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Taylor, F. W.

App, Frank

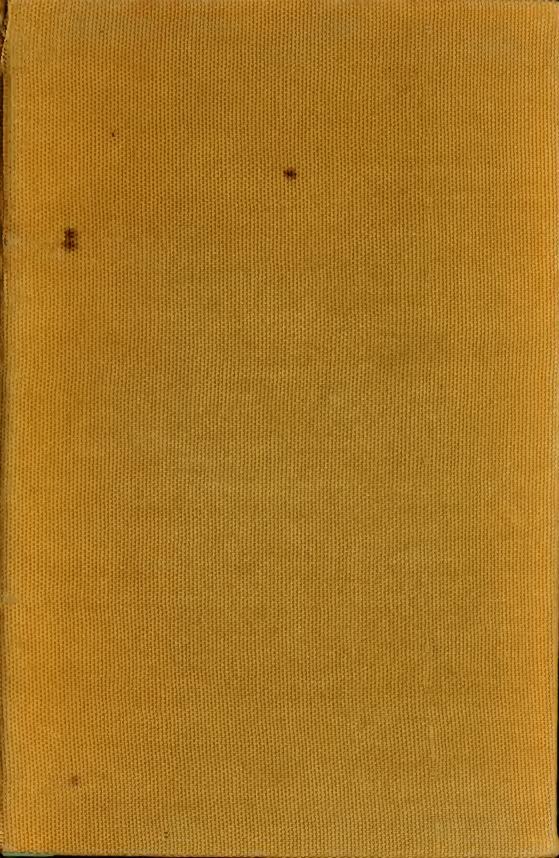
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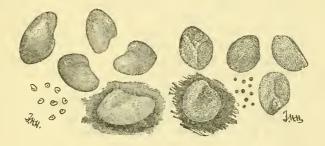
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NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION DEPARTMENT OF AGRONOMY

Results of Seed Tests

For 1913

MADE FOR THE STATE BOARD OF AGRICULTURE



BY F. W. TAYLOR and FRANK APP

NEW HAMPSHIRE COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS, DURHAM, N. H.

NEW HAMPSHIRE COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS.

NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION DURHAM, N. H.

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The bulletins of the Experiment Station are published at irregular intervals and are sent *free* to all residents of New Hampshire requesting them.

SEED TESTS

MADE DECEMBER 1, 1912, TO SEPTEMBER 1, 1913.

The provisions of the Pure Seed Law enacted by the General Court in 1909 require the publication annually of a bulletin by the New Hampshire Experiment Station of the results of all seed tests made officially during the previous year. The administration of said law was placed in the hands of the secretary of the State Board of Agriculture, who appointed the writer, agronomist of the experiment station, as his regular agent for making all tests and analyses in this state.

During the year, or rather the nine months' period from December 1 to September 1, only thirty-four samples were voluntarily sent in for analysis as against fifty-five for 1912, seventy-eight for 1911 and two hundred and thirtyeight for 1910. In addition to these thirty-four samples the fertilizer collector secured and sent in seventy-three samples, making a total of one hundred and seven analyzed during the nine months. These seventy-three samples were taken from seeds being offered for sale and were collected from thirty-one dealers in twenty-five different towns representing each of the ten counties of the state. These samples included two of alfalfa, three of alsike clover, twenty-two of seed corn, two of Hungarian, nine of millet, nine of seed oats, seven of red clover, three of redtop and sixteen of timothy. A summary table showing the results of the examination of these seventy-three samples will be found on pages 4 and 5.

The writers wish to acknowledge their appreciation of the careful and efficient work of Mr. C. E. Roberts, who assisted in making the tests and examinations of the samples herewith reported.

SUMMARY TABLE SHOWING RESULTS OF EXAMINATION OF SAMPLES OF SEED OBTAINED BY THE COLLECTOR FOR THE YEAR 1913.

		 Des	cent	D	reent
No.	Kind of Sced, Brand, Name and Address	Pt	rity	Germ	ination
	of Seller.	Found	Guaran- teed	Found	Guarau- teed
395	ALFALFA, (White Mt.)	99.7	99.5	90.0	92.0
411	ALFALFA, (White Mt.) Holbrook-Marshall Co., Nashua. ALFALFA, (Turkestan). S. A. Schurman & Son, Portsmouth.	99.3	94.0	94.0	92.0
393	S. A. Schurman & Son, Portsmouth. ALSIKE CLOVER McQuestion & Co., Nashua.	99.3	97.8	89.0	97.2
437		99.4	97.0	93.0	92.0
468	Abbott Grocery Co., Keene. ALSIKE CLOVER.	98,8	96.0	92.5	93.0
405	ALSIKE CLOVER. W. H. Whitcomb, Canaan. CORN, (Improved Learning No. 2961)			90.0	
406	W. C. Dennison. Hillsborough. CORN, (Sanford No. 2658)			82.0	
427	W. C. Dennison, Hillsborough. CORN, (Improved Leaming) F. W. Huntley, Charlestown.	¹		90.0	
443	CORN. (Leaming)		•••••	85,0	
441	CORN. (Leaming)			90.0	
445	E. T. Willson, Farmington. CORN, (Improved Learning)	 		84.0	
446	J. Jones & Son. Alton. CORN. (Sanford)			66.0	
447	J. Jones & Son, Alton. CORN, (Cuban Giant) F. H. Moore, Laconia.			90.0	
448	CORN. (Sanford)			82.0	
449	F. H. Moore, Laconia. Corn, (St. Charles).			90.0	
459				69.0	
461	CORN, (Sanford) F. P. Brown, Whitefield. CORN, (Sanford) G. E. Smith, Warren.			94.0	92.0
462	CORN, (Sanford)			96.0	
463	C. P. Stevens, Franklin. CORN, (Leaming)			83.0	
464	C. P. Stevens. Franklin. CORN, (<i>Red Cob</i>) E. H. Bryant, Tilton.			92.0	
465	CORN, (Stowell's)			90.0	
466	E. H. Brvant, Tilton. CORN, (Pride of the North)			90-0	
471	E. H. Brvant, Tilton. CORN, (Eureka).			87.0	
472	J. H. Haskell, Claremont. Corn, (Sanford)			98.0	98.0
473	J. H. Haskell, Claremont, CORN, (Sanford) J. B. Variek Co., Manchester, CORN, (Early Mastodon) J. B. Variek Co., Manchester, CORN, (Improved Leaming) J. B. Variek Co., Manchester, CORN, (Leaming) Moulton & Clark Lishon			84.0	85.0
474	J. B. Varick Co., Manchester. CORN, (Improved Leaming)			88.5	92.0
477	J. D. Varick Co., Manchester. CoRN, (Leaming)			84.0	90.0
409	Moulton & Clark, Lisbon. HUNGARIAN W. C. Dennison, Hillsborough.	99.4	98.0	85.5	88.0
434	HUNGARIAN (Old Home)	99.2	98.0	75.5	89. 0
391	Abbott Grocery Co., Keene. Miller, (Japanese).	99.1		88.5	
392	O. B. Tilton, Nashua. MILLET, (Hungarian).	99.2	98.0	89.0	99.0
396	McQuestion & Co., Nashua. MILLET, (Golden) O. B. Tilton, Nashua.	99.6		85.5	
407	W. C. Dennison, Hillsborough.	99.7 *	98, 0	98.5	97.0
414	S. A. Schurman & Son, Portsmouth.	99.4	96.0	82,0	81.0
431	Ball & Ripley, Winchester.	99.0	90.0	90.0	91.0
4 39	MILLET, (German)	99.8	99.0	96.0	94.0
	10. D. Gartek CO., Brauchester.)		

