

*The
Connecticut
Agricultural
Experiment
Station,
New Haven*

Seed Germination
and Purity
Analysis 1992

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*Bulletin 905
August 1992*

As the official seed testing laboratory for the state, the Connecticut Agricultural Experiment Station performs germination and purity analyses of vegetable, lawn, and agricultural seed samples collected by inspectors from the Bureau of Regulation and Inspection of the Connecticut Department of Agriculture. These analyses are conducted to ensure compliance with the Connecticut Seed Law Regulations and the Federal Seed Act. The standards are set by the Federal Seed Act and categories for label compliance are: 1) seeds meet label claims for germination and/or purity and 2) seeds do not meet label claims within acceptable tolerance. All tests are replicated twice. If a seed lot fails, it is retested. In addition to these criteria, seedlings from the seeds must 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. Seed samples are also examined for prohibited noxious weed contaminants, inert matter, and other weed seed.

Official samples of 310 vegetable, 12 lawn, and 1 agricultural seed were tested in 1992. Table 1 shows the results of germination tests for individual vegetable seed samples from 17 companies. Results are presented by plant type, variety, germination claim, germination found, and compliance with the standards for germination. Of the 310 vegetable seeds tested, four did not meet their claims for germination. Seed samples 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 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 12 lawn seed samples tested, three did not meet label claims for purity and four did not meet label claims for germination.

Table 5 shows the results of purity and germination tests for the one agricultural seed sample. The categories for both purity and germination are as previously described. This sample met the label claim for purity but did not meet the claim for germination.

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

Analyses were performed by Mary K. Inman and Dr. Sharon M. Douglas. Samples were collected by Melanie J. Attwater, 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. * = does not meet label claims within allowable tolerance.

Plant	Variety	Seed Company	Germination	
			Claim	Found
Artichoke	Green Globe	Comstock Ferre	62	70
Asparagus	Martha Washington	Comstock Ferre	86	87
Bean	Blue Lake Bush	Burpee	75	94
Bean	Blue Lake Bush	Hart	79	98
Bean	Bountiful Green Bush	Comstock Ferre	90	96
Bean	Commodore	Hart	76	96
Bean	Derby Green Bush	Comstock Ferre	78	89
Bean	Goldcrop Wax Bush	Hart	75	95
Bean	Kentucky Wonder Bush	Lake Valley	75	93
Bean	Kinghorn Wax	Page	75	94
Bean	Mung	Hart	89	97
Bean	Pencil Pod Black Wax	Lake Valley	75	99
Bean	Romano Bush	Hart	75	95
Bean	Slenderette	Page	75	97
Bean, Lima	Henderson	Hart	87	90
Beet	Cylindra	Agway	65	94
Beet	Detroit Dark Red	Agway	65	90
Beet	Detroit Dark Red	Burpee	65	88
Beet	Detroit Dark Red	Fredonia	65	64
Beet	Detroit Dark Red	Greene Valley	65	89
Beet	Detroit Dark Red	Michael Leonard	65	86
Beet	Detroit Dark Red	Page	65	95
Beet	Early Wonder	Agway	65	89
Beet	Early Wonder	Page	65	85
Beet	Early Wonder Green Top	Fredonia	65	92
Beet	Lutz Winter Keeper	Hart	65	95
Beet	Red Ace	Hart	65	86
Beet	Red Ball	Burpee	65	81
Beet	Red Detroit	Hart	65	91
Beet	Ruby Queen	Comstock Ferre	90	96
Beet	Ruby Queen	Michael Leonard	65	78
Beet	Ruby Queen	Page	65	81
Beet	Tall Top Early Wonder	Ferry Morse	65	96
Broccoli	Calabrese	American Seed	75	98
Broccoli	Calabrese	Hart	90	94
Broccoli	Calabrese	Lake Valley	75	96
Broccoli	Calabrese	Page	75	98
Broccoli	de Rapa	Hart	75	94
Broccoli	Green Sprouting	Greene Valley	75	99
Broccoli	Improved Green Sprouting	Fredonia	75	96
Broccoli	Italian Green Sprouting	Hart	75	93
Broccoli	Spring Rabe	Hart	90	100
Broccoli	Waltham 29	Agway	75	98

Table 1--Germination of Vegetable Seeds (continued).

