

# Kentucky Agricultural Experiment Station

THOMAS P. COOPER, Director

UNIVERSITY OF KENTUCKY

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## Inspection, Certification, and Transportation of Nursery Stock in Kentucky with a Brief Report for the Year Ended June 30, 1940

W. A. PRICE and HOWARD G. TILSON

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It is generally recognized that we have to contend with many more insects and diseases injurious to plants today than we did fifty years ago. Species that formerly were confined to limited areas are becoming widely spread. The chief factors contributing to this condition are the ease and extent of modern transportation.

Most of the insects and diseases which we consider new in this section of the country were known to be established in other sections or in foreign countries a few decades ago. Examples of such are the Mexican bean beetle, Hessian fly, Colorado potato beetle, and Oriental fruit moth; chestnut blight, phony peach, and Dutch elm disease. However desirable it is to have rapid transportation and trade between states and countries, it must be remembered that as these facilities are developed the problem of pest introduction and spread becomes greater. We are approaching the time when more and more attention on the part of the plant inspectors will be directed necessarily to the danger from this new source. This problem

has been recognized and in order to check more effectively the introduction and spread of plant pests, federal and state legislation has been enacted empowering properly designated officials to take such action as is necessary to protect our plants and their products. The federal plant quarantine act became effective in 1912 and the Kentucky Nursery Inspection Law in 1926. By authority of these laws, regulations have been devised which have helped to check introduction and spread of injurious insects and plant diseases. Their effectiveness depends on the proper understanding of the problem and complete cooperation of everyone interested in the production and use of agricultural and horticultural products.

It is the policy of the Kentucky Agricultural Experiment Station thru its Entomologist to publish each year an informal bulletin containing information regarding the production and movement of nursery stock; the requirements for interstate shipment of plants; the securing of nursery inspection certificates and nursery dealer's and agent's permits; a brief discussion of some of the most recently introduced insect pests and diseases; and a list of licensed nurserymen, dealers, and agents.

#### INSPECTION OF NURSERIES AND TREATMENT OF AFFECTED STOCK

"All nurseries in Kentucky where trees, vines, plants or other nursery stock are grown and offered for sale, shall be inspected by the Entomologist and Botanist of the Kentucky Agricultural Experiment Station, or by his assistant, once each year at such times as he may elect, and he shall notify in writing the owners of such nurseries of the presence of any San Jose scale or other dangerous pests on the stock of such nurseries, and shall also notify in writing, the owner of any affected stock, that he is required, on, or before, a certain day to take such measures for the destruction of such insects or fungus enemies of nursery stock as have been shown to be effectual for this purpose."

The above quotation is from the Kentucky Nursery Inspection Law, passed by the General Assembly of Kentucky in 1926,



a copy of which may be secured by writing the Office of the State Entomologist, Kentucky Agricultural Experiment Station, Lexington, Kentucky.

**UNIFORM REQUIREMENTS FOR INSECT AND DISEASE CONTROL**

All states now have laws and regulations providing for inspection of nursery stock and other plant products, designed to lessen the danger of spreading serious pests. In order that these laws may serve more efficiently and cause the least handicap to the free flow of trade, officials in charge of plant pest regulations have formed regional plant boards, and from these regional boards representatives are selected to form a national plant board. Kentucky belongs to the Central Plant Board which is made up of plant regulatory officials in thirteen of the North Central states. Already this board has issued uniform inspection methods and tolerance limits covering the most common insects and plant diseases of nursery stock. It is now working toward a system of uniform plant quarantine regulations for all states. When adopted, this policy will tend to lessen the confusion of shipping agricultural products interstate without increasing the danger of spreading plant pests.

**PERMITS REQUIRED FOR NURSERYMEN, DEALERS AND AGENTS**

The Kentucky law requires that "Each resident nursery or agency selling nursery stock in Kentucky shall annually file credentials with the office of the Kentucky State Entomologist and if these credentials are satisfactory shall, on payment of a fee of five dollars (\$5.00), be issued a permit authorizing said nursery or agency to do business in the state. Each dealer or seller of nursery stock, representing non-resident nurseries or sellers, shall be required to file annually with the State Entomologist satisfactory credentials, including names of nurseries, nurserymen, or persons represented; and on payment of a fee of five dollars (\$5.00) shall be issued a permit. If, however, the credentials in any case are not satisfactory it shall be the duty of the State Entomologist, the Director of the

Experiment Station and the State Commissioner of Agriculture concurring, to refuse to issue said permit. Any person soliciting orders for or delivering trees or plants in Kentucky shall be required to carry with him a copy of his Kentucky permit, to be shown to prospective buyers, purchasers, county officials or agents of the State Entomologist on demand." Kentucky nurserymen should bring these requirements to the attention of those interested in securing plants so that buyers may avoid the disappointment resulting from the purchase of worthless stock. There are several plant pests which are not readily detected on dormant nursery stock.

#### DEFINITION OF NURSERY STOCK

All trees, shrubs, and vines, including ornamentals and evergreens, whether nursery grown or native; roses; strawberry, raspberry and blackberry plants; herbaceous perennial plants and roots; ornamental bulbs, corms and tubers; and any other plants which may serve as a means for disseminating injurious insects and plant diseases are classed as nursery stock. Because of the comparatively little pest risk, annual flowering plants, greenhouse and household potted plants and garden vegetable plants are not usually classed as nursery stock.

It is just as essential to secure inspection of nursery stock to be given away or sold locally as of that which is to be offered for sale and shipment to distant points.

