

Kentucky Agricultural Experiment Station

UNIVERSITY OF KENTUCKY

THOMAS P. COOPER, Director

SEED INSPECTION IN KENTUCKY, 1940-41

BY W. A. PRICE, MARY DIDLAKE, E. C. VAUGHN, ENCIL DEEN, HOWARD TILSON, ALICE McDANIEL, KATHARINE FRIED, MARGARET MORTON, MARY LEE LITTELL, and LUCY BAUGH

The Kentucky Seed Law, passed by the General Assembly in 1932, benefits both farmers and seedsmen. Whether the individual be buyer or seller of seed, he is directly concerned with the pertinent information on the tag regarding the quality of the seed. The law requires each package, bag or bulk, containing one pound or more, to be labeled with a Kentucky tag giving the name and address of the vendor, the kind and variety of seed, the percentages of pure seed and germination, the date of the germination test, the state or country where grown, and the number of noxious weed seeds per ounce of the seed. The seedsman is held responsible for giving the correct information on the tag.

The dependability of the information on the tag is checked by careful inspections of seed stock held by wholesale and retail dealers and analyses of official samples taken when deemed advisable by the inspectors. During the year July 1, 1940, to June 30, 1941, 4,248 lots of seed were inspected, and 311 official samples taken. Detailed results of the analyses of these samples are tabulated in this bulletin. Variations (in purity, germination, and weed seed per ounce) greater than those allowed constitute violations of the Kentucky Seed Law, and such results are printed in bold-face type in the tables of results of analyses.

Violations of the Seed Law

The number of violations of the Seed Law has decreased from 4.44 percent of total lots inspected in 1938-39 to 3.35 percent in 1939-40 and 1.69 percent this year. This decrease is due largely to the fact that both seedsmen and farmers have come to realize more fully the importance of complying with the provisions of the law, and also to the fact that a better grade of seed is being handled thruout the State.

The educational program conducted in connection with the law enforcement is in great measure responsible for the better grade of seed offered for sale. Most violations are connected directly with low-grade seed.

Federal Seed Act

A new Federal Seed Act, passed by Congress in 1939, requires complete and correct labeling of seeds shipped or delivered from one state to another and restricts the movement of noxious weed seeds in interstate commerce. Seedsmen, farmers, and truckers who transport seeds from one state to another should familiarize themselves with this new law.

Seeds Sold by Farmers

Farmers who advertise seed for sale, in the public press, by circular or catalog, or who deliver seed by common carrier, are considered **vendors** and are subject to all the provisions and requirements of the state seed law.

Submission of Samples for Analysis

Any individual, firm, or corporation resident in the State of Kentucky may obtain free analysis of eight (8) samples of personally owned seed during a calendar year, provided that not more than two (2) such samples are submitted in any calendar month. A fee will be charged for each sample submitted in excess of this number. A list of the amounts of such fees will be furnished upon application.

Method of taking the sample. The sample of seed must be taken in such a way that it represents as accurately as possible the lot being sampled. To this end it is important that equal quantities be taken from each container sampled, and from each place in a container, in a given lot of seed.

Number of bags to be sampled. In lots of five bags or less, each bag of seed should be sampled. In larger lots, every fifth bag should be sampled, but never less than five bags. Whenever there is evidence of lack of uniformity in a lot of seed, each bag should be sampled separately. The samples from each bag may be kept separate or they may be combined in composite samples as circumstances require.

Weight of sample to be submitted for analysis. The following are minimum weights of samples to be submitted for analysis:

Grass seed not elsewhere mentioned, white or
alsike clover, or seeds not larger than these.... 2 oz.

Red or crimson clover, alfalfa, rye grasses, brome grasses, millet, flax, rape, or seeds of similar size.....	4 oz.
Cereals, vetches, or seeds of similar or larger size	8 oz.

If the sample is to be examined for origin at least five times the quantities here specified should be submitted.

If means of weighing are not available, samples may be measured as follows: Grass seed, one teacup; alfalfa and clovers, one teacup; cereals (corn, wheat, rye, and seeds of similar size), two teacups.

How to send samples. Seeds submitted for analysis should be placed in containers which will not break easily in the mail, preferably in regular seed envelopes about 4x6 inches* and mailed to the Seed Laboratory, Experiment Station, Lexington, Kentucky. Sometimes, when such envelopes are not used, it takes nearly as long to unwrap a package and transfer the contents to a container suitable for filing as it does to make a purity test. The following should be plainly written on the outside of each envelope or package: (1) Name and address of sender. (2) Kind of seed. (3) Sender's mark. (4) Kind of test desired.

Noxious Weed Seeds

Following is a list of the noxious weeds specified in the Kentucky Seed Law. When seeds of these weeds occur in lots of agricultural seed the number per ounce must be shown on the back of the state seed tag.

Quack Grass, a perennial which propagates by seeds and rootstocks.

Dodder, an annual parasite which propagates by seeds or parts of vine.

Sorrel, a perennial which propagates by seeds and rootstocks.

Buckhorn, a perennial which propagates by seeds and by new shoots from roots.

Corn Cockle, an annual and winter annual which propagates by seeds.

Wild Onion, a perennial which propagates by underground bulbs and aerial bulblets.

Canada Thistle, a perennial which propagates by seeds and rootstocks.

Johnson Grass, a perennial which propagates by seeds and rootstocks.

* Such envelopes can be obtained from the nearest wholesale dealer at a reasonable cost.

Tests at Home

Germination tests of the larger field seeds may be made at home, leaving the Experiment Station Seed Laboratory more time for the difficult analyses of grasses and clovers. Such seeds should be mixed thoroly, and then 100 of them counted out just as they come. These 100 seeds are placed between two thicknesses of folded blotting paper or heavy cloth, such as canton flannel. This is then moistened, placed between ordinary kitchen plates, and kept in a warm room where the temperature ranges about 85° F. during the day and 65° F. at night. Do not place too near a window, stove, or register. The blotting paper or cloth should be kept moist, and seeds which germinate should be counted every two days for at least ten days. The percent of germination is the number of seed sprouted. Do not count weak sprouts.

Bluegrass Seed

The 1941 crop of bluegrass seed, like that of the preceding year, seems to be inferior in quality. Therefore, buyers of bluegrass seed and of mixtures containing bluegrass seed should give special attention to purity and germination as shown on the state tag. Good bluegrass seed should have a purity of 85 or better and a germination of 80, at least, and should be free from noxious weed seed.

Beware of Cheap Lawn-Grass Seed

Many dollars are wasted each year on worthless lawn-grass mixtures. Bluegrass is the basis of good Kentucky lawns and the seed of bluegrass should constitute at the very least one-half of good lawn-grass seed. Ryegrass and red-top are desirable in such mixtures, but timothy should be avoided, since it is not a lawn grass. White clover or alsike clover may be included in small amount. The total purity of lawn-grass seed should be at least 85 percent and the germination of each different kind of seed at least 80 percent. Lots containing noxious weed seed should be avoided. Lawn-grass mixtures are labeled with a blue tag. Read the tag.

Interpretation of Analyses

Those who purchase seeds for planting need to give special attention to both the purity and the germination of the seed in judging its quality. For example, seed that has a purity of 80 percent and germinability of 80 percent is not 80 percent good seed. It is only 64 percent good seed—that is, it is 80 percent of 80 percent good.

TABLE 1.—ANALYSES OF SAMPLES COLLECTED BY INSPECTORS, 1940-41

("L" = percent listed; "F" = percent found by analysis; "F—" = below listed percent; and "F+" = above listed percent.)