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No.	Kind of Seed, Brand, Name and Address	Pe P	ercent urity	P Gerr	ercent mination
N0.	of Seller.	Found	Guaran- teed	Found	Guaran- teed
441	MILLET. (Hungarian) J. H. Haskell, Claremont.	\$9.5	97.0	92.0	92.0
467	J. H. Haskell, Claremont. MILLET, (Japanese)	90.5	85.0	78.0	90.0
387	 J. H. Haskel, Claremont. MILLEY, (Japanese). C. M. Merrill & Son, Bristol. SEED OATS, (White Mt.)	99,8	99.0	98.0	97.0
421	F. I. Webber, Rochester.			97.0	
422	OATS G. H. Ames & Co., Keene. OATS			86.5	
457	J. B. Varick Co., Manchester. SEED OATS, (Welcome)	98.5		92.0	
458	 A. H. Ames & Co., Manchester. J. B. Variek Co., Manchester. SEED OATS, (Welcome)	99.5		99.0	
475	W. B. Blaisdell, Wolfeboro. OATS W. H. Whitcomb, Canaan.	97.6		94.0	
476	W. H. Whitcomb, Canaan. SEED OATS	99.6		98.5	
478	SEED OATS. H. L. Bailey, Enfield. SEED OATS. E. E. Hodgdon, No. Conway.	97.6		2.5	
479		99.7		78.5	
385	 E. E. Hodgdon, No. Conway, RED CLOVER, (Fancy). F. I. Webber, Rochester, RED CLOVER, (Extra Fancy). O, B. Tilton, Nashua, Dur CLOVER, (Extra Fancy). 	98.0	97.0	96.0	97.0
398	F. I. Webber, Kochester. RED CLOVER, (Extra Fancy)	99.8	99.5	93.0	93.0
410	RED CLOVER, (I'an American)	99, 0	98.0	86.0	
428	H. A. Yeaton & Son, Portsmouth. RED CLOVER, (Old Home)	98.0	97.0	95.0	93.0
450	Abbott Grocery Co., Keene. RED CLOVER	97.7	98.0	95.5	
456	W. B. Blaisdell, Wolfeboro. RED CLOVER, (<i>Eureka</i>) F. W. Huntley, Charlestown.	98.7	99.7	96.5	
470		96.8	98.0	90.0	94.0
394	W. L. Whitcomb, Canaan. RED TOP, (Fancy No. 1). W. F. Peel, Nashua.	96.8		74.5	
402		97.8	95.0	84.5	93.0
413	O. B. Thiron. Nashua. RED TOP. $(Fancy)$	97.8	98.0	70.0	
386	 RED TOP, (<i>v</i> nue <i>m</i>(<i>x</i>),	99.3	99.5	89.0	
399	F. I. Webber, Rochester. TIMOTHY, (White Mt.)	99.8	99.6	93.0	97.0
412	O. B. Tilton, Nashua. TIMOTHY, (Pan American). H. A. Yeaton & Son, Portsmouth. TIMOTHY, (Old Home). Ubert Concern Co. Version	99.7	99.5	90.0	
429	H. A. Yeaton & Son, Portsmouth. TIMOTHY, (Old Home)	98.4	97.4	94.0	94.0
430	Anonte Grocery Co., Keene.	98.2	96.0	92.0	92,0
432	TIMOTHY Ball & Riplev, Winchester, TIMOTHY, (Ping Tree).	99.6		93.0	
433		96.6	99.6	90.0	
436	B. 5. Hanna, West Swanzey. TMOTHY, (Gold Medal). F. W. Hunley, Charlestown. TMOTHY, (Mastif). Abbott Grocery Co., Keene.	99,5	99.5	95.5	95.0
438		99.5	99.5	93.0	96.0
440	J. B. Varick Co., Manchester. TIMOTHY, (Prime.)	98.4	98,0	98.5	99.0
442	J. B. Varick Co., Manchester. TIMOTHY, (Pine Tree)	99.8	99.5	96,5	95, 0,
451	TIMOTHY, (Acystone Fancy)	99.2	99.0	96.0	
452	E. F. Brown, Össipee. TIMOTHY, (63603)	99.5	99.0	95.0	
453	W. B. Blaisdell, Wolfeboro. ТІМОТНҰ, (White Square Deal) О. L. & C. A. White, Mountainview.	98.7	98.0	95.5	96.0
		99.6		98.5	
469	J. H. Haskell, Claremont. TIMOTHY, (Bison) C. S. Collins, Bristol.	98.3	97.5	95.0	95.0
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SEED EXAMINATION, 1913.

