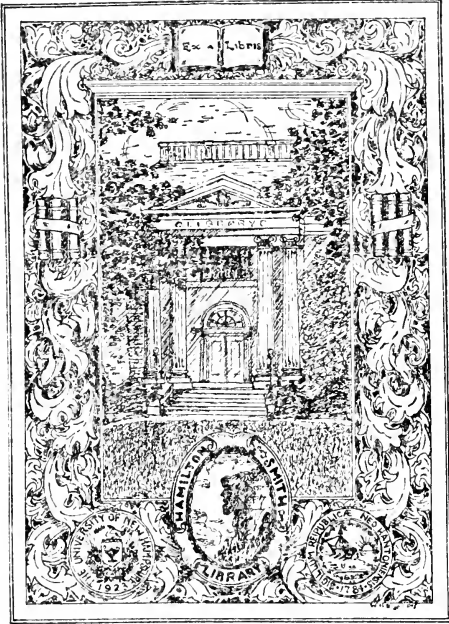


420 - 42d Ann. Rpt. - 1930
 426 - 43d Ann. Rpt. - 1931
 470 - 44th Ann. Rpt. - 1932

- 785 1/14
 OK. P.E.S.
 1/2-1/42

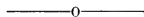


EXPERIMENT STATION LIBRARY



RESULTS OF SEED TESTS

Made July 1, 1930, to June 30, 1931



This report contains the results of the inspection for the State Department of Agriculture of three hundred eighty-five official samples collected throughout the State during the period from July 1, 1930, to June 30, 1931. These were analyzed and the results mailed to the retail dealers. In addition to these official samples, fifty-two private samples were analyzed, making a total of four hundred thirty-seven samples inspected.

The seed law does not prohibit the sale of poor seed but it does require that all seed be labelled to show its quality. The buyer is therefore protected. The purpose of the seed inspection work is to determine, within reasonable limits, whether a sample of seed is as good as it is guaranteed to be.

A certain amount of variation is to be expected in comparing the results of two or more purity analyses. For this reason a "tolerance" or variation is allowed in accordance with the following formula, applied to the guarantee given. The sample is considered as being made up of two parts, the one being the pure seed and the other the balance of the sample. The tolerance in per cent allowed for each part is two-tenths of 1 per cent plus 20 per cent of the lesser part. For instance, if a sample is guaranteed 99.60% pure seed, it may test as low as 99.32% or as high as 99.88% and would be "satisfactory." In the same way, a sample guaranteed 92.80% may test as low as 91.17% or as high as 94.43% and be "satisfactory." If a sample is found to be better than the highest figure in the tolerance, it is marked "Above" in this bulletin; if lower than the lowest figure, the actual figure is reported.

A wider tolerance for germination than for purity is allowed between the results of the test and the guarantee, as follows:

<i>Guarantee</i>	<i>Allowable variation</i>
<i>%</i>	<i>%</i>
90 or over	6
80 or over but less than 90	7
70 or over but less than 80	8
60 or over but less than 70	9
Less than 60	10

Accordingly, a sample guaranteed 92% germination is "satisfactory" if it tests 86% to 98%. A sample guaranteed 85% may fall as low as 78% or as high as 92%. If a sample tests higher than the per cent of variation allowed it is marked "Above" in this bulletin or, if it tests below the variation allowed, the actual figure is reported.

The summary table on the last page will show the general results of the seed inspection work for the year ending June 30, 1931. This year a higher percentage of the samples were found "satisfactory" or better in both purity and germination, as follows:

	Found "Satisfactory" or better	
	Purity	Germination
1930	86%	80%
1931	90%	82%

Purity and Germination Standards — Average of Ten States*

New Hampshire has no purity or germination standards. There are, however, many producers and consumers who desire to know what reasonable purity and germination may be expected for various seeds. The following table, which averages the standards of ten different states, has been prepared to supply this information.

* Published in various reports and bulletins of Alabama, Connecticut, Indiana, New York, North Carolina, Oklahoma, Oregon, South Dakota, Tennessee, and Virginia.

Field Crops	Purity %	Germina- tion %	Vegetables	Germina- tion %
Alfalfa	96	83	Asparagus	78
Canada Blue Grass	88	50	Beans	90
Kentucky Blue Grass	85	50	Beets	82
Alsike Clover	93	78	Cabbage	85
Crimson Clover	97	85	Carrot	75
Red Clover	94	85	Cauliflower	75
Sweet Clover	95	88	Celery	60
White Clover	93	77	Sweet Corn	80
Field Corn	99	92	Cucumber	85
Meadow Fescue	95	85	Lettuce	84
Red Fescue	94	80	Melon	84
Sheep's Fescue	94	80	Onion	80
Common Millet	94	86	Parsley	64
German Millet	94	86	Parsnip	62
Hungarian Millet	94	86	Pumpkin	80
Japanese Millet	92	86	Radish	85
Oats	98	90	Spinach	75
Orchard Grass	79	73	Squash	85
Field Peas	97	93	Tomato	80
Red Top	90	80	Turnip	85
Rye	98	90		
Perennial Rye Grass.....	95	85		
Italian Rye Grass.....	95	80		
Timothy	97	88		
Tobacco	98	78		