Plant	Variety	Seed Company	Germination	
			Claim	Found
Brussels sprouts	Bedford Fillbasket	Thompson & Morgan	70	91
Brussels sprouts	Catskill	Agway	70	100
Brussels sprouts	Long Island Improved	Burpee	70	99
Brussels sprouts	Long Island Improved	Hart	75	100
Cabbage	Copenhagen	Hart	90	97
Cabbage	Copenhagen Market	Page	75	71
Cabbage	Danish Ball Head	New England	75	95
Cabbage	Earliana	Burpee	75	95
Cabbage	Early Golden Acre	American Seed	75	95
Cabbage	Early Jersey Wakefield	Hart	90	98
Cabbage	Early Jersey Wakefield	Hart	75	99
Cabbage	Ferry's Round Dutch	Ferry Morse	75	100
Cabbage	Golden Acre	Botzum	75	95
Cabbage	Golden Acre	Greene Valley	75	92
Cabbage	Late Flat Dutch	Bentley	75	94
Cabbage	Premium Late Flat Dutch	Michael Leonard	75	96
Cabbage	Red Acre	Agway	75	95
Cabbage	Savoy Chieftain	Comstock Ferre	90	94
Cabbage	Savoy Chieftain	Hart	90	99
Cabbage	Savoy Chieftain	Hart	75	96
Carrot	Chantenay	Michael Leonard	55	85
Carrot	Coreless Nantes	New England	55	86
Carrot	Danvers 126	Ferry Morse	55	91
Carrot	Danvers Half Long	Bentley	55	83
Carrot	Danvers Half Long	Fredonia	55	86
Carrot	Danvers Half Long	Greene Valley	55	85
Carrot	Danvers Half Long	Michael Leonard	55	80
Carrot	Gold Pak	American Seed	55	79
Carrot	Imperator	Hart	86	87
Carrot	Imperator	New England	55	87
Carrot	Kundulus	Thompson & Morgan	55	91
Carrot	Little Finger	Hart	84	91
Carrot	Long Chantenay	American Seed	55	81
Carrot	Nantes	Bentley	55	74
Carrot	Nantes Coreless	Greene Valley	55	89
Carrot	Nantes Long	Agway	55	78
Carrot	Red Chantenay	Hart	77	79
Carrot	Red Core Chantenay	Burpee	55	69
Carrot	Red Core Chantenay	Comstock Ferre	85	87
Carrot	Royal Chantenay	Agway	55	93
Carrot	Suko	Thompson & Morgan	55	90
Carrot	Tender Sweet	Botzum	55	91
Cauliflower	Early Snowball	Greene Valley	75	93
Cauliflower	Early Snowball	Lake Valley	75	98
Cauliflower	Early Snowball	Page	75	94
Cauliflower	Purple Giant	Agway	75	94

Table 1--Germination of Vegetable Seeds (continued).

