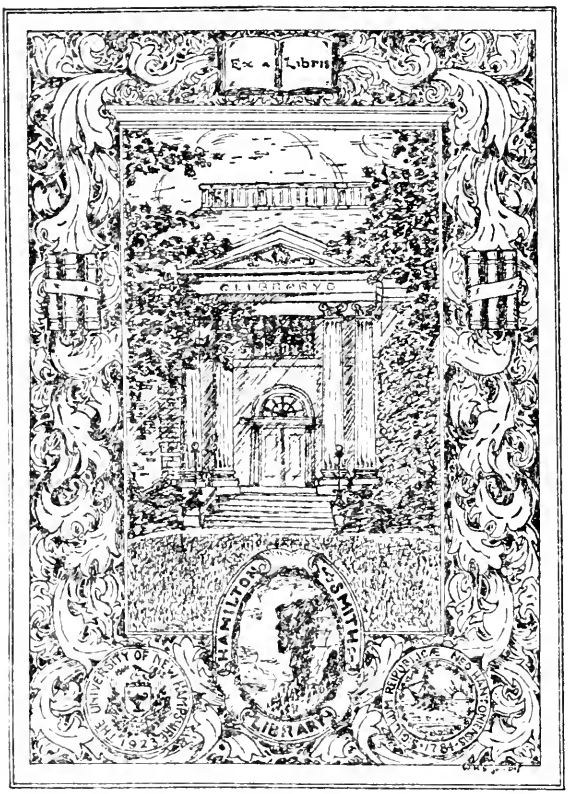
ti 272 - 284 OK 4/10/42

#280 - 45th Ann. Rpt. - 1933
#284 - 46th Ann. Rpt - 1934 } OK - RBS 4/21/42



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{Bulletin 276} ?

RESULTS OF SEED TESTS

Made July 1, 1932 to June 30, 1933

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This report contains the results of the inspection for the State Department of Agriculture of three hundred eighty-four official samples collected throughout the State during the period from July 1, 1932 to June 30, 1933. These were analyzed and the results mailed to the retail dealers. In addition to these official samples, twenty-four private samples were analyzed, making a total of four hundred eight 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 guaranted 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 one 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:

Guarantee %	*Allowable variation* %
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, 1933.

COMPARISON OF SEEDS FOR FOUR YEARS

	No. of Samples	No Below as to Purity	% Below as to Purity	No. Below as to Germination	% Below as to Germination
1930	375	51	13.6	74	19.7
1931	325	36	9.3	68	17.6
1932	357	23	6.4	46	12.3
1933	384	30	7.8	37	9.6

It will be noted from the above tabulation that the percentage of samples below the guarantee as to germination is less this year than ever before, while the percentage below as to purity is slightly higher than last year but considerably below the average.

SEED INSPECTION, 1933

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8770	Alfalfa (Certi-Seed Grimm) ..... Eastern States Farmers' Exc., Manchester	S	99.35	S	86
8771	Alfalfa (Certi-Seed Variegated) ..... Eastern States Farmers' Exc., Manchester	S	99.60	S	85
8906	Alfalfa (27577, White Mtn., Grimm) Holbrook Grocery Co., Keene	S	99.25	S	92
8888	Alfalfa (27485, Grimm) ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	99.72	S	87
8729	Alfalfa (Pine Tree, 27551) ..... Merrimack Farmers' Exc., Concord	S	99.45	S	91
8672	Alfalfa (Genuine Grimm) ..... F. W. Neal & Co., Dover	S	99.5	74	90
8662	Alfalfa (Genuine Grimm, 4380) ..... J. H. Seavey, Dover	S	99.62	S	84
8884	Alfalfa (AA, Lot 174, Grimm)..... Sunshine Feed Store, Keene	S	99.40	S	87
8635	Alfalfa (Pine Tree Grimm, 27538)... John B. Varick Co., Manchester	S	99.50	A	77
8927	Alsike Clover (Imperator) ..... Abbott Grocery Co., Keene	S	97.44	A	83
8815	Alsike Clover ..... Belknap County Farmers' Exc., Laconia	S	98.95	S	85
8974	Alsike Clover (Herald) ..... Checkerboard Grain Warehouse, W. Lebanon	S	96.52	S	90
8975	Alsike Clover (21400, Pine Tree) .... The G. B. Currier Co., Colebrook	S	99	S	81
8748	Alsike Clover (Pan American) ..... S. A. Dow & Son, North Hampton	S	97.69	S	90
8776	Alsike Clover (Pan American) ..... W. E. Dunbar & Son, Manchester	S	98.05	S	78
8763	Alsike Clover (Certi-Seed)..... Eastern States Farmers' Exc., Manchester	S	99.20	A	75
8845	Alsike Clover (31107) ..... Farmers' Grain Store, Ashland	S	99.20	S	90
8989	Alsike Clover (6378, Liberty) ..... Farmers' Grain & Feed Co., Lancaster	S	98	S	85
8619	Alsike Clover (Ace, 21219) ..... Farm Service Stores, Inc., Manchester	S	96	S	92
8874	Alsike Clover (Pine Tree, 21353).... Hatch Hardware Co., Milford	S	99	S	94
8976	Alsike Clover (Pan American) .... C. M. Hildreth & Son, Lebanon	S	97.76	A	76
8782	Alsike Clover (Pan American) ..... Hill Hardware & Paint Co., Nashua	S	97.8	A	77
8901	Alsike Clover (21453 XX) ..... Holbrook Grocery Co., Keene	A	93	80.5	92
8902	Alsike Clover (White Mtn., 21467)... Holbrook Grocery Co., Keene	S	98	S	93
8980	Alsike Clover (Special, 21490 XX)... Holbrook Grocery Co., Woodsville	S	93	S	90