SEED INSPECTION, 1931

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guar-anteed	Found	Guar-anteed
7994	Alfalfa (Grimm)	S	99.70	S	93.70
	P. W. Bragg, Farmington				
7966	Alfalfa (Grimm)	S	99	S	95
	R. L. Costello, Portsmouth				
7887	Alfalfa (Idaho Grimm, Pine Tree)	S	99.80	S	92
	J. Cushing Co., Nashua				
8123	Alfalfa (XXX)	S	99.42	S	94
	Holbrook Grocery Co., Keene				
8158	Alfalfa (Grimm, Idaho)	S	99.44	A	70
	E. C. & W. L. Hopkins, Inc., Greenfield				
7979	Alfalfa (Grimm, Idaho, 27161)	S	99.75	A	82
	Merrimack Farmers' Exc., Inc., Derry				
8036	Alfalfa (Grimm, Idaho)	S	99.70	A	71
	Frank Pearson, Stratham				
7963	Alfalfa (2065, State Sealed & Certified Grimm)	S	99.76	A	77
	S. A. Schurman & Son, Portsmouth				
7865	Alfalfa (27177, Genuine Grimm)	S	99.48	S	94
	John B. Varick Co., Manchester				
8132	Alsike (2685, Liberty)	S	96	S	88
	Abbott Grocery Co., Keene				
8062	Alsike	A	92	S	90
	Belknap County Farmers' Exc., Laconia				
8085	Alsike (5157, Liberty)	S	96.50	S	87
	Chase Grain Mill, Plymouth				
8185	Alsike (Pan American)	S	97.50	S	90
	F. W. Clark, Wilton				
8247	Alsike (271, Super)	S	96	A	90
	Clark & Richardson, Inc., Lisbon				
8243	Alsike (21878, Pine Tree)	S	98.35	S	94
	G. F. Clement & Son, Lisbon				
8025	Alsike (5157, Liberty)	S	96.50	S	87
	Freeman Carson, Rochester				
8210	Alsike (2155, Ace)	S	95.80	S	93
	G. B. Currier Co., Inc., Colebrook				
7901	Alsike (21995, Ace)	S	95	S	90
	J. Cushing Co., Nashua				
8234	Alsike (Pan American)	82.09	97	67.5	90
	The Depot Store, Littleton				
7952	Alsike (Pan American)	S	97.69	S	90
	S. A. Dow & Son, North Hampton				
7980	Alsike (Pan American)	S	97	S	90
	W. E. Dunbar Sons, Manchester				
8173	Alsike (White Min., Extra Fancy)	S	97	79	93
	J. H. Fitzgerald, East Jaffrey				
8002	Alsike (Pan American)	S	98	69.5	90
	E. C. Foss & Co., Rochester				
8141	Alsike	S	94	70	86
	Goodnow, Derby & Harlow, Henniker				
8094	Alsike (5395, Liberty)	S	97.10	A	85
	C. J. Goss, Lakeport				
7894	Alsike (21946)	A	92	S	90
	Hill Hardware & Paint Co., Nashua				
8159	Alsike (21930, Pine Tree)	S	98.15	A	83
	E. C. & W. L. Hopkins, Inc., Greenfield				
8117	Alsike (Pan American)	S	97	S	90
	Hosmer Brothers, Tilton				

A=Above

S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guar- anteed	Found	Guar- anteed
8119	Alsike (Pan American) Hosmer Brothers, Tilton	S	97.97	S	83
8072	Alsike E. J. Keegan & Co., Franklin	S	95	28	90
7930	Alsike (21935, Pine Tree) Merrimack Farmers' Exe., Inc., Manchester	S	98	S	94
7905	Alsike (Pan American) Nashua Grain Co., Nashua	S	97	S	90
8009	Alsike (Eureka) F. W. Neal & Co., Dover	S	98	72.5	90
7973	Alsike (Pan American) W. O. Patten, Londonderry	S	98.36	S	90
8236	Alsike (Pan American) Pike & Gale, Littleton	S	97.50	S	90
8150	Alsike (21987, Ace) W. N. Potter Grain Stores, Inc., Winchester	S	94.45	S	88
8048	Alsike (Pan American) Rand & Dearborn, Laconia	S	97	S	90
8047	Alsike (Pan American) H. C. Sanborn, Laconia	S	97.70	S	90
7991	Alsike (Ace) J. H. Seavey, Dover	S	94.45	A	85
8218	Alsike (2155, Ace) F. B. Spaulding Co., Lancaster	S	95.80	S	93
8057	Alsike (Liberty, 2682) C. P. Stevens Co., Franklin	S	97.04	S	89
8019	Alsike Strafford Co., Grain Mill, Rochester	A	92	S	90
7917	Alsike (21934, Ace) Thompson & Hoague Co., Concord	S	95.25	S	90
8030	Alsike A. J. Turcotte, Newmarket	S	98	28	90
7871	Alsike (21933, Pine Tree) John B. Varick Co., Manchester	S	98.30	S	94
8200	Barley (Hygrade, 6-rowed) F. P. Brown, Whitefield	S	99	S	97
8080	Barley (Hygrade, 6-rowed) Chase Grain Mill, Plymouth	S	99	S	97
8162	Barley (Bald) Hopkins Bros. & Belcher, Greenfield	S	90.15	55.5	90
7981	Barley (71355, 6-row) Merrimack Farmers' Exe., Inc., Derry	S	99.28	S	96
8051	Barley (744, Western 6-row) J. H. Morrill, Laconia	S	99	S	96
7989	Barley (6-row) F. W. Neal & Co., Dover	S	99	S	90
8101	Barley C. N. Roberts, Meredith	S	98	S	90
8012	Barley (2-row) J. H. Seavey, Dover	S	99	S	98
8219	Barley (6-row) F. B. Spaulding Co., Lancaster	S	98	S	90
7912	Barley (71204, 6-row) Thompson & Hoague Co., Concord	S	99.41	S	91
7881	Barley (5452, 6-row, Fancy Selected) John B. Varick Co., Manchester	S	98	S	92
7942	Barley (6-rowed) W. A. Young, Exeter	S	97.50	S	95