Plant	Variety	Seed Company	Germination	
			Claim	Found
Cauliflower	Self Blanching	Agway	75	94
Cauliflower	Snow King	New England	75	96
Celery	Giant Pascal	Comstock Ferre	73	92
Celery	Tall Utah 52-70 R	Burpee	55	90
Chicory		Hart	90	90
Chicory		New England	65	73
Chicory	Marina	Burpee	65	87
Chinese cabbage		New England	75	99
Collards	Georgia	Bentley	80	100
Collards	Georgia	Burpee	80	99
Collards	Georgia	Hart	90	99
Collards	Georgia	Michael Leonard	80	96
Collards	Vates	Agway	80	99
Collards	Vates	Comstock Ferre	90	97
Collards	Vates	Fredonia	80	96
Collards	Vates	Hart	90	98
Corn	Bodacious	Comstock Ferre	86	96
Corn	Butter and Sugar	Page	75	99
Corn	Golden Bantam 8RW	Hart	85	94
Corn	Golden Beauty	Greene Valley	75	97
Corn	Golden Cross Bantam	Greene Valley	75	98
Corn	Jubilee	Comstock Ferre	75	87
Corn	Seneca Chief	Hart	90	100
Cucumber	Boston Pickling	Comstock Ferre	90	99
Cucumber	Boston Pickling	Hart	90	98
Cucumber	Marketer	Hart	90	99
Cucumber	Marketmore	Agway	80	94
Cucumber	Marketmore 76	Hart	80	95
Cucumber	Poinsett	Greene Valley	80	99
Cucumber	Poinsett	Michael Leonard	80	99
Cucumber	Straight Eight	Agway	80	100
Cucumber	Straight Eight	Burpee	80	99
Cucumber	Straight Eight	Greene Valley	80	99
Cucumber	Straight Eight	Michael Leonard	80	98
Cucumber	Wisconsin SMR 18	Agway	80	89
Cucumber	Wisconsin SMR 58	Greene Valley	80	96
Cucumber	Wisconsin SMR 58	Michael Leonard	80	100
Eggplant	Black Beauty	Hart	60	80
Eggplant	Black Beauty	Lake Valley	60	93
Eggplant	Dusky	Hart	90	95
Eggplant	Dusky	New England	60	92
Eggplant	Ichiban	Comstock Ferre	90	97

Table 1--Germination of Vegetable Seeds (continued).

Plant	Variety	Seed Company	Germination	
			Claim	Found
Endive	Batavian Full Heart	Greene Valley	70	76
Endive	Florida Deep Heart	Agway	70	88
Endive	Full Heart Batavian	Northrup King	70	86
Endive	Salad King	Comstock Ferre	90	93
Escarole	Broad Leaf	Hart	90	86
Kale	Blue Scotch	Agway	75	99
Kale	Dwarf Blue	Lake Valley	75	98
Kale	Dwarf Siberian	Hart	88	93
Kale	Tall Green	Page	75	89
Kale	Vates	New England	75	94
Kohlrabi	Early Purple Vienna	Lake Valley	75	97
Kohlrabi	Early Vienna White	Ferry Morse	75	99
Kohlrabi	White Vienna Early	Comstock Ferre	90	98
Leek	American Broad Flag	New England	60	96
Leek	Broad London	Burpee	60	94
Leek	Musselburgh Improved	Thompson & Morgan	60	89
Lettuce	Bibb	Burpee	80	95
Lettuce	Bibb	Hart	90	91
Lettuce	Bibb	Michael Leonard	80	89
Lettuce	Bibb	Northrup King	80	98
Lettuce	Bibb Butterhead	American Seed	80	96
Lettuce	Big Boston	New England	80	92
Lettuce	Black Seeded Simpson	American Seed	80	93
Lettuce	Black Seeded Simpson	Greene Valley	80	94
Lettuce	Black Seeded Simpson	Michael Leonard	80	97
Lettuce	Black Seeded Simpson	Northrup King	80	100
Lettuce	Buttercrunch	Agway	80	97
Lettuce	Buttercrunch	Bentley	80	91
Lettuce	Buttercrunch	Botzum	80	95
Lettuce	Buttercrunch	Greene Valley	80	81
Lettuce	Buttercrunch	Page	80	91
Lettuce	Crisp Mint	Thompson & Morgan	80	96
Lettuce	Early Prize Head	Michael Leonard	80	99
Lettuce	Grand Rapids	Ferry Morse	80	96
Lettuce	Grand Rapids	Michael Leonard	80	100
Lettuce	Great Lakes	Ferry Morse	80	98
Lettuce	Iceberg	Burpee	80	98
Lettuce	Iceberg	New England	80	98
Lettuce	Iceberg	Page	80	99
Lettuce	Imperial 847	Comstock Ferre	86	96
Lettuce	Ithaca	Agway	80	99
Lettuce	Prizehead	Agway	80	97
Lettuce	Red Sails	New England	80	100
Lettuce	Romaine	Greene Valley	80	97

Table 1. Germination of Vegetable Seeds (continued).

