87
Kale	Blue Scotch Curled	Plantation Products LLC	75	97
Kale	Red Russian	The Chas C. Hart Seed Co.	75	94

Kale	Red Russian	Seedway LLC	75	93
Kale	Lucinato	NE Seed	75	85
Kale	Blue Scotch	Seedway LLC	75	95
Kale	Dwarf Blue Curled	Botanical Interest Inc.	75	91
Kale	Tuscan Baby Leaf	Renee's Garden	75	93
Kohlrabi	White Vienna	The Chas C. Hart Seed Co.	75	92
Kohlrabi	Delicacy White	Baker Creek Heirloom Seed Co.	75	78
Kohlrabi	Early White Vienna	Plantation Products LLC	75	80
Kohlrabi	Purple Vienna	Seedway LLC	75	98
Kohlrabi	White Vienna	NE Seed	75	95
Kohlrabi	Early Purple Vienna	Seedway LLC	75	100
Kohlrabi	Early White Vienna	Burpee Garden Products	75	90
Kohlrabi	Early White Vienna	Plantation Products LLC	75	73**
Leek	Autumn Giant	Baker Creek Heirloom Seed Co.	60	88
Leek	American Flag	The Chas C. Hart Seed Co.	60	91
Leek	American Broad Flag	NE Seed	60	9*
Leek	Primor	Renee's Garden	60	86
Leek	Striesen	Renee's Garden	60	89
Leek	American Flag	Plantation Products LLC	60	78
Lettuce	Rouge d'Hiver	Baker Creek Heirloom Seed Co.	80	97
Lettuce	Black Seeded Simpson	Baker Creek Heirloom Seed Co.	80	96
Lettuce	Parris Island Romaine	Plantation Products LLC	80	91
Lettuce	Black Seeded Simpson	Plantation Products LLC	80	16
Lettuce	Dear Tongue Red	Seedway LLC	80	25*
Lettuce	Red Sails	NE Seed	80	96
Lettuce	Butter Crunch	NE Seed	80	79**
Lettuce	Big Boston	NE Seed	80	93
Lettuce	Lattuga Quattio Stagioni	NE Seed	80	98
Lettuce	Black Seeded Simpson	Seedway LLC	80	94
Lettuce	Prizehead	Seedway LLC	80	98
Lettuce	Parris Island Cos	Seedway LLC	80	99
Lettuce	Marvel of Four Seasons	Botanical Interest Inc.	80	92
Lettuce	Red Sails	Botanical Interest Inc.	80	99
Lettuce	Queen of Crunch	Renee's Garden	80	98
Lettuce	Black Seeded Simpson	Burpee Garden Products	80	97
Lettuce	Giant Ceasar	Burpee Garden Products	80	97
Lettuce	Black Seeded Simpson	Plantation Products LLC	80	92
Lettuce	Grand Rapids	Plantation Products LLC	80	93
Melon, Tuscan	Masters Choice Hybrid	NE Seed	75	100
Muskmelon	Edisto 47	NE Seed	75	100
Muskmelon	Hale's Best Jumbo	Plantation Products LLC	75	91
Muskmelon	Hale's Best Jumbo	Plantation Products LLC	75	77
Mustard	Southern Giant Curled	The Chas C. Hart Seed Co.	75	96