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8890	Alsike Clover (Pine Tree, 21376).... E. C. & W. L. Hopkins, Inc., Greenfield	S	98.15	S	88
8838	Alsike Clover (Pan American)..... Hosmer Brothers, Tilton	S	98.01	S	81
8800	Alsike Clover (Pan American)..... E. J. Keegan & Co., Franklin	S	98	S	90
8979	Alsike Clover (Special, 21438)..... Lewis Brothers, Lebanon	S	91.15	S	92
8819	Alsike Clover (Pan American) ..... Meredith Grain Co., Meredith	S	98	A	77
8728	Alsike Clover (Pine Tree, 21353).... Merrimack Farmers' Exc., Concord	S	99	S	85
8742	Alsike Clover (Pine Tree, 21521)..... Merrimack Farmers' Exc., Exeter	S	98.75	S	83
8607	Alsike Clover (Pine Tree, 21353)..... Merrimack Farmers' Exc., Manchester	S	99	S	85
8709	Alsike Clover (Pan American) ..... Nashua Grain Co., Nashua	S	98	S	78
8720	Alsike Clover ..... Nashua Grain Co., Nashua	98.28	99.50	S	95
8671	Alsike Clover (Pan American) ..... F. W. Neal & Co., Dover	S	98.04	A	77
8916	Alsike Clover (Matrix, 22) ..... W. N. Potter Grain Stores, Inc. Winchester	S	97.15	S	90
8863	Alsike Clover (Pan American) ..... A. W. Rand, Plymouth	S	97.62	A	82
8660	Alsike Clover (Liberty, 6119) ..... J. H. Seavey, Dover	S	97.58	A	84
8985	Alsike Clover (Pan American) ..... The Frank Smith Co., Lancaster	S	97.76	S	83
8790	Alsike Clover (Imperator) ..... C. P. Stevens Co., Franklin	S	97	S	90
8883	Alsike Clover (AA, Lot B, 33-2) ..... Sunshine Feed Store, Keene	S	98.50	A	80
8691	Alsike Clover (Ace, 21355)..... Thompson & Hoague Co., Concord	S	96.10	S	86
8636	Alsike Clover (Pine Tree, 21359).... John B. Varick Co., Manchester	S	99	A	83
8697	Alsike Clover (Pan American) ..... H. D. Woods Co., Derry	S	97.30	S	87
8937	Barley (Alpha) ..... Ames Service Stores, W. Lebanon	S	99	S	94
8968	Barley (O & M, 6-row) ..... Checkerboard Grain Warehouse, W. Lebanon	S	98.50	S	94
8959	Barley (Velvet, 71385) ..... A. H. Hill, Lebanon	S	99.45	S	97
8897	Barley (71324, 6-row) ..... Holbrook Grocery Co., Keene	S	99.2	S	96
8983	Barley (71238, 6-row) ..... Holbrook Grocery Co., Woodsville	S	97.24	S	92
8818	Barley (6-row) ..... Meredith Grain Co., Meredith	S	98	S	90
8831	Barley (Fancy, 6-row) ..... J. H. Morrill, Laconia	S	99	S	95

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8666	Barley (6-row) ..... F. W. Neal & Co., Dover	S	99	S	97
8940	Barley (4497, 6-row) ..... Nelson Warner Co., Charlestown	S	98	S	93
8944	Barley (71237, 6-row) ..... Pike & Gale, Littleton	S	99.75	S	97
8752	Barley (Montana) ..... S. A. Schurman & Son, Portsmouth	S	98.50	S	93
8652	Barley (4446, 6-row) ..... J. H. Seavey, Dover	S	98	S	97
8987	Barley (6-row) ..... The Frank Smith Co., Lancaster	S	98	S	90
8971	Barley (U G 1, 6-row) ..... F. B. Spaulding Co., Lancaster	S	99.75	S	95
8804	Barley (Barbless) ..... C. P. Stevens Co., Franklin	S	98	S	90
8690	Barley (6-row, 71233) ..... Thompson & Hoague Co., Concord	S	97.80	S	94
8643	Barley (White Hulless, 071735)..... John B. Varick Co., Manchester	S	95.68	S	90
8645	Barley (71233, 6-row) ..... John B. Varick Co., Manchester	S	97.80	S	94
8648	Bluegrass, Kentucky (032379) ..... John B. Varick Co., Manchester	S	86.30	S	80
8611	Buckwheat (Silver hulled) ..... J. J. Moreau & Son, Manchester	S	98	S	90
8673	Buckwheat, Japanese ..... F. W. Neal & Co., Dover	S	99.94	S	92
8751	Buckwheat, Japanese ..... S. A. Schurman & Son, Portsmouth	S	99.72	S	94
8686	Buckwheat, Japanese (76105)..... Thompson & Hoague Co., Concord	S	99.80	S	92
8629	Buckwheat, Japanese (6240) ..... John B. Varick Co., Manchester	S	99.89	S	95
8646	Buckwheat (400) ..... John B. Varick Co., Manchester	S	98	S	96
8932	Canada Field Peas ..... Farm Service Stores, Inc., Keene	S	98	S	92
8624	Canada Field Peas (08965) ..... Merrimack Farmers' Exc., Manchester	S	99.5	S	90
8653	Canada Field Peas (4479)..... J. H. Seavey, Dover	S	96	S	92
8885	Canada Field Peas (AA, Lot 9)..... Sunshine Feed Store, Keene	S	99.50	S	90
8640	Canada Field Peas (85282) ..... John B. Varick Co., Manchester	S	99	S	91
8724	Millet, German (0466) ..... Merrimack Farmers' Exc., Concord	98.09	99.56	71.5	90
8862	Millet, Hungarian ..... O. A. Brown, Ashland	S	99.45	S	88
8803	Millet, Hungarian ..... Central Grain Store, Franklin	S	98.59	S	88
8850	Millet, Hungarian ..... Chase Grain Mill, Plymouth	S	99	77	93
8812	Millet, Hungarian ..... Checkerboard Grain Warehouse, Tilton	S	99.45	S	88