Sample number.	Kind of Seed, Sender, Date of Report, and Kind and Number of Foreign Seeds found in One Pound.	Per cent. of Pure seed.	Per cent. of Weed seed.	Per cent. of other Grass seeds.	Per cent. of Inert Mat- ter.	Per cent. of Germ in a - tion.
373	TIMOTHY, (Pine Tree) Earle Warren, Westmoreland Depot, N. H. Jan. 15, 1913. Lady's Thumb, 454; Sedge, 227.	99.8	trace	trace	.2	96.5
374	 15, 1913. Lady's Thumb, 454; Sedge, 227. TIMOTHY, (Bison). Earle Warren, Westmoreland Depot, N. H. Jan. 15, 1913. Peppergrass, 1716; Pigweed, 227; Red Clover, 2,724; Red Top, 3,405; Ruggles Plantain, 454; Sorrel, 454; False Flax, 227. TIMOTHY, (Mastif). Earle Warren Westmoreland Depot, N. H. Feb. 	98.5	.3	.5	.7	92.5
375	Rea Clover, 2, 724; Rea Top, 5,405; Ruggles Plantain, 454; Sorrel, 454; False Flax, 227. TIMOTHY, (<i>Mastif</i>) Earle Warren, Westmoreland Depot, N. H. Feb. 11, 1913. Docks, 272; Lady's Thumb, 4,624;	99.3	trace	.3	.4	95,0
376	 TIMOFHY, (Masal) Earle Warren, Westmoreland Depot, N. H. Feb. 11, 1913. Docks, 272; Lady's Thumb, 4,624; Peppergrass, 454; Red Clover, 272. TIMOTHY, (<i>Old Home</i>). Earle Warren, Westmoreland Depot, N. H. Feb. 11, 1913. Green Foxtail, 272; Red Clover, 1,360. 	99.0	trace	.2	.8	84.0
377	CORN. (Sanford). Holbrook Grocery Co., Keene, N. H. March 17, 1913. Barley, 30; Wheat, 30. OATS, (E. M.).	99.6		.4	trace	94.0
378	OATS, (E. M.). Holbrook Grocery Co., Keene, N. H. March 25, 1913.					83.0
379	OATS, (110). Holbrook Grocery Co., Keene, N. H. March 31, 1913. Barlev, 22; Charlock, 44; Pigweed, 22; Sorrel, 44; Unknown, 22.	95.1	.1	trace	4.5	78.0
380	OATS, (111). Holbrook Grocery Co., Keene, N. H. March 31, 1913. Green Foxtail, 30; Barley, 30; Char- lock, 120; Sorrel, 30; Wheat, 60.	90.4	.1	.4	9.1	72.0
381	OATS, (112)	96.7			3.3	99,0
382	OATS. (113) Holbrook Groccry Co., Keene, N. H. March 31, 1913.	99.7			.3	99.0
383	SWEET CORN, (Golden Bantam) C. L. Jenness, Dover, N. H. April 7, 1913.					61.5
384	WHITE OATS, (Chicago No. 2, Recleaned) Stratton & Co., Concord, N. H. April 27, 1913.	99.3			.7	98.0
385	RED CLOVER, (Fancy) F. I. Webber, Rochester, N. H. April 28, 1913. Green Foxtail, 1910; Ribgrass, 1,001; Timothy, 6,916.	98.0	.5	.5	1.0	96.0
3 86	TIMOTHY, (Bay State) F. I. Webber, Bochester, N. H. May 12, 1913	99.3			.7	89.0
387	F. I. Webber, Rochester, N. H. April 28, 1913.	99.8			.2	98.0
388	SEED OATS, (White Mt.)	99.9			.1	96.0
389	OATS, (Commercial No. 112). Holbrook Grocery Co., Keene, N. H. April 28, 1913. Black Mustard, 90; Green Foxtail, 30; Wild Buckwheat, 60.	99.1	trace		.9	65.5
390	OATS, (Commercial No. 113) Holbrook Grocery Co., Keene, N. H. April 28, 1913. Black Mustard, 90; Green Foxtail, 60;	99.0	.1		.9	84.5
391	Lady's Thumb, 30; Wild Buckwheat, 60. MILLET, (Japanese). O. B. Tilton, Nashua, N. H. April 28, 1913. Lady's Thumb, 91; Pigweed, 455; Ragweed, 455; Unknown, 91.	99.1	.5		.4	88.5
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ole number.			Per cent. of Weed seed.	cent. of er Grass ls.	Ma	
E B	Kind of Seed, Sender, Date of Report, and Kind and Number of Foreign Seeds found in One Pound.	Per cent. Pure see	se	Gp	nt l	ii
ple	Kind and Number of Foreign Seeds	မီခ	ge	er ce	rte	B B G
Sample	found in One round.	r a	/ec	the	er.	rei
Sa		Å H	$\square_{\rm P}$	Per cer other (seeds.	Per cent. Inert Ma ter.	Per cent. Germ in a tion.
1						
392	HUNGARIAN McQuestion & Co., Nashua, N. H. May 7, 1913. Black Mustard, 182; Lady's Thumb, 546; Wild Buckwheat 273	99.2	. 5	• • • • • • •	.3	80,0
	McQuestion & Co., Nashua, N. H. May 7, 1913.					
	Black Mustard, 182; Lady's Thumb, 546; Wild Buckwheat, 273.					
393	ALSIKE CLOVER.	99.3	.2	.2	.3	89.0
000	McQuestion & Co., Nashua, N. H. May 20, 1913.	00.0				0010
	ALSIKE CLOVER. McQuestion & Co., Nashua, N. H. May 20, 1913. Canada Thistle, 227; Pigweed, 227; Ribgrass,					
20.1		00.0			3.2	74.5
394	W. F. Peel, Nashua, N. H. April 28, 1913	96.8			0.2	14.0
395	ALFALFA, (White Mt.)	99.7			.3	90.0
	 Z.2.1, Solici, 405. RED TOP, (Fancy No. 1). W. F. Peel, Nashua, N. H. April 28, 1913. ALFALFA, (White Mt.). Holbrook-Marshall Co., Nashua, N. H. April 28, 1913. 					
396						
930	O B Tilton Nashua N H April 20 1013	99.6	trace	•••••	.4	85.5
	MILLET, (Golden) O. B. Tilton, Nashua, N. H. April 29, 1913. Kentucky Bluegrass, 91; Lamb's Quarters, 91.					
397	O ATS					93.5
	OATS E. C. & W. L. Hopkins, Greenfield, N. H. April 28, 1913.					
398	28, 1913. RED CLOVER (Extra Fancy)	99.S			.2	93.0
0	 Description (Extra Fancy)	227.0				50.0
399	TIMOTHY. (White Mt.)	99.8	.1		.1	93.0
	O. B. Tilton, Nashua, N. H. May 12, 1913.					
400	Kentucky Bluegrass, 1,362; White Clover, 227.					87.0
-100	C L Jenness Dover N H April 21 1913	••••				01.0
401	Kentuckv Bluegrass, 1,502: White Clover, 221, Sweet CORN, (Golden Bantam No. 1) C. L. Jenness, Dover, N. H. April 21, 1913, Sweet CORN, (Golden Bantam No. 2) C. L. Jenness, Dover, N. H. April 21, 1913, RED TOP, (White Mt.) O. B. Tilton, Nashua, N. H. May 12, 1913, Yarrow, 1,860.					52.5
	C. L. Jenness, Dover, N. H. April 21, 1913.				0.0	o
402	RED TOP. (White Mt.)	97.8	trace		2.2	84.5
	U. B. Thion. Nashua, N. H. May 12, 1913. Varrow 1 860					
403	OATS					88.5
	Morris E. Henderson, Merrimack, N. H. April					
	29, 1913.	1 00			. 9	98.0
404	BAFLEY, (H. W.) Holbrook Grocery Co., Keene, N. H. April 29,	99.1			• • •	00.0
	1913					
405	FIELD CORN. (Improved Learning No. 2691) W. C. Dennison, Hillsborough, N. H. May 7.			•••		90.0
	W. C. Dennison, Hillsborough, N. H. May 7.					
406	1913. FIELD CORN (Sanford No. 2058)					82.0
400	FIELD CORN. (Sanford No. 2058)					
						00 5
407	JAPANESE BUCKWHFAT.	99.7	. 2		.1	98.5
	W. C. Dennison, Huisborough, N. D. May (. 1013 Barnyard Grass 182. Lamb's Quarters					
	 JAPANESE BUCKWHFAT. W. C. Dennison, Hillsborough, N. H. May 7. 1913. Barnvard Grass, 132: Lamb's Quarters 91; Bull Thistle, 91; Wild Buckwheat, 91. OATS, (W. J. B. No. 1). Holbrook Grocery Co., Keene, N. H. April 29. 					
408	OATS, (W. J. B. No. 1)	99.9			.1	96.5
	Holbrook Grocery Co., Keene, N. H. April 29.					
409		99.4	.4	1	.2	85.5
	HUNGARIAN W. C. Dennison, Hillsborough, N. H. May 7, 1913, Lady's Thumb, 545; Pigweed, 91; Rag- weed 264					
	1913. Lady's Thumb. 545; Pigweed, 91; Rag-					
410	weed, 364.	00.0	.2		.8	86.0
210	H A Veston & Son Portsmouth N H June	99.0	•		1	
	RED CLOVER, (Pan American) H. A. Yeaton & Son. Portsmouth, N. H. June 12, 1913, Green Foxtail, 364; Pigweed, 91; Ribgrass, 273. ALFALFA. (Turkestan)				1	
	Ribgrass, 273.					
411	ALFALFA, (Turkestan)	99.3	- 2	•••••	.5	94.0
	S. A. Schurman & Son, Portsmouth, N. H. June 12, 1913 Green Foxtail 91, Bull Thistle, 91;					
	Ribgrass, 182; Sorrel, 91.					
412	TIMOTHY. (Pan American)	99.7	trace	trace	.3	90.0
	 A. Schurman & Son, Fortsmoult, A. H. June 12, 1913. Green Foxtail, 91; Bull Thistle, 91; Ribgrass. 182; Sorrel, 91. TIMOTHY. (Pan American). H. A. Yeaton & Son, Portsmouth, N. H. June 12, 1913; Kentucky Bluegrass, 227; Shepherd's Duras 2927 					
	12, 1913; Kentucky Bluegrass, 227; Shepherd's Purse, 227.					
	- unot,					

