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*The
Connecticut
Agricultural
Experiment
Station,
New Haven*

Seed Germination
and Purity
Analysis 1990

BY SHARON M. DOUGLAS

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During 1990, official samples of 342 vegetable, 10 lawn grass, and 10 agricultural seed were collected by inspectors from the Marketing Division of the Connecticut Department of Agriculture for testing. As the official state seed-testing laboratory, The Connecticut Agricultural Experiment Station performed germination and purity analyses for compliance with the Connecticut Seed Law Regulations and the Federal Seed Act.

Table 1 shows the results of germination tests for individual vegetable seed samples from nine companies. Results are presented by plant type, variety, germination claim, germination found, and compliance with the standards of germination. These standards are set by the Federal Seed Act. The categories for label compliance are: 1) seeds meet label claims for germination within allowable tolerances and 2) seeds do not meet label claims for germination. All tests were replicated twice. If a seed lot failed, it was retested. In addition, seedlings from the seeds must also appear "normal", i.e., they have to be free from decay, have well-developed primary root systems, have well-developed and intact hypocotyls and/or epicotyls, and have healthy cotyledons. Of the 342 vegetable seeds tested, six did not meet their claims for germination. Seeds were also examined for prohibited noxious weed seeds. No vegetable samples contained weed contaminants.

The total number of germination claims and the percentage of claims in each category for compliance are summarized for each vegetable seed company in Table 2. Table 3 summarizes the average percent germination claimed, that found, and the standard for each type of vegetable.

Table 4 shows the results of purity and germination tests for individual lawn grass seed samples. These are presented by company, brand name and/or seed type or variety mixture. The categories for both purity and germination are as previously described for the vegetable seeds. Lawn seed samples that were labelled with several varieties within a species or with several species within a genus were separated by genus. Purity and germination results are therefore reported as the sum for that 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. Of the 10 lawn seed samples tested, two did not meet label claims for purity. All samples met label claims for germination.

Table 5 shows the results of purity and germination tests for agricultural seed samples. These are presented by company, brand name and/or seed type or variety mixture. The categories for both purity and germination are as previously described. Of the 10 agricultural samples tested, one did not meet its label claim for germination. Six samples met label claims for purity. Four samples were not large enough for purity analysis.

In addition to germination and purity tests, label claims for the percentages of inert matter, crop seed (other than lawn grass seed), weed seed, and the presence of noxious weeds were also evaluated. All samples met label claims for these criteria.

Analyses were performed by Dr. Sharon M. Douglas and Mary K. Inman. Samples were collected by Raymond Weller and Alton Van Dyke, Seed Control Official. The Seed Law is administered by the Seed Control Official for the Commissioner of the Department of Agriculture.

Sharon M. Douglas

Table 1. Germination of Vegetable Seeds.

Plant	Variety	Seed Company	Germination	
			claim	found*
Bean	Blue Lake	Comstock Ferre	74	91
Bean	Blue Lake	Hart	84	77
Bean	Blue Lake 274	Agway	75	98
Bean	Commodore	Comstock Ferre	78	91
Bean	French Horticultural	Comstock Ferre	80	89
Bean	Gold Crop	Hart	87	98
Bean	Greencrop	Northrup King	75	88
Bean	Kentucky Wonder	Agway	75	87
Bean	Kentucky Wonder	Comstock Ferre	86	85
Bean	Kinghorn Wax	Page	75	87
Bean	Mung	Hart	96	100
Bean	Navy Pea	Comstock Ferre	90	99
Bean	Pencil Pod Black Wax	Fredonia	75	97
Bean	Pencil Pod Black Wax	Northrup King	75	99
Bean	Provider	Agway	75	97
Bean	Red Kidney	Comstock Ferre	77	65*
Bean	Roma	Hart	94	94
Bean	Royal Burgundy	Comstock Ferre	84	97
Bean	Royalty Purple Pod	Northrup King	75	93
Bean	Stringless Green Pod	Fredonia	75	95
Bean	Stringless Green Pod	Hart	84	98
Bean	Stringless Green Pod	Hart	84	99
Bean	Tendercrop	Comstock Ferre	70	85
Bean	Tendercrop	Hart	42	88
Bean	Tendergreen	New England	75	97
Bean, Lima	Fordhook 242	Agway	70	73
Bean, Lima	Fordhook 242	New England	70	80
Bean, Lima	Fordhook Bush	Comstock Ferre	75	73
Bean, Lima	Henderson	Northrup King	70	88
Beet	Cylindra	Hart	88	90
Beet	Detroit Dark Red	Agway	65	91
Beet	Detroit Dark Red	Bentley	65	75
Beet	Detroit Dark Red	Comstock Ferre	88	91
Beet	Detroit Dark Red	Hart	86	80
Beet	Early Wonder	Agway	65	73
Beet	Early Wonder	Comstock Ferre	78	92
Beet	Early Wonder	Hart	93	87
Beet	Early Wonder	New England	65	95
Beet	Early Wonder	Page	65	88
Beet	Early Wonder Green Top	Fredonia	65	90
Beet	Lutz Green Leaf	Hart	79	80
Beet	Red Ace	New England	65	70
Beet	Ruby Queen	Northrup King	65	81
Broccoli	Early Green Calabrese	Hart	95	95
Broccoli	Green Comet	Comstock Ferre	85	88
Broccoli	Green Sprouting	Page	75	96