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8967	Millet, Hungarian ..... G. F. Clement & Son, Lisbon	S	98.94	S	87
8775	Millet, Hungarian ..... W. E. Dunbar & Son, Manchester	98.53	99.45	75	88
8847	Millet, Hungarian (32701) ..... Farmers' Grain Store, Ashland	S	99.72	S	90
8699	Millet, Hungarian (47123) ..... Farm Service Stores, Inc., Derry	S	98.98	S	88
8680	Millet, Hungarian (Fancy) ..... Farm Service Stores, Inc., Dover	S	99.32	S	88
8608	Millet, Hungarian (47123) ..... Farm Service Stores, Inc., Manchester	S	98.98	S	88
8786	Millet, Hungarian (Fancy) ..... Farm Service Stores, Inc., Nashua	S	99.32	S	88
8917	Millet, Hungarian ..... Hammond's Grain Store, E. Jaffrey	S	99	S	85
8873	Millet, Hungarian ..... Hatch Hardware Co., Milford	S	99	S	85
8877	Millet, Hungarian (47520) ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	99.68	S	86
8891	Millet, Hungarian ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	99.54	S	81
8840	Millet, Hungarian ..... Hosmer Brothers, Tilton	S	98.59	S	88
8957	Millet, Hungarian ..... J. H. Kinniry, Claremont	S	99.60	S	96
8716	Millet, Hungarian ..... LeBlanc & Kashulines, Nashua	S	99	S	85
8822	Millet, Hungarian ..... Meredith Grain Co., Meredith	S	99.09	78	90
8731	Millet, Hungarian (47134) ..... Merrimack Farmers' Exc., Concord	S	99.69	S	85
8705	Millet, Hungarian (47132) ..... Merrimack Farmers' Exc., Derry	S	99.66	S	85
8616	Millet, Hungarian ..... J. J. Moreau & Son, Manchester	95.45	99.09	77	90
8823	Millet, Hungarian (47160) ..... J. H. Morrill, Laconia	S	99.64	S	90
8712	Millet, Hungarian (Choice) ..... Nashua Grain Co., Nashua	96.93	99.60	S	96
8668	Millet, Hungarian ..... F. W. Neal & Co., Dover	S	99.09	S	90
8676	Millet, Hungarian ..... F. W. Neal & Co., Dover	A	98	S	85
8759	Millet, Hungarian (Fancy, 2401).... W. O. Patten, Londonderry	98.32	98.97	S	88
8907	Millet, Hungarian (32700) ..... W. N. Potter Grain Stores, Inc., Winchester	97.99	98.36	71	90
8659	Millet, Hungarian (4291) ..... J. H. Seavey, Dover	S	99.56	S	90
8791	Millet, Hungarian (4291) ..... C. P. Stevens Co., Franklin	S	99.56	S	90
8878	Millet, Hungarian (AA, Lot 3)..... Sunshine Feed Store, Keene	S	98.91	S	90

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8689	Millet, Hungarian (47154) ..... Thompson & Hoague Co., Concord	S	99.10	S	85
8633	Millet, Hungarian (4291) ..... John B. Varick Co., Manchester	S	99.56	S	90
8958	Millet, Japanese (B-1) ..... Ames Service Stores, W. Lebanon	85.04	96.13	75	85
8945	Millet, Japanese (6372) ..... P. E. Belisle, Hillsboro	S	97.10	S	85
8950	Millet, Japanese ..... Guy H. Bemis, Walpole	95.90	99	66.5	90
8798	Millet, Japanese ..... Central Grain Store, Franklin	S	97.20	S	90
8848	Millet, Japanese (32703)..... Farmers' Grain Store, Ashland	S	95.86	S	89
8698	Millet, Japanese (44127) ..... Farm Service Stores, Inc., Derry	S	98.79	S	86
8677	Millet, Japanese (Fancy) ..... Farm Service Stores, Inc., Dover	A	98	S	90
8621	Millet, Japanese (44127) ..... Farm Service Stores, Inc., Manchester	S	98.79	S	86
8921	Millet, Japanese (44-11) ..... Farm Service Stores, Inc., Peterboro	S	97.20	70.5	85
8854	Millet, Japanese ..... Gammons Co., Inc., Plymouth	S	98.63	S	80
8914	Millet, Japanese ..... Goodnow Brothers Co., E. Jaffrey	S	98	S	84
8872	Millet, Japanese (44136) ..... Hatch Hardware Co., Milford	S	98.59	S	85
8784	Millet, Japanese ..... Hill Hardware & Paint Co., Nashua	S	98	S	90
8746	Millet, Japanese ..... Hilliard & Kimball, Exeter	S	98	S	90
8966	Millet, Japanese (N. Y. State Grown) Holbrook Grocery Co., Woodsville	S	97.31	69.5	90
8887	Millet, Japanese ..... Hopkins Bros. & Belcher, Greenfield	S	97.36	S	87
8809	Millet, Japanese ..... E. J. Keegan & Co., Franklin	S	97.36	S	87
8718	Millet, Japanese ..... LeBlanc & Kashulines Co., Nashua	S	98	S	84
8719	Millet, Japanese ..... LeBlanc & Kashulines Co., Nashua	S	98	S	84
8962	Millet, Japanese ..... Lewis Brothers, Lisbon	S	98.77	S	89
8821	Millet, Japanese ..... Meredith Grain Co., Meredith	S	98.52	S	90
8732	Millet, Japanese (44136) ..... Merrimack Farmers' Exc., Concord	S	98.59	S	85
8703	Millet, Japanese (44139) ..... Merrimack Farmers' Exc., Derry	S	98.77	S	90
8609	Millet, Japanese ..... J. J. Moreau & Son, Manchester	S	97.36	S	87
8829	Millet, Japanese ..... J. H. Morrill, Laconia	S	97.23	S	90
8713	Millet, Japanese ..... Nashua Grain Co., Nashua	S	98	86	96

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8667	Millet, Japanese ..... F. W. Neal & Co., Dover	S	97.36	S	87
8675	Millet, Japanese ..... F. W. Neal & Co., Dover	S	97.18	82	90
8935	Millet, Japanese (J5B33) ..... Nelson Warner Co., Charlestown	A	95	S	90
8938	Millet, Japanese (4037) ..... Nelson Warner Co., Charlestown	S	97.86	68	85
8926	Millet, Japanese (32702) ..... W. N. Potter Grain Stores, Inc., Winchester	S	98.14	62	90
8792	Millet, Japanese (4506) ..... C. P. Stevens Co., Franklin	S	97.42	S	93.25
8793	Millet, Japanese (44-111) ..... C. P. Stevens Co., Franklin	S	98.03	S	84
8632	Millet, Japanese ..... John B. Varick Co., Manchester	S	98	S	90
8644	Millet, Japanese (C099) ..... John B. Varick Co., Manchester	S	98.66	S	88
8766	Mixture, Hayland No. 2 ..... Eastern States Farmers' Exc., Manchester	S	98.60	S	86
8797	Mixture, Hayland No. 3 ..... J. R. Graham, Boscawen	S	99.05	S	88
8929	Oats (Fancy Swedish) ..... Checkerboard Grain Warehouse, W. Lebanon	S	98.5	S	95
8964	Oats (Hygrade Fancy) ..... Depot Store, Littleton	S	97	81	92
8735	Oats (Ely's Ohio) ..... S. A. Dow & Son, North Hampton	98.39	—	93	—
8768	Oats (Certi-seed Selected) ..... Eastern States Farmers' Exc., Manchester	S	99.20	S	92
8849	Oats (Fancy) ..... Farmers' Grain Store, Ashland	S	98	S	95
8988	Oats (40-42 lb. Selected) ..... Farmers' Grain & Feed Co., Lancaster	99.37	—	90	—
8913	Oats (Granite State) ..... Goodnow Brothers Co., E. Jaffrey	S	91	S	90
8918	Oats (Delaware) ..... Hammond's Grain Store, E. Jaffrey	S	99	S	95
8899	Oats (White Mtn.) ..... Holbrook Grocery Co., Keene	S	98.65	85.5	96
8810	Oats ..... E. J. Keegan & Co., Franklin	S	98.28	S	92
8722	Oats (Natural) ..... Merrimack Farmers' Exc., Concord	S	99	S	95
8622	Oats (Swedish) ..... Merrimack Farmers' Exc., Manchester	S	99	S	95
8613	Oats (Swedish Select) ..... J. J. Moreau & Son, Manchester	S	98	S	90
8679	Oats (Swedish) ..... F. W. Neal & Co., Dover	S	99	S	99
8934	Oats (4503, Fancy Selected) ..... Nelson Warner Co., Charlestown	S	97.5	S	95

A — Above S — Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8933	Oats (White) ..... Newport Feed Store, Newport	S	98	S	97
8651	Oats (Fancy Selected, 6293) ..... J. H. Seavey, Dover	S	98	S	97
8970	Oats (Swedish Type, O & M)..... F. B. Spaulding Co., Lancaster	S	99	S	95
8787	Oats (Swedish Type, 4746) ..... C. P. Stevens Co., Franklin	S	99	S	96
8650	Oats (Swedish Type, 73173) ..... John B. Varick Co., Manchester	S	98.88	S	97
8755	Oats (Pennant Brand) ..... B. W. Varrill Grain Co., Portsmouth	S	99.59	S	98
8637	Orchard Grass (37272) ..... John B. Varick Co., Manchester	S	92.35	S	90
8658	Rape (35176) ..... J. H. Seavey, Dover	S	98	S	84.5
8695	Rape (Dwarf Essex, 95285) ..... Thompson & Hoague Co., Concord	S	99.3	S	90
8928	Red Clover (Herald) ..... Abbott Grocery Co., Keene	S	97.43	S	90
8943	Red Clover (5331, Liberty) ..... Abbott Grocery Co., Keene	S	99	S	88
8816	Red Clover ..... Belknap Co. Farmers' Exc., Laconia	S	99.84	S	89
8952	Red Clover (Special) ..... Guy H. Bemis, Walpole	93.66	98	S	93
8858	Red Clover (Pan American, Medium) W. B. Brown, Ashland	S	99.05	S	88
8859	Red Clover (White Mtn., Extra Fancy, Medium) ..... W. B. Brown, Ashland	S	99	S	94
8860	Red Clover (Special) ..... W. B. Brown, Ashland	93.59	98	S	93
8922	Red Clover (2426, Pine Tree, Medium) W. A. Bryer & Co., Peterboro	S	99.16	A	82
8802	Red Clover (Pan American, Medium).. Central Grain Store, Franklin	S	99.06	S	90
8868	Red Clover (31313, Medium) ..... Chase Grain Mill, Plymouth	S	99.50	S	90
8806	Red Clover (Herald, 5300) ..... Checkerboard Grain Warehouse, Tilton	95.99	97.48	S	90
8972	Red Clover (24930, Medium Pine Tree) The G. B. Currier Co., Colebrook	S	99.36	S	94
8747	Red Clover (Pan American, Domestic) S. A. Dow & Son, North Hampton	S	99	S	90
8765	Red Clover (Medium Certi-seed)..... Eastern States Farmers' Exc., Manchester	S	99.35	A	63
8852	Red Clover ..... Gammons Co., Inc., Plymouth	99.13	99.84	S	89
8843	Red Clover (114, Medium) ..... Farmers' Grain Store, Ashland	98.46	99.75	S	90
8990	Red Clover (6356, Liberty, Medium).. Farmers' Grain & Feed Co., Lancaster	S	99.50	S	86
8701	Red Clover (Ace Medium, 24944).... Farm Service Stores, Inc., Derry	S	93	S	94