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ple number.		9	nt. of seed.	ದೆ		
B	Kind of Seed, Sender, Date of Report, and Kind and Number of Foreign Seeds	cent. e see	Per cent. Weed see	cent. T Gr: Is.	cent. rt Ma	cent. min
ple	found in One Pound.	οo	ge	er ds	cc	b B c
E I	tound in One round.	Per Pur	Vec	thee	er.	191
Sample		ЪЧ	P.P.	Per cen other seeds.	Per cen Inert ter.	Per cen Germ i tion.
413	RED TOP, (Fancy) S. A. Schurman & Son, Portsmouth, N. H. June	97.8			-2.2	70.0
	S. A. Schurman & Son, Portsmouth, N. H. June					
	12, 1913.	00.4				
414	MILLET, (German) S. A. Schurman & Son, Portsmouth, N. H. June	99.4	.3	trace	.3	82.0
	12, 1913. Kentucky Bluegrass, 91; Lady's					
	Thumb, 819, Pigweed, 91.					
415	BARLEY	99.3		trace	.7	98.0
	Gates & Moore, Lisbon, N. H. May 7, 1913.					
	Oats, 120.					
416	OATS, (No. 1)	99.5		.2	.3	86.0
	Gates & Moore, Lisbon, N. H. May 7, 1913. Wheat. 60.					
417		97.3		1.3	1.4	82.5
717	OATS, (No. 2) Gates & Moore, Lisbon, N. H. May 7, 1913.			1.0		02.0
	Barley, 90; Wheat, 180.					
418	TIMOTHY, (Sample A) Bailey & Rogers, Tilton, N. H. May 7, 1913. Kentucky Bluegrass, 454; Red Clover, 227.	-99.7		.1	.2	96.5
	Bailey & Rogers, Tilton, N. H. May 7, 1913.					
	Kentucky Bluegrass, 454; Red Clover, 227.	00.0		_		95.0
419	OATS, (No. 114) Holbrook Grocery Co., Keene, N. H. May 7, 1913. Green Foxtail, 30; Barley, 60; Wild	99.2		.ō	.3	50.0
	1913 Green Foxfail 30: Barley, 60; Wild					
	Buckwheat, 30.					
420	TIMOTHY, (Sample B)	-99.5		. 1	.4	95.5
	TIMOTHY, (Sample B) Bailey & Rogers, Tilton, N. H. May 7, 1913.					
4.51	Kentucky Bluegrass, 2,448.					0
421	OATS G. H. Ames & Co., Keene, N. H. May 7, 1913.	• • • • • •			• • • • • •	97.0
422	G. H. Ames & Co., Reene, N. H. May 1, 1010.					86.5
	OATS J. B. Varick & Co., Manchester, N. H. June 12, 1913.					
	12, 1913.					
423	OATS Holbrook Grocery Co., Keene, N. H. May 12, 1913. Barley, 60; Wild Sunflower, 60; Wild Buckwheat, 60; Wheat, 30.	98.9	.7	.2	.2	95.5
	Holbrook Grocery Co., Reene, N. 11. May 12,					
	Buckwheat, 60: Wheat, 30.					
424	OATS. (No. 1)	99.2	trace	.2	.6	94.5
	OATS, (No. 1) Holbrook-Marshall Co., Nashua, N. H. May 7, 1913. Wild Buckwheat, 30; Wheat, 30.					
	1913. Wild Buckwheat, 30; wheat, 30.					97.0
425	CORN, (Red Cob) C. L. Jenness, Dover, N. H. May 7, 1913.	• • • • • •				91.0
426	CORN (Leaming)		1			90.0
420	CORN, (Leaming) C. L. Jenness, Dover, N. H. May 7, 1913.					
427	CORN, (Improved Learning)					90.0
	CORN, (Improved Learning) F. W. Huntley, Charlestown, N. H. June 12,					
428		98.0	.7		1.3	95.0
428	RED CLOVER, (Old Home) Abbott Grocery Co., Keene, N. H. June 12, 1913. Docks, 227; Green Foxtail, 1,135; Pigweed,	10.7.0		•••••	1.0	00.0
	Docks, 227; Green Foxtail, 1,135; Pigweed,					
	227; Ribgrass, 681; Sorrel, 454.					
429	TIMOTHY, (Old Home)	98.4	trace	.5	1.1	94.0
	Abbott Grocery Co., Keene, N. H. June 12, 1913.					
	Kentucky Bluegrass, 3,632; Peppergrass, 454; Red Clover, 2,951; Sorrel, 227.					
430	TIMOTHY	98.2	trace	.4	1.4	92.0
100	TIMOTHY Ball & Ripley, Winchester, N. H. June 12, 1913. Kentucky Bluegrass, 2,043; Red Clover, 2,427;					
	Kentucky Bluegrass, 2,043; Red Clover, 2,427;					
401	Shepherd's Purse, 681.	00.0				00.0
431	MILLET, (Japanese) Ball & Ripley, Winchester, N. H. June 12, 1913. Ragweed, 91; Shepherd's Purse, 273; Mallow,	99.0	.4	• • • • • •	.6	90.0
	Bagweed, 91: Shepherd's Purse, 273: Mallow					
	182; Unknown, 182.					
432	TIMOTHY, (Pine Tree)	99.6	trace	trace	.1	93.0
	182; Unknown, 182. TIMOTHY, (Pine Tree) E. J. Hanna, W. Swanzey, N. H. June 12, 1913. Kentucky Bluegrass, 1,362; Red Clover, 227.			a ale a las		
	remacky macgrass, 1,502; neu Olover, 227.					