Lab. No.	Kind of seed, Name and address of dealer	Purchased from	Purity, percent	Germination, percent	Noxious weed seed
Bluegrass					
0-2819	J. B. Penn & Co., Georgetown	Ross Seed Co., Louisville, Ky.	L 80 F+	L 80 F+	
0-2825	Lot 39-41 John A. Sheehan, Falmouth	Sphar & Co., Winchester, Ky.	L 75 F+	L 80 F—	
0-2828	Lot 1682 Will T. Sheehan, Falmouth	The Market Gardeners' Seed Co., Cincinnati, O.	L 78.5 F+	L 70 F 46	
0-2839	Farmers Supply Co., Eminence	Ross Seed Co., Louisville, Ky.	L 85 F—	L 85 F+	
0-2840	Lot 86 Giltner Seed & Feed Co., Eminence	Scott Seed Co., New Albany, Ind.	L 85 F+	L 80 F+	
0-2841	Duncan & Theiss, La Grange	Lewis Seed Co., Louisville, Ky.	L 85 F—	L 86 F—	Excessive
0-2855	Lot 22140 Thomas & Rankin, Flemingsburg	Woodford Spears & Sons, Paris, Ky.	L 98.29 F 91.55	L 80 F+	
0-2856	N. S. Dudley & Sons, Flemingsburg	Louisville Seed Co., Louisville, Ky.	L 90.19 F+	L 80 F 63	
0-2863	Bedford & Tuttle, Winchester	Unknown	L 74.05 F—	L Blank F 71	
0-2867	Fred Devine, Perryville	Louisville Seed Co., Louisville, Ky.	L 80 F+	L 80 F—	
0-2879	Lot 1448 Barber Hdw. Co., Springfield	National Seed Co., Louisville, Ky.	L 82.68 F—	L 80 F+	
0-2892	Walton & Rednour, Walton	Livingston Seed Co., Cincinnati, O.	L 85.10 F+	L 80 F 69	Excessive
0-2897	Landrus & Yantis, Lexington	Lexington Seed Co., Lexington, Ky.	L 89 F+	L 80 F+	
0-2898	Landrus & Yantis, Lexington	C. S. Brent Seed Co., Lexington, Ky.	L 85 F—	L 80 F+	
0-2901	Lot 93 E. W. Simpson, Owenton	Scott Seed Co., New Albany, Ind.	L 85 F+	L 80 F+	
0-2905	Lot 89 J. W. Purkey & Sons, Berea	Scott Seed Co., New Albany, Ind.	L 85 F+	L 80 F—	
0-2910	Lot C 1317 W. A. Farnau, Lancaster	Livingston Seed Co., Cincinnati, O.	L 83.37 F 77.55	L 80 F—	Excessive
0-2915	Lot 40-26 Lillard Miles, Nicholasville	Sphar & Co., Winchester, Ky.	L 85 F—	L 80 F+	
0-2923	Lot 388 Hatter Hdw. Co., Franklin	Dobson-Hicks Co., Nashville, Tenn.	L 82.50 F+	L 80 F—	Excessive

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0-2926	D. F. Brent, Campbellsburg	Louisville Seed Co., Louisville, Ky.	L 75 F+	L 80 F—	
0-2928	Lot 165 Henderson & Hardy, Shepherdsville	Chambers Seed Co., Louisville, Ky.	L 80 F+	L 90 F—	
0-2932	Farmers Union Supply Co., Versailles	Bohannon Coal & Feed Co., Versailles, Ky.	L 85 F+	L 80 F+	
0-2938	Lot 53 Ragland, Potter & Co., Hopkinsville	J. M. Schultz Seed Co., Dieterich, Ill.	L 81.02 F+	L 83 F 68	
0-2950	W. H. Brock & Co., Maysville	Woodford Spears & Sons, Paris, Ky.	L 80 F 69.82	L 80 F 70	
0-2953	Lot 40-52 L. F. Wellman, Louisa	Sphar & Co., Winchester, Ky.	L 85 F+	L 80 F—	
0-2958	Fayette Seed Co., Lexington	Ross Seed Co., Louisville, Ky.	L 85 F—	L 80 F+	
0-2965	Lot C-1302 Henry Northcutt, Williamstown	Livingston Seed Co., Cincinnati, O.	L 85 F—	L 80 F 62	Excessive
0-2966	Lot 8894 Williamstown Roller Mills, Williamstown	The J. Chas. McCullough Seed Co., Cincinnati, O.	L 87.22 F+	L 80 F+	
0-3009	Lot 90 Taylor County Supply Co., Campbellsville	Scott Seed Co., New Albany, Ind.	L 85 F—	L 80 F+	
0-3023	Lot 162140 Thomas & Rankin Hatchery, Flemingsburg	Thomas & Rankin Hatchery, Flemingsburg, Ky.	L 85.10 F+	L 81 F—	
0-3027	Lot C1317 John A. Sheehan, Falmouth	Livingston Seed Co., Cincinnati, O.	L 83.35 F 77.34	L 80 F 67	
0-3031	M. R. Wheeldon, Waynesburg	Hall Seed Co., Louisville, Ky.	L 85 F+	L 86 F 64	
0-3037	Lot 167 Durham Impl. Co., Stanford	Chambers Seed Co., Louisville, Ky.	L 87 F 82.08	L 85 F—	
0-3038	Baughman Milling Co., Stanford	Louisville Seed Co., Louisville, Ky.	L 76 F—	L 80 F+	Excessive
0-3049	Lot 166 Woodson Lewis & Son, Greensburg	Chambers Seed Co., Louisville, Ky.	L 85 F+	L 84 F—	
0-3053	Lot B 21 W. D. Dickinson, Glasgow	C. B. Ragland Co., Nashville, Tenn.	L 80.06 F+	L 70 F+	
0-3067	Lot 40-52 Bedford & Tuttle, Winchester	Sphar & Co., Winchester, Ky.	L 85 F—	L 80 F—	
0-3068	Lot 407 W. H. Brock, Winchester	Jas. S. Wilson & Son, Paris, Ky.	L 83 F—	L 80 F+	

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0-3069	Lot C 1317 Roy Vice, Owingsville	Livingston Seed Co., Cincinnati, O.	L 83.35 F 78.53	L 80 F—	
0-3070	Lot 104 Farmers Supply Store, Morehead	The Mahan Co., Winchester, Ky.	L 86 F 79.38	L 80 F 67	
0-3076	Feeders Supply Co., Catlettsburg	Unknown	L 85 F+	L 80 F 45	
0-3078	Lester L. Lynd Retail Store, Ashland	Lester L. Lynd Whlse. Co., Ashland, Ky.	L 85 F+	L 85 F—	
0-3097	Lot 166 CSC Woodson Lewis & Sons, Greensburg	Chambers Seed Co., Louisville, Ky.	L 85 F—	L 84 F—	
0-3106	O. E. Bernard, Russell Springs	Louisville Seed Co., Louisville, Ky.	L 85 F+	L 80 F 70	
0-3110	Lot 16 19R21 L. C. Littrell, Owenton	Woodford Spears & Sons, Paris, Ky.	L 88.33 F—	L 85 F—	Excessive
<i>Poa trivialis</i>					
0-2832	Sower Hdw. Co., Frankfort	Scott Seed Co., New Albany, Ind.	L 90 F—	L 85 F 28	
<i>Millet</i>					
0-3056	Lot S H. D. Jones, Glasgow	C. B. Ragland Co., Nashville, Tenn.	L 98.90 F—	L 82+3 F 68	
0-3103	Edwards Feed Store, Campbellsville	Lewis Seed Co., Louisville, Ky.	L 98 F+	L 88 F—	
<i>Orchard Grass</i>					
0-2837	J. E. M. Milling Co., Frankfort	Louisville Seed Co., Louisville, Ky.	L 85 F—	L 85 F+	Excessive
0-2847	Lot 221 L. C. Littrell, Owenton	National Seed Co., Louisville, Ky.	L 89 F—	L 90 F+	
0-2850	Lot 2000 E. W. Simpson, Owenton	The Market Gardeners' Seed Co., Cincinnati, O.	L 85 F+	L 80 F+	Excessive
0-2894	Lot 1540 Hess and Racke, Alexandria	The Market Gardeners' Seed Co., Cincinnati, O.	L 85.2 F+	L 82 F+	
0-2899	Lot 1802 A. J. Woodward, Mt. Olivet	The Market Gardeners' Seed Co., Cincinnati, O.	L 70.50 F+	L 80 F+	
0-2906	Lot C 1324 Laurel Groc. Co., East Bernstadt	Livingston Seed Co., Cincinnati, O.	L 80 F+	L 84 F+	Excessive
0-2951	Lot 8446 Ashland Feed & Produce Co., Ashland	The J. Chas. McCullough Seed Co., Cincinnati, O.	L 87 F—	L 85 F+	
0-2990	Lot 171 Carlisle Hdw. Co., Wickliffe	Yopp Seed Co., Paducah, Ky.	L 81 F+	L 85 F—	