Mustard	Florida Broad Leaf	NE Seed	75	84
Mustard	Mizuna	Botanical Interest Inc.	75	60*
Mustard Spinach	Tendergreen	Plantation Products LLC	75	87
Onion	Bianca Di Maggio	Baker Creek Heirloom Seed Co.	70	51*
Onion	Crimson Forest Bunching	Baker Creek Heirloom Seed Co.	70	6*
Onion	Yellow Spanish	The Chas C. Hart Seed Co.	70	80
Onion	White Lisbon Bunching	Plantation Products LLC	70	27*
Onion	White Bunching	NE Seed	70	64**
Onion	Sweet Spanish	NE Seed	70	40*
Onion	Cipolla Tropeana Lunga	NE Seed	70	88
Onion	Sweet Spanish	Seedway LLC	70	79
Onion	Long White Bunching	Seedway LLC	70	84
Onion	Blushing Bunch	Burpee Garden Products	70	40*
Onion	Countrywide Hybrid	Burpee Garden Products	70	88
Parsley	Triple Curled	Plantation Products LLC	60	66
Parsley	Moss Curled	The Chas C. Hart Seed Co.	60	83
Parsley	Single Italian Flat	Plantation Products LLC	60	69
Parsley	Italian Giant	Seedway LLC	60	89
Parsley	Italian Plain Leaf	Seedway LLC	60	91
Parsley	Moss Curled	Botanical Interest Inc.	60	73
Parsley	Big Italy	Burpee Garden Products	60	88
Parsley, herb	Prezzemolo Gigante	NE Seed	60	97
Parsnip	All American	NE Seed	60	56**
Parsnip	Hollow Crown	Plantation Products LLC	60	66
Pea	Tall Telephone	The Chas C. Hart Seed Co.	80	74**
Pea	Dwarf Gray Sugar	The Chas C. Hart Seed Co.	80	100
Pea	Sugar Sprint	Seedway LLC	80	90
Peas	Little Marvel	NE Seed	80	88
Pea, Snap	Sugar Ann 18"	NE Seed	80	96
Pepper	Jalapeno	Plantation Products LLC	55	72
Pepper	Cubanelle	The Chas C. Hart Seed Co.	55	71
Pepper	Red Cherry Hot	The Chas C. Hart Seed Co.	55	64
Pepper	California Wonder	The Chas C. Hart Seed Co.	55	52**
Pepper	Early Jalapeno	NE Seed	55	84
Pepper	Cubanelle Sweet Fryer	NE Seed	55	87
Pepper	Long Red Cayenne	NE Seed	55	92
Pepper	Pepperone Friariello	NE Seed	55	73
Pepper	Pepperone Giapponese	NE Seed	55	84
Pumpkin	Connecticut field	The Chas C. Hart Seed Co.	75	97
Pumpkin	Small Sugar	The Chas C. Hart Seed Co.	75	97
Pumpkin	Big Max	The Chas C. Hart Seed Co.	75	86
Pumpkin	Jarrahdale	NE Seed	75	90
Pumpkin	Autumn Buckskin Hyb	NE Seed	75	94

Pumpkin	Big Max	NE Seed	75	87
Pumpkin	Howden	NE Seed	75	91
Radish	Japanese Minowase Daikon	Baker Creek Heirloom Seed Co.	75	100
Radish	French Breakfast	Plantation Products LLC	75	99
Radish	Champion	Plantation Products LLC	75	97
Radish	Cherry Belle	Seedway LLC	75	97
Radish	German Giant	Seedway LLC	75	84
Radish	Watermelon	NE Seed	75	100
Radish	Ravanello 1/2 Lungo Rosso P.B.	NE Seed	75	94
Radish	Chinese White Winter	Seedway LLC	75	100
Radish	Cherry Belle	Botanical Interest Inc.	75	93
Radish	Crimson Giant	Burpee Garden Products	75	97
Radish	Early Scarlett Globe	Plantation Products LLC	75	99
Rosemary	N/A	Plantation Products LLC	30	-***
Rosemary	N/A	Plantation Products LLC	30	-***
Rosemary	Rosmarino	NE Seed	30	43
Rutabaga	Laurentian	Baker Creek Heirloom Seed Co.	75	95
Rutabaga	Improved Purple Top Yellow	NE Seed	75	93
Rutabaga	American Purple Top	Seedway LLC	75	96
Spinach	Giant Noble	Baker Creek Heirloom Seed Co.	60	94
Spinach	Bloomsdale Long Standing	Plantation Products LLC	75	83
Spinach	Bloomsdale Long Standing	Plantation Products LLC	60	97
Spinach	Bloomsdale	NE Seed	60	94
Spinach	Winter Bloomsdale	Seedway LLC	60	93
Spinach	Bloomsdale	Botanical Interest Inc.	60	83
Spinach	Regiment	Renee's Garden	60	72
Spinach	Bloomsdale Long Standing	Burpee Garden Products	60	97
Squash, Summer	Sligo Hyb	NE Seed	75	88
Squash	Cocozelle	The Chas C. Hart Seed Co.	75	79
Squash	Fordhook Zucchini\	The Chas C. Hart Seed Co.	75	97
Squash	Spaghetti	The Chas C. Hart Seed Co.	75	92
Squash	King Acorn	The Chas C. Hart Seed Co.	75	86
Squash	Waltham Butternut	The Chas C. Hart Seed Co.	75	92
Squash	Waltham butternut	NE Seed	75	85
Squash	Zucchini San Pasquale	NE Seed	75	79
Squash, Acorn	Table Queen	NE Seed	75	77
Squash, Zucchini	HZS-03-849 Hyb	NE Seed	75	94
Squash, Winter	Blue Hubbard	NE Seed	75	90
Swiss Chard	Lucullus	The Chas C. Hart Seed Co.	65	99
Swiss Chard	Fordhook Giant	Seedway LLC	65	99
Swiss Chard	Fordhook Giant	Burpee Garden Products	65	97
Thyme	N/A	Plantation Products LLC	50	81
Thyme	N/A	Plantation Products LLC	50	76

