Annual Report Of

The Kentucky Plant Pest Control Law And Its Administration

For the Year Ended June 30, 1958

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Kentucky Agricultural Experiment Station
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Lexington

ANNUAL REPORT OF THE KENTUCKY PLANT PEST CONTROL LAW AND ITS ADMINISTRATION, FOR THE YEAR ENDED JUNE 30, 1958

by Lee H. Townsend and Howard G. Tilson

Herein is reproduced as it appears on the statute books the Kentucky law relating to the inspection of nurseries and other plant growing businesses; the licensing of growers, dealers, and agents of plants; the control or eradication of newly introduced plant pests; and the promulgation of plant pest quarantines.

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; ASSISTANT.

- (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, 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 quarantine the area quarantined, whether it constitutes a part of this state or 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 AFFECT-ED STOCK PROHIBITED. (1) All nurseries where trees, vines, plants or *Only resident nurserymen and dealers are required to pay the five dollars license fee.

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 insects or fungus enemies present, as will exterminate them.
- (3) No person shall ship or deliver any such nursery stock affected with insects 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 insects and fungus enemies, he shall make out and deliver to the owner of the stock a certificate stating that he has inspected the stock and that he believes it to be free from dangerously injurious insects 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 descretion 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 conditions of any nursery stock.
- (2) Growers of nursery stock, for sale or shipment, shall apply in writing before June 1st 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 gets 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 obtain and carry an agent's permit which is secured 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 permit 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

furnished without cost. Fees shall accompany application. Application blanks may be obtained from the State Entomologist.

(8) Nonresidents nurserymen shall file copies of their state certificate and secure nonresident permits. Every package of nursery stock coming into Kentucky shall have a valid inspection certificate attached to the package. 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 fol-

lowing date of issuance.

"NURSERY STOCK" DEFINED

Nursery stock includes all trees, shrubs, vines; roses, strawberry, raspberry, and blackberry plants; herbaceous perennial plants and roots; grass "plugs", "sprigs" and sod; ornamental bulbs, corms, tubers, and rhizomes; and any part 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 on the following page. It will be 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, that are noted in a table which follows.

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

| | State of | 101 2011 1222222 | | | |
|--------------------------------|-------------|---------------------------------|------------|------------------|---------------------|
| | origin | | | | |
| State | certificate | Nurseryman's | Agent's | Special | Posted |
| | filed | filing fee | fee | tag | Bond |
| Alabama | Yes | Reciprocal | \$1 | No | None |
| Arizona | No | None | None | No | None |
| Arkansas | Yes | Reciprocal | \$1 | Yes | Reciprocal |
| California | No | None | None | No 1 | None |
| Canada | Yes | None | None | Yes ¹ | 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 | No | None |
| Idaho | Yes | \$5 to \$15 | \$1 | No | \$1000 |
| 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 | None | 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 |
| | Yes | Reciprocal | None | No | None |
| New Jersey New Mexico | Yes | \$10 | \$25 | Yes | None |
| New York | Yes | None | None | No | None |
| North Carolina | Yes | Reciprocal | None | No | \$1000 ³ |
| | Yes | Reciprocal | None | No | None |
| North Dakota | Yes | Reciprocal | \$1 | No | None |
| Ohio | Yes | