

Some Items of Interest to Kentucky Nurserymen

For the Year Ended June 30, 1946

BY W. A. PRICE AND
HOWARD G. TILSON



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BY W. A. PRICE AND HOWARD G. TILSON

The Nursery law, governing the inspection and transportation of nursery stock in Kentucky was enacted in 1926, and published as Chapter 8, Kentucky Acts of 1926. With the revision of the General Statutes of 1940 and with an amendment in 1946, the nursery law has been changed in a few details. The law as it now appears upon the statute books is here reproduced.

KENTUCKY REVISED STATUTES, SECTIONS 249.010 TO 249.990

249.010 DEFINITIONS. As used in this chapter, unless the context requires otherwise:

- (1) "Commissioner" means the Commissioner of Agriculture, Labor and Statistics.
- (2) "Department" means the Department of Agriculture, Labor and Statistics.
- (3) "Director" means the Director of the Agricultural Experiment Station.

249.020 (1925a-1; 1925a-10) STATE ENTOMOLOGIST; ASSISTANTS. (1) The entomologist and botanist of the Agricultural Experiment Station shall be the State Entomologist.

(2) The State Entomologist shall serve without pay other than his salary as an officer of the Agricultural Experiment Station. He shall be paid his traveling expenses.

(3) The State Entomologist shall appoint a deputy entomologist and assistants.

249.030 (1925a-1; 1925a-10) ENTOMOLOGIST MAY MAKE RULES AND PUBLISH DATA. (1) The State Entomologist, with the advice and consent of the director and the commissioner, may prescribe, modify and enforce rules, regulations and orders needed to carry out KRS 249.020 to 249.100.

(2) The State Entomologist may publish bulletins, circulars and reports containing information concerning inspections, insects and plant diseases.

(3) The rules and regulations and publications shall be printed from time to time and furnished to interested persons.

249.040 (1925a-1) ESTABLISHMENT OF QUARANTINES. The State Entomologist shall, with the advice and consent of the director and the commissioner, establish and maintain quarantines against the importation into this state, and against the transportation within this state, of any trees, plants and parts of plants, whether nursery-grown or not, from any state or from any county within the state, where such plants or parts of plants are known to be affected with dangerous insect pests

or plant diseases. He shall designate in announcements of quarantines the area quarantined, whether it constitutes a part of this state or of some other state.

249.050 (1925a-2) INSPECTION OF ARTICLES AND PREMISES; DISEASED PLANTS TO BE DESTROYED. Whenever the State Entomologist or his deputy has reason to believe or is credibly informed that at any place within the state there has been introduced, or offered for sale, trees, plants or parts of plants infected or infested with diseases or destructive pests that are likely to spread, he shall investigate the suspected articles and premises. If they are found so infested or infected, he shall notify the owner or possessor, in writing, of the nature of the infestation, specifying the insects or diseases that have been found, and demand that within a reasonable specified time the affected articles or premises be disinfected, or destroyed by fire, under the direction of the State Entomologist, his deputy or assistant, and at the expense of the owner or possessor.

249.060 (1925a-8) NURSERIES, DEALERS AND AGENTS TO BE LICENSED. (1) Every resident nursery or agency selling nursery stock in this state shall annually file credentials with the State Entomologist. If these credentials are satisfactory to the State Entomologist, the director and the commissioner, the State Entomologist shall, upon payment of a fee of five dollars by the nursery or agency, issue it a license authorizing it to do business in the state.

(2) Every nonresident nursery and every agent, dealer or seller of trees, representing nonresident nurseries or dealers shall annually file credentials with the State Entomologist. These credentials shall include the names of nurseries, nurserymen or other persons represented. If these credentials are satisfactory to the State Entomologist, the director and the commissioner, the State Entomologist shall issue the license.*

(3) Any person soliciting orders for or delivering trees or plants in this state shall carry with him a copy of his license from this state, which he shall show to prospective buyers, purchasers, county officials or agents of the State Entomologist, on demand.

249.070 (1925a-3; 1925a-4) ENTOMOLOGIST TO INSPECT NURSERIES AND ORDER DESTRUCTION OF PESTS; SHIPMENT OF AFFECTED STOCK PROHIBITED. (1) All nurseries where trees, vines, plants or other nursery stock are grown and offered for sale, shall be inspected by the State Entomologist or by his assistant, once each year. He shall notify the owners of such nurseries, in writing, of the presence of any San Jose scale or other dangerous pests on the stock of these nurseries, and shall also notify, in writing, the owner of any affected nursery stock to take such measures, on or before a certain day, for the destruction of insect or fungus enemies of nursery stock as have been shown to be effectual.

(2) The owner of the affected nursery shall, within the time specified, take such steps for the destruction of injurious insect or fungus enemies present, as will exterminate them.

(3) No person shall ship or deliver any such nursery stock affected with insect or fungus enemies, before treatment.

249.080 (1925a-5) ENTOMOLOGIST TO ISSUE CERTIFICATE FOR STOCK FREE FROM INSECTS AND FUNGUS. When the State Entomologist examines any trees, vines, plants or other nursery stock and finds the stock free from dangerously injurious insect and fungus enemies, he shall make out and deliver to the owner of the stock a cer-

* Note: Only resident nurserymen and dealers are required to pay the five dollar license fee.

tificate stating that he has inspected the stock and that he believes it to be free from dangerously injurious insect and fungus enemies. He shall keep in his office, for the information of anyone interested, copies of all valid certificates issued by him.