#### INFORMATION FOR SHIPPING NURSERY STOCK

All packages of nursery stock offered for shipment by common carrier must have a copy of a valid certificate of inspection. This is in accord with the U. S. postal regulations as well as state regulations. In addition to attaching a certificate to each package, it is necessary to file a copy of the inspection certificate with the proper authorities when shipping into the following states:

Alabama  
Arkansas  
Connecticut  
Idaho

Florida  
Georgia  
Illinois  
Indiana

Iowa  
Kansas  
Kentucky  
Louisiana



Maryland	North Carolina	Utah
Michigan	Ohio	Vermont
Minnesota	Oklahoma	Virginia
Mississippi	Pennsylvania	Washington
Missouri	Rhode Island	West Virginia
Nebraska	South Carolina	Wisconsin
New Jersey	Tennessee	Wyoming
New Mexico	Texas	

In order to ship nursery stock into the following four states it is necessary to post bond:

	Size of Bond
Idaho (only if sales exceed \$200 annually).....	\$1,000
Montana .....	1,000
North Carolina .....	1,000
Wyoming .....	500

Nevada requires a special certificate, stating stock was inspected immediately prior to shipment.

In addition to filing duplicate inspection certificates, other requirements for shipping into certain states are as follows:

State	Nurseryman's Fee	Agent's Fee	Special Tag Required
Alabama	\$10.00	\$1.00	Yes
Arizona	None	None	No
Arkansas	Reciprocal	\$1.00	Yes
California	None	None	No
Colorado	None	None	No
Connecticut	Reciprocal	None	No
Delaware	None	None	No
Florida	None	None	Yes
Georgia	\$5.00	\$1.00	Yes
Idaho	\$5.00 to \$15.00	None	No
Illinois	Reciprocal	None	No
Indiana	None	\$1.00	No
Iowa	Reciprocal	None	No
Kansas	Reciprocal	None	No
Kentucky	\$5.00	\$5.00	No
Louisiana	None	None	Yes
Maine	None	\$5.00	No
Maryland	None	None	No
Massachusetts	Reciprocal	None	No
Michigan	Reciprocal	\$1.00	No
Minnesota	Reciprocal	None	No
Mississippi	Reciprocal	None	Yes
Missouri	None	None	No
Montana	\$25.00	None	No
Nebraska	Reciprocal	\$1.00	No
Nevada	None	None	No

State	Nurseryman's Fee	Agent's Fee	Special Tag Required
New Hampshire	None	None	No
New Jersey	None	None	No
New Mexico	\$10.00	\$25.00	No
New York	Reciprocal	None	No
North Carolina	Reciprocal	None	No
North Dakota	Reciprocal	None	No
Ohio	\$1.00	\$5.00	No
Oklahoma	\$10.00	\$1.00	No
Oregon	Reciprocal	\$1.00	No
Pennsylvania	None	None	No
Rhode Island	None	None	Yes
South Carolina	None	None	Yes
South Dakota	\$1.00	\$1.00	No
Tennessee	Reciprocal	\$5.00	No
		(or reciprocal)	
Texas	\$5.00	None	No
Utah	None	\$10.00	No
Vermont	None	None	No
Virginia	\$10.00	\$1.00	Yes
Washington	Reciprocal	\$1.00	No
West Virginia	\$15.00	None	Yes
Wisconsin	Reciprocal	None	No
Wyoming	\$15.00	None	Yes

Virginia requires nurseryman's registration fee only when agents are operating within the state.

Arkansas has reciprocal provisions except when agents representing non-resident nurserymen are working within the state, in which case a \$5.00 nurseryman's registration fee is required.

To secure permit tags, some of which are without cost, and to secure information regarding quarantine regulations of the various states, it will be necessary to correspond with the officers in charge of inspection and regulation in the various states, names of whom are given below.

#### STATE OFFICERS IN CHARGE OF INSPECTION

Alabama	B. P. Livingston, Chief, Division of Plant Industry, Montgomery.
Arizona	J. L. E. Lauderdale, State Entomologist, Phoenix.
Arkansas	Paul H. Millar, Chief Inspector, State Plant Board, Little Rock.



California	D. B. Mackie, Chief, Bureau of Entomology and Plant Quarantine, Department of Agriculture, Sacramento.
Colorado	F. Herbert Gates, State Entomologist, 20 State Museum, Denver.
Connecticut	Roger B. Friend, State Entomologist, Box 1106, New Haven.
Delaware	V. J. Carmine, Secretary, State Board of Agriculture, Dover.
Florida	Arthur C. Brown, Quarantine Inspector, State Plant Board, Gainesville.
Georgia	M. S. Yeomans, State Entomologist, Atlanta.
Idaho	Paul T. Rowell, Director, Bureau of Plant Industry, Boise.
Illinois	H. F. Seifert, Chief Plant Inspector, 300 State Bank Building, Glen Ellyn.
Indiana	Frank N. Wallace, State Entomologist, Indianapolis.
Iowa	Carl J. Drake, State Entomologist, Ames.
Kansas, North	George A. Dean, Entomologist, Kansas Agricultural College, Manhattan.
Kansas, South	H. B. Hungerford, Entomologist, Lawrence.
Kentucky	W. A. Price, State Entomologist, Agricultural Experiment Station, Lexington.
Louisiana	W. E. Anderson, State Entomologist, Baton Rouge.
Maine	S. L. Painter, State Horticulturist, Augusta.
Maryland	E. N. Cory, State Entomologist, College Park.
Massachusetts	R. H. Allen, Director, Division of Plant Pest Control, State House, Boston.
Michigan	C. A. Boyer, Bureau Orchard and Nursery Inspection Service, Department of Agriculture, Lansing.
Minnesota	A. G. Ruggles, State Entomologist, University Farm, St. Paul.
Mississippi	Clay Lyle, Entomologist, State Plant Board, State College.
Missouri	Henry H. Baker, State Entomologist, Department of Agriculture, Jefferson City.
Montana	George L. Knight, Chief, Division of Horticulture, Missoula.
Nebraska	L. M. Gates, Entomologist, Department of Agriculture and Inspection, Lincoln.
Nevada	George G. Schweis, Director, Division of Plant Industry, P. O. Box 1027, Reno.
New Hampshire	W. C. O'Kane, Deputy Commissioner, Department of Agriculture, Durham.
New Jersey	Harry B. Weiss, Chief, Bureau of Plant Industry, Trenton.
New Mexico	R. F. Crawford, Head of Biology, College of Agriculture and Mechanic Arts, State College.
New York	A. B. Buchholz, Director, Bureau of Plant Industry, Department of Agriculture and Markets, Albany.