A=Above

S=Satisfactory

SEED INSPECTION, 1931 - Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guar- anteed	Found	Guar- anteed
7939	Bluegrass, Kentucky	✓	78	43.5	70
	Hilliard & Kimball, Exeter				
7933	Bluegrass, Kentucky (632156)	✓	82.70	✓	67
	Manchester Hardware Co., Manchester				
7897	Bluegrass, Kentucky	✓	80	57	90
	Nashua Grain Co., Nashua				
8013	Bluegrass, Kentucky (32385)	✓	82.80	50.5	74
	J. H. Seavey, Dover				
7947	Bluegrass, Kentucky	✓	83	51.5	70
	W. A. Young, Exeter				
8233	Buckwheat, Japanese	✓	99.23	✓	96
	Holbrook Grocery Co., Woodsville				
7916	Buckwheat, Japanese (7697)	✓	99.85	✓	94
	Thompson & Hoague Co., Concord				
7877	Buckwheat, Japanese (5298)	✓	98	✓	90
	John B. Varick Co., Manchester				
7913	Canada Field Peas (85236)	✓	99.50	✓	85
	Thompson & Hoague Co., Concord				
7879	Canada Field Peas (3153)	✓	98	✓	92
	John B. Varick Co., Manchester				
7962	Millet, Golden	✓	98.30	73.5	90
	S. A. Schurman & Son, Portsmouth				
8146	Millet, Hungarian (2918)	✓	99	✓	88
	P. E. Belisle, Hillsborough				
8068	Millet, Hungarian	94.50	98.36	✓	80
	Belknap Co. Farmers' Exc., Laconia				
7985	Millet, Hungarian	✓	99.16	✓	90
	Bell Hardware Co., Derry				
7995	Millet, Hungarian	A	98	✓	88
	P. W. Bragg, Farmington				
8112	Millet, Hungarian	✓	99	70	84
	O. A. Brown, Ashland				
8169	Millet, Hungarian	✓	98.10	✓	92
	W. A. Bryer & Co., Peterboro				
8083	Millet, Hungarian (3088)	A	99	✓	88
	Chase Grain Mill, Plymouth				
8248	Millet, Hungarian (30700)	97.81	99.10	✓	90
	Clark & Richardson, Inc., Lisbon				
8023	Millet, Hungarian (2045)	✓	98.93	✓	88
	Freeman Corson, Rochester				
8209	Millet, Hungarian (47104)	✓	98.44	✓	86
	G. B. Currier Co., Inc., Colebrook				
8138	Millet, Hungarian (47101)	✓	99.20	✓	90
	J. Cushing Co., Keene				
8189	Millet, Hungarian (4792)	✓	98.18	✓	90
	J. Cushing Co., Milford				
8192	Millet, Hungarian (47113)	✓	97	✓	82
	J. Cushing Co., Milford				
7903	Millet, Hungarian (47-54)	✓	98.92	✓	85
	J. Cushing Co., Nashua				
7969	Millet, Hungarian (Fullworth)	✓	97.88	70	96
	J. Cushing Co., Portsmouth				
8235	Millet, Hungarian	97.70	99.00	✓	90
	The Depot Store, Littleton				
7951	Millet, Hungarian (Fancy)	87.74	99.00	81	90
	S. A. Dow & Son, North Hampton				
7982	Millet, Hungarian (Fancy)	✓	98.74	✓	90
	W. E. Dunbar Sons, Manchester				
8140	Millet, Hungarian (Fancy)	✓	99	75.5	90
	Goodnow, Derby & Harlow, Henniker				

A—Above

S—Satisfactory

RESULTS OF SEED TESTS, 1931

7

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guar- anteed	Found	Guar- anteed
8042	Millet, Hungarian (2434, Fancy) John H. Griffin, Newmarket	A	99	8	90
8124	Millet, Hungarian Holbrook Grocery Co., Keene	S	99.40	8	90
8226	Millet, Hungarian (47116)..... Holbrook Grocery Co., Woodsville	S	97.82	8	86
8155	Millet, Hungarian (47114) E. C. & W. L. Hopkins, Inc., Greenfield	S	99.40	8	90
8108	Millet, Hungarian Meredith Grain Co., Meredith	97.67	99	75	90
7918	Millet, Hungarian (Fancy) J. J. Moreau & Son, Manchester	S	99	52	90
8052	Millet, Hungarian J. H. Morrill, Laconia	S	99.40	8	90
7976	Millet, Hungarian W. O. Patten, Londonderry	S	99	8	90
7910	Millet, Hungarian (Fancy) Peterson Hardware Co., Nashua	97.24	99	79.5	90
8151	Millet, Hungarian (4792) W. N. Potter Grain Stores, Inc., Winchester	S	98.18	56	90
7965	Millet, Hungarian (Fancy) S. A. Schurman & Son, Portsmouth	S	98.74	8	90
8204	Millet, Hungarian (47104) Frank Smith Co., Lancaster	S	98.44	8	86
8056	Millet, Hungarian C. P. Stevens Co., Franklin	97.64	99	8	90
8018	Millet, Hungarian Strafford Co. Grain Mill, Rochester	A	98.36	8	80
8033	Millet, Hungarian A. J. Turcotte, Newmarket	S	98	9	90
7869	Millet, Hungarian (5075) John B. Varick Co., Manchester	S	99.14	8	87
7870	Millet, Hungarian (6663) John B. Varick Co., Manchester	S	99.54	64.5	82
8131	Millet, Japanese (1028) Abbott Grocery Co., Keene	96.11	97.31	8	90
8144	Millet, Japanese (2929) P. E. Belisle, Hillsborough	S	98.79	8	90
8064	Millet, Japanese Belknap Co. Farmers' Exc., Laconia	87.97	97.52	8	85
7986	Millet, Japanese Bell Hardware Co., Derry	95.68	98	8	90
8000	Millet, Japanese P. W. Bragg, Farmington	S	97	8	85
8199	Millet, Japanese F. P. Brown, Whitefield	S	97	8	90
8105	Millet, Japanese (Fancy) W. B. Brown, Ashland	95.25	98	8	90
8086	Millet, Japanese (3224) Chase Grain Mill, Plymouth	S	98.19	69	82
8187	Millet, Japanese (1024) F. W. Clark, Wilton	S	98.95	8	84
8232	Millet, Japanese (30702) Clark & Richardson, Inc., Lisbon	96.98	97.78	8	87
8208	Millet, Japanese (44120) G. B. Currier Co., Inc., Colebrook	S	97.53	71	85
8213	Millet, Japanese G. B. Currier Co., Inc., Colebrook	S	97.68	55.5	90

A=Above

S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guar- anteed	Found	Guar- anteed
8190	Millet, Japanese	8	96.50	8	85
	J. Cushing Co., Milford				
7889	Millet, Japanese (44107)	8	97.30	8	90
	J. Cushing Co., Nashua				
7953	Millet, Japanese (Fancy)	96.37	98	8	90
	S. A. Dow & Son, North Hampton				
8003	Millet, Japanese (Fancy)	8	97	8	90
	E. C. Foss & Co., Rochester				
8096	Millet, Japanese	8	97.52	71	85
	Gammons Co., Plymouth				
8037	Millet, Japanese (Fancy)	A	97	8	90
	John H. Griffin, Newmarket				
7900	Millet, Japanese	90.80	98	60	80
	Hill Hardware & Paint Co., Nashua				
8161	Millet, Japanese (Fancy)	8	98	8	90
	Hopkins Brothers & Belcher, Greenfield				
8157	Millet, Japanese (39064)	8	98.28	8	89
	E. C. & W. L. Hopkins, Inc., Greenfield				
8073	Millet, Japanese	96.14	98	8	88
	E. J. Keegan & Co., Franklin				
8107	Millet, Japanese (Fancy)	94.97	98	8	90
	Meredith Grain Co., Meredith				
7924	Millet, Japanese (4495)	94.18	95.90	8	94
	Merrimack Farmers' Exch., Inc., Manchester				
8054	Millet, Japanese	8	98.25	8	89
	J. H. Morrill, Laconia				
8089	Millet, Japanese (Fancy)	96.35	98	8	90
	Muzzey & Hopkins, Lakeport				
8242	Millet, Japanese	8	97.50	8	90
	Pike & Gale, Littleton				
8152	Millet, Japanese (4482)	8	96.66	8	90
	W. N. Potter Grain Stores, Inc., Winchester				
7964	Millet, Japanese (Fancy)	8	98	8	90
	S. A. Schurman & Son, Portsmouth				
8011	Millet, Japanese (44118)	8	96.57	8	85
	J. H. Seavey, Dover				
8197	Millet, Japanese	8	97.81	8	87
	Frank Smith Co., Lancaster				
8077	Millet, Japanese	8	96.20	75	90
	C. P. Stevens Co., Franklin				
8020	Millet, Japanese	8	97.52	70	85
	Strafford Co. Grain Mill, Rochester				
7911	Millet, Japanese (44109)	8	96	8	91
	Thompson & Hoague Co., Concord				
8031	Millet, Japanese	8	95	63	86
	A. J. Turcotte, Newmarket				
7868	Millet, Japanese (1024)	8	98.95	8	84
	John B. Varick Co., Manchester				
7943	Millet, Japanese (1028)	95.52	97.31	77	90
	W. A. Young, Exeter				
8035	Mixture, Hayland (No. 3)	8	98.80	A	83
	Frank Pearson, Stratham				
8069	Oats (Barco Brand)	8	99.50	8	96
	Albert H. Barney, Franklin				
8067	Oats (Mammoth Cluster)	8	99	8	99
	Belknap Co. Farmers' Exch., Laconia				

A=Above

S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guar- anteed	Found	Guar- anteed
8034	Oats (Swedish Type) Harry G. Brierley, Stratham	S	99.50	S	94
8081	Oats (Wirthmore Fancy, Northern Grown) Chase Grain Mill, Plymouth	S	99	S	97
8186	Oats (Heavy Domestic) F. W. Clark, Wilton	S	98.20	S	92
8230	Oats (Fancy Swedish) G. F. Clement & Son, Lisbon	S	99	S	95
8216	Oats (Xtragood) G. B. Currier Co., Inc., Colebrook	S	98	S	97
7987	Oats (Ohio 40-42 lbs.) S. A. Dow & Son, North Hampton	97.78	90.5
8171	Oats J. H. Fitzgerald, East Jaffrey	S	99.30	S	91
8029	Oats (Abundance) John H. Griffin, Newmarket	S	99	S	99
8163	Oats (Granite State) Hopkins Bros. & Belcher, Greenfield	S	93	S	92
8006	Oats (Pennant) J. Jones & Son, Alton	S	99.50	S	96
8098	Oats (Fancy Swedish Selected) Meredith Grain Warehouse, Meredith	S	99	S	98
7977	Oats (Swedish Select) Merrimaek Farmers' Exc., Inc., Derry	S	99	S	95
7984	Oats (Natural) Merrimaek Farmers' Exc., Inc., Derry	S	95	S	95
7927	Oats (Swedish Type) J. J. Moreau & Son, Manchester	S	98	S	90
8240	Oats (Pennant) Pike & Gale, Littleton	S	99.50	S	98
8100	Oats (Excelsior) C. N. Roberts, Meredith	S	98	S	95
8043	Oats (White Mtn.) H. C. Sanborn, Laconia	S	99	S	95
7993	Oats (2140, Swedish Type) J. H. Seavey, Dover	S	99	90	98
8055	Oats (73-14) C. P. Stevens Co., Franklin	S	99	S	90
7886	Oats (5323, Fancy Selected) John B. Varick Co., Manchester	S	98.28	S	92
7967	Oats (Pennant) B. M. Varrill Grain Co., Portsmouth	S	99.50	S	98
7990	Rape (Dwarf Essex) F. W. Neal & Co., Dover	S	99	S	94
8076	Rape (Dwarf Essex, 5-9-17) C. P. Stevens Co., Franklin	S	98	S	90
8130	Red Clover (5331, Liberty Medium).... Abbott Grocery Co., Keene	S	99	S	88
8065	Red Clover (Medium) Belknap Co. Farmers' Exc., Laconia	S	99.18	A	86
8202	Red Clover (2456, Medium Pine Tree) F. P. Brown, Whitefield	S	99	A	83
8114	Red Clover (White Mtn., Extra Fancy, Medium) W. B. Brown, Ashland	A	99	S	93
8116	Red Clover (Pine Tree) W. B. Brown, Ashland	S	99.75	82.5	94
8082	Red Clover (9304, Fullworth Medium) Chase Grain Mill, Plymouth	S	99.66	S	90

A=Above

S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8231	Red Clover (Fullworth Clark & Richardson, Inc., Lisbon	S	99.66	S	90
8246	Red Clover (24650, Medium Pine Tree) G. F. Clement & Son, Lisbon	S	99.40	S	94
7970	Red Clover (Pan American, Imported) R. L. Costello, Portsmouth	S	98	S	90
8214	Red Clover (2446, Ace, Medium) G. B. Currier Co., Inc., Colebrook	S	98.50	S	90
8137	Red Clover (24420, Special Domestic) J. Cushing Co., Keene	94.25	96	S	90
8193	Red Clover (24122, Medium) J. Cushing Co., Milford	S	98.85	A	82
7895	Red Clover (Medium Ace, 248948) J. Cushing Co., Nashua	A	98	S	92
8179	Red Clover (Northern European, XXX) J. Cushing Co., Peterboro	S	98.80	S	90
8183	Red Clover (24890, Medium Ace) J. Cushing Co., Peterboro	A	98	S	92
8237	Red Clover (Pan American) The Depot Store, Littleton	S	99	S	90
7950	Red Clover (5067, Fancy Domestic).... S. A. Dow & Son, North Hampton	S	99.10	S	89
8136	Red Clover George H. Eames & Son, Keene	S	99.50	S	94
8166	Red Clover (White Mtn., Extra Fancy Medium) J. H. Fitzgerald, East Jaffrey	S	99.50	S	95
8005	Red Clover (Pan American, French).... E. C. Foss Co., Rochester	S	98	39	90
8143	Red Clover (White Mtn., Medium Extra Fancy) Goodnow, Derby & Harlow, Henniker	S	99	S	94
8093	Red Clover (5386, Liberty) C. J. Goss, Lakeport	98.59	99.24	A	85
8038	Red Clover (24650, Medium) John H. Griffin, Newmarket	S	99.40	S	94
8196	Red Clover (Medium, Pine Tree) Hatch Hardware Co., Milford	S	99.28	S	95
7893	Red Clover (24440) Hill Hardware & Paint Co., Nashua	S	99.18	S	86
8128	Red Clover (XXX) Holbrook Grocery Co., Keene	S	99.78	S	98
8222	Red Clover (2452, Med. White Mtn., Extra Fancy) Holbrook Grocery Co., Woodsville	S	99	A	81
8225	Red Clover (XXX) Holbrook Grocery Co., Woodsville	A	97	S	92
8165	Red Clover (Pan American, Domestic) Hopkins Bros. & Belcher, Greenfield	96.43	98	75.5	92
8156	Red Clover (24706, Native Medium Pine Tree) E. C. & W. L. Hopkins, Inc., Greenfield	S	99.26	A	80
8103	Red Clover (Pan American) Hosmer Brothers, Tilton	S	99	66.5	88
7911	Red Clover (24722, Medium Pine Tree) Manchester Hardware Co., Manchester	S	99.44	S	94
8106	Red Clover (Pan American Domestic) Meredith Grain Co., Meredith	98.25	99	S	90

A=Above

S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guar- anteed	Found	Guar- anteed
7923	Red Clover (23703, Mammoth Pine Tree) Merrimack Farmers' Exc., Inc., Manchester	S	99.48	S	93
7931	Red Clover (24733, Medium Pine Tree Merrimack Farmers' Exc., Inc., Manchester	S	99.38	S	94
8070	Red Clover (XXX) Merrimack Fuel & Feed Co., Franklin	A	98	54	90
7934	Red Clover (Pan American, Imported) J. J. Moreau & Son, Manchester	S	99	S	84
8053	Red Clover (24706, Medium)..... J. H. Morrill, Laconia	S	99.26	A	80
7896	Red Clover (Pan American) Nashua Grain Co., Nashua	S	98	81	90
8010	Red Clover (Pan American Domestic) F. W. Neal & Co., Dover	S	98.50	52.5	90
8206	Red Clover (2443, Medium Pine Tree) D. A. Noyes & Son, Colebrook	S	99	A	83
8207	Red Clover (2459, Medium Ace) D. A. Noyes & Son, Colebrook	S	99.18	A	83
7974	Red Clover (Pan American, French).... W. O. Patten, Londonderry	S	99.25	S	90
7908	Red Clover (Pan American) Peterson's Hardware Co., Nashua	S	98	S	90
8241	Red Clover (Pan American, Domestic) Pike & Gale, Littleton	S	99	S	90
8078	Red Clover (Medium) J. P. Pitman & Co., Laconia	99.52	32
8148	Red Clover (24940, Medium Ace) W. N. Potter Grain Stores, Inc., Winchester	S	98.30	S	92
8205	Red Clover (24365, Medium Ace) Frank Smith Co., Lancaster	A	98	S	90
8217	Red Clover (2446, Medium Ace) F. B. Spaulding Co., Lancaster	S	98.50	S	90
8058	Red Clover (Liberty, Medium, 5356).... C. P. Stevens Co., Franklin	S	99	A	85
8021	Red Clover (Medium) Strafford Co. Grain Mill, Rochester	98.51	99.18	S	86
8046	Red Clover (Pan American, Imported) H. C. Sanborn, Laconia	S	99.25	64.5	90
7992	Red Clover (02433, Medium)..... J. H. Seavey, Dover	S	97.94	S	89
7936	Red Clover (24728, Medium Ace) Thompson & Hoagne Co., Concord	S	98.18	S	92
7872	Red Clover (24725, Medium Pine Tree) John B. Varick Co., Manchester	S	99.28	S	95
7875	Red Clover (Pine Tree, Mammoth Native) John B. Varick Co., Manchester	S	99.25	54	92
8227	Red Clover (24997, Medium Pine Tree) Woodsville Grain Co., Woodsville	S	99.52	A	81
7948	Red Clover (Pan American, Imported) W. A. Young, Exeter	S	98	77	90
8129	Red Top (Fancy) Abbott Grocery Co., Keene	S	90	S	90
8066	Red Top (No. 1) Pelknap Co. Farmers' Exc., Laconia	S	90	S	90
8007	Red Top P. W. Bragg Farmington	S	90	68	90