SEED	EXAMI	NATION	, 1913.—0	Continued.
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		of.	11 :	of	of at-	of a -
ple number		.0	nt. of seed.		Ia	58
E	Kind of Seed, Sender, Date of Report, and	cent. e see	at. se	cent. er Gra ls.	cent. rt M	cent. :m i n 1.
le	Kind and Number of Foreign Seeds	Gel	lei		t	B.G.
dr 1	found in One Pound.		000		. er	, ra
Sample		Per ce Pure	Ver	Per ce other seeds.	For cel Inert	tio er
202		<u>А</u>	Per cent. Wecd see	<u>д т т</u>	A.	Per cen Germ i tion.
-						1
433	TIMOTHY, (Gold Medal) W. Huntley, Charlestown, N. H. June 12, 1913.	96,6	trace	trace	. 1	90.0
	W. Huntley, Charlestown, N. H. June 12, 1913.				}	
	Kentucky Bluegrass, 681; Snephera's Purse,					
	227.					
434	HUNGARIAN, (Old Home)	99.2	.2		. 6	75.5
	Abbott Grocery Co., Kecne, N. H. June 12, 1913.					
405	 LUNGARIAN, (Old Home) Abbott Grocery Co., Keene, N. H. June 12, 1913. Old Witchgrass, 681; Ragweed, 454. OATS, (No. 115 M. & T.) Holbrook Grocery Co., Keene, N. H. May 20, 1913. False Buckwheat, 30; Wheat, 150. TUNOTHY (Magif) 	00.1				00.0
435	Halbrook Grocowy Co. Koong N. H. May 20.	99.1	trace	.8	.1	92.0
	1012 Falso Buckwheat 30. Wheat 150					
490	TINOTHY (Mastiff)	99.5	trace	.1	.4	95.5
436	Abbott Grocery Co. Keene N. H. June 23, 1913.	55.0	trace			30.0
	TIMOTHY, (<i>Mastiff</i>) Abbott Grocery Co., Keene, N. H. June 23, 1913. Kentucky Bluegrass, 2,951; Red Top, 1,135;					
	Shepherd's Purse, 454.					
437	ALSIKE CLOVER, (Mastiff)	99.4	trace	.2	.4	93.0
	Abbott Grocery Co., Keene, N. H. June 23, 1913.					
	Shepherd's Purse, 454. ALSIKE CLOVER, (<i>Mastiff</i>)					
438		99.5	trace	.1	.4	93.0
	J. B. Varick & Co., Manchester, N. H. June 23,					
100	1913; Peppergrass, 227; Unknown, 227.	00.0			1 0	0.00
439	MILLET, (German) J. B. Varick & Co., Manchester, N. H. June 23,	99.8			.2	96.0
	1913.					
440		93.4	trace	.3	.3	98.5
1.10	TIMOTHY, (Prime). J. B. Varick & Co., Manchester, N. H. June 23, 1913. Kentucky Bluegrass, 4,994; Pepper- grass, 1,135; Red Clover, 1,135; Red Top, 1916.	0	truce.		10	1
	1913 Kentucky Bluegrass, 4,994; Pepper-					
	grass. 1.135; Red Clover, 1.135; Red Top,					
	1,816.					
441	MILLET, (Hungarian)	99.5	.5	1	trace	92.0
	J. H. Haskell, Claremont, N. H. June 23, 1913.					
	 MILLET, (Hungarian) J. H. Haskell, Claremont, N. H. June 23, 1913. Lamb's Quarters, 2,275; Bull Thistle, 91; Pig- 			1		
110	weed, 91; Ragweed, 91.					
442	TIMOTHY, (Pine Tree). J. B. Varick & Co., Manchester, N. H. June 23, 1913. Kentucky Bluegrass, 227; Peppergrass, 681; Red Clover, 227; Red Top, 681. Corn, (Leaming).	99.8	trace	trace	.2	96.5
	J. B. Varick & Co., Malichester, N. H. June 25, 1012 Kontucky Physics 227: Popporgrass			1		
	681. Red Clover 227. Red Top 681					
443	CORN, (Leaming)					85.0
110	CORN, (Leaming) F. H. Moore, Laconia, N. H. June 23, 1913.					00.0
444	CORN. (Leaming)					90.0
	CORN, (Leaming). E. T. Willson, Farmington, N. H. June 23, 1913.					1
445	(ORN (Improved Leaming)					84.0
	J. Jones & Son, Alton, N. H. June 23, 1913.					
446	CORN, (Sanford)					66.0
447	J. Jones & Son. Alton, N. H. June 23, 1913.					00.0
317	J. Jones & Son, Alton, N. H. June 23, 1913. CORN, (Sanford) J. Jones & Son, Alton, N. H. June 23, 1913. CORN, (Cuban Giant). F. H. Moore, Laconia, N. H. June 23, 1913.		*****			90.0
448	CORN. (Sanford)					82.0
	CORN, (Sanford) F. H. Moore, Laconia, N. H. June 23, 1913.					02.0
449	CORN, (St. Charles)					90.0
	E. T. Willson, Farmington, N. H. June 23, 1913.					
450	RED CLOVER	97.7	.4	.1	1.8	95.5
	W. B. Blaisdell, Wolfeboro, N. H. June 23,				1	
	1913. Docks, 182; Green Foxtail, 728; Hen-					
451	Trisonus (Kaustona Fameri)	00.0	troos	-	-	96.0
401	E E Brown Ossinge N H June 23 1913	99.2	trace	.1	.7	50.0
	Kentucky Bluegrass, 2 724 Pennergrass 454					
	 RED CLOVER. W. B. Blaisdell, Wolfeboro, N. H. June 23, 1913. Docks, 182; Green Foxtail, 728; Heu- bane, 91; Ribgrass, 546; Timothy, 728. TIMOTHY, (Keystone Fancy). E. F. Brown, Ossipee, N. H. June 23, 1913. Kentucky Bluegrass, 2,724; Peppergrass, 454; Red Top, 1,362. TIMOTHY, (No. 63603). W. B. Blaisdell, Wolfeboro, N. H. June 23, 1913. Kentucky Bluegrass, 1,816; Red Clover, 227; Red Top. 681. 					
452	Тімотну, (No. 63603)	99.5		.1	.4	95.0
	W. B. Blaisdell, Wolfeboro, N. H. June 23,				1	
	1913. Kentucky Bluegrass, 1,816; Red Clover,					
	1913. Kentucky Bluegrass, 1,816; Red Clover, 227; Red Top, 681. Trivery (White Scatters Deel)					0
453	 TIMOTHY, (While Square Deal) D. L. & C. A. White, Mountainview, N. H. June 23, 1913. Kentucky Bluegrass, 6,583; 	98.7	trace	.4	. 9	95.5
	O. L. & C. A. White, Mountainview, N. H.					
	Bopporgroup 691, Rentucky Bluegrass, 6,583;	1				
	Peppergrass, 681; Red Clover, 227; Red Top,			1		
	2,043.					