249.090 (1925a-6) SHIPMENTS TO BE ACCOMPANIED BY INSPECTION CERTIFICATES. Whenever a resident nurseryman or seller of trees, vines, plants or other nursery stock ships or delivers such goods, he shall send on each package so shipped or delivered a printed copy of the certificate issued to him by the State Entomologist, stating that the stock has been inspected as required by law and is believed to be free from dangerously injurious insect or fungus enemies.

249.100 (1925a-7) NONRESIDENTS TO FILE, AND IMPORTED PLANTS TO BEAR, INSPECTION CERTIFICATES. Every nonresident nurseryman or other person intending to ship into this state trees, plants or parts of plants, whether nursery-grown or not, shall file with the State Entomologist a copy of a valid certificate from a state or United States Government inspector showing that the trees, plants or their parts have been inspected and that he is authorized to sell and ship or transport them. All packages of trees, plants or parts of plants shall bear a copy of a certificate of inspection from an official inspector. Transportation companies within the state shall notify the State Entomologist at once when any such trees or plants are received by them without a valid certificate. Nursery stock or other trees, plants or parts of plants shipped into this state in violation of a state or United States quarantine may be seized and destroyed or returned to the shipper at the expense of the owner or possessor.

249.200 (42g-1; 42g-2) JAPANESE BEETLE CONTROL. The State Entomologist shall adopt and carry out such measures as he deems advisable to protect crops from the ravages of the Japanese beetle (*Popillia japonica*). He may employ help, purchase materials and enforce such regulations as in his discretion are necessary to accomplish the purpose.

249.990 (42f-4; 200; 1923; 1925a-4; 1925a-9) PENALTIES. (1) Any person who violates any of the provisions of KRS 249.020 to 249.100 or hinders the carrying out of any of the provisions of those sections shall be fined not less than twenty-five dollars nor more than five hundred dollars.

(2) Any fine imposed for a violation of subsection (3) of KRS 249.070 may be recovered in the county in which the nursery is situated or the county to which the nursery stock is shipped.

SUMMARY OF REQUIREMENTS OF KENTUCKY NURSERY INSPECTION LAW

(1) It shall be unlawful to sell or offer for sale uninspected or uncertified nursery stock. A certificate of inspection indicates freedom from certain injurious insects and plant diseases but does not vouch for trueness to variety nor for grade and condition of any nursery stock.

(2) Growers of nursery stock for sale or shipment shall apply in writing before June 1 of each year to the State Entomologist,

Kentucky Agricultural Experiment Station, Lexington, for inspection services.

(3) Every dealer in nursery stock shall secure a nursery dealer's permit. Before this is issued, however, he must furnish an affidavit that he will buy and sell only stock that is certified and will maintain with the State Entomologist a correct and complete list of all sources from which he obtains his stock. Landscape architects and tree movers who handle nursery stock are classified as dealers.

(4) Every person who solicits orders for nursery stock shall secure and carry an agent's permit which is obtained only upon request of the nurseryman or dealer to be represented.

(5) All packages or bundles of nursery stock shipped by common carrier must have attached a copy of the inspection certificate or permit.

(6) Certificates and permits may be revoked for cause.

(7) Fees shall be paid as follows: Inspection certificate, \$5; dealer's permit, \$5; agents' permits and nonresident nurserymen's certificates are without cost. Fees shall accompany applications. Application blanks may be obtained from the State Entomologist.

(8) Nonresident nurserymen shall file copies of their state certificates and secure nonresident permits. Each package of nursery stock coming into Kentucky shall have a valid inspection certificate attached to it. Nonresident nurserymen, dealers, and agents shall carry their Kentucky permits when soliciting orders or delivering nursery stock in Kentucky.

(9) All certificates and permits automatically expire June 30 following date of issuance.

"NURSERY STOCK" DEFINED

Nursery stock includes all trees, shrubs, vines; roses; strawberry, raspberry, and blackberry plants; herbaceous perennial plants and roots; ornamental bulbs, corms, tubers, and rhizomes; and any parts of the above groups of plants capable of disseminating injurious insects and plant diseases. For regulatory purposes the term "Nursery Stock" includes all plants which grow out-of-doors and live more than one year, whether nursery grown or native.

REQUIREMENTS FOR SHIPMENT OF NURSERY STOCK INTO OTHER STATES

A summary of the major requirements for shipping nursery stock into other states is given in the following tabulation. It will be