North Carolina	C. H. Brannon, State Entomologist, Department of Agriculture, Raleigh.
North Dakota	J. A. Munro, State Entomologist, Fargo.
Ohio	John W. Baringer, Specialist in Charge, Insect and Plant Disease Control, Department of Agriculture, Columbus.
Oklahoma	Thomas B. Gordon, Chief Nursery Inspector, State Board of Agriculture, Oklahoma City.
Oregon	Frank McKennon, Chief, Division of Plant Industry, Agricultural Building, Salem.
Pennsylvania	R. H. Bell, Director, Bureau of Plant Industry, Harrisburg.
Rhode Island	A. E. Stone, State Entomologist, State House, Providence.
South Carolina	Franklin Sherman, Chief, Division of Entomology and Zoology, Clemson College.
South Dakota	Charles S. Weller, Chief, Division of Horticulture and Entomology, Pierre.
Tennessee	G. M. Bentley, State Entomologist and Plant Pathologist, 65 Biology Building, University of Tennessee, Knoxville.
Texas	J. M. Del Curto, Chief, Division of Plant Quarantines, Department of Agriculture, Austin.
Utah	Earl Hutchings, State Agricultural Inspector, State Board of Agriculture, Salt Lake City.
Vermont	M. B. Cummings, State Nursery Inspector, Burlington.
Virginia	G. T. French, State Entomologist, 1112 State Office Building, Richmond.
Washington	J. I. Griner, Supervisor of Horticulture, Department of Agriculture, Olympia.
West Virginia	F. Waldo Craig, Department of Agriculture, Charleston.
Wisconsin	E. L. Chambers, State Entomologist, Department of Agriculture, Madison.
Wyoming	C. L. Corkins, State Entomologist, State Department of Agriculture, Powell.
U. S. D. A.	Lee A. Strong, Chief, Bureau of Entomology and Plant Quarantine, Washington, D. C.
Dominion of Canada	L. S. McLaine, Secretary, Destructive Insect and Pest Act Advisory Board, Department of Agriculture, Ottawa.

#### JAPANESE BEETLE

Traps have been used at different places in the state since 1936 to determine the presence and spread of the Japanese beetle. To date, the insect has been found only at Louisville and



Lexington. The trapping records by years for these localities follows:

- 1936. Two beetles in Louisville and one in Lexington.
- 1937. Ten beetles in Louisville and one in Lexington.
- 1938. Sixty-two beetles in Louisville and one in Lexington.
- 1939. Thirteen beetles in Louisville and none in Lexington.

The record shows a marked reduction in numbers in both areas where trapping was conducted. The reduction in Louisville is significant since that area was treated with lead arsenate in 1938 (See Kentucky Regulatory Series Bulletin No. 19, 1939). Not only was a smaller number of beetles taken in the traps in 1939 but all those captured were in the area which had been treated. These facts indicate that the spread in 1939 was stopped and that the soil treatment in Louisville was rather effective.

Plants should be examined during late June, July and early August for Japanese beetles. One of their favorite food plants is the rose, in the flower of which they may be found early in the morning. All captured insects resembling the Japanese beetle should be sent directly to the office of the State Entomologist, Agricultural Experiment Station, Lexington, or taken to the local county agent for positive identification.

#### PHONY PEACH DISEASE

Since the discovery of the first trees infected with phony peach disease in Kentucky in 1935, an intensive inspection program has been carried out with the hope of completely ridding Kentucky of the disease. We are confident this goal is near. Of the six counties in which diseased trees have been found, only two, Graves and Webster, remain as infected counties. No infected trees were found in 1938 and only one in 1939.

Since the disease has an incubation period of two years, it is necessary to inspect orchards, with negative results, for three years in succession before they are considered free. It has also been the practice to inspect all peach trees within a radius of one mile of nurseries growing peach trees for sale. The

environs inspection will be continued for nurseries in counties where phony diseased trees are found.

#### WHITE FRINGED BEETLE

Another of our potential pests is the white fringed beetle, a native of South America, first found in this country in northern Florida in 1936. By the prompt action of the regulatory officials in the four southern states where the beetle was found, namely, Florida, Alabama, Louisiana, and Mississippi, with the aid of the Bureau of Entomology and Plant Quarantine, there has been comparatively little spread of the insect in the four years since its first discovery. Before the complete limits of infestation were known, a few nurseries later found to be infested had made shipments of plants into Kentucky. Approximately forty such shipments were reported by the Bureau of Entomology and Plant Quarantine. The property of each recipient in Kentucky has been carefully inspected for the presence of the white fringed beetle and, to date, none has been found.

#### BLACK VINE WEEVIL

Early in 1940, an infestation of this destructive insect was found in Kentucky for the first time. Approximately 100 plants were killed by the pest in a block of *Taxus* recently imported from Connecticut. A light infestation was found in a shipment of *Taxus* from Long Island, New York. Both lots were of balled stock and accompanied by inspection certificates.

Steps were taken immediately to eradicate the insect to prevent its establishment in the state. The area of heaviest infestation was plowed repeatedly and steamed. To kill any surviving adults, adjacent areas were baited with an apple-sodium fluosilicate bait and all the *Taxus* in the area were sprayed with lead arsenate.

The insect in the adult stage is a black weevil about  $\frac{1}{3}$  inch in length. The weevil cannot fly and males are unknown. Each female is capable of producing over 800 eggs. The larva of the insect is a curved, white to yellowish, legless grub. The grubs injure plants by eating off and girdling the roots and



stems, while the adults feed on the leaves and blossoms. There is one generation a year.