Thyme	N/A	Seedway LLC	50	93
Thyme	Common	Burpee Garden Products	50	83
Tomatillo	Verde	NE Seed	50	93
Tomatillo	Gigante Verde	Burpee Garden Products	50	87
Tomato	Marglobe	The Chas C. Hart Seed Co.	75	79
Tomato	Beefsteak	The Chas C. Hart Seed Co.	75	89
Tomato	Yellow Jubilee	The Chas C. Hart Seed Co.	75	83
Tomato	San Marzano	The Chas C. Hart Seed Co.	75	96
Tomato	Red Cherry	Plantation Products LLC	75	98
Tomato	Mortgage Lifter	NE Seed	75	87
Tomato	Giant Belgium Pink	NE Seed	75	97
Tomato	Green Zebra	NE Seed	75	97
Tomato	Small Red Cherry	NE Seed	75	97
Tomato	Pomodoro Rio Grande	NE Seed	75	95
Tomato	Pomodoro Nano S. Marzano	NE Seed	75	95
Tomato	Roma VF	Seedway LLC	75	97
Turnip	Boule d'Or	Baker Creek Heirloom Seed Co.	80	99
Turnip	Purple Top Globe	Seedway LLC	80	96
Turnip	Purple Top White Globe	Botanical Interest Inc.	80	97
Turnip	Seven Top Greens	Plantation Products LLC	80	98
Watermelon	Sugar Baby	The Chas C. Hart Seed Co.	70	99
Watermelon	Moon & Stars	The Chas C. Hart Seed Co.	70	20*
Watermelon	Charleston Grey	The Chas C. Hart Seed Co.	70	95
Watermelon	Black Diamond	NE Seed	70	99
Watermelon	Charleston Grey	NE Seed	70	75

^z: *: did not meet label claim and standard; **: did not meet standard, but passed test within acceptable tolerance; ***: no enough seed for germination test

Table 2. Results of vegetable seed samples that met label claims of germination by companies.

Company	Number of Samples		Meeting Claims (%)
	Tested	Passed Test	
Baker Creek Heirloom Seed Co.	22	19	86.4
Botanical Interests Inc.	14	13	92.9
Burpee Garden Products	25	24	96.0
NE Seed	77	73	94.8
Plantation Products LLC	42	41	97.6
Renee's Garden	10	10	100.0
Seedway LLC	35	33	94.3
The Chas C. Hart Seed Co.	52	51	98.1
Total	277	264	95.3

Table 3. Percent seed samples that met label claims by vegetables.