REQUIREMENTS FOR SHIPPING NURSERY STOCK INTO OTHER STATES

State	State of Origin Certificate filed	Nurseryman's filing fee	Agent's fee	Special tag	Posted bonds
Alabama	Yes	Reciprocal	\$1	No	None
Arizona	No	None	None	No	None
Arkansas	Yes	Reciprocal	\$1	Yes	Reciprocal
California	No	None	None	No	None
Colorado	Yes	None	None	No	None
Connecticut	No	None	None	No	None
Delaware	Yes	None	None	No	None
Florida	Yes	None	None	Yes	None
Georgia	Yes	Reciprocal	\$1	Yes	\$1000 ¹
Idaho	Yes	\$5 to \$15	\$1	No	\$1000 ¹
Illinois	Yes	None	None	No	None
Indiana	Yes	None	\$1	No	None
Iowa	Yes	Reciprocal	None	No	None
Kansas	Yes	Reciprocal	None	No	None
Kentucky	Yes	None	None	No	None
Louisiana	No	None	None	No	None
Maine	Yes	None	None	No	None
Maryland	Yes	Reciprocal	None	No	None
Massachusetts	Yes	None	None	No	None
Michigan	Yes	\$15 or reciprocal ²	\$1	No	None
Minnesota	Yes	Reciprocal	Reciprocal	No	None
Mississippi	Yes	Reciprocal	None	No	None
Missouri	Yes	\$1 ³	None	No	None
Montana	Yes	\$5 to \$25	\$25	No	None
Nebraska	Yes	Reciprocal	\$1	No	None
Nevada	No	None	None	No	None
New Hampshire	No	None	None	No	None
New Jersey	Yes	Reciprocal	None	No	None
New Mexico	Yes	\$10	\$25	Yes	None
New York	No	None	None	No	None
North Carolina	Yes	Reciprocal	None	No	\$1000 ⁴
North Dakota	Yes	Reciprocal	None	No	None
Ohio	Yes	Reciprocal	\$1	No	None
Oklahoma	Yes	Reciprocal	\$1	No	None
Oregon	No	None	\$1	No	None
Pennsylvania	Yes	None	None	No	None
Rhode Island	Yes	None	None	No	None
South Carolina	Yes	None	None	No	None
South Dakota	Yes	Reciprocal	\$1	No	None
Tennessee	Yes	Reciprocal	Reciprocal	No	\$500 ⁴
Texas	Yes	Reciprocal	None	No	None
Utah	Yes	\$10 ²	None	No	None
Vermont	No	None	None	No	None
Virginia	No	Reciprocal	Reciprocal	No	None
Washington	No	Reciprocal	\$1	No	None
West Virginia	Yes	None	\$1	No	None
Wisconsin	Yes	None	None	No	None
Wyoming	Yes	Reciprocal	None	No	None

¹ Only for fruit-stock shippers. ² For nurserymen who operate through agents.
³ Only to sweetpotato-plant shippers. ⁴ For nurserymen who promise maintenance.

noted that most states require the out-of-state shipper to file a copy of his nursery inspection certificate with the proper administrative authority before shipments are made. Only three states require filing fees, except under special conditions, which are noted in a table which follows.

Special shipping tags are required and will be furnished at a nominal cost to the shippers by the following states: Arkansas (\$2 per 100 tags); Florida (\$3.24 per 100 tags); Georgia (\$1 per 100 tags); and New Mexico (\$1.25 per 100 tags).

A special tag should be secured and attached to each bundle of nursery stock shipped to any of the four states listed.

OFFICERS IN CHARGE OF INSPECTION AND QUARANTINE SERVICE

Alabama	B. P. Livingston, Chief, Division of Plant Industry, P. O. Box 220, Montgomery, Ala.
Arizona	J. L. E. Lauderdale, State Entomologist, Box 2006, Phoenix, Ariz.
Arkansas	P. H. Millar, Chief Inspector, Little Rock, Ark.
California	H. M. Armitage, Chief, Bureau of Plant Quarantine, Sacramento, Calif.
Colorado	F. Herbert Gates, State Entomologist, Bureau of Plant and Insect Control, State Museum, Denver, Colo.
Connecticut	R. B. Friend, State Entomologist, New Haven 4, Conn.
Delaware	Ed A. Andrews, State Board of Agriculture, Dover, Del.
Florida	Arthur C. Brown, State Plant Board, Gainesville, Fla.
Georgia	C. H. Alden, Director of Entomology, Atlanta, Ga.
Idaho	Wilson Kellogg, Director, Bureau of Plant Industry, Boise, Idaho.
Illinois	H. F. Seifert, Horticultural Inspection Supervisor, Division of Plant Industry, Glen Ellyn, Ill.
Indiana	Frank N. Wallace, State Entomologist, Department of Conservation, Indianapolis, Ind.
Iowa	Carl J. Drake, State Entomologist, Ames, Iowa.
Kansas	Geo. W. Kinkead, Secretary, Entomological Com- mission, Topeka, Kans.
Kentucky	W. A. Price, State Entomologist, Lexington, Ky.
Louisiana	W. E. Anderson, State Entomologist, Baton Rouge, La.
Maine	Stanley L. Painter, State Horticulturist, Augusta, Me.
Maryland	E. N. Cory, State Entomologist, College Park, Md.
Massachusetts	Louis J. Brems, Director, Division of Plant Pest Control and Fairs, State House, Boston, Mass.
Michigan	C. A. Boyer, Chief Bureau Plant Industry, Depart- ment of Agriculture, Lansing, Mich.
Minnesota	T. L. Aamodt, Director Bureau Plant Industry, Uni- versity Farm, St. Paul, Minn.
Mississippi	Clay Lyle, Entomologist, State College, Miss.
Missouri	Lloyd E. Adams, State Entomologist, Jefferson City, Mo.