Plant	Variety	Seed Company	Germination	
			Claim	Found
Lettuce	Romaine	New England	80	89
Lettuce	Ruby	Burpee	80	97
Lettuce	Salad Bowl	Bentley	80	20*
Lettuce	Salad Bowl	Hart	90	97
Lettuce	Tom Thumb	Lake Valley	80	97
Lettuce	Valmaine	Thompson & Morgan	80	97
Lettuce	White Boston	Page	80	97
Melon, Honeydew	Earli-Dew	Comstock Ferre	93	96
Muskmelon	Delicious	Agway	75	97
Muskmelon	Delicious	Hart	90	98
Muskmelon	Golden Delicious	Greene Valley	75	95
Muskmelon	Hale's Best	Michael Leonard	75	98
Muskmelon	Heart of Gold	Hart	88	95
Mustard	Florida Broadleaf	Burpee	75	99
Mustard	Southern Giant Curled	Bentley	75	98
Mustard	Southern Giant Curled	Northrup King	75	98
Okra	Clemson Spineless	Agway	50	85
Okra	Clemson Spineless	Burpee	50	92
Okra	Clemson Spineless	Michael Leonard	50	93
Onion	Evergreen Bunching	Burpee	70	97
Onion	Granex	Burpee	70	85
Onion	Green Bunching	Michael Leonard	70	93
Onion	Green Scallion	Greene Valley	70	81
Onion	Long White Bunching	Agway	70	99
Onion	Red Burgundy	Lake Valley	70	76
Onion	Spartan Banner	Agway	70	95
Onion	Stuttgarter	Comstock Ferre	78	88
Onion	Utah Sweet Spanish	Northrup King	70	85
Onion	White Bunching	Fredonia	70	81
Onion	White Lisbon Bunching	American Seed	70	93
Onion	Yellow Sweet Spanish	Bentley	70	48*
Onion	Yellow Sweet Spanish	Greene Valley	70	92
Onion	Yellow Sweet Spanish	Page	70	83
Parsley	Hamburg Rooted	Lake Valley	60	53
Parsley	Italian Plain	Agway	60	69
Parsley	Moss Curled	Michael Leonard	60	85
Parsley	Moss Curled	Page	60	72
Parsley	Paramount	Page	60	81
Parsley	Plain Italian	Bentley	60	79
Parsnip	All American	Agway	60	73
Parsnip	Harris Model	Fredonia	60	89

Table 1. Germination of Vegetable Seeds (continued).