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0-3008....	Lot 445 Taylor County Supply Co., Campbellsville	Scott Seed Co., New Albany, Ind.	L 85 F+	L 80 F—	Excessive
0-3034....	Baughman Milling Co., Stanford	Lewis Seed Co., Louisville, Ky.	L 83 F+	L 85 F+	
0-3047....	Lot 726 Pulliam Feed Store, Edmonton	Chambers Seed Co., Louisville, Ky.	L 85 F+	L 85 F+	
Redtop					
0-2872....	Lot 881 W. P. Hansford, Somerset	Scott Seed Co., New Albany, Ind.	L 90 F+	L 90 F+	
0-2873....	Geo. P. Taylor Co., Somerset	Lewis Seed Co., Louisville, Ky.	L 92 F+	L 90 F+	
0-2908....	Watkins Whlse. Groc. Co., East Bernstadt	Ross Seed Co., Louisville, Ky.	L 80 F—	L 90 F+	
0-2911....	Lot 641 Lancaster Milling Co., Lancaster	Scott Seed Co., New Albany, Ind.	L 82 F 75.18	L 85 F+	
0-2913....	Lot 657 Leonard Moore, McKee	Scott Seed Co., New Albany, Ind.	L 98 F—	L 90 F+	
0-2918....	Lot 673 A Renfro Supply Co., Williamsburg	Scott Seed Co., New Albany, Ind.	L 92 F+	L 90 F+	
0-2919....	Lot 817 Renfro Supply Co., Williamsburg	Chambers Seed Co., Louisville, Ky.	L 92 F+	L 95 F+	
0-2920....	Lot 641 C. W. White & Son, Richmond	Scott Seed Co., New Albany, Ind.	L 82 F—	L 80 F+	
0-2921....	Lot 910 Elkton Hdw. Co., Elkton	C. B. Ragland Co., Nashville, Tenn.	L 90 F+	L 90 F+	
0-2924....	Lot 286 Hatter Hdw. Co., Franklin	Dobson-Hicks Co., Nashville, Tenn.	L 92.85 F+	L 97 F—	
0-2936....	Lot 1473 Horace Emmick, Lewisport	Purcell Seed Co., Evansville, Ind.	L 92.34 F+	L 90 F+	
0-2937....	Dixon Hdw. Co., Dixon	Lambert-Grisham Hdw. Co., Henderson, Ky.	L 92 F+	L 90 F+	
0-2946....	Lot 8366 Staggs Bros., Vanceburg	The J. Chas. McCullough Seed Co., Cincinnati, O.	L 92.07 F—	L 90 F+	
0-2972....	Lot A M S-18 C. Rowland, Owensboro	Unknown	L 92 F—	L 90 F+	
0-2977....	Fox Hdw. Co., Madisonville	Lambert-Grisham Hdw. Co., Henderson, Ky.	L 92 F+	L 90 F+	
0-2979....	Lot L. S. R. E. Moore & Son, Madisonville	Young & Conway, Morganfield, Ky.	L 92 F+	L 90 F+	

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0-2983	Lot AA 1403 City Feed Co., Princeton	Purcell Seed Co., Evansville, Ind.	L 93.82 F—	L 91 F+	
0-3101	Lot Red Bird Farmers Supply Co., Danville	Lewis Seed Co., Louisville, Ky.	L 93 F+	L 90 F+	
0-3108	Lot RT-2 Thomas Hdw. Co., Owenton	Haile Seeds, Successors Cincinnati, O.	L 93.06 F+	L 90 F+	
Ryegrass					
0-2810	Lot 2068 C. L. Jewell & Son, Louisville	Chambers Seed Co., Louisville, Ky.	L 99.50 F+	L 93 F+	
0-2833	Lot 109 Sower Hdw. Co., Frankfort	Scott Seed Co., New Albany, Ind.	L 99 F+	L 90 F+	
0-2836	R. S. Scott & Son, Frankfort	Louisville Seed Co., Louisville, Ky.	L 99 F+	L 90 F+	
0-2869	Edwards Feed Store, Campbellsville	Lewis Seed Co., Louisville, Ky.	L 99 F—	L 90 F+	
0-2884	Lot Mix J. E. Nole & Son, Morgantown	C. B. Ragland Co., Nashville, Tenn.	L 99 F+	L 90 F+	
0-2885	Lot 7 Ruby H. Guffey, Morgantown	C. B. Ragland Co., Nashville, Tenn.	L 99.48 F—	L 92 F+	
0-2889	Lot 1972 Leslie Bailey, Corinth	The Market Gardeners' Seed Co., Cincinnati, O.	L 98 F+	L 90 F+	
0-2895	Lot 1972 Hess & Racke, Alexandria	The Market Gardeners' Seed Co., Cincinnati, O.	L 98 F+	L 90 F+	
0-2974	Lot 1670 Sturgis Impl. & Hdw. Co., Sturgis	Purcell Seed Co., Evansville, Ind.	L 99.10 F+	L 90 F+	
0-3016	Gentry McCauley Seed Co., Versailles	Louisville Seed Co., Louisville, Ky.	L 99 F+	L 90 F+	
Timothy					
0-2826	Lot C 706 John A. Sheehan, Falmouth	Livingston Seed Co., Cincinnati, O.	L 99.6 F+	L 90 F—	
0-2834	Benson Valley Milling Co., Frankfort	Louisville Seed Co., Louisville, Ky.	L 99 F+	L 90 F+	
0-2846	Lot 1002 L. C. Littrell, Owenton	The Market Gardeners' Seed Co., Cincinnati, O.	L 99.5 F+	L 90 F+	
0-2852	Shelby Feed & Seed Co., Shelbyville	Ross Seed Co., Louisville, Ky.	L 99.5 F—	L 90 F 71	Excessive
0-2853	Lot 8343 Carlisle Mill & Supply Co., Carlisle	The J. Chas. McCullough Seed Co., Cincinnati, O.	L 99.60 F+	L 90 F—	