Montana	George L. Knight, Chief, Division of Horticulture, Missoula, Mont.
Nebraska	L. M. Gates, Entomologist, State Department of Agriculture and Inspection, Lincoln, Neb.
Nevada	George G. Schweis, Director, Division of Plant Industry, Box 1027, Reno, Nev.
New Hampshire	W. C. O'Kane, Deputy Commissioner of Agriculture, Durham, N. H.
New Jersey	Harry B. Weiss, Chief, Bureau of Plant Industry, State Department of Agriculture, Trenton, N. J.
New Mexico	R. F. Crawford, Plant Quarantine and Regulatory Office, State College, N. M.
New York	A. B. Buchholz, Director, Bureau of Plant Industry, Department of Agriculture and Markets, Albany, N. Y.
North Carolina	C. H. Brannon, Entomologist, State Department of Agriculture, Raleigh, N. C.
North Dakota	J. A. Munro, State Entomologist, Agricultural College, Fargo, N. D.
Ohio	Chas. A. Reese, Chief, Division of Plant Industry, Department of Agriculture, Columbus, Ohio.
Oklahoma	Clyde A. Bower, Chief, Division of Entomology and Plant Industry, Oklahoma City, Okla.
Oregon	Frank McKennon, Chief, Division of Plant Industry, Department of Agriculture, Salem, Ore.
Pennsylvania	T. L. Guyton, Director, Bureau of Plant Industry, Harrisburg, Pa.
Rhode Island	Cedric C. Jennings, Administrator, Division of Entomology and Plant Industry, State House, Providence, R. I.
South Carolina	South Carolina State Crop Pest Commission, Clemson College, S. C.
South Dakota	Director, Division of Plant Industry, Department of Agriculture, Pierre, S. D.
Tennessee	G. M. Bentley, State Entomologist and Plant Pathologist, Knoxville 16, Tenn.
Texas	Walter T. McKay, Chief Entomologist, Department of Agriculture, Austin, Texas.
Utah	Blaine C. Taylor, State Entomologist, State Board of Agriculture, Salt Lake City, Utah.
Vermont	M. B. Cummings, State Nursery Inspector, Burlington, Vt.
Virginia	G. T. French, State Entomologist, Richmond 19, Va.
Washington	Wm. H. Shaw, Supervisor of Horticulture, Olympia, Washington.
West Virginia	F. Waldo Craig, Entomologist, State Department of Agriculture, Charleston, W. Va.
Wisconsin	E. L. Chambers, State Entomologist, Madison, Wis.
Wyoming	B. Thomas Snipes, State Entomologist, State Department of Agriculture, Powell, Wyo.
Federal Quarantines and District of Columbia	Bureau of Entomology and Plant Quarantine, U. S. Department of Agriculture, Washington, 25, D. C.
Dominion of Canada	W. N. Keenan, Secretary, Destructive Insect and Pest Act Advisory Board, Department of Agriculture, Ottawa, Canada.

OUTLOOK FOR FUTURE PEST PROBLEMS

During and since the recent war years there has been rapid development in means of transportation. As a result there are likely to be increased introductions and spread of insects and plant diseases. This is especially significant in view of the fact that air-borne shipments of flowers and fresh fruits from foreign countries are now being made.

Pests introduced from foreign countries have proved to be our most destructive ones. Great care should be taken, therefore, to reduce to the minimum the risks of establishing new insects and diseases in this country. The nurseryman can contribute much to this program by dealing with reputable foreign producers who merchandise only clean stock; by examining the stock carefully upon its arrival; by reporting any suspicious troubles to the proper authorities; and by adopting vigorous suppressive measures if and when foreign pests are discovered on the premises.

A knowledge of foreign plant pests in their native habitat is not adequate to predict with any degree of certainty their behavior pattern if they were liberated in the United States. In our effort, as a nation, to adjust relations with other nations we cannot afford to lose sight of the potential dangers of plant pests of foreign origin.

Federal and State plant quarantines and regulations are constantly undergoing change and revision. As the damage from each plant pest increases or diminishes and as the efficiency of each new insecticide or chemical treatment is demonstrated, plant regulatory measures must be revised to meet the changed conditions. Nurserymen have interested themselves in State and Federal regulatory measures and have taken an active part in helping to adjust these regulations so as to get maximum protection with a minimum of restriction to interstate commerce.

Other groups of producers of agricultural commodities would do well to consider the example of informed cooperation with regulatory officials, apparent in the nursery industry.

JAPANESE BEETLE

During the summer of 1945, Japanese beetle traps were operated in cooperation with the Federal Government in 60 towns and villages in Kentucky, ranging from Jenkins on the Northeast to Mayfield on the Southwest. No beetles were found or captured in Kentucky dur-

ing that intensive trapping campaign. Plans are now under way for a continuation of the beetle trapping program during the summer of 1946. It is hoped that the trapping results will again be negative. If, however, the beetle has become established in some locality in the state that fact should be known as soon as possible in order that repressive measures may be taken before the infestation becomes too widespread for effective and feasible treatment.

WHITE PINE BLISTER RUST

After a lapse of several years, a systematic survey of the white pine areas in Kentucky was resumed in 1945. This was a cooperative project by the Bureau of Entomology and Plant Quarantine, the United States Forest Service (Cumberland National Forest), and the Kentucky Agricultural Experiment Station.

The principal native white pine stands in Kentucky, comprising about 80,000 acres, are in Wolfe and adjoining counties, where the number of stems per acre is sufficient to make it economically important. So far, no blister rust has been found in Kentucky. Infections have been found in a number of adjoining states, however, and the work will be continued in 1946 to determine whether the disease has spread into Kentucky.

The program of White Pine Blister Rust control includes the task of eliminating *Ribes* (currant and gooseberry plants), both native and cultivated, from within the stands of white pine and from the immediate environs. The species of *Ribes* act as alternate host to the fungus which causes blister rust on white pine. To date a total of 4,762 *Ribes* have been destroyed within the control area in Kentucky.