N. II. AGR. EXPERIMENT STATION [Bulletin 166

Sample number.	Kind of Seed, Sender, Date of Report aud Kind and Number of Foreign Seeds found in One Pound.	Per cent. of Pure seed.	Per cent. of Weed seed.	Per cent. of other Grass seeds.	Per cent. of Inert Mat- ter.	Per cent. of Germ i n a - tion.
454	OATS, (White) Somersworth Grain Co., Somersworth, N. H.	• • • • • •	••••			74.0
455	June 2, 1913. TIMOTHY, (<i>Pine Tree</i>) J. H. Haskell, Claremont, N. H. June 23, 1913. Kentucky Bluegrass, 227; Red Top, 2,270. RED CLOVER, (<i>Eureka</i>) F. W. Huniley, Charlestown, N. H. June 23, 1913. Green Foxtail, 364; Lady's Thumb, 182. SEED OATS. (<i>Welcome</i>).	99.6		.1	.3	98.5
456	RED CLOVER, (<i>Eureka</i>)	98.7	.2		1.1	96.5
457	SEED OATS, (Welcome)	98,5	trace	.6	.9	92.0
458	Wild Buckwheat, 30; Barley, 90. SEED OATS. W. B. Blaisdell, Wolfeboro, N. H. June 23, 1913. Bindweed, 30; Wheat, 30; Morning Glory, 30.	99,5	.1	.1	.3	99.0
459	Corn, (<i>Sanford</i>)					69. 0
46 0	CORN. D. F. Hayden, Dover, N. H. June 16, 1913.				•••••	83.5
461	CORN, (Sanford) G. E. Smith, Warren, N. H. June 23, 1913.			••••	••••	94.0
462	CORN, (Sanford) C. P. Stevens, Franklin, N. H. June 30, 1913.				•••••	96.0
463	CORN, (<i>Leaming</i>) C. P. Stevens, Franklin, N. H. June 30, 1913.				••••	83.0
464	CORN, (<i>Red Cob</i>) E. H. Bryant, Tilton, N. H. June 30, 1913.					92.0
465	CORN, (Stowells) E. H. Bryant, Tilton, N. H. June 30, 1913.	•••	1		• • • • • • •	90.0
466	CORN, (Stowells). E. H. Bryant, Tilton, N. H. June 30, 1913. CORN, (Pride of the North). E. H. Bryant, Tilton, N. H. June 30, 1913.					90,0
467	MILLET. (Japanese). C. N. Merrill & Son, Bristol, N. H. June 30, 1913. Barnyard Grass, 364; Lady's Thumb, 91; Wild Buckwheat, 182; Ragweed, 4,095; Yellow Foxtai, 11,375.		9.2	•••••	.3	78.0
468	Yellow Foxtail, 11,375. ALSIKE CLOVER. W. H. Whitcomb, Canaan, N. H.	98.8		trace	1.2	92.5
469	 ALSIKE CLOVER. W. H. Whitcomb, Canaan, N. H. TIMOTHY, (Bison). C. S. Collins, Bristol, N. H. July 1, 1913, Kentucky Bluegrass, 11,577; Peppergrass, 908; Red Top, 681; Sorrel, 681. 		.1	.6	1.0	95,0
470	 RED CLOVER. W. H. Whitcomb, Canaan, N. H. July 1, 1913. Crabgrass, 91; Green Foxtail, 910; Lady's Thumb, 182; Lamb's Quarters, 91; Sorrel, 1,092. 		.5	trace	2.7	90.0
471	CORN, (Eureka)					87.0
472	J. B. Varick & Co., Manchester, N. H. July 1, 1913.					98.0
473	CORN. (Early Mastodon) J. B. Varick & Co., Manchester, N. H. July 1, 1913.					84.0
474	CORN, (Improved Leaming) J. B. Varick & Co., Manchester, N. H. July 1, 1913.					88.5
475	OATS W. H. Whitcomb, Canaan, N. H. July 1, 1913. Barley, 90: Wheat 90.			1.0	2.4	94.0
476	SEED OATS		trace		. 1	98.5
477	Morning Glory, 30. CORN, (Leaming) Moulton & Clark, Lisbon, N. H. July 1, 1913 SEED OATS					84.0
478	SEED OATS. E. F. Hodgdon, No. Conway, N. H. July 1, 1913 Mustard, 30; Barley, 150. SEED OATS. (Company Sample).		trace	1.3	1.1	2.5
479	SEED OATS. (Company Sample) E. E. Hodgdon, No. Conway, N. H. July 1, 1913	99.7			.3	78.5