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0-2854	Lot C-706 Ratliff Bros. Co., Carlisle	Livingston Seed Co., Cincinnati, O.	L 99.60 F+	L 90 F-	
0-2861	Lot 719 Bedford & Tuttle, Winchester	Livingston Seed Co., Cincinnati, O.	L 99.25 F-	L 90 F-	
0-2862	Lot 1006 W. H. Brock & Co., Winchester	The Market Gardeners' Seed Co., Cincinnati, O.	L 99.60 F+	L 90 F+	
0-2880	Barber Hdw. Co., Springfield	Louisville Seed Co., Louisville, Ky.	L 95.15 F-	L 90 F+	
0-2881	Lot 1214 Cecilian Milling Co., Elizabethtown	Chambers Seed Co., Louisville, Ky.	L 99.5 F+	L 90 F-	
0-2888	Lot 1005 Leslie Bailey, Corinth	The Market Gardeners' Seed Co., Cincinnati, O.	L 99 F+	L 85 F+	Excessive
0-2891	Lot C 713 Goodridge & Goodridge, Hebron	Livingston Seed Co., Cincinnati, O.	L 99.65 F-	L 80 F+	
0-2893	Lot C 720 Walton & Rednour, Walton	Livingston Seed Co., Cincinnati, O.	L 99.65 F-	L 90 F+	
0-2896	Lot 1986 Youtsey Bros., Alexandria	The Market Gardeners' Seed Co., Cincinnati, O.	L 99.6 F+	L 90 F+	
0-2904	Lot 976 J. W. Purkey & Sons, Berea	Scott Seed Co., New Albany, Ind.	L 99.60 F-	L 90 F+	
0-2949	Lot C 731 W. H. Brock & Co., Maysville	Livingston Seed Co., Cincinnati, O.	L 99.68 F+	L 90 F+	
0-2985	Lot 835 Watson Coal & Feed Co., Princeton	Young & Conway, Morganfield, Ky.	L 99.50 F+	L 90 F+	
0-3010	Lot 986 Taylor County Supply Co., Campbellsville	Scott Seed Co., New Albany, Ind.	L 99.60 F+	L 90 F-	
0-3017	Benson Valley Milling Co., Frankfort	Louisville Seed Co., Louisville, Ky.	L 99.5 F+	L 90 F+	
0-3019	Lot 8518 N. S. Dudley & Sons, Flemingsburg	The J. Chas. McCullough Seed Co., Cincinnati, O.	L 99.65 F+	L 92 F+	
0-3026	Lot C 723 W. H. Brock & Co., Maysville	Livingston Seed Co., Cincinnati, O.	L 99.10 F+	L 82 F-	
Alfalfa					
0-2809	Lot 93 C. L. Jewell & Son, Louisville	Chambers Seed Co., Louisville, Ky.	L 99.68 F+	L 80+12 F+	
0-2929	J. A. Bennett, Taylorsville	Ross Seed Co., Louisville, Ky.	L 99.50 F-	L 80+10 F+	

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0-2962	Fayette Seed Co., Lexington	Ross Seed Co., Louisville, Ky.	L 99.50 F+	L 80+10 F—	
0-2970	Lot Red Bird Farm Bureau Store, Carrollton	Lewis Seed Co., Louisville, Ky.	L 99.50 F+	L 80+10 F+	
0-2971	G. G. Wood, Carrollton	Louisville Seed Co., Louisville, Ky.	L 99.50 F+	L 85+5 F+	
0-2976	Lot 1029 Sturgis Impl. & Hdw. Co., Sturgis	Purcell Seed Co., Evansville, Ind.	L 99.66 F+	L 70+25 F+	
0-2993	Lot 2007 Leslie Bailey, Corinth	The Market Gardeners' Seed Co., Cincinnati, O.	L 99.56 F+	L 82+11 F+	
0-2997	Lot 311 Kansas Bell County Supply Co., Middlesboro	The Mahan Co., Winchester, Ky.	L 99 F+	L 90 F—	
0-3014	Benson Valley Milling Co., Frankfort	Louisville Seed Co., Louisville, Ky.	L 99.5 F+	L 85 F—	
0-3028	Lot C 50417 John A. Sheehan, Falmouth	Livingston Seed Co., Cincinnati, O.	L 99.60 F—	L 80+12 F+	
0-3032	Stanford Hdw. Co., Stanford	Ross Seed Co., Louisville, Ky.	L 99.50 F+	L 80+10 F+	
0-3052	C. F. Howard & Son, New Haven	Ross Seed Co., Louisville, Ky.	L 99.50 F+	L 80+10 F—	
0-3054	Lot 63 Barren County Groc. Co., Glasgow	Chambers Seed Co., Louisville, Ky.	L 99.50 F+	L 80+12 F+	
0-3060	Lot C 504 A Walton & Rednour, Walton	Livingston Seed Co., Cincinnati, O.	L 99.6 F+	L 80+12 F—	
0-3083	Lot 76 Cecilian Milling Co., Elizabethtown	Chambers Seed Co., Louisville, Ky.	L 99.50 F+	L 90 F—	
0-3084	Corbett Hdw. Co., Elizabethtown	Louisville Seed Co., Louisville, Ky.	L 99.50 F+	L 85+5 F+	
0-3085	Aaron L. Moore, Leitchfield	Louisville Seed Co., Louisville, Ky.	L 99.50 F—	L 85+5 F+	
0-3086	Barber Hdw. Co., Springfield	Ross Seed Co., Louisville, Ky.	L 99.50 F+	L 80+10 F—	
0-3088	M. C. Raymer, Bowling Green	C. B. Ragland Co., Nashville, Tenn.	L 99.50 F+	L 80+13 F—	
0-3089	Lot 291 Vick Smith, Bowling Green	Dobson-Hicks Co., Nashville, Tenn.	L 99.40 F+	L 71+25 F+	
0-3091	Lot 80 Lebanon Carriage & Impl. Co., Lebanon	Chambers Seed Co., Louisville, Ky.	L 99.50 F+	L 90 F—	
0-3092	Lot 76 J. H. McClure & Sons, Springfield	Chambers Seed Co., Louisville, Ky.	L 99.50 F+	L 90 F—	

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0-3093....	Lot 74 Mrs. C. P. Loving, Cave City	Chambers Seed Co., Louisville, Ky.	L 99.50 F+	L 90 F—	
0-3094....	Lot 461 Farmers Supply Co., Harrodsburg	National Seed Co., Louisville, Ky.	L 99.60 F+	L 75+20 F+	
0-3102....	Lot 80 C S C Lebanon Carriage & Impl. Co., Lebanon	Chambers Seed Co., Louisville, Ky.	L 99.5 F+	L 90 F—	
Alsike Clover					
0-2930....	Bohannon Coal & Feed Co., Versailles	Ross Seed Co., Louisville, Ky.	L 99.50 F+	L 80+10 F+	
0-2959....	Lot 8682 Fayette Seed Co., Lexington	The J. Chas. McCullough Seed Co., Cincinnati, O.	L 98.55 F—	L 75+17 F—	
0-2969....	Lot 1980 Warsaw Hdw. Co., Warsaw	The Market Gardeners' Seed Co., Cincinnati, O.	L 95.50 F+	L 73+15 F+	
0-3006....	Edwards Feed Store, Campbellsville	Ross Seed Co., Louisville, Ky.	L 96.60 F+	L 90+6 F—	
0-3036....	Lot C-1102 Durham Impl. Co., Stanford	Livingston Seed Co., Cincinnati, O.	L 99.63 F—	L 80+10 F+	
0-3109....	Lot 1923 E. W. Simpson, Owenton	The Market Gardeners' Seed Co., Cincinnati, O.	L 98.60 F+	L 76+20 F—	
0-3112....	Lot 207 Booneville Whse. Feed Co., Booneville	The Mahan Co., Winchester, Ky.	L 99 F+	L 90 F—	
Crimson Clover					
0-2807....	Lot 4244 Hoagland & Masters, Louisville	National Seed Co., Louisville, Ky.	L 98 F+	L 80 F+	
0-2808....	Lot 44 Farmers Supply Co., Danville	National Seed Co., Louisville, Ky.	L 98 F+	L 90 F+	
0-2811....	Lot 44 Carroll County Farm Bureau, Carrollton	National Seed Co., Louisville, Ky.	L 98 F—	L 90 F+	
0-2813....	Lot X 21 Skaggs & Carver, Horse Cave	C. B. Ragland Co., Nashville, Tenn.	L 99.25 F—	L 81+5 F—	
0-2814....	Lot M 82518 Young Hdw. Co., Hopkinsville	Norton Garth, Trenton, Ky.	L 97.48 F+	L 85+5 F+	
0-2816....	Lot 65240 Dairyman's Feed & Supply Co., Mayfield	J. B. Lucas, Franklin, Ky.	L 98 F+	L 80 F+	
0-2875....	Renfro Supply Co., Williamsburg	Louisville Seed Co., Louisville, Ky.	L 98 F+	L 80 F+	
0-2878....	Lot 2502 Geo. P. Taylor Co., Eubank	Green Bros., Nashville, Tenn.	L 98 F—	L 81+9 F 66+6	

TABLE 1.—ANALYSES OF SAMPLES COLLECTED BY INSPECTORS, 1940-41

Lab. No.	Kind of seed, Name and address of dealer	Purchased from	Purity, percent	Germination, percent	Noxious weed seed
0-2887	Lot M 82518 Woodson Lewis, Greensburg	Garth & Orr, Trenton, Ky.	L 99.48 F+	L 85+4 F—	
0-2947	Lot "Joe" J. C. Everett Co., Maysville	Carver-Dickinson Seed Co., Buffalo, N. Y.	L 90.25 F+	L 83+11 F+	
0-3012	Lot 717 Taylor County Supply Co., Campbellsville	Scott Seed Co., New Albany, Ind.	L 99 F+	L 80+10 F+	Excessive
0-3099	Lot 667 Anderson & Spillman, Danville	Scott Seed Co., New Albany, Ind.	L 96 F+	L 80+10 F+	
0-3104	Lot 717 Taylor County Supply Co., Campbellsville	Scott Seed Co., New Albany, Ind.	L 99 F+	L 80+10 F+	Excessive
Red Clover					
0-2886	Lot 1509 H. D. Jones, Glasgow	Green Bros., Nashville, Tenn.	L 99.5 F+	L 80+10 F+	
0-2925	Lot G Hughes Hdw. Co., Franklin	Farmers Elevator Co., Franklin, Ky.	L 99 F+	L 80+10 F+	
0-2927	Shelby Feed & Seed Co., Shelbyville	Louisville Seed Co., Louisville, Ky.	L 99.5 F+	L 85+5 F+	
0-2931	Farmers Union Supply Co., Versailles	Ross Seed Co., Louisville, Ky.	L 99.50 F+	L 90 F+	
0-2933	Lot 214 McCauley Bros. Seed Co., Versailles	Louisville Seed Co., Louisville, Ky.	L 99.64 F—	L 90 F—	
0-2943	Lot 8947 L. V. Sullivan & Co., Vanceburg	The J. Chas. McCullough Seed Co., Cincinnati, O.	L 99.40 F+	L 87+6 F—	
0-2945	Lot 8388 J. F. Bertram & Son, Vanceburg	The J. Chas. McCullough Seed Co., Cincinnati, O.	L 99.50 F+	L 85+7 F+	
0-2948	Lot C 305 D W. H. Brock & Co., Maysville	Livingston Seed Co., Cincinnati, O.	L 95.92 F+	L 80+12 F+	
0-2957	John B. Penn, Georgetown	Lewis Seed Co., Louisville, Ky.	L 99.50 F+	L 87+7 F+	
0-2960	Fayette Seed Co., Lexington	Ross Seed Co., Louisville, Ky.	L 99.47 F+	L 84+1 F—	Excessive
0-2961	Fayette Seed Co., Lexington	Unknown	L 99.75 F—	L 86+2 F—	
0-2973	C. Rowland, Owensboro	Unknown	L 99.25 F+	L 85+5 F+	
0-2975	Lot M Sturgis Impl. & Hdw. Co., Sturgis	Unknown	L 98.36 F—	L 86+7 F+	Excessive
0-2978	Lot U 9 Denton Hdw. Co., Madisonville	Young & Conway, Morganfield, Ky.	L 99.82 F+	L 85+8 F+	

TABLE 1.—ANALYSES OF SAMPLES COLLECTED BY INSPECTORS, 1940-41

Lab. No.	Kind of seed, Name and address of dealer	Purchased from	Purity, percent	Germination, percent	Noxious weed seed
0-2981	Lot L L R. E. Moore & Son, Madisonville	Wyatt Seed Co., Petersburg, Ind.	L 95.43 F—	L 73+14 F+	
0-2982	Lot Y Eldred Hdw. Co., Princeton	Young & Conway, Morganfield, Ky.	L 99.70 F+	L 79+12 F+	
0-2989	Lot 105 U-Tote-Em Groc., Mayfield	Unknown	L 99 F—	L 85+6 F+	
0-2991	Lot 585 J. M. Hunt & Sons, Wickliffe	Yopp Seed Co., Paducah, Ky.	L 99.08 F—	L 88+6 F+	
0-2994	Lot 1151 Leslie Bailey, Corinth	National Seed Co., Louisville, Ky.	L 96.70 F+	L 81+5 F—	
0-2999	Lot 300 Cole & Hughes, Barbourville	The Mahan Co., Winchester, Ky.	L 99.50 F—	L 90 F+	
0-3011	Lot 871 Taylor County Supply Co., Campbellsville	Scott Seed Co., New Albany, Ind.	L 99 F+	L 80+10 F+	
0-3013	Benson Valley Milling Co., Frankfort	Louisville Seed Co., Louisville, Ky.	L 99.5 F+	L 85+5 F+	
0-3020	N. S. Dudley & Son, Flemingsburg	C. S. Brent Seed Co., Lexington, Ky.	L 99.66 F—	L 88+6 F+	
0-3022	Thomas & Rankin Hatchery, Flemingsburg	C. S. Brent Seed Co., Lexington, Ky.	L 99.66 F+	L 88+6 F—	
0-3035	Baughman Milling Co., Stanford	Ross Seed Co., Louisville, Ky.	L 99.25 F—	L 80+15 F+	Excessive
0-3039	Citizens Milling Co., Somerset	Lewis Seed Co., Louisville, Ky.	L 99.50 F+	L 85+5 F+	Excessive
0-3044	J. B. Smith, Albany	Ross Seed Co., Louisville, Ky.	L 85 F+	L 75 F—	
0-3051	Hazel Produce Co., Hodgenville	Louisville Seed Co., Louisville, Ky.	L 92.50 F—	L 80+10 F—	
0-3072	Lot X Farmers Supply Store, Morehead	Sphar & Co., Winchester, Ky.	L 94.84 F+	L 58+15 F—	
0-3073	Lot 105 Lester L. Lynd, Retail Store, Ashland	Lester L. Lynd Whse. Co., Ashland, Ky.	L 99.50 F+	L 90+5 F+	
0-3075	Feeders Supply Co., Catlettsburg	Feeders Supply Co., Catlettsburg, Ky.	L 99 F—	L 87½+4½ F—	
0-3098	Lot 240 C S C Woodson Lewis, Greensburg	Chambers Seed Co., Louisville, Ky.	L 99.92 F—	L 88+4 F+	
0-3105	Taylor County Supply Co., Campbellsville	Unknown	L 99 F—	L 85+15 F—	
0-3111	Lot G. R. 3 Booneville Whse. Feed Co., Booneville	Sphar & Co., Winchester, Ky.	L 95.97 F 81.06	L 86+7 F—	