DUTCH ELM DISEASE

Dutch Elm Disease has become established in Kentucky. For several years there has existed a center of infection of this disease in southern Ohio across the Ohio river from Campbell county, Kentucky. Because of the rugged type of country where numerous native elms of all sizes are growing, it is questionable whether, under the conditions, control measures should be attempted. The area surrounding the center of infection in Ohio has been periodically scouted to determine the spread of the disease. During the summer and early fall of 1945 two elms in Campbell county, Kentucky, were diagnosed as being infected with Dutch Elm Disease. Since these original in-

fections were found, a much wider area has been scouted in an effort to determine how far the disease had spread into Kentucky. A few additional infected elms have been found in close proximity to the Ohio river in Campbell, Bracken, Kenton, and Pendleton counties.

The possibility of working out a practical control program for Dutch Elm Disease in Kentucky is not encouraging. There are two major natural difficulties; first, the area in which the infection occurs is hilly land covered primarily by native forest including a large percentage of elms; second, Phloem necrosis occurs widespread over the same area as that now being invaded by Dutch Elm Disease.

The elm bark beetle (*Scolytus multistriatus*), appears to be the principal carrier of Dutch Elm Disease. The beetles feed and multiply on dead or dying elm wood. From these two facts it can be readily understood why the control of Dutch Elm Disease would be a difficult task in areas where Phloem necrosis is prevalent. The existence of elms dying from other causes than Dutch Elm Disease also complicates the problem.

The Appropriation Act for the United States Department of Agriculture for the fiscal year 1944 provided that no part of the appropriation was to be used for the removal of trees affected with Dutch Elm Disease from any property other than that owned by the Federal Government. This necessitated a change in the nature of the program of Dutch Elm Disease control by the Bureau of Entomology and Plant Quarantine. The revised program, according to a report of the Bureau of Entomology and Plant Quarantine, has four main objectives: (1) scouting to determine the presence or absence of the disease; (2) the operation of a Dutch Elm Disease laboratory for the culture of specimens taken from suspected trees; (3) the enforcement of the domestic plant quarantine on account of Dutch Elm Disease; (4) the operation of experimental or demonstration plots to determine the practicability of living with Dutch Elm Disease and of saving valuable elms despite the presence of the disease in a given community or region.

The Bureau of Entomology and Plant Quarantine is now considering the advisability of revoking the Federal Quarantine concerning Dutch Elm Disease. No practical enforcement policy has been devised for Dutch Elm Disease Quarantine that could be considered consistent and effective when applied to both Dutch Elm

Disease and Phloem Necrosis. It is not known how Phloem Necrosis is spread nor how to distinguish the two diseases in the early stages; consequently the only practical quarantine action would be outright embargo. In the event that the Bureau of Entomology and Plant Quarantine revokes the Federal Dutch Elm Disease Quarantine the task will fall upon the states to give themselves as much protection as possible through state quarantine action. The operation of foreign plant quarantine (No. 70) directed against Dutch Elm Disease from foreign countries will not be affected by any changes in the Federal Domestic Quarantine.

WHITE FRINGED BEETLE

The recent discovery of White Fringed Beetles in Dodge and Peach counties in Georgia demonstrates the ability of the insects to spread in the face of Federal and State Quarantine measures. Ten years have elapsed since the first beetles were found in Florida and four years since the first reports of an established infestation in North Carolina.

The recently found infestation in Georgia makes a total of six states with established infestations. These are Alabama, Florida, Georgia, Louisiana, Mississippi and North Carolina.

KENTUCKY NURSERYMEN WHO RECEIVED CERTIFICATES OF INSPECTION, 1945-46

Name	Address	Acreage	Kind of Stock
Arterburn, Paul	St. Matthews	10	Ornamental
Barnett's Nursery, A. E. Barnett	Murray	½	Ornamental
Bellefonte Nursery, Orval Lycan	Ashland	5	Ornamental
Big Sandy Nursery, W. S. Burris	Buchanan	½	General
Blankenbeker, S. H.	Jeffersontown	3	Ornamental
Carter Nursery, H. V. Pack	Carter	½	General
Clark, Joe A.	Webster	½	Fruits
Clyffty Evergreen Gardens, D. L. Parsons	Catlettsburg	1	Ornamental
Crawford, I. T.	Murray	1	Gladioli
Crume Nursery & Land- scape Co., T. C. Crume..	Florence	40	General
Curry, J. G.	Hawesville	Sweetpotato plants
Dieterich & Brothers	Maysville	1	Ornamental