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8678	Red Clover (Medium Fancy, Domestic) Farm Service Stores, Inc., Dover	S	99.28	A	90
8930	Red Clover (1825, Special) ..... Farm Service Stores, Inc., Keene	91.24	98	S	93
8785	Red Clover (Fancy, Medium) ..... Farm Service Stores, Inc., Nashua	S	99.28	S	90
8908	Red Clover ..... Goodnow Brothers Co., E. Jaffrey	S	99	S	92
8909	Red Clover (1825, Special) ..... Goodnow Brothers Co., E. Jaffrey	93.01	98	S	93
8683	Red Clover (Pine Tree, Medium) .... J. H. Griffin, Newmarket	S	99.42	S	85
8774	Red Clover (Domestic, Pan American) Hill Hardware & Paint Co., Nashua	S	99.02	S	90
8904	Red Clover (24973, White Mtn., Medium) ..... Holbrook Grocery Co., Keene	S	99	S	94
8905	Red Clover (24975, Special)..... Holbrook Grocery Co., Keene	S	95	S	92
8978	Red Clover (2351, XX, Mammoth).. Holbrook Grocery Co., Woodsville	S	95	S	92
8984	Red Clover (Special) ..... Holbrook Grocery Co., Woodsville	S	99.38	S	96
8892	Red Clover (24723, Pine Tree, Medium) ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	99.50	A	83
8841	Red Clover (Pan American, Domestic) Hosmer Brothers, Tilton	S	99.25	S	86
8801	Red Clover (Pan American, Domestic) E. J. Keegan & Co., Franklin	S	99	S	84
8960	Red Clover (Ace) ..... J. H. Kinniry, Claremont	96.11	99.50	S	94
8817	Red Clover (Pan American, Medium) Meredith Grain Co., Meredith	S	99.25	S	91
8725	Red Clover (Pine Tree, Mammoth, 2322) ..... Merrimack Farmers' Exc., Concord	S	99.50	S	95
8623	Red Clover (Pine Tree, Medium, 24724) ..... Merrimack Farmers' Exc., Manchester	S	99.50	S	94
8610	Red Clover (Pan American, Medium) J. J. Moreau & Son, Manchester	S	99.25	S	91
8828	Red Clover Pine Tree, Medium, 24920) ..... J. H. Morrill, Laconia	S	99.78	S	95
8708	Red Clover (Pan American, Domestic) Nashua Grain Co., Nashua	S	99.37	S	88
8715	Red Clover (Choice) ..... Nashua Grain Co., Nashua	S	99.5	S	95
8670	Red Clover (Pan American, Medium) F. W. Neal & Co., Dover	S	99.05	S	88
8941	Red Clover (6247, Liberty) ..... Nelson Warner Co., Charlestown	S	99.12	S	90.50
8761	Red Clover (Pine Tree Medium, 24817) ..... W. O. Patten, Londonderry	S	99.5	S	93

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8777	Red Clover (Pan American) ..... W. R. Peterson Co., Nashua	A	98	40	90
8925	Red Clover (Matrix Medium, 320)... W. N. Potter Grain Stores, Inc., Winchester	96.30	99.50	S	90
8864	Red Clover (Pan American, Domestic) A. W. Rand, Plymouth	S	99.10	S	90
8835	Red Clover (Pan American, Domestic) Rand & Dearborn, Laconia	S	99	S	84
8826	Red Clover (Pan American, Domestic) H. C. Sanborn, Laconia	S	99	A	84
8827	Red Clover (Pan American) ..... H. C. Sanborn, Laconia	S	99.25	57	90
8753	Red Clover (Pan American, Domestic) S. A. Schurman & Son, Portsmouth	S	99.05	S	88
8664	Red Clover (Liberty, Medium, 5950).. J. H. Seavey, Dover	S	99.13	S	85
8963	Red Clover (24931, Medium Ace).... F. B. Spaulding Co., Whitefield	S	98.90	S	92
8882	Red Clover (AA, Lot B, 655, Medium) Sunshine Feed Store, Keene	S	99.5	S	90
8692	Red Clover (Ace, Medium, 24708)... Thompson & Hoague Co., Concord	S	98.90	S	85
8631	Red Clover (Pine Tree, Medium, 24847) John B. Varick Co., Manchester	S	99.50	S	93
8757	Red Clover ..... B. W. Varrill Grain Co., Portsmouth	S	99.50	S	94
8855	Red Clover, 24847, Pine Tree, Medium) ..... Weeks & Smith, Meredith	S	99.50	S	93
8696	Red Clover (Pan American, Medium) H. D. Woods Co., Derry	S	99.06	S	93
8946	Red Top (3494) ..... P. E. Belisle, Hillsboro	S	92.30	S	85
8813	Red Top (No. 1, Fancy)..... Belknap Co. Farmers', Exc., Laconia	S	90.70	S	90
8951	Red Top (30175, XX, Fancy)..... Guy H. Bemis, Walpole	S	85	S	88
8861	Red Top (30940, Pine Tree) ..... O. A. Brown, Ashland	92.62	95.40	S	91
8857	Red Top ..... W. B. Brown, Ashland	S	92.04	S	90
8796	Red Top (Pan American) ..... Central Grain Store, Franklin	S	93.47	S	90
8869	Red Top (3370, Fancy) ..... Chase Grain Mill, Plymouth	S	90.44	69	86
8833	Red Top (Imperator) ..... Checkerboard Grain Warehouse, Meredith	S	92.23	S	90
8808	Red Top (Imperator) ..... Checkerboard Grain Warehouse, Tilton	S	90.92	S	90
8875	Red Top (309, Pine Tree Fancy).... F. W. Clark, Wilton	S	95.50	S	90
8982	Red Top (03083, Ace) ..... G. F. Clement & Son, Lisbon	S	90.80	S	90
8740	Red Top (Fancy, 30785) ..... E. A. Cole Co., Hampton	S	95	S	92