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Lab. No.	Kind of seed, Name and address of dealer	Purchased from	Purity, percent	Germina- tion, percent	Noxious weed seed
Sapling Clover					
0-2996	Lot 308 Bell County Supply Co., Middlesboro	The Mahan Co., Winchester, Ky.	L 99 F+	L 90 F—	
0-3007	Edwards Feed Store, Campbellsville	Ross Seed Co., Louisville, Ky.	L 99 F+	L 90 F—	
Sweet Clover					
0-2830	Lot G. Will T. Sheehan, Falmouth	Ed. F. Mangelsdorf & Bros., St. Louis, Mo.	L 98.20 F+	L 18+60 F—	
0-2902	Lot 1047 E. W. Simpson, Owenton	The Market Gardeners' Seed Co., Cincinnati, O.	L 99.60 F+	L 77+1 F+	
0-2984	Lot 1778 Watson Coal & Feed Co., Princeton	Purcell Seed Co., Evansville, Ind.	L 99.76 F+	L 80+3 F+	
0-2986	Lot 1 Watson Coal & Feed Co., Princeton	Young & Conway, Morganfield, Ky.	L 99.5 F+	L 74+12 F+	
0-2998	Lot 313 Bell County Supply Co., Middlesboro	The Mahan Co., Winchester, Ky.	L 99.50 F+	L 90 F 75+14	
0-3050	Lot 1173 Henry Durham, Greensburg	Chambers Seed Co., Louisville, Ky.	L 99 F+	L 64+15 F+	
0-3066	Walton & Rednour, Walton	Livingston Seed Co., Cincinnati, O.	L 99.5 F—	L 80+12 F—	
Korean Lespedeza					
0-2900	Geo. P. Taylor Co., Burnside	Ballard & Patrick, Burgin, Ky.	L Blank F 91.56	L Blank F 90+7	Excessive
0-2903	Lot 536 J. W. Purkey & Sons, Berea	Scott Seed Co., New Albany, Ind.	L 98.50 F+	L 75+15 F+	
0-2907	Lot 584 Watkins Whse. Groc. Co., East Bernstadt	Scott Seed Co., New Albany, Ind.	L 97 F+	L 75+15 F—	
0-2909	R. B. McCollum & Co., Eubank	Lewis Seed Co., Louisville, Ky.	L 99 F—	L 80+10 F—	
0-2912	Lot 201 London Hdw. Co., London	National Seed Co., Louisville, Ky.	L 99 F+	L 85+5 F+	
0-2914	Lot 2992 J. H. Tate & Co., Monticello	National Seed Co., Louisville, Ky.	L 97.06 F+	L 83+8 F—	
0-2916	Pepper 11 Haskell Vitatoe, Nora	Griffin & Bain, Watertown, Tenn.	L 97 F—	L 55+30 F+	Excessive
0-2917	Lot 181 W. H. Nolan, Richmond	Garth & Chestnut, Trenton, Ky.	L 98.50 F+	L 80+10 F+	
0-2922	Lot 1 T. W. Hall, Elkton	Unknown	L 96.26 F—	L Blank F 90+3	Excessive

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Lab. No.	Kind of seed, Name and address of dealer	Purchased from	Purity, percent	Germination, percent	Noxious weed seed
0-2934	Lot 1459 A Irvington Truck Lines, Irvington	C. L. Jewell & Son, Louisville, Ky.	L 91.54 F+	L 72+20 F+	Excessive
0-2935	Lot 156 Wilson Cash Store, Hawesville	Purcell Seed Co., Evansville, Ind.	L 97.60 F+	L 80+1 F 45+51	
0-2942	M 84092 Watkins Whse. Groc. Co., East Bernstadt	Ballard & Patrick, Burgin, Ky.	L 98.88 F—	L 89+8 F+	
0-2944	Lot 24 J. F. Bertram & Son, Vanceburg	The Market Gardeners' Seed Co., Cincinnati, O.	L 99.50 F 94.26	L 78+13 F—	
0-2952	Lot 227 Williams Groc. Co., Paintsville	Green Bros., Nashville, Tenn.	L 98.50 F—	L 70 F+	
0-2954	Lot 861 B Wilson Feed Co., Middlesboro	Knoxville Seed Co., Knoxville, Tenn.	L 99.28 F+	L 90+5 F—	
0-2955	Laurel Groc. Co., East Bernstadt	Ross Seed Co., Louisville, Ky.	L 99 F+	L 85+5 F+	
0-2963	Fayette Seed Co., Lexington	Louisville Seed Co., Louisville, Ky.	L 99 F+	L 80+10 F+	
0-2964	Lot C-220 Henry Northcutt, Williamstown	Livingston Seed Co., Cincinnati, O.	L 97.20 F+	L 80+12 F—	
0-2967	M 84092 Williamstown Roller Mills, Williamstown	Ballard & Patrick, Burgin, Ky.	L 98.88 F 93.80	L 89+8 F+	
0-2968	Lot 109 Youtsey Bros., Alexandria	The Market Gardeners' Seed Co., Cincinnati, O.	L 98.77 F+	L 80+11 F+	
0-2980	Lot C O R. E. Moore & Son, Madisonville	Wyatt Seed Co., Petersburg, Ind.	L 99 F—	L 65+26 F+	
0-2987	Lot Ezra Watson Coal & Feed Co., Princeton	Young & Conway, Morganfield, Ky.	L 94 F+	L 65+5 F+	
0-2988	U-Tote-Em Groc. Co., Mayfield	U-Tote-Em Groc. Co., Mayfield, Ky.	L 96.30 F+	L 75+18 F+	
0-2992	Lot 700 Ballard Mercantile Co., Wickliffe	Yopp Seed Co., Paducah, Ky.	L 99.10 F+	L 82+8 F+	
0-2995	V. A. Maggard, Hyden	Ross Seed Co., Louisville, Ky.	L 99 F+	L 85+5 F+	
0-3004	U-Tote-Em Groc. Co., Murray	Unknown	L 96.66 F—	L 94+6 F—	
0-3005	Lot 1419 Edwards Feed Store, Campbellsville	Chambers Seed Co., Louisville, Ky.	L 97.70 F—	L 87+10 F—	Excessive
0-3015	1462 Gentry McCauley Seed Co., Versailles	Chambers Seed Co., Louisville, Ky.	L 96.82 F—	L 90+7 F 77+14	Excessive

TABLE 1.—ANALYSES OF SAMPLES COLLECTED BY INSPECTORS, 1940-41

Lab. No.	Kind of seed, Name and address of dealer	Purchased from	Purity, percent	Germination, percent	Noxious weed seed
0-3018	Lot 203 Millersburg Grain & Feed Co., Millersburg	National Seed Co., Louisville, Ky.	L 99.50 F+	90+3 F+	
0-3021	Lot 8789 N. S. Dudley & Sons, Flemingsburg	The J. Chas. McCullough Seed Co., Cincinnati, O.	L 99.36 F+	L 78+14 F+	
0-3024	Lot 8991 J. F. Bertram & Son, Vanceburg	The J. Chas. McCullough Seed Co., Cincinnati, O.	L 98.54 F+	L 73 F+	
0-3025	Lot 8795 J. F. Bertram & Son, Vanceburg	The J. Chas. McCullough Seed Co., Cincinnati, O.	L 99.50 F—	L 88+3 F 65+6	
0-3029	Lot C 200 Van Hook Hdw. Co., Cynthiana	Unknown	L 98.68 F—	L 84+8 F+	
0-3033	Lot 185 Baughman Milling Co., Stanford	National Seed Co., Louisville, Ky.	L 97 F—	L 84 F 65+25	
0-3041	Lot 1456 Morris Bros., Somerset	Chambers Seed Co., Louisville, Ky.	L 98 F+	L 80+10 F+	
0-3043	Hamp Ross-Hollingsworth & Co., Tompkinsville	J. B. Lucas, Franklin, Ky.	L 99.34 F—	L 90+4 F—	
0-3045	J. H. Cross, Albany	Louisville Seed Co., Louisville, Ky.	L 96 F—	L 80 F—	Excessive
0-3046	A. B. Waggoner & Co., Burkesville	Louisville Seed Co., Louisville, Ky.	L 98.50 F+	L 85+5 F—	
0-3071	Lot 316 Farmers Supply Store, Morehead	The Mahan Co., Winchester, Ky.	L 99 F+	L 90 F—	
0-3074	Feeders Supply Co., Catlettsburg	Feeders Supply Co., Catlettsburg, Ky.	L 99 F+	L 80 F+	
0-3077	Lot 3 G. Tenn. Lester L. Lynd, Retail Store, Ashland	Lester L. Lynd Whse. Co., Ashland, Ky.	L 98.50 F+	L 46+53 F+	
0-3080	J. E. M. Milling Co., Frankfort	Louisville Seed Co., Louisville, Ky.	L 97.00 F 94.29	L 80+10 F—	
0-3082	Lot 529 A J. E. M. Milling Co., Frankfort	Scott Seed Co., New Albany, Ind.	L 98 F+	L 75+15 F+	
0-3095	J. H. Tate Co., Monticello	Ross Seed Co., Louisville, Ky.	L 97 F+	L 80+10 F+	
Barley					
0-2851	Bearded Walters & Thompson, Shelbyville	Unknown	L 98 F+	L 90 F+	
0-2859	Ky. No. 1, Lot C Farmers Supply Co., Morehead	C. T. Ashley Co., Nicholasville, Ky.	L 99.18 F+	L 95 F+	
0-2871	J. L. Tupman, Columbia	Ross Seed Co., Louisville, Ky.	L 98.5 F+	L 90 F+	