Table 1. Germination of Vegetable Seeds (Continued).

Plant	Variety	Seed Company	Germination	
			claim	found*
Broccoli	Rapa Spring	Fredonia	75	99
Broccoli	Waltham	Hart	71	87
Broccoli	Waltham 29	Agway	75	98
Broccoli	Waltham 29	Northrup King	75	88
Brussels sprouts	Catskill	Agway	70	78
Brussels sprouts	Jade Cross Hybrid	Burpee	70	80
Brussels sprouts	Jade Cross Hybrid	New England	70	92
Brussels sprouts	Long Island	Hart	75	91
Brussels sprouts	Long Island Improved	Page	70	77
Cabbage	Copenhagen Market	Bentley	75	95
Cabbage	Copenhagen Market	Comstock Ferre	90	99
Cabbage	Copenhagen Market	Hart	86	98
Cabbage	Danish Ball Head	Comstock Ferre	80	97
Cabbage	Danish Ball Head	New England	75	95
Cabbage	Early Jersey Wakefield	Hart	92	98
Cabbage	Late Flat Dutch	Bentley	75	92
Cabbage	Red Acre	Agway	75	96
Cabbage	Stonehead Hybrid	New England	75	99
Cabbage	Viking	Agway	75	86
Carrot	Chantenay	Fredonia	55	88
Carrot	Danvers Half Long	Bentley	55	86
Carrot	Danvers Half Long	Hart	73	78
Carrot	Danvers Half Long	New England	55	72
Carrot	Danvers Half Long	Page	55	71
Carrot	Danvers Improved Half Long	Comstock Ferre	65	63
Carrot	Imperator	Fredonia	55	86
Carrot	Imperator Long	Comstock Ferre	62	66
Carrot	Little Finger	Burpee	55	81
Carrot	Little Fingers	New England	55	87
Carrot	Nantes Long	Agway	55	89
Carrot	Orbit	Fredonia	55	91
Carrot	Red Core Chantenay	Hart	80	74
Carrot	Scarlet Nantes	Hart	83	86
Carrot	Scarlet Nantes	Northrup King	55	87
Carrot	Toudo Hybrid	Burpee	55	88
Cauliflower	Early Purple	Hart	86	91
Cauliflower	Early Snowball	Bentley	75	71
Cauliflower	Early Snowball	Comstock Ferre	84	90
Cauliflower	Early Snowball	Hart	90	97
Cauliflower	Self Blanching	Agway	75	96
Cauliflower	Snow King Hybrid	New England	75	94
Celery	Golden Self-Blanching	Comstock Ferre	90	85
Celery	Golden Self-Blanching	Hart	75	96

Table 1. Germination of Vegetable Seeds (Continued).