A=Above

S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guar- anteed	Found	Guar- anteed
8203	Red Top (30302, Ace)..... F. P. Brown, Whitefield	S	90	S	90
8110	Red Top O. A. Brown, Ashland	S	92	S	90
8115	Red Top (White Mtn., Extra Fancy) . W. B. Brown, Ashland	A	93	76	92
8176	Red Top (Pan Americann) W. A. Bryer & Co., Peterboro	S	92	81	90
8084	Red Top (30820) Chase Grain Mill, Plymouth	86.48	92	85.5	96
8245	Red Top (Ace, Fancy) G. F. Clement & Son, Lisbon	83.23	90	76	90
7956	Red Top (Fancy) The E. G. Cole Co., Hampton	91.70	96	S	94
8024	Red Top (3987, Fancy) Freeman Corson, Rochester	S	92	71	90
7971	Red Top (Choice) R. L. Costello, Portsmouth	86.39	93	S	90
8215	Red Top (03016, Fancy Ace) G. B. Currier Co., Inc., Colebrook	S	91	S	90
7959	Red Top (30609, Fancy Ace) J. Cushing Co., Exeter	S	90	S	90
8188	Red Top (30609, Ace Medium) J. Cushing Co., Milford	S	90	S	90
7906	Red Top (30609, Fancy Ace) J. Cushing Co., Nashua	S	90	S	90
8181	Red Top (30609, Fancy Ace) J. Cushing Co., Peterboro	S	90	77	90
8238	Red Top (XX) The Depot Store, Littleton	S	85	S	90
7955	Red Top (Pan Americann) S. A. Dow & Son, North Hampton	A	92	S	90
8135	Red Top (White Mtn.) Geo. H. Eames & Son, Keene	S	93	S	90
8172	Red Top (White Mtn., Extra Fancy) . J. H. Fitzgerald, East Jaffrey	S	95	S	90
8004	Red Top (Pan Americann) E. C. Foss Company, Rochester	A	92	S	90
8095	Red Top (No. 1) Gammons Co., Plymouth	S	90	S	90
8168	Red Top (30571, Fancy Pine Tree) Goodnow Bros. Co., East Jaffrey	S	92.60	S	90
8175	Red Top (30355, Fancy Pine Tree) Goodnow & Derby, Peterboro	S	93	S	90
8039	Red Top (30556, Ace) John H. Griffin, Newmarket	S	90.30	S	90
8195	Red Top (30584, Ace Fancy) Hatch Hardware Co., Milford	S	90.70	S	90
7902	Red Top Hill Hardware & Paint Co., Nashua	84.10	90	S	90
7941	Red Top (Pan Americann) Hilliard & Kimball, Exeter	S	92	69.5	90
8122	Red Top (XX, Fancy) Hollbrook Grocery Co., Keene	S	86	S	85
8125	Red Top (XXX) Hollbrook Grocery Co., Keene	A	87	70	88
8154	Red Top (30571, Pine Tree) E. C. & W. L. Hopkins, Inc., Greenfield	S	92.06	S	90

A=Above

S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guar- anteed	Found	Guar- anteed
8118	Red Top (Pan American) Hosmer Bros., Tilton	S	92	S	90
7996	Red Top (Pan American) J. Jones & Son, Alton	S	92	80	90
8071	Red Top (Pan American) E. J. Keegan & Co., Franklin	S	92	78	90
7926	Red Top (30582, Fancy Ace) Manchester Hardware Co., Manchester	A	90.10	S	90
8102	Red Top (Pan American) Meredith Grain Co., Meredith	S	92	S	90
7935	Red Top (30571, Fancy Pine Tree).... Merrimack Farmers' Exc., Inc., Manchester	S	92.60	S	90
8090	Red Top (Pan American) Muzzey & Hopkins, Lakeport	S	92	78	90
7899	Red Top (Fancy) Nashua Grain Co., Nashua	S	92	S	90
7907	Red Top (30588, Fancy No. 1) Nashua Grain Co., Nashua	S	90	S	90
7988	Red Top (Pan American) F. W. Neal & Co., Dover	S	92	80.5	90
7972	Red Top (Pan American) W. F. Neal, Derry	88.99	92	S	90
7975	Red Top (Imperator) W. O. Patten, Londonderry	S	90	S	90
7909	Red Top (Pan American, Fancy) Peterson Hardware Co., Nashua	S	92	S	90
8087	Red Top (5244, Fancy) A. M. Rand, Plymouth	S	90.70	S	90
8049	Red Top (Pan American) Rand & Dearborn, Laconia	S	92	79.5	90
8045	Red Top (Fancy) H. C. Sanborn, Laconia	88.91	92	S	90
7961	Red Top (Pan American) S. A. Schurman & Son, Portsmouth	S	92	S	90
8015	Red Top (030195-95) J. H. Seavey, Dover	S	90.20	S	90
8059	Red Top (Fancy, 5385) C. P. Stevens Co., Franklin	83.10	90.70	S	90
8017	Red Top (Gem) Strafford Co. Grain Mill, Rochester	S	90.40	S	90
7922	Red Top (30584, Fancy Ace) Thompson & Hoague Co., Concord	A	90.70	S	90
8032	Red Top (Choice) A. J. Turcotte, Newmarket	S	90	74.5	96
7864	Red Top (26144, Fancy)..... John B. Varick Co., Manchester	S	90.70	S	90
7874	Red Top (2094, Unhulled) John B. Varick Co., Manchester	S	58	57	80
7880	Red Top (712355, Prime) John B. Varick Co., Manchester	S	94	S	92
7882	Red Top (30584, Fancy Ace) John B. Varick Co., Manchester	S	90.70	S	90
7885	Red Top (30571, Fancy Pine Tree).... John B. Varick Co., Manchester	S	92.60	S	90
8228	Red Top (030198, Ace Fancy) Woodsville Grain Co., Woodsville	S	90.20	76	90