TABLE 1.—ANALYSES OF SAMPLES COLLECTED BY INSPECTORS, 1940-41

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0-2882	Lot H Vick Smith, Bowling Green	Farmers Elevator Co., Franklin, Ky.	L 98 F+	L 90 F+	
Buckwheat					
0-3100	Farmers Supply Co., Danville	Ross Seed Co., Louisville, Ky.	L 97 F+	L 90 F+	
Cane					
0-3090	Lot 232 Skaggs & Carver, Horse Cave	C. B. Ragland Co., Nashville, Tenn.	L 98.43 F—	L 90 F 63	
0-3116	Orange Morgan & Crenshaw, Georgetown	Ross Seed Co., Louisville, Ky.	L 97 F+	L 75 F+	
0-3120	Orange Leslie Bailey, Corinth	The Market Gardeners' Seed Co., Cincinnati, O.	L 99.23 F 97.35	L 85 F 73	
Corn					
0-3000	Lot 375 Wilson-Miles & Co., Russellville	Dobson-Hicks Co., Nashville, Tenn.	L 98 F+	L 94 F+	
0-3001	Lot 374 Wilson-Miles & Co., Russellville	Dobson-Hicks Co., Nashville, Tenn.	L 98 F+	L 90 F—	
0-3002	Lot 376 Wilson-Miles & Co., Russellville	Dobson-Hicks Co., Nashville, Tenn.	L 98 F+	L 94 F+	
0-3003	Lot 493 Wilson-Miles & Co., Russellville	Dobson-Hicks Co., Nashville, Tenn.	L 98 F+	L 94 F+	
0-3057	Lot "B" H. D. Jones, Glasgow	C. B. Ragland Co., Nashville, Tenn.	L 98.5 F+	L 85 F—	
0-3064	Lot 2013 John A. Sheehan, Falmouth	W. L. Williams, Wilmington, O.	L 100 F—	L 90 F+	
0-3065	Lot 117 Will T. Sheehan, Falmouth	The Market Gardeners' Seed Co., Cincinnati, O.	L 99.5 F+	L 92 F—	
0-3107	D. Minor Maddox, New Castle	S. J. Stokes, Lexington, Ky.	L 99 F+	L 98 F+	
0-3115	Lot R. Y. D. Morgan & Crenshaw, Georgetown	Ross Seed Co., Louisville, Ky.	L 99.5 F+	L 95 F+	
0-3118	Leslie Bailey, Corinth	Livingston Seed Co., Cincinnati, O.	L 99.5 F+	L 90 F+	
0-3119	Leslie Bailey, Corinth	The Market Gardeners' Seed Co., Cincinnati, O.	L 99 F+	L 95 F 86	
Cowpeas					
0-3113	Mixed Morgan & Crenshaw, Georgetown	Ross Seed Co., Louisville, Ky.	L 98 F+	L 80 F+	

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Lab. No.	Kind of seed, Name and address of dealer	Purchased from	Purity, percent	Germination, percent	Noxious weed seed
Oats					
0-2956	Laurel Groc. Co., East Bernstadt	Henry Fruechtenicht, Louisville, Ky.	L 96 F+	L 90 F+	
0-3030	Lot 851 Thomas Emerson, Eubank	Chambers Seed Co., Louisville, Ky.	L 98 F+	L 90 F+	
0-3040	Morris Bros., Somerset	Aubrey & Co., Louisville, Ky.	L 95 F+	L 90 F+	
0-3042	Lot 1 J. H. Tate & Co., Monticello	Aubrey & Co., Louisville, Ky.	L 95 F+	L 90 F+	
0-3058	Lot 851 Barren County Groc. Co., Glasgow	Chambers Seed Co., Louisville, Ky.	L 98 F—	L 90 F+	
Rye					
0-2812	Lot 1 Horse Cave Hdw. Co., Horse Cave	Bundy Bros., Vallonia, Ind.	L 95 F+	L 85 F—	
0-2815	Lot 226 Western Wilson-Miles & Co., Russellville	Dobson-Hicks Co., Nashville, Tenn.	L 94.74 F+	L 90 F—	
0-2817	Lot R-5 Balboa Trigg County Trading Co., Cadiz	E. K. Hardison Seed Co., Nashville, Tenn.	L 99.10 F+	L 85 F 36	
0-2818	G. M. Taylor & Co., Georgetown	Aubrey & Co., Louisville, Ky.	L 95 F+	L 90 F+	
0-2820	Early & Daniel Co., Erlanger	Phoenix Milling Co., Marietta, O.	L 97.2 F—	L 90 F+	
0-2821	Lot 1-B Cincinnati Grain & Hay Co., Covington	Unknown	L 98 F+	L 95 F 84	
0-2822	Lot 2 A Cincinnati Grain & Hay Co., Covington	Unknown	L 97 F 93.34	L 94 F—	
0-2827	John A. Sheehan, Falmouth	Early & Daniel Co., Cincinnati, O.	L 95 F+	L 90 F—	
0-2829	Will T. Sheehan, Falmouth	Bundy Bros., Medora, Ind.	L 98.5 F—	L 90 F 81	
0-2831	N W Shelby Feed & Seed Co., Shelbyville	Ross Seed Co., Louisville, Ky.	L 95 F+	L 90 F+	
0-2835	Lot 3 Benson Valley Milling Co., Frankfort	Bundy Bros., Vallonia, Ind.	L 95 F+	L 85 F—	
0-2838	Lot 2 J. E. M. Milling Co., Frankfort	Aubrey & Co., Louisville, Ky.	L 95 F+	L 90 F+	
0-2843	Lot 10 Carroll County Farm Bureau, Carrollton	National Seed Co., Louisville, Ky.	L 98.5 F—	L 90 F+	
0-2845	Lot 10 L. C. Littrell, Owenton	National Seed Co., Louisville, Ky.	L 98 F 96.33	L 90 F—	

TABLE 1.—ANALYSES OF SAMPLES COLLECTED BY INSPECTORS, 1940-41

Lab. No.	Kind of seed, Name and address of dealer	Purchased from	Purity, percent	Germination, percent	Noxious weed seed
0-2848	Lot 1 E. W. Simpson, Owenton	Bundy Bros., Vallonia, Ind.	L 90 F+	L 80 F+	
0-2849	Lot 3 E. W. Simpson, Owenton	Bundy Bros., Vallonia, Ind.	L 95 F+	L 85 F—	
0-2857	J. F. Bertram, Vanceburg	Early & Daniel Co., Cincinnati, O.	L 95 F+	L 90 F—	
0-2858	Lot C-40 Olive Hill Dry Goods Co., Olive Hill	Sphar & Co., Winchester, Ky.	L 97 F+	L 85 F+	
0-2860	A. H. Dawson, Owingsville	Louisville Seed Co., Louisville, Ky.	L 99.50 F 96.75	L 90 F+	
0-2864	Levi Goff, Jr., Winchester	Ross Seed Co., Louisville, Ky.	L 95 F+	L 90 F+	
0-2865	Lot 2 Rosen J. E. M. Milling Co., Frankfort	Aubrey & Co., Louisville, Ky.	L 98 F—	L 90 F+	
0-2870	T. D. Flanagan, Russell Springs	Ross Seed Co., Louisville, Ky.	L 95 F+	L 90 F+	
0-2874	Richmond Hatchery, Richmond	C. S. Brent Seed Co., Lexington, Ky.	L 98.40 F+	L 89 F+	
0-2876	Powell-Hackney Groc. Co., Jackson	The Mahan Co., Winchester, Ky.	L 98 F 95.39	L 90 F—	
0-2883	Lot Eagle M. C. Raymer, Bowling Green	C. B. Ragland Co., Nashville, Tenn.	L 97.65 F+	L 80 F+	
Soybeans					
0-3048	Lot 239 Henry Durham, Greensburg	Scott Seed Co., New Albany, Ind.	L 97 F+	L 95 F—	
0-3055	W. D. Dickinson, Glasgow	Lewis Seed Co., Louisville, Ky.	L 98 F+	L 80+10 F+	
0-3059	Lot C 1902 John A. Sheehan, Falmouth	Livingston Seed Co., Cincinnati, O.	L 99.25 F—	L 90 F+	
0-3061	Lot 25 Will T. Sheehan, Falmouth	Bundy Bros., Vallonia, Ind.	L 99 F 95.95	L 90 F+	
0-3062	Lot C 1900 John A. Sheehan, Falmouth	Livingston Seed Co., Cincinnati, O.	L 99.25 F—	L 90 F+	
0-3063	Lot A 41 John A. Sheehan, Falmouth	Sphar & Co., Winchester, Ky.	L 98 F 91.07	L 90 F+	
0-3079	Early Yellow J. E. M. Milling Co., Frankfort	Ross Seed Co., Louisville, Ky.	L 96 F+	L 85 F+	
0-3081	Black J. E. M. Milling Co., Frankfort	Ross Seed Co., Louisville, Ky.	L 98 F+	L 85 F+	