Plant	Number of Samples		Meeting Claims (%)
	Tested	Passed Test	
Anise	1	1	100
Basil	7	7	100
Bean	13	11	84.6
Beet	12	12	100
Broccoli	10	10	100
Brussels Sprout	4	4	100
Cabbage	11	11	100
Carrot	9	9	100
Cauliflower	5	5	100
Celery	4	2	50.0
Chicory	2	2	100
Chive	2	2	100
Collards	5	5	100
Coriander	2	2	100
Corn	7	7	100
Cucumber	8	8	100
Dandelion	1	1	100
Dill	7	7	100
Eggplant	5	5	100
Endive	5	5	100
Fennel	2	2	100
Kale	8	8	100
Kohl Rabi	8	8	100
Leek	6	5	83.3
Lettuce	19	18	94.7
Melon/Muskmelon	4	4	100
Mustard/Mustard Spinach	4	3	75.0
Onion	11	6	63.6
Parsley	8	8	100
Parsnip	2	2	100
Pea	5	5	100
Pepper	9	9	100
Pumpkin	7	7	100
Radish	11	11	100
Rosemary	1	1	100
Rutabaga	3	3	100
Spinach	8	8	100
Squash	11	11	100
Swiss Chard	3	3	100
Thyme	4	4	100
Tomatillo	2	2	100
Tomato	12	12	100
Turnip	4	4	100
Watermelon	5	4	80.0

Table 4. Results of purity and germination of lawn seed samples with comparisons to label claims

Seed Mixture	Purity				Germination (%)	
	Claim (%)	Found ^z (%)	Variance	Tolerance	Claim	Found ^z
Blue Seal Play Area						
Kentucky Bluegrass VNS	9.74	10.54	0.80	1.47	80	85
Perennial Ryegrass VNS	9.78	9.45	-0.33	2.60	90	95
Creeping Red Fescue	24.82	24.06	-0.76	2.78	90	96
Tall Fescue VNS	54.39	53.37	-1.02	3.83	85	75**
Southern New England Pasture Mix						
Power Tetraploid Perennial Ryegrass	39.58	31.93*	-7.65	4.86	90	88**
Climax Timothy	30.91	47.41	16.50	3.70	85	96
Orchardgrass	9.65	9.07**	-0.58	2.60	85	94
Clover (Total)	9.93	10.91	0.98	2.77		89**
Medium Red Clover	3.95				90	
Ladino Clover	5.98				90	
Contractors Lawn Mix						
Fawn Tall Fescue	24.66	28.50	3.84	2.89	N/A	93
Annual Ryegrass	73.67	69.84*	-3.83	2.99	90	95
Athletic Lawn Mix						
Kentucky Bluegrass	9.80	10.29	0.49	1.47	85	88
Amazing Perennial Ryegrass	19.58	20.98	1.40	3.45	85	96
Creeping Red Fescue	14.56	16.12	1.56	2.15	85	94
Tall fescue (Total)	54.25	50.53**	-3.72	3.83		94
Trio Tall Fescue	29.59				90	
Cochise Tall Fescue	24.66				85	

^z: *: did not meet label claim; **: did not meet claims, but passed with tolerances

Table 5. Results of seed germination and purity tests of crop samples

Seed Company	Crop	Purity (%)		Germination (%)	
		Claim	Found	Claim	Found ^z
Semican, Plessisville, QC	<i>Rye</i>				
	Rye	100.00	99.99	N/A	89
Ontarion Specialty Grains	<i>Rye</i>				
	Rye VNS	98.00	100.00	85	97
Pleasant Valley Farms	<i>Rye</i>				
	Winter Rye VNS	99.50	99.97	86	82**
Pleasant Valley Farms	<i>Oat</i>				
	Oats	N/A	99.98	N/A	94
Southern States Coop	<i>Buckwheat</i>				
	Buckwheat VNS	99.00	100.00	85	95
Southern States Coop	<i>Rye</i>				
	Rye	98.50	100.00	85	73*
New England Seed Co.	<i>Pea</i>				
	Austrian Winter Pea	99.18	99.66	80	98

^z: * did not meet label claim; **: did not meet claims, but passed with tolerances

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