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8977	Red Top (Ace, 30172) ..... G. B. Currier Co., Colebrook	S	92.30	74.5	90
8750	Red Top (Pan American) ..... S. A. Dow & Son, North Hampton	S	92	S	90
8895	Red Top (30131, Pine Tree)..... Frank Dunn, Wilton	92.87	95	S	92
8846	Red Top (32824) ..... Farmers' Grain Store, Ashland	S	94.45	S	90
8700	Red Top (Pan American, 9212)..... Farm Service Stores, Inc., Derry	S	92.12	S	92
8741	Red Top (Fancy) ..... Farm Service Stores, Inc., Exeter	S	94.59	S	90
8618	Red Top (Fancy) ..... Farm Service Stores, Inc., Manchester	S	94.59	S	90
8620	Red Top (Ace, 30998) ..... Farm Service Stores, Inc., Manchester	A	90.70	73	90
8920	Red Top (Choice Recleaned) ..... Farm Service Stores, Inc., Peterboro	S	95	S	92
8912	Red Top (XX) ..... Goodnow Brothers Co., E. Jaffrey	A	85	S	85
8684	Red Top (Pine Tree, Fancy, 3058).. J. H. Griffin, Newmarket	89.15	95.40	74	90
8871	Red Top (30145, Fancy) ..... Hatch Hardware Co., Milford	A	95	S	92
8778	Red Top (Pan American) ..... Hill Hardware & Paint Co., Nashua	S	94.01	72.5	88
8781	Red Top (No. 1, Fancy)..... Hill Hardware & Paint Co., Nashua	S	91	S	90
8744	Red Top (No. 1) ..... Hilliard & Kimball, Exeter	S	93.80	S	90
8903	Red Top (30174, White Mtn.)..... Holbrook Grocery Co., Keene	A	95	S	92
8893	Red Top (30128, Pine Tree)..... E. C. & W. L. Hopkins, Inc., Greenfield	S	95.60	S	92
8836	Red Top (Pan American) ..... Hosmer Brothers, Tilton	S	93.49	S	90
8837	Red Top (Pan American) ..... Hosmer Brothers, Tilton	S	92	S	90
8685	Red Top (Fancy, 3040)..... Jenness Hardware Co., Dover	91.64	95	S	92
8799	Red Top (Pan American) ..... E. J. Keegan & Co., Franklin	S	92	S	90
8717	Red Top (Fancy) ..... LeBlanc & Kashulines Co., Nashua	S	95	S	92
8706	Red Top (Ace, Fancy, 3030)..... Merrimack Farmers' Exc., Derry	S	92.30	S	91
8625	Red Top (Ace, Fancy, 3094) ..... Merrimack Farmers' Exc., Manchester	A	92	S	90
8615	Red Top (Pan American, Fancy).... J. J. Moreau & Son, Manchester	S	92	S	90
8830	Red Top (Pine Tree, Fancy, 30165).. J. H. Morrill, Laconia	S	96.30	S	92
8665	Red Top (Pan American) ..... F. W. Neal Co., Dover	S	92	S	90

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8936	Red Top (3385, Honor) ..... Nelson Warner Co., Charlestown	S	94	S	88.25
8939	Red Top (30197, Fancy, Monadnock) Nelson Warner Co., Charlestown	S	92	S	90
8710	Red Top (Pan American) ..... Nashua Grain Co., Nashua	S	92.90	S	90
8711	Red Top (Ace, Fancy, 3070)..... Nashua Grain Co., Nashua	S	93	S	90
8714	Red Top (No. 1)..... Nashua Grain Co., Nashua	S	93	S	90
8760	Red Top (Imperator) ..... W. O. Patten, Londonderry	S	90	S	90
8780	Red Top (Pan American) ..... W. R. Peterson Co., Nashua	S	92	S	90
8924	Red Top (Matrix, 32820) ..... W. N. Potter Grain Stores, Inc., Winchester	S	91.61	80	92
8866	Red Top (Pan American) ..... A. W. Rand, Plymouth	78.02	92	S	90
8656	Red Top (Choice, 21013) ..... J. H. Seavey, Dover	S	92.89	S	90
8881	Red Top (AA, Lot B-15 AA)..... Sunshine Feed Store, Keene	S	92.29	S	91
8688	Red Top (Ace, 3094) ..... Thompson & Hoague Co., Concord	S	92	S	90
8626	Red Top (Pine Tree, 309)..... John B. Varick Co., Manchester	S	95.50	S	90
8630	Red Top (Pine Tree, 30131) ..... John B. Varick Co., Manchester	89.58	95	S	92
8639	Red Top (Ace, 30998) ..... John B. Varick Co., Manchester	S	90.70	S	90
8756	Red Top (Ace, Fancy, 3076) ..... B. W. Varrill Grain Co., Portsmouth	S	91.90	S	90
8856	Red Top (30131, Pine Tree, Fancy).. Weeks & Smith, Meredith	92.21	95	S	92
8738	Red Top (Fancy) ..... W. A. Young, Exeter	A	95	S	92
8739	Red Top (No. 1, Fancy) ..... W. A. Young, Exeter	S	91	S	90
8704	Rye, Spring (74180) ..... Merrimack Farmers' Exc., Derry	S	98.04	S	92
8986	Rye, Spring ..... The Frank Smith Co., Lancaster	S	98	64	90
8805	Rye, Spring (74-120) ..... C. P. Stevens Co., Franklin	S	98	S	97
8628	Rye, Spring (4433) ..... John B. Varick Co., Manchester	S	98	68	90
8641	Rye, Rosen (6081) ..... John B. Varick Co., Manchester	S	97	S	85
8634	Rye Grass (Domestic, 03855) ..... John B. Varick Co., Manchester	99.02	99.56	S	90
8842	Soy Beans (5, Manchu) ..... Farmers' Grain Store, Ashland	S	99	59.5	90
8733	Soy Beans (Wilson, 084146) ..... Merrimack Farmers' Exc., Concord	S	99.50	S	90
8734	Soy Beans (Manchu, 84273) ..... Merrimack Farmers' Exc., Concord	S	99.50	S	88
8832	Soy Beans (Black Wilson)..... J. H. Morrill, Laconia	S	98	65.5	90