The black vine weevil is especially injurious in the north-eastern states and in Europe. It is known to feed on over 80 different plants and is a serious pest both in the field and in the greenhouses. In the greenhouse, it is especially injurious to cyclamen and primrose. In the field, it is a serious pest of grape vines, strawberries, and yews.

**INSECTS AND DISEASES IN THE ORDER OF THEIR FREQUENCY OF APPEARANCE IN KENTUCKY NURSERIES 1939-40**

Insects	Diseases
Bagworm	Cedar rust
Red spider	Black spot (roses)
Oriental fruit moth	Peony blotch
Apple leaf skeletonizer	Cherry leaf spot
White grub	Dahlia stunt
Strawberry crown borer	Juniper twig blight
Blister beetle	Delphinium crown rot
Cucumber beetle	Canker (pussy willow)
Poplar leaf tier	
Pine bark aphid	
Apple leafhopper	
Dahlia leafhopper	
Tarnished plant bug	
Cherry slug	
Dogwood borer	
Gladiolus thrips	

**KENTUCKY NURSERYMEN WHO RECEIVED CERTIFICATES OF INSPECTION 1939-40**

Name	Address	Acre- age	Kind of Stock
Barnes Nursery, J. B. Barnes	Crofton	1/2	Fruits
Baumgarten, Karl B.	3819 Warner Ave., Louisville	1/4	Gladioli and dahlia
Bellefonte Nursery, Orval Lycan	Ashland	2	General
Blankenbaker, S. H.	Jeffersontown	3	General
Bourbon Nurseries, James S. Wilson	Paris	23	General
Boyle, L. T.	306 Lewis Street, Owensboro	3	Ornamental
Byrn Landscape Service	Mayfield	1/2	General
Burnett, F. M.	Oakland	2 1/2	Strawberry plants

## KENTUCKY NURSERYMEN WHO RECEIVED CERTIFICATES OF INSPECTION 1939-40—Continued

Name	Address	Acreage	Kind of Stock
Carter Nursery, H. V. Pack	Carter	½	Fruits
Clark, Joe A.	Paynesville	½	Fruits
Clinton Nursery, O. Piper	Clinton	1½	Fruits
Conger, Charles E.	Marion, R. 5	1	Strawberry plants
Corbin Nursery, O. H. Tindell	Fountain City, Tenn.	½	Ornamental
Crestwood Floral Co., J. G. Klein	Crestwood	2	General
Crume Nursery and Land- scape Co., T. C. Crume	Florence	10	General
Curry, J. G.	Hawesville		Sweetpotato plants
Dieterich, C. P., and Bro.	Maysville	1½	General
Dixie View Nurseries, A. L. Heger	Covington	60	General
Donaldson Nurseries, J. F. Donaldson	Sparta and Warsaw	65	General
Evans Bros.	Christine	½	Fruits
Fike's Nursery, J. W. Fike	Hopkinsville	25	General
George, R. W.	Jamestown	¼	Fruits
Gramse Nursery, Mrs. R. A. Gramse	Paducah	5	General
Grant, H. L.	Anchorage, R. 1	1	Iris, peony
Green River Home Nursery, W. A. Sandefur	Robards	10	General
Green, T. W.	Bowling Green	1½	General
Haag Nursery, R. L. Haag	Jeffersontown	30	General
Highland Nursery Co., Joe Buenger	Grand at Ft. Thomas Ave., Fort Thomas	2	General
Highland Place Nursery, Mrs. Joseph M. Garrett	Versailles	10	General
Hillenmeyer Nurseries	Lexington	275	General
Homehearth Nurseries, John C. Fryer	Butler, R. 1	10	Native
Humphreys Landscape Service, A. G. Humphreys	Mount Sterling	5	General
Immegart's Nursery, Fred J. Immegart	250 S. Alexandria Pike, Newport	2	General
Johnston, Allie	Calvert City, R. 2	1½	Fruits
Jr. Club Nursery, A. C. Herrin	Shopville	½	Fruits
Keeling, J. W.	Hopkinsville	½	Fruits



KENTUCKY NURSERYMEN WHO RECEIVED CERTIFICATES OF INSPECTION 1939-40—Continued

Name	Address	Acre- age	Kind of Stock
Ky. Forest Service Nursery	State Fair Gr'ds, Louisville	10	Native
Kirch Gardens	818 Perennial Drive, Louisville	1/2	Ornamental
Klein Nursery and Floral Co., Theo. Klein	Crestwood	25	General
Land, W. S.	Salem, Star Rt.	1 1/2	Strawberry plants
Leeming Nursery, W. H. Leeming	Shively	14	General
Limestone Gardens, Mr. and Mrs. F. W. Galloway	Washington	3	Dahlia and perennials
Lindburg's Nursery and Landscape Co.	Versailles	5	General
Louisville Nurseries	St. Matthews	48	General
Martin's Nursery, Robert Martin	Carrollton	8	General
Mathis Florist, Victor	2531 Bank St., Louisville		Florist
Mount Airy Nursery, Dalton Brown	Harrodsburg	2	General
Mount Pleasant Gardens	1820 N. Ft. Thomas Ave., Ft. Thomas	3	Ornamental
Nick's Nursery	Anchorage	10	General
Piper, Bernard	Clinton	1/4	Fruits
Pleasant View Green- houses, T. L. Metcalf	Madisonville		Rose
Pomona Nurseries, A. A. McGinnis	Bowling Green	15	General
Pullam-Threlkeld Nursery	Clay	5	General
Richardson and Bagwell	Murray		Sweetpotato plants
Renfro, H. E.	Beaver Dam	1/4	Fruits
Reynolds and Son, A. D.	Harrodsburg	3	Fruits
Ridgeway Nurseries, Theo. Zollinger	St. Matthews	6	General
Rose Hill Florist	Eminence	1/4	Ornamental
Rottering Greenhouses	Paducah	1/2	Ornamental
Russell Plant Farm, Jesse Russell	Bowling Green		Sweetpotato plants
Sanders Bros. Nursery	Paducah	15	General
Schultz Co., Jacob	Louisville	5	Ornamental
Shupe Nursery, R. H. Shupe	Sedalia	12	General
Singer Gardens, J. W. Singer	Stamping Ground	1 1/2	Ornamental
Soil Conservation Nursery	Paducah	65	Tree seedlings
Tapscott Florist	Owensboro	5	General