Plant	Variety	Seed Company	Germination	
			claim	found*
Chard	Rhubarb	Page	65	80
Chicory	Asparagus Catalonga	Comstock Ferre	82	83
Chicory	Italian Dandelion	Hart	88	93
Chicory	Radicchio	New England	65	91
Chinese cabbage	Bok Choi	Comstock Ferre	90	100
Chinese cabbage	Bok Choi	Hart	87	99
Chinese cabbage	Jade Pagoda	Agway	75	98
Chinese cabbage	Michili	New England	75	100
Collards	Georgia Green	Hart	91	95
Collards	Vates	Agway	80	94
Collards	Vates	Comstock Ferre	90	97
Corn	Bi-Queen	Comstock Ferre	78	97
Corn	Butter and Sugar	Hart	95	99
Corn	Calypso	Comstock Ferre	90	97
Corn	Early Sunglow	Agway	75	99
Corn	Golden Beauty	Fredonia	75	99
Corn	Golden Cross Bantam	Hart	89	97
Corn	Iochief	Hart	83	99
Corn	Jubilee	Fredonia	75	97
Corn	Jubilee Hybrid	Northrup King	75	99
Corn	Kandy Korn	Agway	75	97
Corn	Silver Queen	Agway	75	99
Corn	Silver Queen	Comstock Ferre	90	100
Corn	Silver Queen	Hart	89	98
Corn	Silver Queen	Northrup King	75	98
Corn	Silver Queen	Page	75	98
Corn	Spirit Hybrid	Northrup King	75	99
Corn	Sugar and Gold	Agway	75	99
Cowpea	California Blackeye	Comstock Ferre	85	98
Cress	Curled	Hart	87	98
Cucumber	Improved Long Green	Hart	84	97
Cucumber	Marketmore	Hart	90	98
Cucumber	Marketmore 76	Agway	80	98
Cucumber	Marketmore 76	New England	80	98
Cucumber	National Pickling	Hart	90	100
Cucumber	Slicemaster	Comstock Ferre	90	99
Cucumber	Straight Eight	Comstock Ferre	90	98
Cucumber	Straight Eight	New England	80	97
Cucumber	Tablegreen 72	Agway	80	90
Cucumber	Tablegreen 72	Page	80	92
Cucumber	Wisconsin SMR 18	Agway	80	100

Table 1. Germination of Vegetable Seeds (Continued).

Plant	Variety	Seed Company	Germination	
			claim	found*
Eggplant	Black Beauty	Comstock Ferre	81	81
Eggplant	Black Beauty	Fredonia	60	86
Eggplant	Dusky Hybrid	New England	60	84
Eggplant	Florida Highbush	Page	60	86
Eggplant	Long Purple	Comstock Ferre	90	95
Eggplant	Superhybrid	Agway	60	83
Endive	Batavian	Comstock Ferre	70	92
Endive	Fullheart Batavian	Fredonia	70	80
Endive	Fullheart Batavian	Northrup King	70	92
Escarolle	Broadleaf	Hart	88	95
Kale	Blue Scotch	Agway	75	93
Kale	Dwarf Siberian	Hart	94	88
Kale	Siberian	Comstock Ferre	90	98
Kale	Vates Dwarf Green	Hart	83	98
Kohlrabi	Early Purple Vienna	Northrup King	75	99
Kohlrabi	Early Purple Vienna	Page	75	80
Kohlrabi	Grand Duke	Comstock Ferre	90	87
Kohlrabi	Purple	Hart	75	95
Kohlrabi	White Vienna	Agway	75	96
Leek	American Broad Flag	Comstock Ferre	88	88
Leek	American Broad Flag	New England	60	87
Leek	American Flag	Fredonia	60	88
Leek	Carina	Agway	60	94
Lettuce	Bibb	Comstock Ferre	90	97
Lettuce	Big Boston	Comstock Ferre	80	96
Lettuce	Big Boston	Hart	84	95
Lettuce	Big Boston	New England	80	97
Lettuce	Black Seeded Simpson	Agway	80	95
Lettuce	Black Seeded Simpson	Hart	86	
Lettuce	Black Seeded Simpson	Northrup King	80	95
Lettuce	Black Seeded Simpson	Page	80	96
Lettuce	Burpee Bibb	Burpee	80	95
Lettuce	Burpee's Green Ice	Burpee	80	97
Lettuce	Buttercrunch	Agway	80	78
Lettuce	Buttercrunch	Bentley	80	94
Lettuce	Buttercrunch	Comstock Ferre	90	98
Lettuce	Buttercrunch	Fredonia	80	98
Lettuce	Buttercrunch	Northrup King	80	99
Lettuce	Grand Rapids	Fredonia	80	98
Lettuce	Grand Rapids	Northrup King	80	93
Lettuce	Grand Rapids	Page	80	99
Lettuce	Iceberg	Hart	89	87
Lettuce	Ithaca	Agway	80	96

Table 1. Germination of Vegetable Seeds (Continued).