SUMMARY TABLE, SHOWING THE KINDS OF FOREIGN SEEDS FOUND IN SAMPLES EXAMINED IN 1913 AND THE NUMBER OF SAMPLES IN WHICH THEY WERE FOUND.

	Names of Samples Examined.								
Names of Foreign Seeds.	Red Clover.	Alsike Clover.	Alfalfa.	Timothy.	Redtop.	Millet.	Oats.	Barley.	Buckwheat.
Number of Samples Examined	7	3	2	22	3	10	22	2	1
Barley	······································					1 1 1 1 2 5 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	8 1 2 2 1 2 1 2 2 2 1 2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 	1	



		Dercent Standard	8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
n Toet	* *	Атегаде регсепt	92. 0 95. 5 95. 5 95. 5 93. 4 93. 4 93. 4 93. 4 93. 4	-
Garmination Toet		tsewo.T Jueste	90.0 93.0 93.0 93.0 93.0 93.0 93.0 93.0	
- P	5	tn9519q percent	94.0 933.0 938.0 938.0 939.0 939.0 937.5 937.5 937.0 937.0 937.0 937.0 937.5 937.5 937.0	
	r.	Average percent	4. 6. 00	
	Inert Matter	Jawest Dercent	0.000	
	Iner	treatin percent	1.2.2.2. 	_
	d.	Average percent	0.4 32	
Test.	Foreign Seed.	taevo.I Jueere	8.07 00 000	_
Purity Test.	For	Highest percent	0.14 0.17	
		Standard percent	98.0 95.0 95.0 95.0 99.0 98.0 98.0 98.0	-
	Seed.	Атегадө Апеэтэц	99.5 99.2 99.2 99.7 98.3 99.1 99.1	
	Pure Seed.	tewo.I tasərəq	96.8 96.8 96.8 96.8 96.8 96.8 96.8	
		Highest Jusorsq	99.7 99.3 99.4 99.8 99.8 99.8 99.8 99.8	
	.noit	For Germina	2 25 10 23 28 28 25 10 10 10 10	_
	.tasT	For Purity	2 53 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
°P?		odmun letoT r solqmes	22 25 26 26 26 26 26 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20	
		Kind of Seed.	Alfalfa Alfalfa Alsike Clover Barley Bocwheat Corn, (<i>Ekeld</i>) Corn, (<i>Sweet</i>) Millet Nillet Red Clover Red Clover Red top Timothy Timothy	

N. H. AGR. EXPERIMENT STATION

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It will be noted from the table just preceding that only thirty-eight of the seventy-three samples collected were guaranteed for purity and only thirty-four for germination, or in other words, only about fifty per cent. of the seed represented by the samples was being sold according to the law. Since it is impossible to determine by test whether seed corn or seed oats are true to name, a statement of the percentage of purity of these two seeds is relatively unimportant. The percentage of germination of both of them, however, is very important. Only five of the twenty-two samples of seed corn and only one of the nine samples of seed oats were guaranteed as to germination, while none of the corn and only one sample of oats were guaranteed as to purity. Of the forty-two samples of grass seeds all but five or 88 per cent. were guaranteed as to purity, and all but fourteen or 66 per cent. were guaranteed as to germination.

Of the total thirty-eight samples which were guaranteed for purity thirty-two or 84 per cent. were found to be up to the guarantee, the remaining six falling from .2 per cent. to 3 per cent. below. Of the thirty-four samples guaranteed for germination, only sixteen or 47 per cent. were found to be up to the guarantee, the remaining eighteen falling from .5 per cent. to 13.5 per cent. below.

The average per cent. of purity and vitality of the seeds tested this year as compared with those tested last year shows a better degree of purity and a higher germination for this year's seeds. With the exception of millet, all the grass seeds showed a better test than last year. Field corn was much better, and although one sample of oats germinated only 2.5 per cent., the average was higher than in 1912. No samples of very dirty or foul seed were inspected.

[Bulletin 166

THE TEXT OF THE LAW

STATE OF NEW HAMPSHIRE.

IN THE YEAR OF OUR LORD ONE THOUSAND NINE HUNDRED AND NINE. HOUSE BILL NO. 396.

AN ACT

To Regulate the Sale of Agricultural Seeds.

Be it enacted by the Senate and House of Representatives in General Court convened:

SECTION 1. Every lot of agricultural seeds, including seeds of cereals, grasses, forage plants, vegetables, garden plants, and white pine trees, but not including those of other trees, shrubs, and ornamental plants, which is sold, offered, or exposed for sale for seed in bulk or package of one pound or more, within this state, shall be accompanied by a plainly written or printed guarantee, stating first its percentage of purity from foreign seeds and other matter, and second, its percentage of vitality.