KENTUCKY NURSERYMEN WHO RECEIVED CERTIFICATES OF  
INSPECTION 1939-40—Continued

Name	Address	Acre- age	Kind of Stock
Taylor, Truman	Hartford	¼	Strawberry plants
Timmons, J. W., and J. N. Johnston	Sebree	½	Ornamental
Walker's Nursery, Floyd Walker	Fordsville	½	Fruits
Walnut Lawn Farm, Robert L. James	Lexington	5	General
Webb, Clifton	Hawesville		Sweetpotato plants
Webb's Evergreen Nursery, R. F. Webb	Warsaw	¼	Ornamental
Webb and Son, S. T.	Waynesburg	2½	Strawberry plants
Wettstain, H. C.	Chambers		Sweetpotato plants
Whittinghill, Lonnie M.	Love	1	Fruits
Whittinghill, Samuel D.	Love	½	Fruits
Willadean Nurseries, Alvin Kidwell	Sparta	80	General
Yopp's Nursery, M. J. Yopp	Paducah	20	General

## NURSERY DEALERS

Alexander, I. P. ....	Campbellsville, Ky.
Bacon, J., and Sons .....	Louisville, Ky.
Barnes, Marshall .....	McMinnville, Tenn.
Barnett, A. E. ....	Murray, Ky.
Bomar-Summers Hardware Company .....	Louisville, Ky.
Boone, E. D. ....	Lexington, Ky.
Bunton Seed Company .....	Louisville, Ky.
Crider, O. B. ....	Greenfield, Ind.
Ferguson, Lewis .....	Louisa, Ky.
Grant, W. T., Company .....	Louisville, Ky.
Green, H. L., and Company .....	Louisville, Ky.
Green Tree Nursery .....	Pine Bluff, Arkansas
Hall Seed Company .....	Louisville, Ky.
Haupt, Fred .....	Louisville, Ky.
Hoagland and Masters Seed Company .....	Louisville, Ky.
Kresge, S. S., Co. ....	Lexington, Ky.
Kresge, S. S., Co. ....	Paducah, Ky.
Kresge, S. S., Co. ....	Covington, Ky.
Kresge, S. S., Co. ....	Lexington, Ky.
Kresge, S. S., Co. ....	Newport, Ky.
Kress, S. H., & Co. ....	Hopkinsville, Ky.
Kress, S. H., & Co. ....	Winchester, Ky.
Lexington Seed Co. ....	Lexington, Ky.
McCory Stores Corp. ....	Louisville, Ky.
McCullough, J. Chas., Seed Co. ....	Cincinnati, Ohio
McElroy, H. A., Co. ....	Madisonville, Ky.



**NURSERY DEALERS—Continued**

McElroy, H. A., Co. ....	Bowling Green, Ky.
McElroy, H. A., Co. ....	Somerset, Ky.
McElroy, H. A., Co. ....	Morganfield, Ky.
McElroy, H. A., Co. ....	Providence, Ky.
McElroy, H. A., Co. ....	Murray, Ky.
McElroy, H. A., Co. ....	Princeton, Ky.
Martin, G. L. ....	Madisonville, Ky.
Mink, William H. ....	Corbin, Ky.
Mountjoy, Jno. C. ....	Midway, Ky.
Mountjoy, M. B. ....	Louisville, Ky.
Newberry, J. J., Co. ....	Owensboro, Ky.
Newberry, J. J., Co. ....	Henderson, Ky.
Newberry, J. J., Co. ....	Louisville, Ky.
Newberry, J. J., Co. ....	Frankfort, Ky.
Newberry, J. J., Co. ....	Somerset, Ky.
Newberry, J. J., Co. ....	Paris, Ky.
Newberry, J. J., Co. ....	Winchester, Ky.
Newberry, J. J., Co. ....	Harlan, Ky.
Newberry, J. J., Co. ....	Hazard, Ky.
Newberry, J. J., Co. ....	Elizabethtown, Ky.
Newberry, J. J., Co. ....	Glasgow, Ky.
Newberry, J. J., Co. ....	Cynthiana, Ky.
Newberry, J. J., Co. ....	Central City, Ky.
Newberry, J. J., Co. ....	Corbin, Ky.
Newberry, J. J., Co. ....	Mayfield, Ky.
Newberry, J. J., Co. ....	Mt. Sterling, Ky.
Newberry, J. J., Co. ....	Versailles, Ky.
Newberry, J. J., Co. ....	Richmond, Ky.
Newberry, J. J., Co. ....	Lawrenceburg, Ky.
Newberry, J. J., Co. ....	Danville, Ky.
Newberry, J. J., Co. ....	Shelbyville, Ky.
Nickles, B. J. ....	Frankfort, Ky.
Ostrander, J. O. ....	Louisville, Ky.
Powell Seed Store ....	Louisville, Ky.
Purcell Co. ....	Lexington, Ky.
Ray, Carl, Co. ....	St. Matthews, Ky.
Razor, V. C. ....	Flemingsburg, Ky.
Scott-Burr Stores Corp. ....	Middlesboro, Ky.
Scott-Burr Stores Corp. ....	Bowling Green, Ky.
Scott-Burr Stores Corp. ....	Ashland, Ky.
Scott-Burr Stores Corp. ....	Hazard, Ky.
Scott-Burr Stores Corp. ....	Harlan, Ky.
Sears, Roebuck and Company ....	Louisville, Ky.
Skidmore, R. C. ....	Chattanooga, Tenn.
Small, Curt, & Son ....	Louisville, Ky.
Snyder, Ben ....	Louisville, Ky.
Stringer, H. R. ....	Louisville, Ky.
Woolworth, F. W., Co. ....	Paducah, Ky.
Woolworth, F. W., Co. ....	Madisonville, Ky.
Woolworth, F. W., Co. ....	Owensboro, Ky.
Woolworth, F. W., Co. ....	Hopkinsville, Ky.
Woolworth, F. W., Co. ....	Henderson, Ky.
Woolworth, F. W., Co. ....	Mayfield, Ky.
Woolworth, F. W., Co. ....	Bowling Green, Ky.