Plant	Variety	Seed Company	Germination	
			claim	found*
Lettuce	Red Sails	New England	80	98
Lettuce	Romaine	Agway	80	78
Lettuce	Romaine	New England	80	95
Lettuce	Salad Bowl	Hart	92	
Lettuce	Salad Bowl	New England	80	97
Lettuce	Simpson Curled	Bentley	80	95
Lettuce	Wheeler's Tom Thumb	Comstock Ferre	86	84
Muskmelon	Alaska	Comstock Ferre	90	90
Muskmelon	Delicious	Comstock Ferre	90	98
Muskmelon	Delicious 51	Agway	75	98
Muskmelon	Delicious 51	Hart	81	95
Muskmelon	Iroquois	Comstock Ferre	90	95
Muskmelon	Iroquois	Hart	83	89
Mustard	Florida Broadleaf	Hart	86	98
Mustard	Tendergreen	Fredonia	75	93
Okra	Clemson Spineless	Hart	85	84
Okra	Clemson Spineless	Northrup King	50	61
Okra	Clemson Spineless	Page	50	55
Onion	Downing Yellow Globe	Comstock Ferre	85	88
Onion	Gambler	Agway	70	90
Onion	Red Burgundy	Northrup King	70	87
Onion	Spanish Yellow Sweet	Hart	81	92
Onion	Sweet Sandwich	Comstock Ferre	82	86
Onion	Sweet Spanish	Agway	70	95
Onion	Sweet Spanish	Bentley	70	93
Onion	Sweet Spanish	Comstock Ferre	84	83
Onion	Sweet Spanish	Fredonia	70	77
Onion	Sweet Spanish	Page	70	90
Onion	Utah Sweet Spanish	New England	70	95
Onion	Wethersfield Red	Hart	77	91
Onion	White Bunching	Agway	70	90
Onion	White Bunching	Bentley	70	80
Onion	White Bunching	Fredonia	70	90
Onion	White Bunching	New England	70	97
Onion	Yellow Globe	Hart	91	98
Parsley	Double Curled	Fredonia	60	63
Parsley	Hamburg	Hart	86	71*
Parsley	Hamburg Turnip Rooted	Northrup King	60	72
Parsley	Moss Curled	Agway	60	67
Parsley	Moss Curled	Page	60	61
Parsnip	All American	Comstock Ferre	80	77
Parsnip	All American	New England	60	68

Table 1. Germination of Vegetable Seeds (Continued).

Plant	Variety	Seed Company	Germination	
			claim	found*
Pea	Early Frost	Hart	92	86
Pea	Early Frosty	Agway	80	99
Pea	Early Perfection	Northrup King	80	95
Pea	Early Snap	Agway	80	93
Pea	Freezonian	Agway	80	93
Pea	Lincoln	Comstock Ferre	90	98
Pea	Lincoln	Hart	86	94
Pea	Little Marvel	Agway	80	86
Pea	Little Marvel	Bentley	80	97
Pea	Little Marvel	Comstock Ferre	80	93
Pea	Little Marvel	Fredonia	80	96
Pea	Little Marvel	Northrup King	80	96
Pea	Sparkle	Comstock Ferre	80	96
Pea	Sugar Ann Snap	Hart	73	90
Pea	Sugar Snap	Comstock Ferre	80	93
Pea	Sugar Snap	New England	80	97
Pea	Sugar Snap	Page	80	93
Pepper	California Wonder	Comstock Ferre	71	74
Pepper	California Wonder	Hart	83	88
Pepper	Cayenne Red Long	Page	55	63
Pepper	Cubanelle	Hart	73	84
Pepper	Cubanelle Sweet Fryer	New England	55	83
Pepper	Early Calwonder	Agway	55	86
Pepper	Early Calwonder	Page	55	93
Pepper	Hungarian Hot Wax	Comstock Ferre	90	98
Pepper	Hungarian Sweet Wax	Hart	80	72
Pepper	Jalapeno	Hart	91	88
Pepper	Poblano	Burpee	55	93
Pepper	Red Chili	Fredonia	55	95
Pepper	Sweet Banana	Comstock Ferre	90	91
Pepper	Sweet Banana	Page	55	73
Popcorn	White Cloud	Agway	75	100
Pumpkin	Big Max	Agway	75	68
Pumpkin	Big Max	Hart	96	89
Pumpkin	Connecticut Field	Comstock Ferre	90	99
Pumpkin	Connecticut Field	Hart	83	90
Pumpkin	Connecticut Field	New England	75	92
Pumpkin	Jack o'Lantern	Comstock Ferre	78	84
Pumpkin	Small Sugar	Hart	90	98
Radish	Champion	Bentley	75	96
Radish	Champion	Hart	92	96
Radish	Cherry Belle	Hart	92	100
Radish	Cherry Belle	New England	75	96
Radish	Cherry Belle	Page	75	98
Radish	Early Scarlet Globe	Agway	75	91