SECT. 2. Sellers or dealers in seeds may base their guarantees upon tests or analyses conducted by themselves, their agents, or by the secretary of the State Board of Agriculture or his agents, *provided* that such tests or analyses shall be made in such a manner and under such conditions as the said secretary may prescribe.

SECT. 3. The results of all tests or analyses of seeds made by the said secretary, together with the names and addresses of the persons from whom the samples of seed were obtained, shall be published annually in a bulletin by the New Hampshire College Experiment Station, and biennially in the report of the State Board of Agriculture. The said secretary shall also publish from time to time in the quarterly report of the State Board of Agriculture equitable standards of purity and vitality, together with such information concerning agricultural seeds as may be of public benefit. SECT. 4. Whoever sells, offers, or exposes for sale or for distribution, within this state, any agricultural seeds heretofore named in this act, without complying with the requirements of sections one and two, or whoever, with intention to deceive, wrongly marks or labels any lot of agricultural seeds, including the seeds of cereals, grasses, forage plants, vegetables, garden plants, and white pine trees, but not including those of other trees, shrubs, and ornamental plants, as pertains to their percentage of purity and vitality, shall be punished by a fine not exceeding one hundred dollars for the first offense, and not exceeding two hundred dollars for each subsequent offense.

SECT. 5. The provisions of the four preceding sections shall not apply to any person growing, selling, offering, or exposing for sale cereals and other agricultural seeds for food.

SECT. 6. The secretary of the State Board of Agriculture shall diligently enforce the provisions of sections one and four of this act, and in his discretion prosecute offenses against the same.

THE OBJECT OF THE LAW

The object of the Pure Seed Law is in substance the same as that of our pure food and fertilizer laws, namely, to have the buyer know just what he is buying. It is intended to provide a means whereby our farmers and other purchasers of seeds may have reliable information, on the basis of which they may protect themselves against the introduction of noxious weeds and against loss through weak or otherwise worthless seeds; also to provide a reasonable protection for eareful, conscientious dealers against negligent, designing, or unscrupulous ones.

It is not the purpose or intent of the law to work a hardship on our seed dealers or to hurt their legitimate business, and neither is it intended to require farmers and other growers to purchase seeds of a better quality than they desire.

LABELING

The law does not apply to the common five and ten-cent packages of garden and flower seeds. Only seeds sold in bulk or in packages of one pound or more are subject to the provisions of the law and are required to be accompanied by a guarantee stating their percentage of purity and vitality.

The guarantee or label may be of any form desired by the seller of the seeds, as a tag, sticker, or direct brand upon the container. It must, however, be plainly written or printed, and placed distinctly visible to the purchaser. Each dealer will provide his own labels.

TAKING OF SAMPLES

To secure a fair average sample of a lot or bulk, take small quantities from all of the bags or from different parts of any particular bulk. Mix thoroughly and take out the sample to be inspected. When the seeds are in bags or large bins, the use of a grain sampler is most convenient since this will insure getting seeds from the top, middle, and bottom alike. Since the report of the analysis is based upon the nature of the sample inspected, it is important that the sample be carefully taken.

SIZE AND AMOUNTS OF SAMPLES

The size and amount of the samples necessary for a test will depend upon the size and weight of the seeds. About one half ounce, or a tablespoonful of the smaller grass and vegetable seeds, like alsike and white clover, redtop, lettuce, onions, radish, turnip, etc.; about one ounce or two tablespoonfuls of the larger seeds, like timothy, millet, red clover, alfalfa, rape, etc.; and about four ounces or a small cupful of the cereal grains or vegetable seeds, like oats, barley, corn, peas, beans, etc., should be sent.

SENDING OF SAMPLES

Samples sent to the experiment station for testing should be enclosed in a strong paper envelope and securely fastened. They should not be sent in bottles or glass jars owing to the danger of breakage. When a number of samples are to be sent they should be put up securely in a single package and forwarded either by pareel post or by express. Each sample sent in should be marked as follows:

Name and address of sender.

Date of sending.

Kind of seed.

Brand name (if any), and number of package.

Purity or germination test desired (one or both).

Write a letter stating the number and kind of samples sent so that their receipt may be promptly acknowledged.

Address all samples and communications regarding the same to F. W. Taylor, Experiment Station, Durham, N. H.

TESTS AND EXAMINATIONS

Section two of the law states the provisions under which the tests and analyses shall be made. The Department of Agriculture has appointed F. W. Taylor, agronomist of the experiment station, as the regular agent for making all tests and analyses in this state. The sellers or dealers who desire to base their guarantees upon tests made by themselves or their agents must first secure the approval of the Department of Agriculture of the methods to be used in making the tests, and of the person who is to conduct them.

OTHER INFORMATION

Other publications on the subject of seed testing are as follows:

Circulars Nos. 34 and 35, U. S. Department of Agriculture, Washington, D. C.

Bulletin No. S.1, Canadian Department of Agriculture, Ottawa, Can.

Bulletin No. 152, Maine Experiment Station, Orono, Me.

Bulletin No. 146, Vermont Experiment Station, Burlington, Vt.

Bulletin No. 270, Michigan Experiment Station, East Lansing, Mich.

Circular No. 4, Wisconsin Experiment Station, Madison, Wis.

Bulletin No. 115, Iowa Experiment Station, Ames, Iowa.

Bulletin No. 110, Nebraska Experiment Station, Lincoln, Neb.

Seed Bulletin No. 1, North Dakota Experiment Station, Fargo, N. D.

Bulletin No. 83, Bureau of Plant Industry, Washington, D. C.

Bulletin No. 267, Michigan Experiment Station, East Lansing, Mich.

Bulletin No. 362, New York Experiment Station, Geneva, N. Y.

Bulletin No. 148, Kentucky Experiment Station, Lexington, Ky.

Bulletin No. 111, Bureau of Plant Industry, Washington, D. C.

Farmers' Bulletin No. 260, Division of Publications, Washington, D. C.

Bulletin No. 170, Maryland Experiment Station, College Park, Md.

Bulletin No. 127, Minnesota Experiment Station, St. Paul, Minn. •



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