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8654	Soy Beans (4482, Early Manchu) ... J. H. Seavey, Dover	S	98	72	85
8655	Soy Beans (Black Wilson, 3824).... J. H. Seavey, Dover	S	98	S	90
8642	Soy Beans (Black Wilson, 4449)..... John B. Varick Co., Manchester	S	99	S	90
8769	Sweet Clover (Certi-Seed, White Blossom) ..... Eastern States Farmers' Exc., Manchester	S	99.45	S	83
8889	Sweet Clover (25-17) ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	99.62	S	85
8727	Sweet Clover (White Blossom, 25245) Merrimack Farmers' Exc., Concord	S	99.50	75.5	93
8743	Sweet Clover (White Blossom, 25127) Merrimack Farmers' Exc., Exeter	S	99	73	83
8954	Timothy (AA, Lot B, 198)..... Ames Service Stores, W. Lebanon	S	99.68	S	92
8948	Timothy (6184, Reliable) ..... P. E. Belisle, Hillsboro	A	99.02	S	94
8947	Timothy (3870, Liberty) ..... P. E. Belisle, Hillsboro	S	99.60	S	92
8814	Timothy (Bay State) ..... Belknap Co. Farmers' Exc., Laconia	S	99.70	S	95
8923	Timothy (Pan American) ..... W. A. Bryer & Co., Peterboro	S	99.60	53	90
8795	Timothy (Pan American) ..... Central Grain Store, Franklin	S	99.66	S	90
8851	Timothy (32544) ..... Chase Grain Mill, Plymouth	99.25	99.70	S	92
8867	Timothy (5656, Liberty) ..... Chase Grain Mill, Plymouth	S	99.65	S	90
8807	Timothy (Frontier) ..... Checkerboard Grain Warehouse, Tilton	S	98	S	90
8953	Timothy (32544) ..... Clark & Richardson, Lisbon	99.32	99.70	S	92
8973	Timothy (68476, Pine Tree) ..... The G. B. Currier Co., Colebrook	S	99.70	S	94
8749	Timothy (Pan American) ..... S. A. Dow & Son, North Hampton	S	99.60	S	90
8896	Timothy (68670, Pine Tree) ..... Frank Dunn, Wilton	S	99.65	S	94
8767	Timothy (Certi-Seed) ..... Eastern States Farmers' Exc., Manchester	S	99.65	S	91
8844	Timothy (32544) ..... Farmers' Grain Store, Ashland	S	99.70	S	92
8702	Timothy (Pine Tree, 67880) ..... Farm Service Stores, Inc., Derry	S	99.65	S	94
8674	Timothy (Fancy) ..... Farm Service Stores, Inc., Dover	S	99.60	S	90
8886	Timothy (Fancy) ..... Farm Service Stores, Inc., Milford	S	99.60	S	90
8919	Timothy (66-532) ..... Farm Service Stores, Inc., Peterboro	S	99.25	S	93
8853	Timothy (Gem) ..... Gammons Co., Inc., Plymouth	S	98.50	S	92

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8910	Timothy (Herald) ..... Goodnow Brothers Co., E. Jaffrey	96.57	98	S	90
8911	Timothy (Choice) ..... Goodnow Brothers Co., E. Jaffrey	S	99	S	93
8870	Timothy (68459, Pine Tree) ..... Hatch Hardware Co., Milford	S	99.70	S	94
8779	Timothy (Pan American) ..... Hill Hardware & Paint Co., Nashua	S	99.60	S	90
8783	Timothy (Gem) ..... Hill Hardware & Paint Co., Nashua	A	98	S	92
8745	Timothy (Pine Tree, 6830) ..... Hilliard & Kimball, Exeter	S	99.70	S	94
8898	Timothy (68414, Special) ..... Holbrook Grocery Co., Keene	S	97	S	91
8900	Timothy (68782, White Mtn.) ..... Holbrook Grocery Co., Keene	S	99.65	S	95
8965	Timothy (68828, XX, Special)..... Holbrook Grocery Co., Woodsville	S	98	S	91
8981	Timothy (68783, Pine Tree) ..... Holbrook Grocery Co., Woodsville	S	99.60	S	94
8894	Timothy (68530, Pine Tree)..... E. C. & W. L. Hopkins, Inc., Greenfield	S	99.70	S	95
8839	Timothy (Pan American) ..... Hosmer Brothers, Tilton	S	99.60	S	90
8681	Timothy (Pine Tree, 68874) ..... J. H. Griffin, Newmarket	S	99.70	S	93
8669	Timothy ..... Jenness Hardware Co., Dover	S	99	S	93
8772	Timothy (Pine Tree, 68459)..... LeBlanc & Kashulines Co., Nashua	S	99.70	S	94
8961	Timothy (Special, 68671) ..... Lewis Brothers, Lebanon	S	97	82	91
8820	Timothy (Pan American) ..... Meredith Grain Co., Meredith	S	99.63	S	91.25
8723	Timothy (68114, Pine Tree) ..... Merrimack Farmers' Exc., Concord	S	99.70	S	95
8617	Timothy (Pine Tree, 58400) ..... Merrimack Farmers' Exc., Manchester	S	99.65	S	94
8614	Timothy (Pan American) ..... J. J. Moreau & Son, Manchester	S	99.30	S	90
8825	Timothy (Pine Tree, 68659)..... J. H. Morrill, Laconia	S	99.10	S	95
8721	Timothy (Bay State) ..... Nashua Grain Co., Nashua	S	99.70	S	94
8682	Timothy (Pan American) ..... F. W. Neal & Co., Dover	S	99.60	S	90
8942	Timothy (5776, Liberty) ..... Nelson Warner Co., Charlestown	S	99.66	S	94
8762	Timothy (Pine Tree, 68670) ..... W. O. Patten, Londonderry	S	99.65	S	94
8773	Timothy (Pan American) ..... W. R. Peterson Co., Nashua	S	99.60	48.5	92
8949	Timothy (68023, White Mtn.) ..... Pike & Gale, Littleton	S	99.65	S	95
8915	Timothy (32527, Matrix) ..... W. N. Potter Grain Stores, Inc., Winchester	S	99.65	S	92