Table 1. Germination of Vegetable Seeds (Continued).

Plant	Variety	Seed Company	Germination	
			claim	found*
Radish	Early Scarlet Globe	Northrup King	75	99
Radish	Early Scarlet White Tip	Page	75	99
Radish	French Breakfast	Burpee	75	92
Radish	French Breakfast	Page	75	97
Radish	Giant White Globe	Northrup King	75	98
Radish	Round Black Spanish	Comstock Ferre	90	95
Radish	Scarlet Globe	Comstock Ferre	90	98
Radish	Scarlet Globe	Hart	92	94
Radish	Sparkler	Bentley	75	93
Radish	White Icicle	Fredonia	75	98
Radish	White Icicle	New England	75	99
Roquette		Burpee	75	95
Rutabaga	American Purple Top	Comstock Ferre	90	100
Rutabaga	American Purple Top	Fredonia	75	96
Rutabaga	Imperial Purple Top	New England	75	98
Spinach	America	Comstock Ferre	86	96
Spinach	Bloomsdale	Hart	88	97
Spinach	Bloomsdale Longstanding	Burpee	60	96
Spinach	Bloomsdale Longstanding	Northrup King	60	97
Spinach	Bloomsdale Savoy	Bentley	60	98
Spinach	Indian Summer Hybrid	Northrup King	60	90
Spinach	Melody	Hart	75	87
Spinach	New Zealand	Agway	40	84
Spinach	New Zealand	Burpee	40	77
Spinach	New Zealand	Page	40	57
Spinach	Virginia Blight Resistant	Comstock Ferre	86	98
Squash	Black Beauty	Agway	75	74
Squash	Black Beauty	Northrup King	75	75
Squash	Black Beauty Zucchini	Comstock Ferre	90	70*
Squash	Black Zucchini	Page	75	82
Squash	Blue Hubbard	Hart	85	81
Squash	Burgess Buttercup	Agway	75	85
Squash	Early Butternut	Comstock Ferre	86	97
Squash	Early Prolific Straightneck	Agway	75	99
Squash	Early Sum. Yellow Crookneck	Hart	86	98
Squash	Goldbar	Comstock Ferre	95	99
Squash	Goldbar Hybrid	New England	75	98
Squash	Puritan Butternut	Agway	75	98
Squash	Spaghetti	Hart	89	96
Squash	Sweet Mama	Comstock Ferre	90	99
Squash	Table King	Hart	75	44*
Squash	Turk's Turban	Comstock Ferre	90	97
Squash	Vegetable Spaghetti	Comstock Ferre	90	99
Squash	Waltham Butternut	Hart	96	98
Squash	Zucchini	Bentley	75	50*

Table 1. Germination of Vegetable Seeds (Continued).