Dixie View Nursery, A. L. Heger	Florence P. O. Box 423	60	General
Dressman, J. A.	Covington	Tulips
Durrett, Lydean	Louisville	2	General
Elizabethtown Florist and Nursery	Elizabethtown	½	General
Evans Brothers	Christine	½	Fruits
Evans Gardens	Lexington	1	Ornamental
Fike Nursery	Hopkinsville	45	General
Gardiner, Boone Nur- series, Dan Gardiner.....	Louisville, R. 7	10	General
Gramse Nursery	Paducah	5	General
Grant Gardens, Dr. Henry Lee Grant	Louisville	1	Ornamental
Green River Home Nur- sery, W. A. Sandefur	Robards	10	General
Green, T. W.	Bowling Green	4	General
Haag Nursery, R. L. Haag	Jeffersontown	30	General
Highland Fruit Farm, Truman Taylor	Waynesburg	1½	Strawberry plants
Highland Place Nursery, Mrs. Joseph Garrett	Versailles	10	General
Hill's Nursery	Warsaw	40	General
Hill, Tom	Warsaw	½	General
Hillenmeyer Nurseries	Lexington	260	General
Humphreys Landscape Service, A. G. Humphreys	Mt. Sterling	5	General
Johnston, Allie	Calvert City	2	General
Kelley Nurseries, Asa Kelly	Fordsville	½	Fruits
Kentucky Department of Forestry	Frankfort	5	Forest tree seedlings
Kirch Gardens, Louis Kirch	Louisville	1	Ornamental
Kistler, Mrs. Belle M.	Anchorage	1	Ornamental
Klein Nursery & Floral Co., Theo. Klein	Crestwood	50	General
Korfhage Nursery and Florist	Shively	8	General
Leeming Nursery	Shively	10	General
Lindburg Nursery	Lexington	4	General
Martin's Nursery, R. F. Martin	Carrollton	30	General
McCutchen's Greenhouses	Paducah	Potted plants
Metcalfe Florist	Hopkinsville	Floral stock
Mt. Pleasant Gardens	Ft. Thomas	10	General
Murray Nursery and Florist, W. P. Roberts ..	Murray	4	General
Nick's Nursery	Anchorage	25	General
Patterson, A. C.	Centertown	14	Gladioli
Piper, Bernard B.	Clinton	1½	Fruits
Pomona Nurseries	Bowling Green	10	General
Pullam-Threlkeld Nursery	Clay	5	General
Ray, Carl	St. Matthews	1	General
Reynolds, A. D. and Son..	Harrodsburg	5	General

Ridgeway Nurseries,			
Theo. Zollinger	St. Matthews	5	General
Sanders Brothers Nursery	Paducah	5	General
Schneidman's Greenhouses	Paducah	6	General
Shupe Nursery	Sedalia	5	General
Singer Gardens	Stamping Ground	1	Ornamental
Smits Greenhouses	Paris	5	General
Soil Conservation			
Nursery	Paducah	25	Forest tree seedlings
Spring Hill Nursery	Ashland	2	Ornamental
Thrasher, M. F.	Lewisport	1½	Strawberry plants
Todd County Nursery	Trenton	1	Ornamental
Valentine Nurseries	Keavy	5	Hemlocks
Wakefield Nurseries	Louisville, R. 7	50	General
Walker, Kingsley Co.	Louisville	½	General
Walnut Lawn Farm,			
R. L. James	Lexington	6	General
Webb, Clifton	Hawesville	---	Sweetpotato plants
Webb's Evergreen			
Nursery, R. F. Webb	Warsaw	1	Ornamentals
Webb, S. T.	Eubank, R. 2	½	Strawberry plants
Wettstain, H. C.	Lewisport, R. 1	---	Sweetpotato plants
Whittinghill, Lonnie M.	Love	2	General
Whittinghill, Samuel D.	Love	½	Fruits
Willadean Nurseries	Sparta	75	General
Yopp Nursery	Paducah	5	General

NURSERY DEALERS

Alexander, I. P.	Campbellsville
Ashby, Sterett	Cloverport
Ball, H. G.	Madisonville
Bezold, Anthony	Newport
Bickers, Arnold	Lexington
Bomar-Summers	Louisville
Brashear, G. D.	Hazard
Bunton Seed Co.	Louisville
Elam, Charlie	Jeffersonville
Estes, Duard	Lexington
Furnish, Ray	Ft. Thomas
Grant, W. T. Co.	Louisville
Green, H. L. Co., Inc.	Louisville
Green, L. E.	Nashville, Tennessee
Hall Seed Co.	Louisville
Harvill, A. M.	Princeton
Haupt, Fred	Louisville
Holt, James L.	Jeffersonville
Howard, M. B.	Paintsville
Kresge, S. S. Co., No. 56	Louisville
Kresge, S. S. Co.	Covington
Kresge, S. S. Co.	Newport
Kresge, S. S. Co.	Owensboro
Kresge, S. S. Co.	Paducah
Kresge, S. S. Co., No. 2609	Louisville
Kress, S. H. and Co.	Ashland
Kress, S. H. and Co.	Hopkinsville
Kress, S. H. and Co.	Winchester
Martin, G. L.	Moorman