Plant	Variety	Seed Company	Germination	
			Claim	Found
Parsnip	Hollow Crown	Michael Leonard	60	72
Parsnip	Hollow Crown	Page	60	76
Pea	Alaska	Hart	90	100
Pea	Dwarf Gray Sugar	Lake Valley	80	85
Pea	Frosty	Comstock Ferre	88	97
Pea	Oregon Sugar Pod II	Lake Valley	80	96
Pea	Sugar Snap	Lake Valley	80	85
Pea	Sugar Snap	Page	80	86
Pea	Wando	Burpee	80	98
Pepper	California Wonder	Fredonia	55	90
Pepper	Cubanelle	New England	55	91
Pepper	Cubanelle	Page	55	89
Pepper	Early Calwonder	Agway	55	87
Pepper	Early Calwonder	Greene Valley	55	96
Pepper	Early Calwonder	New England	55	100
Pepper	Eastern Rocket	Agway	55	89
Pepper	Jalapeno	Lake Valley	55	92
Pepper	Long Red Cayenne	Bentley	55	76
Pepper	Midway	Comstock Ferre	90	98
Pepper	Red Hot Cherry	New England	55	94
Pumpkin	Atlantic Giant	Weeks	75	12*
Pumpkin	Connecticut Field	Hart	90	98
Pumpkin	Jack O'Lantern	Comstock Ferre	90	94
Pumpkin	Jack O'Lantern	Hart	90	97
Pumpkin	Thomas Halloween	Agway	75	96
Radish	Champion	New England	75	98
Radish	Cherry Belle	New England	75	100
Radish	Cherry Belle	Northrup King	75	86
Radish	Chinese White Winter	Agway	75	97
Radish	Early Globe	Northrup King	75	89
Radish	Early Scarlet Globe	Greene Valley	75	99
Radish	Early Scarlet Globe	Michael Leonard	75	99
Radish	French Breakfast	Michael Leonard	75	98
Radish	French Breakfast	Page	75	97
Radish	Giant White Globe	Northrup King	75	94
Radish	Long White Icicle	American Seed	75	99
Radish	Scarlet Turnip White Tip	Michael Leonard	75	97
Radish	Sparkler	Agway	75	100
Radish	Sparkler White Tip	American Seed	75	99
Radish	White Icicle	Agway	75	96
Radish	White Icicle	Burpee	75	99
Radish	White Icicle	Greene Valley	75	98
Radish	White Icicle	Michael Leonard	75	98
Roquette		New England	75	97

Table 1. Germination of Vegetable Seeds (continued).

Plant	Variety	Seed Company	Germination	
			Claim	Found
Rutabaga	American Purple Top	Agway	75	97
Rutabaga	American Purple Top	Fredonia	75	100
Rutabaga	Purple Top Yellow	New England	75	98
Spinach	Bloomsdale	Botzum	60	95
Spinach	Bloomsdale Long Standing	Fredonia	60	96
Spinach	Bloomsdale Long Standing	Greene Valley	60	91
Spinach	Bloomsdale Long Standing	Michael Leonard	60	83
Spinach	Bloomsdale Long Standing	Northrup King	60	88
Spinach	Hybrid Tyee	Lake Valley	60	94
Spinach	Melody	Agway	60	96
Spinach	Melody	New England	60	89
Spinach	New Zealand	Agway	40	64
Spinach	New Zealand	Northrup King	40	89
Squash	Black Beauty	Lake Valley	75	85
Squash	Black Beauty Zucchini	Agway	75	96
Squash	Black Beauty Zucchini	Ferry Morse	75	89
Squash	Black Beauty Zucchini	Northrup King	75	88
Squash	Butter Blossom	Comstock Ferre	80	72
Squash	Crookneck Early Bush	Comstock Ferre	84	93
Squash	Early Prolific Straightneck	Agway	75	98
Squash	Early Prolific Straightneck	Fredonia	75	94
Squash	Early Prolific Straightneck	Northrup King	75	98
Squash	Early White Bush	Ferry Morse	75	99
Squash	Early Yellow Crookneck	Lake Valley	75	72
Squash	Yellow Crookneck	Greene Valley	75	82
Squash	Zucchini	Michael Leonard	75	90
Swiss chard	Fordhook	Michael Leonard	65	86
Swiss chard	Giant Lucullus	Comstock Ferre	87	95
Swiss chard	Perpetual Spinach	Thompson & Morgan	65	27*
Swiss chard	Rhubarb	Hart	85	91
Tomato	Beefsteak	Page	75	84
Tomato	Bonnie Best	Hart	90	97
Tomato	Cherry	Michael Leonard	75	96
Tomato	Delicious	Greene Valley	75	95
Tomato	Heinz 1370	Agway	75	89
Tomato	Marglobe	Michael Leonard	75	97
Tomato	Patio	Comstock Ferre	85	96
Tomato	Roma VF	Agway	75	97
Tomato	Rutgers	Burpee	75	99
Tomato	Rutgers	Greene Valley	75	90
Tomato	Rutgers	Michael Leonard	75	93
Turnip	Purple Top	Michael Leonard	80	100
Turnip	Purple Top White Globe	Agway	80	99
Turnip	Purple Top White Globe	American Seed	80	100

Table 1. Germination of Vegetable Seeds (continued).