Plant	Variety	Seed Company	Germination	
			claim	found*
Sunflower	Mammoth Gray	Hart	83	66*
Swiss chard	Fordhook	Fredonia	65	90
Swiss chard	Fordhook Giant	Agway	65	81
Swiss chard	Fordhook Giant	Page	65	78
Swiss chard	Giant Lucullus	Comstock Ferre	90	98
Swiss chard	Giant Lucullus	New England	65	87
Swiss chard	Lucullus	Hart	92	84
Tomato	Beefmaster	New England	75	95
Tomato	Bonny Best	Hart	88	91
Tomato	Fireball	Bentley	75	89
Tomato	Heinz 1370	Agway	75	85
Tomato	Large Cherry Red	Comstock Ferre	90	95
Tomato	Marglobe	Comstock Ferre	85	84
Tomato	Marglobe	Hart	90	92
Tomato	Roma	Comstock Ferre	87	92
Tomato	Roma VF	Agway	75	87
Tomato	Rutgers	Bentley	75	91
Tomato	Rutgers	Comstock Ferre	90	97
Tomato	Rutgers	Hart	90	82
Tomato	Rutgers	Northrup King	75	90
Tomato	Spring Giant	Page	75	78
Tomato	Sunray	Agway	75	95
Turnip	Purple Top White Globe	Agway	75	97
Turnip	Purple Top White Globe	Bentley	80	98
Turnip	Purple Top White Globe	Comstock Ferre	90	98
Turnip	Purple Top White Globe	Fredonia	80	96
Turnip	Purple Top White Globe	New England	80	100
Turnip	Seven Top	Bentley	80	97
Turnip	Seven Top	Comstock Ferre	90	96
Turnip	Seven Top	Fredonia	80	99
Turnip	Seven Top	Hart	90	99
Turnip	Yellow Globe	Hart	90	97
Watermelon	Crimson Sweet	Hart	87	86
Watermelon	Kleckley's Sweet	Comstock Ferre	84	95
Watermelon	Sugar Baby	Comstock Ferre	90	98
Watermelon	Sugar Baby	Hart	97	96
Watermelon	Sweet Favorite	Comstock Ferre	90	97

 * means sample not within allowable tolerances

Table 2. Summary for each seed company of total number of germination claims and the percentage of claims in each compliance category.

Seed Company	Claims	% Compliance Category*	
		1	2
Agway	64	100	0
Bentley	18	94	6
Burpee	10	100	0
Comstock Ferre	76	96	4
Fredonia	25	100	0
Hart	84	96	4
New England	33	100	0
Northrup King	26	100	0
Page	26	100	0

 * Compliance Categories: 1 = meets label claims;
 2 = does not meet claims within allowable tolerance

Table 3. Summary of number of samples, and average % germination claimed, found and set standard.

Vegetable	No. of Samples	Claimed	Average % Found	Germination Standard
Bean	25	78	92	70
Bean, Lima	4	71	79	75
Beet	14	74	85	65
Broccoli	7	79	93	75
Brussels sprouts	5	71	84	70
Cabbage	10	80	96	75
Carrot	16	61	81	55
Cauliflower	6	81	90	75
Celery	2	83	91	55
Chard	1	65	80	
Chicory	3	78	89	65
Chinese cabbage	4	82	99	75
Collards	3	87	95	80
Corn	17	80	98	75
Cowpea	1	85	98	75
Cress	1	87	98	75
Cucumber	11	84	97	80
Eggplant	6	69	86	60
Endive	3	70	88	70
Escarolle	1	88	95	
Kale	4	86	94	75
Kohlrabi	5	78	91	75
Leek	4	67	89	60
Lettuce	27	82	94	80
Muskmelon	6	85	94	75
Mustard	2	81	96	75
Okra	3	62	67	50
Onion	17	75	90	70
Parsley	5	65	67	60
Parsnip	2	70	73	60
Pea	17	81	94	80
Pepper	14	69	84	55
Popcorn	1	75	100	
Pumpkin	7	84	89	75
Radish	17	80	96	75
Roquette	1	75	95	
Rutabaga	3	80	98	75
Spinach	11	63	89	50
Squash	19	83	86	75
Sunflower	1	83	66	
Swiss chard	6	74	86	65
Tomato	15	81	90	75
Turnip	10	84	98	80
Watermelon	5	90	94	70

Standards are set under the Federal Seed Act; Blanks indicate standards are not set.

Table 4. Germination and Purity of Lawn Seed.