McCrorry Store	Louisville
McCullough, The J. Chas., Seed Co.	Cincinnati, Ohio
Montgomery Ward and Co.	Hopkinsville
Murphy, G. C. Co.	Ashland
Murphy, G. C. Co.	Maysville
Murphy, G. C. Co.	Paintsville
Murphy, G. C. Co.	Pikeville
Newberry, J. J. Co.	Owensboro
Newberry, J. J. Co.	Henderson
Newberry, J. J. Co.	Louisville
Newberry, J. J. Co.	Frankfort
Newberry, J. J. Co.	Paris
Newberry, J. J. Co.	Winchester
Newberry, J. J. Co.	Harlan
Newberry, J. J. Co.	Hazard
Newberry, J. J. Co.	Shelbyville
Newberry, J. J. Co.	Elizabethtown
Newberry, J. J. Co.	Glasgow
Newberry, J. J. Co.	Cynthiana
Newberry, J. J. Co.	Central City
Newberry, J. J. Co.	Corbin
Newberry, J. J. Co.	Mayfield
Newberry, J. J. Co.	Harrodsburg
Newberry, J. J. Co.	Mt. Sterling
Newberry, J. J. Co.	Versailles
Newberry, J. J. Co.	Pineville
Newberry, J. J. Co.	Lebanon
Newberry, J. J. Co.	Richmond
Newberry, J. J. Co.	Lawrenceburg
Newberry, J. J. Co.	Danville
Newberry, J. J. Co.	Bardstown
Ostrander, John O.	Louisville
Pinotti, Tony	Louisville
Powell Seed Store	Louisville
Renfro Valley Nurseries	Renfro Valley
Renfrow, H. E.	Beaver Dam
Riesenberg, Herman J.	Covington
Scott-Burr Stores Corp.	Chicago, Illinois
Sears, Roebuck and Co.	Owensboro
Setters, James	Jeffersonville
Stoke, Louis, Jr.	Louisville
Straus, Kaufman Co., Inc.	Louisville
Stringer, S. S.	Memphis, Tennessee
Tipton, Richard	Madisonville
Watkins, LeRoy S.	Owensboro
Woolworth, F. W. Co.	Paducah
Woolworth, F. W. Co.	Owensboro
Woolworth, F. W. Co.	Henderson
Woolworth, F. W. Co.	Bowling Green
Woolworth, F. W. Co.	Hopkinsville
Woolworth, F. W. Co.	Mayfield
Woolworth, F. W. Co.	Madisonville
Woolworth, F. W. Co., No. 34	Louisville
Woolworth, F. W. Co.	Covington
Woolworth, F. W. Co.	Lexington
Woolworth, F. W. Co.	Newport
Woolworth, F. W. Co.	Frankfort
Woolworth, F. W. Co.	St. Matthews
Woolworth, F. W. Co.	Richmond

Woolworth, F. W. Co.	Danville
Woolworth, F. W. Co., No. 1702	Louisville
Woolworth, F. W. Co., No. 1988	Louisville

NONRESIDENT NURSERIES

Arcadia Rose Co.	Newark, New York
Armstrong Nurseries	Ontario, California
Arp Nursery Co.	Tyler, Texas
Athens Nursery Co.	Athens, Alabama
Baker Nurseries	Higginson, Arkansas
Bass Pecan Co.	Lumberton, Mississippi
Baxter Nursery Co.	Baxter, Tennessee
Bernhardt, Dean J.	Three Rivers, Michigan
Bobbink and Atkins	East Rutherford, New Jersey
Bountiful Ridge Nurseries	Princess Anne, Maryland
Boyd Nursery Co.	McMinnville, Tennessee
Breedlove Nurseries	Tyler, Texas
Burdwell Nurseries Co.	Columbus, Ohio
Cartwright Nurseries	Collierville, Tennessee
Cedar Grove Nursery	Smithville, Tennessee
Central New York Nurseries	Geneva, New York
Chase Nursery Co.	Chase, Alabama
Chase-Pitkin Nurseries, Inc.	Rochester, New York
Commercial Nursery Co.	Decherd, Tennessee
Conard-Pyle Co.	West Grove, Pennsylvania
Couch Bros. Nursery Co.	McMinnville, Tennessee
Cumberland Plateau Nursery Co.	Smithville, Tennessee
Cumberland Valley Nurseries, Inc.	McMinnville, Tennessee
Cummings', Ira J., Warehouse	Chicago, Illinois
Davis, E. C.	Rose Hill, Virginia
Davis, W. F.	Van Fleet, Mississippi
Economy Nursery Co.	Little Silver, New Jersey
Emlong's Nurseries, Inc.	Stevensville, Michigan
Emmons and Co., Inc.	Newark, New York
Empire Nursery and Orchard	Baileyton, Alabama
Empire Nursery Products Co.	Newark, New York
Evergreen Nursery Co.	Sturgeon Bay, Wisconsin
Fair View Nursery Co.	Daylight, Tennessee
Farmers Wholesale Nursery	Smithville, Tennessee
Fiore, Charles Nurseries	Prairie View, Illinois
Flowerfield Bulb Farm	Long Island, New York
Forest Nursery Co.	McMinnville, Tennessee
Fruitland Nurseries	Augusta, Georgia
Fulton Nursery Co.	Smithville, Tennessee
Gilmore Plant and Bulb Co.	Julian, North Carolina
Graham-Charlton, Inc.	Geneva, New York
Haley Nursery Co.	McMinnville, Tennessee
Harding Bros. Nursery	McMinnville, Tennessee
Hartford Farms	Hartford, Michigan
Hawk and Son Nursery	Beach City, Ohio
Hill, D., Nursery Co.	Dundee, Illinois
Home Nursery Co.	Fort Gay, West Virginia
Howard Rose Co.	Hemet, California
Howell Nurseries	Knoxville, Tennessee
Huntsville Wholesale Nurseries, Inc.	Huntsville, Alabama
Ideal Nursery and Orchard Co.	Smithsville, Tennessee
Inter-State Nurseries	Hamburg, Iowa
Jackson and Perkins Co.	Newark, New York