A=Above

S=Satisfactory

SEED INSPECTION, 1931 -- Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guar- anteed	Found	Guar- anteed
7945	Red Top (Eureka)	S	96	S	90
	W. A. Young, Exeter				
7890	Rye (74158, Spring)	S	96	S	85
	J. Cushing Co., Nashua				
8040	Rye (Rosen Winter)	S	98	S	90
	John H. Griffin, Newmarket				
7929	Rye, Spring	S	98	67	90
	J. J. Moreau & Son, Manchester				
8099	Rye, Spring	S	98	S	90
	C. N. Roberts, Meredith				
8198	Rye, 74317, Spring	S	98	73	96
	Frank Smith Co., Lancaster				
8075	Rye, Spring	S	97	66	90
	C. P. Stevens Co., Franklin				
7949	Soy Beans (84223, Wilson Black)	S	99.50	S	87
	Merrimack Farmers' Exc., Inc., Derry				
7925	Soy Beans (83719)	S	98.50	S	90
	Merrimack Farmers' Exc., Inc., Manchester				
7873	Soy Beans (2642, Black Wilson)	S	98	S	95
	John B. Varick Co., Manchester				
8063	Sweet Clover, White	S	99	S	82
	Belknap County Farmers' Exc., Laconia				
8026	Sweet Clover, White	A	96	S	90
	Freeman Corson, Rochester				
8153	Sweet Clover, (25896, White Blossom, Pine Tree)	S	99.34	S	81
	E. C. & W. L. Hopkins, Inc., Greenfield				
7878	Sweet Clover (5151, White Blossom) John B. Varick Co., Manchester	S	99.70	A	79
8133	Timothy (Bison)	97.02	98	75.5	90
	Abbott Grocery Co., Keene				
8145	Timothy (6165, Liberty)	S	99.60	73.5	94.50
	P. E. Belisle, Hillsborough				
8147	Timothy (2931, Liberty)	99.10	99.60	S	92
	P. E. Belisle, Hillsborough				
8061	Timothy (Bay State)	S	99.65	S	95
	Belknap Co. Farmers' Exc., Laconia				
8001	Timothy	S	98	S	90
	P. W. Bragg, Farmington				
8201	Timothy (67091, Pine Tree)	S	99.60	S	94
	F. P. Brown, Whitefield				
8104	Timothy (Pine Tree)	S	99.65	S	95
	O. A. Brown, Ashland				
8113	Timothy (White Mtn., Extra Fancy) W. B. Brown, Ashland	S	99.65	S	95
8177	Timothy (Pan American)	S	99.60	S	90
	W. A. Bryer & Co., Peterboro				
8079	Timothy (30533)	S	99.75	S	93
	Chase Grain Mill, Plymouth				
8184	Timothy (66729, Pine Tree)	S	99.65	S	95
	F. W. Clark, Wilton				
8244	Timothy (69638, Bison)	S	98	S	90
	G. F. Clement & Son, Lisbon				
8022	Timothy (5148, Liberty)	S	99.60	S	92
	Freeman Corson, Rochester				
7968	Timothy (Pine Tree)	A	99	S	90
	R. L. Costello, Portsmouth				

A=Above

S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guar- anteed	Found	Guar- anteed
7958	Timothy (66955, Bison) J. Cushing Co., Exeter	S	98.10	S	92
8191	Timothy (66956, Pine Tree) J. Cushing Co., Milford	S	99.65	S	94
7904	Timothy (66956, Pine Tree) J. Cushing Co., Nashua	S	99.65	S	94
8178	Timothy (67440, Monadnock) J. Cushing Co., Peterboro	S	99.60	S	94
8180	Timothy (66904) J. Cushing Co., Peterboro	S	98	S	91
8182	Timothy (67541, Special) J. Cushing Co., Peterboro	A	97	S	90
8211	Timothy (67109, Special) G. B. Currier Co., Colebrook	S	97	S	91
8212	Timothy (67100, XX) G. B. Currier Co., Inc., Colebrook	A	98	S	91
8239	Timothy (Gold Medal) The Depot Store, Littleton	S	99.80	S	90
7951	Timothy (Pan American) S. A. Dow & Son, North Hampton	S	99.60	S	90
7983	Timothy (Pan American) W. E. Dunbar Sons, Manchester	S	99.60	S	90
8134	Timothy (White Mtn.) Geo. H. Eames & Son, Keene	S	99.65	S	95
7999	Timothy (Pan American) E. C. Foss Co., Rochester	S	99.60	S	90
8097	Timothy (68652, Bison) Gammons Co., Plymouth	S	98	S	90
8167	Timothy (Monadnock) Goodnow Bros. Co., East Jaffrey	S	99.60	S	90
8170	Timothy (6604, Liberty) Goodnow & Derby, Peterboro	S	99.60	S	95.50
8174	Timothy (Pan American) Goodnow & Derby, Peterboro	S	99.60	S	90
8142	Timothy (67024, Pine Tree) Goodnow, Derby & Harlow, Henniker	S	99.60	S	94
8092	Timothy (5117, Liberty) C. J. Goss, Lakeport	S	99.60	S	90
8041	Timothy John H. Griffin, Newmarket	S	99.50	S	95
8194	Timothy (66729, Pine Tree) Hatch Hardware Co., Milford	S	99.65	S	95
7888	Timothy (66652, Gem) Hill Hardware & Paint Co., Nashua	S	98	S	90
7940	Timothy (Pine Tree) Hilliard & Kimball, Exeter	S	99.65	S	95
8120	Timothy (XXX) Holbrook Grocery Co., Keene	S	99	S	93
8121	Timothy (Monadnock) Holbrook Grocery Co., Keene	S	99.50	S	94
8126	Timothy (White Mtn.) Holbrook Grocery Co., Keene	S	99.85	S	95
8127	Timothy (67024, Pine Tree) Holbrook Grocery Co., Keene	S	99.60	S	94
8220	Timothy (67077, White Mtn., Extra Fancy) Holbrook Grocery Co., Woodsville	S	99.65	S	95
8223	Timothy (67090, Pine Tree) Holbrook Grocery Co., Woodsville	S	99.60	S	94