Plant	Variety	Seed Company	Germination	
			Claim	Found
Turnip	Purple Top White Globe	Botzum	80	99
Turnip	Purple Top White Globe	Burpee	80	81
Turnip	Purple Top White Globe	Greene Valley	80	100
Turnip	Purple Top White Globe	Page	80	100
Turnip	Seven Top	Ferry Morse	80	100
Turnip	Seven Top	Michael Leonard	80	99
Watermelon	Sugar Baby	Comstock Ferre	82	98

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	% in Compliance Category*	
		1	2
Agway	39	100	0
American Seed	10	100	0
Bentley	10	80	20
Botzum	5	100	0
Burpee	22	100	0
Comstock Ferre	26	100	0
Ferry Morse	8	100	0
Fredonia	11	100	0
Greene Valley	26	100	0
Hart	43	100	0
Lake Valley	17	100	0
Michael Leonard	30	100	0
New England	21	100	0
Northrup King	12	100	0
Page	22	100	0
Thompson & Morgan	7	86	14
Weeks	1	0	100

*Compliance Categories:

1= meets label claims 2= does not meet label claims within allowable tolerance

Table 3--Summary by vegetable type of average percent germination claimed, that found, and set standard.

Vegetable	No. of Samples	Average % Germination		
		Claimed	Found	Standard *
Artichoke	1	62	70	60
Asparagus	1	86	87	70
Bean	12	78	95	75
Bean, Lima	1	87	90	75
Beet	18	66	88	65
Broccoli	10	78	97	75
Brussels sprout	4	71	98	70
Cabbage	16	79	94	75
Carrot	22	60	85	55
Cauliflower	6	75	95	75
Celery	2	64	91	55
Chicory	3	73	83	65
Chinese cabbage	1	75	99	75
Collards	8	84	98	80
Corn	7	80	96	75
Cucumber	14	82	97	80
Eggplant	5	72	91	60
Endive	4	75	86	70
Escarole	1	90	86	
Kale	5	78	95	75
Kohlrabi	3	80	98	75
Leek	3	60	93	60
Lettuce	35	81	93	80
Melon, Honeydew	1	93	96	75
Muskmelon	5	81	97	75
Mustard	3	75	98	75
Okra	3	50	90	50
Onion	14	71	85	70
Parsley	6	60	73	60
Parsnip	4	60	78	60
Pea	7	83	92	80
Pepper	11	58	91	55
Pumpkin	5	84	79	75
Radish	18	75	97	75
Roquette	1	75	97	
Rutabaga	3	75	98	75
Spinach	10	56	89	50
Squash	13	76	89	75
Swiss chard	4	76	75	65
Tomato	11	77	94	75
Turnip	9	80	98	80
Watermelon	1	82	98	70

* Standards are provided for by the rules and regulations of the Federal Seed Act; Blanks indicate standards are not available for that vegetable.

Table 4--Germination and Purity of Lawn Seed.