Jimmie's Nurseries	Tyler, Texas
John's	Apopka, Florida
Kahn, S.	Staten Island, New York
Kallay Bros. Co.	Painesville, Ohio
Kingsville Nurseries, Inc.	Kingsville, Maryland
Kyln, Gerard K.	Mentor, Ohio
Knight and Bostwick	Newark, New York
Kohankie, Henry and Son, Nursery	Painesville, Ohio
Maloney Bros. Nursery Co., Inc.	Dansville, New York
Mason Kentucky Wonder Nursery Co.	Smithville, Tennessee
May, Earl G., Seed Co.	Shenandoah, Iowa
McClung Bros. Rose Nursery	Tyler, Texas
McKay Nursery Co.	Madison, Wisconsin
Missouri Nurseries	Louisiana, Missouri
McIlhenny, E. A.	Avery Island, Louisiana
Moore, Wm. C. and Co., Inc.	Newark, New York
Mount Arbor Nurseries	Shenandoah, Iowa
Mulford, Hewett P. and Co.	Lebanon, Ohio
Murphy Nursery Co.	Smithville, Tennessee
Murray, Arthur Co., Inc.	Memphis, Tennessee
Naperville Nurseries	Naperville, Illinois
New Fruit Nursery Co.	Smithville, Tennessee
Onarga Nursery Co., Inc.	Onarga, Illinois
Owen, T. G. and Son, Inc.	Columbus, Mississippi
Paramount Nurseries	West Grove, Pennsylvania
Pharr Nurseries	Pharr, Texas
Pine Creek Nursery Co.	Smithville, Tennessee
Popular Avenue Nurseries	Memphis, Tennessee
Portland Nursery	Portland, Tennessee
Potter, H. R. Nursery	Madison, Tennessee
Pleasant View Nurseries	Troy, Ohio
Quaker Hill, Inc.	Newark, New York
Rosemont Nurseries	Tyler, Texas
Scarff's, Sons, W. N.	New Carlisle, Ohio
Scruggs Nursery	McMinnville, Tennessee
Shenandoah Nurseries	Shenandoah, Iowa
Shumway, R. H. Seedsman	Rockford, Illinois
Smith Bros. Nursery Co.	Concord, Georgia
Southern Nursery and Landscape Co.	Winchester, Tennessee
Springdale Farms	Portland, Tennessee
Spring Hill Nurseries Co.	Tipp City, Ohio
Standard Nursery Co.	McMinnville, Tennessee
Stark Bros. Nurseries and Orchard Co.	Louisiana, Missouri
Stevenson and Cox	Perry, Ohio
Storrs and Harrison Nurseries, Inc.	Painesville, Ohio
Strongsville Greenhouse	Strongsville, Ohio
Stuart, C. W. and Co.	Newark, New York
Stumpp and Walter Co.	New York, New York
Sunny Ridge Nursery	Round Hill, Virginia
Tennessee Nursery Co.	Cleveland, Tennessee
Texas Nursery Co.	Tyler, Texas
Upton Nursery Co.	Detroit, Michigan
Ustler Bros.	Apopka, Florida
Valentine Nurseries	Cosby, Tennessee
Vaughn's Seed Store	Western Springs, Illinois
Vaughn's Seed Store	New York, New York
Verhalen Nursery Co.	Scottsville, Texas
Wayside Gardens	Mentor, Ohio
Weller Nurseries, Inc.	Holland, Michigan

Western Maine Forest Nursery	Fryeburg, Maine
Whitten Nurseries	Bridgman, Michigan
Wilson County Nursery Co.	Martha, Tennessee
Wilson, C. E. Nurseries	Jacksonville, Texas

NURSERY AGENTS REPRESENTING NONRESIDENT NURSERIES

Agness, Hoard J.	Louisville, Kentucky
Allen, Mrs. Allen	Smithville, Tennessee
Bragg, Julian A.	Ashland, Kentucky
Brown, J. B.	Baxter, Tennessee
Brown, W. J.	Augusta, Kentucky
Calloway, Mrs. George A.	Louisville, Kentucky
Christian, W. M.	McMinnville, Tennessee
Cummings, Aubie A.	Evansville, Indiana
Fleming, J. H.	Virgie, Kentucky
Fuston, O. D.	McMinnville, Tennessee
Fuston, S. D.	Murfreesboro, Tennessee
Glidewell, John H.	Evansville, Indiana
Hughes, L. E.	Murray, Kentucky
Jean, Robert A.	Elberfeld, Indiana
Lyons, Mrs. Asenath	Ashland, Kentucky
McCombs, Leo W.	Louisville, Kentucky
McKnight, O. P.	Murfreesboro, Tennessee
Pack, O. D.	McMinnville, Tennessee
Partan, Carl	McMinnville, Tennessee
Potter, Kelly B.	Madison, Tennessee
Priest, John R.	Calhoun, Kentucky
Ruedeman, William	Louisville, Kentucky
Sagely, R. C.	Murfreesboro, Tennessee
Schalk, Ernest Franklin	Shively, Kentucky
Smith, A. N.	Evansville, Indiana
Young, G. M.	Smithville, Tennessee

SUMMARY OF NURSERY INSPECTION

Inspections of growing stock	83
Inspections of fruit stock only	7
Inspections of perennials, bulbs, etc.	7
Inspections of sweetpotato plants	3
Inspections of greenhouses	3
Acres of all growing stock	941.5
Acres of fruit stock only	5.5
Square feet of sweetpotato plant beds	6,400
Kentucky growers' certificates issued	74
Nonresident nurserymen's license issued	116
Nursery dealer permits issued	93
Nonresident nursery agents permits issued	26
Miles traveled, July 1, 1945, to June 30, 1946	16,299
Number of counties visited	120

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