A=Above

S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8224	Timothy (67109, Special) Holbrook Grocery Co., Woodsville	✓	97	✓	91
8164	Timothy (Pan American)	✓	99.60	✓	90
8160	Timothy (66800, Pine Tree) E. C. & W. L. Hopkins, Inc., Greenfield	✓	99.60	✓	94
7997	Timothy (Pan American)	✓	99.60	✓	90
7998	Timothy (Bison)	✓	98	✓	90
8074	Timothy (Pan American)	✓	99.60	76.3	90
7957	Timothy (68652, Gem)	✓	98	✓	90
7915	Timothy (66772, Pine Tree) Manchester Hardware Co., Manchester	✓	99.60	✓	94
8109	Timothy (Pan American)	✓	99.60	✓	90
7978	Timothy (66274, Pine Tree) Merrimack Farmers' Exc., Inc., Derry	✓	99.60	✓	95
7932	Timothy (Pan American)	✓	99.60	✓	90
8050	Timothy (Pine Tree, 66794)	✓	99.65	✓	95
8091	Timothy (Pan American)	✓	99.50	✓	90
7892	Timothy (66294, Bay State) Nashua Grain Co., Nashua	✓	99.65	✓	95
7898	Timothy (Pan American)	✓	99.60	✓	90
8008	Timothy (Pan American)	✓	99.60	✓	90
7891	Timothy (Pan American)	✓	99.60	✓	92
8149	Timothy (66979, Pine Tree) W. N. Potter Grain Stores, Inc., Winchester	✓	99.60	✓	95
8088	Timothy (5380, Liberty)	✓	99.60	✓	90
8044	Timothy (Pan American)	✓	99.60	✓	90
7960	Timothy (Pan American)	✓	99.60	✓	90
8014	Timothy (67004)	✓	99.65	✓	95
8060	Timothy (66-559, Ace)	✓	99.60	✓	90
8016	Timothy (Bay State)	✓	99.65	✓	95
7919	Timothy (66729, Pine Tree) Thompson & Hoague Co., Concord	✓	99.65	✓	95
7920	Timothy (66493, Pine Tree) Thompson & Hoague Co., Concord	✓	99.60	✓	94
7921	Timothy (66717, Pine Tree) Thompson & Hoague Co., Concord	✓	99.65	✓	95
8028	Timothy	✓	98	✓	91

A=Above

S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guar- anteed	Found	Guar- anteed
7866	Timothy (66729, Pine Tree)	S	99.65	S	95
	John B. Varick Co., Manchester				
7884	Timothy (5303, Liberty)	S	99.60	S	90
	John B. Varick Co., Manchester				
8111	Timothy (66729, Pine Tree)	S	99.65	S	95
	Weeks & Smith, Meredith				
8229	Timothy (67021, Pine Tree)	S	99.60	S	94
	Woodsville Grain Co., Woodsville				
7944	Timothy (69865)	A	98	S	95
	W. A. Young, Exeter				
7946	Timothy (Pan American)	S	99.60	S	90
	W. A. Young, Exeter				
7876	Vetch (5145, Winter)	S	99	A	78
	John B. Varick Co., Manchester				
8221	Wheat (07522, Spring)	S	99.78	S	97
	Holbrook Grocery Co., Woodsville				
8027	White Clover (2689)	96.04	97.35	S	84
	Freeman Corson, Rochester				
8139	White Clover (26774)	S	98	S	90
	J. Cushing Co., Keene				
7938	White Clover (Prime)	S	96.45	S	91
	Hilliard & Kimball, Exeter				
7937	White Clover (26737)	S	97.15	A	70
	Manchester Hardware Co., Manchester				
7928	White Clover	S	97.82	S	80
	J. J. Moreau & Son, Manchester				
7867	White Clover (26738)	S	98.20	S	93
	John B. Varick Co., Manchester				
7883	White Clover (2406, Fancy)	S	99.07	A	77
	John B. Varick Co., Manchester				

A=Above

S=Satisfactory

SUMMARY TABLE
 Showing General Results of Seed Inspection Work
 for the year ending June 30, 1931

Kind of Seed	Number of Samples	Purity Compared to Guarantee		Germination Compared to Guarantee		Total			
		Above	Satisfactory	Below	%		Above	Satisfactory	Below
Alfalfa	9	0	9	0	0	4	5	0	0
Alsike Clover	36	3	32	1	0	4	25	7	0
Barley	12	0	12	0	0	0	11	1	0
Bluegrass, Kentucky	5	0	5	0	0	0	1	4	0
Buckwheat	3	0	3	0	0	0	3	0	0
Canada Field Peas	2	0	2	0	0	0	2	0	0
Miller, Golden	1	0	1	0	0	0	0	0	0
Miller, Hungarian	36	4	25	7	0	0	26	10	0
Miller, Japanese	37	1	24	12	6	0	28	9	0
Mixture, Hayland	1	0	1	0	0	1	0	0	0
Oats	23	0	22	0	1	0	21	1	1
Rape	2	0	2	0	0	0	2	0	0
Red Clover	58	6	46	5	1	11	36	10	1
Red Top	61	6	47	8	0	0	44	17	0
Rye	6	0	6	0	0	0	3	3	0
Soy Beans	3	0	3	0	0	0	3	0	0
Sweet Clover	4	1	3	0	0	1	3	0	0
Timothy	77	4	71	2	0	0	72	5	0
Vetch	1	0	1	0	0	1	0	0	0
Wheat	1	0	1	0	0	1	0	0	0
White Clover	1	0	6	1	0	2	5	0	0
Total	385	25	322	36	2	24	291	68	2