## NURSERY DEALERS—Continued

Woolworth, F. W., Co. ....	Louisville, Ky.
Woolworth, F. W., Co. ....	Richmond, Ky.
Woolworth, F. W., Co. ....	Lexington, Ky.
Woolworth, F. W., Co. ....	Danville, Ky.
Woolworth, F. W., Co. ....	Covington, Ky.
Woolworth, F. W., Co. ....	Ashland, Ky.
Woolworth, F. W., Co. ....	Newport, Ky.
Woolworth, F. W., Co. ....	Maysville, Ky.
Woolworth, F. W., Co. ....	Frankfort, Ky.
Woolworth, F. W., Co. ....	Louisville, Ky.
Woolworth, F. W., Co. ....	Middlesboro, Ky.

## NON-RESIDENT NURSERYMEN

Name	Address	Stock
Adams Potato Company .....	McLemoresville, Tenn.	Sweetpotato
Arcadia Rose Company .....	Newark, New York	General
Arp Nursery Company .....	Tyler, Texas	General
Armstrong Nurseries .....	Ontario, Calif.	General
Bass Pecan Company .....	Lumberton, Miss.	General
Baxter Nursery .....	Baxter, Tenn.	General
Blackstone, Mrs. Thomas W. ....	Accomac, Va.	General
Blountville Nurseries, Inc. ....	Blountville, Tenn.	General
Blue Spring Nursery Company .....	Smithville, Tenn.	General
Bobbink and Atkins .....	Rutherford, N. J.	General
Bohlender Nurseries Company .....	Tippecanoe City, Ohio	General
Bountiful Ridge Nurseries .....	Princess Anne, Md.	General
Boyd Nursery Company .....	McMinnville, Tenn.	General
Bristol Nurseries, Inc. ....	Bristol, Conn.	General
Byrn Landscape Service, Inc. ....	Dickson, Tenn.	Ornamental
Canterbury .....	Easton, Md.	Boxwood
Cedar Grove Nursery Company .....	Smithville, Tenn.	General
Central New York Nurseries .....	Geneva, New York	General
Chase Nursery Company .....	Chase, Ala.	General
Commercial Nursery Company .....	Decherd, Tenn.	General
Conger's True-To-Name Nursery .....	Smithville, Tenn.	General
The Conard-Pyle Company .....	West Grove, Pa.	General
Continental Plant Company .....	Kittrell, N. C.	General
Couch Brothers Nursery Company .....	McMinnville, Tenn.	General
Cumberland Plateau Nursery Co. ....	Smithville, Tenn.	General
Cumberland Valley Nurseries, Inc. ....	McMinnville, Tenn.	General
Davis, E. C. and B. B., Co. ....	Hagen, Va.	General
DeKalb County Nursery .....	Smithville, Tenn.	General
Dixie Nursery Company .....	Smithville, Tenn.	General
Dixie Rose Nursery .....	Tyler, Texas	Roses
Drake, E. B., Nurseries .....	Winchester, Tenn.	General
Dreer, Henry A. ....	Riverton, N. J.	General
Earlyville Nursery Company .....	Daylight, Tenn.	General
Eastern Nurseries .....	Holliston, Mass.	General
Economy Nursery Company .....	Little Silver, N. J.	General
Emlong's Nursery .....	Stevensville, Mich.	General
Emmons and Company .....	Newark, New York	General
Empire State Nursery Company .....	Newark, New York	General
Evergreen Nursery Company .....	Sturgeon Bay, Wis.	General



**NON-RESIDENT NURSERYMEN—Continued**

Name	Address	Stock
Fair View Nurseries, Inc.	Fort Wayne, Ind.	General
Farm Nursery Company	Baxter, Tenn.	General
Farmers Ideal Nursery Company	Smithville, Tenn.	General
Farmers Reliable Nursery Co.	Smithville, Tenn.	General
Forest Nursery Company	McMinnville, Tenn.	Ornamental
Fruitland Nurseries	Augusta, Ga.	General
Fulton Nursery Company	Smithville, Tenn.	General
Garland, A. T.	Newland, N. C.	General
Gillett Fern and Flower Farm	Southwick, Mass.	General
Graham Nursery Company	Rochester, New York	General
Haley Nursery Company	Smithville, Tenn.	General
Harding Brothers Nursery	McMinnville, Tenn.	General
Harrisons' Nurseries, Inc.	Berlin, Md.	General
Heller Brothers Nursery	New Castle, Ind.	General
Henderson, Peter and Company	Red Bank, N. J.	General
High Plane Nursery Company	Smithville, Tenn.	General
Hill, D., Nursery Company	Dundee, Ill.	General
Hillsboro Landscape Company	Nashville, Tenn.	Ornamental
Home Nursery Company	Fort Gay, W. Va.	General
Hope Nursery	Scottsville, Texas	General
Howard Rose Company	Hemet, Calif.	Roses
Howell Nurseries	Knoxville, Tenn.	Ornamental
Huntsville Wholesale Nurseries, The	Huntsville, Ala.	General
Ideal Nursery and Orchard Co.	Smithville, Tenn.	General
Inter-State Nurseries	Hamburg, Iowa	General
Isaacs Brothers	Greenwood, Del.	Strawberry
Jackson and Perkins Company	Newark, New York	General
Jenkins Nursery, The	Winona, Ohio	General
John's	Apopka, Fla.	General
Kahn, S.	Staten Island, N. Y.	General
Kallay Brothers Company	Painesville, Ohio	General
Kelsey-Highlands Nursery	East Boxford, Mass.	General
Keltonburg Nursery Company	Smithville, Tenn.	General
Knight and Bostwick	Newark, New York	General
Kohankie, Henry and Son	Painesville, Ohio	General
Lacey, S. B., and Norman, L. B.	Newland, N. C.	General
Lang Rose Nurseries	Tyler, Texas	General
McClung Brothers Rose Nursery	Tyer, Texas	Roses
McIlhenny, E. A.	Avery Island, La.	General
McUmbler, R. R.	Greenfield, Tenn.	Strawberry
Maloney Brothers Nursery Co.	Dansville, New York	General
Mason Ky. Wonder Nursery Co.	Smithville, Tenn.	General
May, Earl E., Seed Company	Shenandoah, Iowa	General
Merritt, Joseph S.	Madison, Tenn.	Ornamental
Mobala Nurseries	Mobile, Ala.	General
Moore, Wm. C., and Company	Newark, New York	General
Mount Arbor Nurseries	Shenandoah, Iowa	General
Mulford, Hewett P., and Company	Lebanon, Ohio	General
Naperville Nurseries	Naperville, Ill.	General
Naughton Farms	Waxahachie, Texas	General
Newton's Nursery	Tyler, Texas	Roses

## NON-RESIDENT NURSERYMEN—Continued

Name	Address	Stock
Nicollet County Nursery	St. Peter, Minn.	General
Owen, T. G., and Son	Columbus, Miss.	General
Paramount Nurseries	West Grove, Pa.	Rose and Evergreen
Parsley Brothers Nursery Co.	Smithville, Tenn.	General
Pearce, Rex D.	Moorestown, N. J.	General
Pedigo, J. C., Nursery Company	Smithville, Tenn.	General
Pedigreed Seed Company	New York, N. Y.	General
Perry, O. H., Nursery Company	McMinnville, Tenn.	Ornamental
Peterson, George H.	Fair Lawn, N. J.	General
Pine Creek Nursery Company	Smithville, Tenn.	General
Pleasant View Nurseries	Troy, Ohio	General
Pontiac Nursery Company	Romeo, Mich.	General
Poplar Avenue Nurseries	Memphis, Tenn.	Ornamental
Portland Nursery Company	Portland, Tenn.	General
Princeton Nurseries	Princeton, N. J.	General
Quaker Hill, Inc.	Newark, New York	General
Rock Island Wholesale & Retail Nursery Company	McMinnville, Tenn.	General
Rynalski, K. F.	Fredonia, New York	General
Scarff's W. N., and Sons	New Carlisle, Ohio	General
Schifferli, F. E., and Son Nurseries	Fredonia, New York	Fruit
Shenandoah Nurseries	Shenandoah, Iowa	General
Shumway, R. H., Seedsman	Rockford, Ill.	General
Slatton Nursery Company	McMinnville, Tenn.	General
Smith Brothers Nursery Company	Concord, Ga.	General
Snow Hill Nursery Company	Smithville, Tenn.	General
Southern Nursery and Landscape Company	Winchester, Tenn.	General
Southern States Nurseries	Macclenny, Fla.	General
South Side Nursery Company	Smithville, Tenn.	General
Southland Rose Nurseries	Tyler, Texas	Roses
Standard Nursery Company	McMinnville, Tenn.	General
Stark Brothers Nursery	Louisiana, Mo.	General
Stell Rose Nursery	Tyler, Texas	Roses
Storrs and Harrison Company	Painesville, Ohio	General
Story Rose Fields	Tyler, Texas	Roses
Stuart, C. W., and Company	Newark, New York	General
Studley, Walter A.	Fennville, Mich.	General
Stump and Walter Company	New York, N. Y.	General
Tennessee Nursery Company	Cleveland, Tenn.	General
Texas Nursery Company	Sherman, Texas	General
Tri-State Nurseries	Ironton, Ohio	General
Troup Nursery Company	Troup, Texas	General
Ustler Brothers	Apopka, Fla.	General
Valentine Nurseries	Cosby, Tenn.	Ornamental
Vaughan's Seed Store	Western Springs, Ill.	General
Verhalen Nursery Company	Scottsville, Texas	General
Walnut Grove Nursery Company	McMinnville, Tenn.	General
Washington Heights Nurseries	Knoxville, Tenn.	General
Waxahachie Nursery Company	Waxahachie, Texas	General
Waynesboro Nurseries	Waynesboro, Va.	General



NON-RESIDENT NURSERYMEN—Continued

Wayside Gardens Company	Mentor, Ohio	General
Webb, James, Nursery Company	Smithville, Tenn.	General
Weller Nurseries Company	Holland, Mich.	General
Whitten Nurseries	Bridgman, Mich.	General
Wholeale Nursery Company	McMinnville, Tenn.	General
Willis Nursery Company	Ottawa, Kansas	General
Wilson County Nursery Company	Martha, Tenn.	General
Wilson, C. E., Nurseries	Jacksonville, Texas	General
Wilson, C. E., Nurseries	Manchester, Conn.	General
Winter Garden Ornamental Nursery	Winter Garden, Fla.	Ornamental