Seed Company	Seed Mixture	Purity		Germination	
		Claim	Found ^{1,2}	Claim	Found ¹
CADWELL & JONES	<i>PhD Brand Overseeding Mix</i>				
	Derby Perennial Rye	38.52		90	
	Regal Perennial Rye	38.52		90	
	Gator Perennial Rye	19.27	97.31	90	96
CADWELL & JONES	<i>Highway Mix</i>				
	Perennial Rye	19.88	18.92	90	98
	K-31 Tall Fescue	29.82	29.90	90	94
	Creeping Red Fescue	24.74	24.52	85	91
	Kentucky Bluegrass	17.72	21.35	80	64*
	Alsike Clover	4.90	3.51	87	92
CADWELL & JONES	<i>Charter Oak Seed</i>				
	Perennial Rye	24.86	20.92	90	95
	Chewings Fescue	14.67	16.43	85	81
	Kentucky Bluegrass	53.17	56.75	80	67*
OLD FOX	<i>Shadow Chewings Fescue</i>				
		98.71	99.24	97	77*
OLD FOX	<i>Athletic Field Mix</i>				
	Alliance Perennial Rye	29.25	38.97*	90	98
	Creeping Red Fescue	29.40	36.16*	91	88
	Common Kentucky Bluegrass	22.25		80	
	Merit Kentucky Bluegrass	14.72	23.87*	85	93
AGWAY	<i>Royal Green</i>				
	Calypso Perennial Rye	24.83	21.28	90	96
	Creeping Red Fescue	19.76		88	
	Pennlawn Red Fescue	9.90	31.86	88	93
	Kentucky Bluegrass	34.66		85	
	Nassau Kentucky Bluegrass	9.86	46.25	85	87
AGWAY	<i>Fall Seeding Mix</i>				
	Plus Perennial Rye	26.59		90	
	Calypso Perennial Rye	26.48		90	
	Rodeo Perennial Rye	25.75	79.30	90	97
	Kentucky Bluegrass	19.74	19.37	85	91
LOFTS	<i>Clinton Grain Speciality Mix</i>				
	Koket Chewings Fescue	24.50		85	
	Creeping Red Fescue	24.25		85	
	Pennlawn Creeping Red Fescue	24.25	72.72	85	89
	Annual Rye	14.70	14.13	90	97
	Kentucky Bluegrass	9.80	12.07	80	85

Table 4--Germination and Purity of Lawn Seed (continued).

Seed Company	Seed Mixture	Purity		Germination	
		Claim	Found ^{1,2}	Claim	Found ¹
JONATHAN GREEN	<i>Jonathan Green Drought Tough</i>				
	Mesa Tall Fescue	29.95		95	
	Bonanza Tall Fescue	29.90		95	
	Richmond Tall Fescue	29.88	87.02	95	96
	Gnome Kentucky Bluegrass	9.88	11.90	90	86
HOLDRIDGE	<i>Holdridge Contractors Mix</i>				
	Annual Rye	68.78		90	
	Perennial Rye	19.92	84.72*	90	95
	Kentucky Bluegrass	8.79	11.85	80	60*
HOLDRIDGE	<i>Holdridge Custom Mix</i>				
	Manhattan II Perennial Rye	29.29	31.01	90	98
	Creeping Red Fescue	39.36		90	
	Koket Chewings Fescue	9.89	52.01	90	84
	Kentucky Bluegrass	19.81	16.39*	90	88
STANFORD SEED	<i>Fonicello's Sun and Shade</i>				
	Patriot Perennial Rye	24.63		90	
	Aquarius Perennial Rye	24.13	45.03	90	97
	Creeping Red Fescue	24.34	26.37	90	92
	Kentucky Bluegrass	24.62	27.46	85	93

1 = Results for seeds which were separated only by genus

2 * = Does not meet label claims within the allowable tolerance

Table 5--Germination and Purity of Crop Seed

Seed Company	Seed Mixture	Purity		Germination	
		Claim	Found	Claim	Found
HART	<i>Hart's Super Pasture</i>				
	Prana Tetraploid Perennial Rye	6.81	7.28	85	87
	Potomac Orchard Grass	23.34	23.86	85	81
	Troy Kentucky Bluegrass	24.64	23.54	80	73
	Manchar Smooth Bromegrass	17.52	17.98	80	40 *
	Timothy	12.75	11.35	90	92
	Sanfoin	12.64	14.38	80	60*

* = does not meet label claims within allowable tolerance



The Connecticut Agricultural Experiment Station,
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lications; Box 1106; New Haven, Connecticut 06504. ISSN 0097-0905