Seed Company	Seed Mixture	Purity		Germination	
		Claim	Found ^{1,2}	Claim	Found ¹
Hart	<i>Small Spot Brand</i>				
	Fiesta II Perennial Rye	39.25	28.03*	90	86
	Kentucky Bluegrass	25.95	35.71*	80	72
	Victory Chewings Fescue	19.70		85	
	Creeping Red Fescue	9.82	30.75	85	77
Hart	<i>Evergreen Brand</i>				
	Kentucky Bluegrass	25.95	39.07*	80	73
	Creeping Red Fescue	19.71	20.66	85	78
	Crown Perennial Rye	29.55		90	
	Annual Rye	19.67	36.43*	90	90
Hart	<i>Tuf Turf</i>				
	Fiesta II Perennial Rye	39.41		90	
	Jazz Perennial Rye	29.55		90	
	Crown Perennial Rye	29.52	98.57	90	93
Hart	<i>Shade Brand</i>				
	Fiesta II Perennial Rye	19.67	18.46	90	92
	Victory Chewings Fescue	29.51		85	
	Creeping Red Fescue	29.46		85	
	Pennlawn Red Fescue	19.71	80.30	85	90
Hart	<i>Elite</i>				
	Merit Kentucky Bluegrass	29.55		80	
	America Kentucky Bluegrass	19.71	48.59	80	79
	Victory Chewings Fescue	29.51	30.40	85	92
	Fiesta II Perennial Rye	19.67	20.29	90	94
Hart	<i>Wear n'Tear</i>				
	Fiesta II Perennial Rye	39.25	36.23	90	90
	Kentucky Bluegrass	25.95	28.78	80	73
	Victory Chewings Fescue	19.70		85	
	Creeping Red Fescue	9.82	32.28	85	88
Agway	<i>Royal Green</i>				
	Kentucky Bluegrass	34.12		85	
	Nassau Kentucky Bluegrass	9.55	42.13	85	87
	Calypso Perennial Rye	24.78	25.81	90	94
	Creeping Red Fescue	19.29		85	
	Pennlawn Red Fescue	9.35	31.15	85	88
Agway	Armaldia Tetraploid Perennial Rye	99.51	98.02	90	86
Agway	<i>Ryegrass Mixture</i>				
	Annual Rye	79.64		90	
	Linn Perennial Rye	19.89	99.55	90	97
Comstock Ferre	Highland Bentgrass	98.77	99.02	88	90

 1 Results for seeds which were separated by genus and not by species or by variety are reported as the sum for that genus

2 * = does not meet label claims within allowable tolerance

Table 5. Germination and Purity of Agricultural Seed.

Seed Company	Seed Mixture	Purity		Germination	
		Claim	Found ^{1, 2}	Claim	Found ¹
Comstock Ferre	Ladino Clover	99.95	100.00	80	70*
Agway	Belmont Brand				
	Smooth Brome Grass	94.31	95.02	85	83
Agway	101 Brand Alfalfa	99.81	99.98	85	79
Agway	Performance Plus Hay Mixture				
	Excaliber Alfalfa	51.87	54.45	80	90
	Venture Reed Canarygrass	33.68	29.46	86	78
	Tribune Timothy	13.98	15.75	87	89
Agway	Hairy Vetch	99.73		85	94
Agway	Sacramento Ladino Clover	99.94	100.00	85	91
Agway	Palaton Reed Canarygrass	96.00	99.71	85	90
Agway	Hybrid Sorgo Sudangrass #44	99.00		90	83
Agway	Japanese Millet	99.25		85	80
Agway	DeKalb Hybrid Seed				
	Corn DK T1100	99.60		90	97

1 * = does not meet label claims within allowable tolerance

2 Blank indicates sample not large enough for analysis



The Connecticut Agricultural Experiment Station ,

founded in 1875, is the first experiment station in America. It is chartered by the General Assembly to make scientific inquiries and experiments regarding plants and their pests, insects, soil and water, and to perform analyses for State agencies. The laboratories of the Station are in New Haven and Windsor; its Lockwood Farm is in Hamden. Single copies of bulletins are available free upon request to Publications; Box 1106; New Haven, Connecticut 06504.

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