NURSERY AGENTS REPRESENTING NON-RESIDENT NURSERIES

Name	Address	Name and Address of Nursery Represented
Alexander, I. P.	McMinnville, Tenn.	..... .....Cumberland Valley Nurseries, McMinnville, Tenn.
Allbritten, G. W.	McMinnville, Tenn.	..... .....The Wholesale Nursery Co., McMinnville, Tenn.
Austin, James	McMinnville, Tenn.	..... .....Couch Bros. Nursery Co., McMinnville, Tenn.
Blankenship, J. B.	Rock Island, Tenn.	..... .....Keltonburg Nursery Co., Smithville, Tenn.
Bonham, W. L.	Bowling Green, Ky.	Haley Nursery Co., Smithville, Tenn.
Brady, Jewel	McMinnville, Tenn.	..... .....The Wholesale Nursery Co., McMinnville, Tenn.
Brown, J. B.	Baxter, Tenn.	Baxter Nursery, Baxter, Tenn.
Brown, J. L.	McMinnville, Tenn.	Couch Bros., McMinnville, Tenn.
Caldwell, W. J.	Smithville, Tenn.	..... .....Farmers Reliable Nursery Co., Smithville, Tenn.
Cantrell, W. T.	Smithville, Tenn.	Keltonburg Nursery Co., Smithville, Tenn.
Carr, B. L.	Ashland, Ky.	Parsley Bros., Smithville, Tenn.
Christian, W. M.	McMinnville, Tenn.	Slatton Nursery, McMinnville, Tenn.
Collier, John	McMinnville, Tenn.	Couch Bros., McMinnville, Tenn.
Cox, L. N.	McMinnville, Tenn.	Couch Bros., McMinnville, Tenn.
Davis, P. P.	McMinnville, Tenn.	..... .....The Wholesale Nursery Co., McMinnville, Tenn.
Fleming, J. H.	Pikeville, Ky.	..... .....Quaker Hill, Newark, N. Y.
Fuston, Haskell	McMinnville, Tenn.	Standard Nursery, McMinnville, Tenn.
Fuston, S. D.	Murfreesboro, Tenn.	Standard Nursery, McMinnville, Tenn.
Fuston, W. L. D.	Liberty, Tenn.	Standard Nursery, McMinnville, Tenn.
Gunter, C. D.	Liberty, Tenn.	Farmers Reliable Nursery, Smithville, Tenn.
Hammer, Brownlow	McMinnville, Tenn.	Harding Bros., McMinnville, Tenn.
Hendrixson, Alton	McMinnville, Tenn.	Wholesale Nursery, McMinnville, Tenn.
Henegar, Barbee	Daylight, Tenn.	..... .....Cumberland Valley Nurseries, Inc., McMinnville, Tenn.
Hubbard, H. B.	Liberty, Tenn.	..... .....Cumberland Plateau Nursery Co., Smithville, Tenn.
James, Mrs. Kate	Silver Point, Tenn.	Couch Bros., McMinnville, Tenn.
Judkins, A. F.	Smithville, Tenn.	Pine Creek Nursery, Smithville, Tenn.
Keyt, W. G.	Smithville, Tenn.	Pine Creek Nursery, Smithville, Tenn.
King, Harrison	Central City, Ky.	Cedar Grove Nursery, Smithville, Tenn.
Loring, R. L.	Nashville, Tenn.	Couch Bros., McMinnville, Tenn.

## NURSERY AGENTS REPRESENTING NON-RESIDENT NURSERIES (Con'd.)

Name	Address	Name and Address of Nursery Represented
Maynard, George	Silver Point, Tenn.	Blue Spring Nursery, Smithville, Tenn.
Medley, B. R.	McMinnville, Tenn.	Wholesale Nursery, McMinnville, Tenn.
Milligan, L. L.	Gassaway, Tenn.	DeKalb County Nursery Co., Smithville, Tenn.
Newby, G. C.	McMinnville, Tenn.	Walnut Grove Nursery, McMinnville, Tenn.
Newby, G. C.	McMinnville, Tenn.	High Plane Nursery, Smithville, Tenn.
Odom, Robert	Smithville, Tenn.	South Side Nursery, Smithville, Tenn.
Paris, W. L.	Smithville, Tenn.	Farmers Ideal Nursery Co., Smithville, Tenn.
Potter, H. R.	Old Hickory, Tenn.	Slatton Nursery, McMinnville, Tenn.
Poynter, H. A.	Hardyville, Ky.	Quaker Hill, Newark, N. Y.
Roberts, C. W.	McMinnville, Tenn.	DeKalb County Nursery Co., Smithville, Tenn.
Ruby, E. E.	Louisville, Ky.	Wholesale Nursery, McMinnville, Tenn.
Sanders, F. C.	Central City, Ky.	Snow Hill Nursery, Smithville, Tenn.
Sanders, R. H.	Central City, Ky.	Cedar Grove Nursery, Smithville, Tenn.
Staley, J. H.	Smithville, Tenn.	Dixie Nursery Co., Smithville, Tenn.
Stanley, Howard	Daylight, Tenn.	Cumberland Valley Nurseries, McMinnville, Tenn.
VanHooser, A. F.	Smithville, Tenn.	South Side Nursery, Smithville, Tenn.
Warren, George R.	McMinnville, Tenn.	Cumberland Valley Nurseries, McMinnville, Tenn.
Washer, Tommie	Smithville, Tenn.	Farmers Reliable Nursery Co., Smithville, Tenn.
Wysong, K. R.	McMinnville, Tenn.	Wholesale Nursery, McMinnville, Tenn.
Young, G. E.	McMinnville, Tenn.	Harding Bros., McMinnville, Tenn.

## SUMMARY OF NURSERY INSPECTION AND CERTIFICATION

Inspections of growing stock	107
Inspections of fruit stock only	14
Inspections of perennials, bulbs, etc.	12
Inspections of strawberry plants	15
Inspections of sweetpotato plants	5
Inspection of tomato plants	1
Inspection of greenhouses	1
Acres of all nursery stock	903
Acres of fruit stock only	12
Acres of perennials, bulbs, etc.	14 $\frac{3}{4}$
Acres of strawberry plants	24 $\frac{1}{4}$
Square feet of sweetpotato beds	21,500
Kentucky grower's certificates issued	78
Non-resident nurserymen's licenses issued	149
Dealer's permits issued	92
Non-resident nursery agents permits issued	49
Miles traveled, July 1, 1939, to June 30, 1940	21,056
Number counties visited	120