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8865	Timothy (Pan American) ..... A. W. Rand, Plymouth	S	99.60	S	90
8955	Timothy ..... Rand, Ball & King Co., Claremont	S	99.60	S	90
8834	Timothy (Pan American) ..... Rand & Dearborn, Laconia	S	99.60	S	90
8824	Timothy (Pan American) ..... H. C. Sanborn, Laconia	S	99.60	S	90
8754	Timothy (Pan American) ..... S. A. Schurman & Son, Portsmouth	S	99.60	S	90
8657	Timothy (Liberty, 6209) ..... J. H. Seavey, Dover	S	99.61	S	92
8811	Timothy (Bay State) ..... Shepard Grocery Co., Franklin	S	99.70	S	93
8969	Timothy (Pan American) ..... F. B. Spaulding Co., Lancaster	S	99.60	S	90
8788	Timothy (Pine Tree, 68530) ..... C. P. Stevens Co., Franklin	S	99.70	S	95
8794	Timothy (Standard Choice, 66X60).. C. P. Stevens Co., Franklin	S	99.50	S	92
8880	Timothy (AA, Lot B, 198)..... Sunshine Feed Store, Keene	S	99.68	S	92
8687	Timothy (Pine Tree 68484) ..... Thompson & Hoague Co., Concord	S	99.70	S	95
8638	Timothy (Pine Tree, 68670) ..... John B. Varick Co., Manchester	S	99.65	S	94
8649	Timothy (Pine Tree, 68207) ..... John B. Varick Co., Manchester	S	99.65	S	95
8758	Timothy (Pine Tree, 67716)..... B. W. Varrill Grain Co., Portsmouth	S	99.50	S	94
8736	Timothy (Pan American) ..... W. A. Young, Exeter	S	99.60	S	90
8737	Timothy (Pine Tree, 68459) ..... W. A. Young, Exeter	S	99.70	S	94
8764	Vetch (Certi-Seed, Hairy) ..... Eastern States Farmers' Exc., Manchester	S	99.10	A	52
8789	Vetch (Certi-Seed, Hairy) ..... J. R. Graham, Boscawen	S	99.10	A	52
8876	Vetch (1010A, Hairy) ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	99.28	S	89
8726	Vetch, Winter (99139) ..... Merrimack Farmers' Exc., Concord	S	99.76	S	94
8956	Vetch, Winter ..... Pike & Gale, Littleton	S	99.36	62	80
8661	Vetch, Winter (3535) ..... J. H. Seavey, Dover	S	98	S	90
8694	Vetch, Winter (99137) ..... Thompson & Hoague Co., Concord	S	99.58	S	94
8627	Vetch, Spring (52536) ..... John B. Varick Co., Manchester	S	98.50	S	88
8730	Wheat (Marquis type Spring, 07544) Merrimack Farmers' Exc., Concord	S	99.40	S	95
8617	Wheat, Spring (07527) ..... John B. Varick Co., Manchester	S	99	S	96
8707	White Clover (4292) ..... A. H. Britton, Concord	S	98.07	S	85

A = Above S = Satisfactory

SEED INSPECTION, 1933—Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8931	White Clover (Fancy) ..... Farm Service Stores, Inc., Keene	S	98.94	A	78
8612	White Clover (Fancy) ..... J. J. Moreau & Son, Manchester	97.32	98	A	60
8663	White Clover (4418) ..... J. H. Seavey, Dover	S	97.20	S	84
8879	White Dutch Clover (AA, Lot 18).... Sunshine Feed Store, Keene	S	99	A	84
8693	White Clover (264) ..... Thompson & Hoague Co., Concord	S	98.60	S	83

A — Above S — Satisfactory

SUMMARY TABLE

Showing General Results of Seed Inspection Work
for the year ending June 30, 1933

	Number of Samples	Purity Compared to Guarantee				Germination Compared to Guarantee			No guarantee
		Above	Satisfactory	Below	No guarantee	Above	Satisfactory	Below	
Alfalfa	9	0	9	0	0	1	7	1	0
Alsike Clover	36	1	34	1	0	10	25	1	0
Barley	18	0	18	0	0	0	18	0	0
Bluegrass, Kentucky	1	0	1	0	0	0	1	0	0
Buckwheat	6	0	6	0	0	0	6	0	0
Canada Field Peas	5	0	5	0	0	0	5	0	0
Millet, German	1	0	0	1	0	0	0	1	0
Millet, Hungarian	33	1	27	5	0	0	28	5	0
Millet, Japanese	35	2	31	2	0	0	27	8	0
Mixture, Hayland	2	0	2	0	0	0	2	0	0
Oats	21	0	19	0	2	0	17	2	2
Orchard Grass	1	0	1	0	0	0	1	0	0
Rape	2	0	2	0	0	0	2	0	0
Red Clover	58	1	48	9	0	5	51	2	0
Red Top	58	6	45	7	0	0	52	6	0
Rye	5	0	5	0	0	0	3	2	0
Rye Grass	1	0	0	1	0	0	1	0	0
Soy Beans	7	0	7	0	0	0	4	3	0
Sweet Clover	4	0	4	0	0	0	2	2	0
Timothy	65	2	60	3	0	0	62	3	0
Vetch	8	0	8	0	0	2	5	1	0
Wheat	2	0	2	0	0	0	2	0	0
White Clover	6	0	5	1	0	3	3	0	0
Total	384	13	339	30	2	21	324	37	2

PAS
630.72
N532
no. 272-284