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0-3087	M. C. Raymer, Bowling Green	Owensboro Grain Co., Owensboro, Ky.	L Blank F 98.15	L 86 F+	
0-3114	Black Morgan & Crenshaw, Georgetown	Ross Seed Co., Louisville, Ky.	L 98 F+	L 85 F+	
0-3117	Va. Brown Morgan & Crenshaw, Georgetown	Ross Seed Co., Louisville, Ky.	L 98 F+	L 85 F+	
Vetch					
0-2842	Duncan & Theiss, La Grange	Lewis Seed Co., Louisville, Ky.	L 99.5 F+	L 86+5 F-	
0-2844	Thomas Hdw. Co., Owenton	Livingston Seed Co., Cincinnati, O.	L 99.25 F+	L 73+23 F+	
0-2877	Lot 7 B 204 Sievers Produce Co., Somerset	U. S. D. A., Distributor	L 98.84 F-	L 92.50+11 F+	
0-2890	Lot 2045 Gulley & Pettit, Burlington	The Market Gardeners' Seed Co., Cincinnati, O.	L 99.50 F+	L 80+12 F+	
Wheat					
0-2823	Lot B-40 John A. Sheehan, Falmouth	Sphar & Co., Winchester, Ky.	L 99 F+	L 90 F+	
0-2824	Lot A-40 Fultz John A. Sheehan, Falmouth	Sphar & Co., Winchester, Ky.	L 99 F-	L 90 F-	
0-2866	Clell Coleman & Son, Harrodsburg	Unknown	L 99.97 F+	L 96.5 F-	
0-2868	Lot 1810 Edward's Feed Store, Campbellsville	Chambers Seed Co., Louisville, Ky.	L 98 F+	L 90 F+	
Mixtures					
0-3096	Lot 24 A. B. Waggoner & Co., Burkesville	Scott Seed Co., New Albany, Ind.	L 82 F+	L 85 F 22	

TABLE 2.—WHOLESALE DEALERS

Name	Address	Number of samples	Number found unlawful
Ashley Co., C. T.	Nicholasville, Ky.	1	0
Aubrey & Co.	Louisville, Ky.	5	0
Ballard & Patrick	Burgin, Ky.	3	2
Bohannon Coal & Feed Co.	Versailles, Ky.	1	0
Brent, C. S., Seed Co.	Lexington, Ky.	4	0
Bundy Bros.	Medora, Ind.	1	1
Bundy Bros.	Vallonia, Ind.	5	1
Carver-Dickinson Seed Co.	Buffalo, N. Y.	1	0
Chambers Seed Co.	Louisville, Ky.	23	3
Dobson-Hicks Co.	Nashville, Tenn.	8	1
Early & Daniel Co., The	Cincinnati, O.	2	0
Farmers Elevator Co.	Franklin, Ky.	2	0
Feeders Supply Co.	Catlettsburg, Ky.	2	0
Fruechtenicht, Henry	Louisville, Ky.	1	0
Garth & Chestnut	Trenton, Ky.	1	0
Garth & Orr	Trenton, Ky.	1	0
Garth, Norton	Trenton, Ky.	1	0
Green Bros.	Nashville, Tenn.	3	1
Griffin & Bain	Watertown, Tenn.	1	1
Haile Seed, Successors	Cincinnati, O.	1	0
Hall Seed Co.	Louisville, Ky.	1	1
Hardison, E. K., Seed Co.	Nashville, Tenn.	1	1
Jewell, C. L., & Son	Louisville, Ky.	1	1
Knoxville Seed Co.	Knoxville, Tenn.	1	0
Lambert-Grisham Hdw. Co.	Henderson, Ky.	2	0
Lewis Seed Co.	Louisville, Ky.	12	2
Lexington Seed Co.	Lexington, Ky.	1	0
Livingston Seed Co.	Cincinnati, O.	23	6
Louisville Seed Co.	Louisville, Ky.	25	7
Lucas, J. B.	Franklin, Ky.	2	0
Lynd, Lester L.	Ashland, Ky.	3	0
McCullough, The J. Chas., Co.	Cincinnati, O.	11	1
Mahan Co., The	Winchester, Ky.	8	3
Mangelsdorf, Ed. F., & Bros.	St. Louis, Mo.	1	0
Market Gardeners' Seed Co., The	Cincinnati, O.	20	6
National Seed Co.	Louisville, Ky.	13	2
Owensboro Grain & Feed Co.	Owensboro, Ky.	1	1
Phoenix Milling Co.	Marietta, O.	1	0
Purcell Seed Co.	Evansville, Ind.	6	1
Ragland, C. B., Co.	Nashville, Tenn.	10	2
Ross Seed Co.	Louisville, Ky.	32	3
Schultz, J. M.	Dieterich, Ill.	1	1
Scott Seed Co.	New Albany, Ind.	23	6
Spears, Woodford, & Sons	Paris, Ky.	3	3
Sphar & Co.	Winchester, Ky.	10	2
Stokes, S. J.	Lexington, Ky.	1	0
Thomas & Rankin Hatchery	Flemingsburg, Ky.	1	0
U. S. D. A. Distributor	Washington, D. C.	1	0
U-Tote-Em Groc. Co.	Mayfield, Ky.	1	0
Williams, W. L.	Wilmington, O.	1	0
Wilson, Jas. S., & Son	Paris, Ky.	1	0
Wyatt Seed Co.	Petersburg, Ind.	2	0
Yopp Seed Co.	Paducah, Ky.	3	0
Young & Conway	Morganfield, Ky.	6	0
Unknown		15	6
Total		311	65

TABLE 3.—KIND AND NUMBER OF VIOLATIONS

	Number of samples	Number unlawful	Violations found in—		
			Purity	Germination	Noxious weeds
Bluegrass	46	21	7	13	7
Millet	2	1	0	1	0
Orchard grass	11	4	0	0	4
Redtop	19	1	1	0	0
Ryegrass	10	0	0	0	0
Timothy	21	2	0	1	2
Alfalfa	25	0	0	0	0
Alsike	7	0	0	0	0
Crimson clover	9	1	0	1	0
Mammoth clover	4	2	0	0	2
Red clover	34	7	1	0	4
Sapling clover	2	0	0	0	0
Sweet clover	7	1	0	1	0
Korean lespedeza	44	13	4	6	7
Barley	4	0	0	0	0
Buckwheat	1	0	0	0	0
Cane	3	2	1	2	0
Corn	11	1	0	1	0
Cowpeas	1	0	0	0	0
Oats	5	0	0	0	0
Rye	25	7	4	3	0
Soybeans	11	3	3	0	0
Vetch	4	0	0	0	0
Wheat	4	0	0	0	0
Mixture	1	1	0	1	0
Total	311	67	21	30	26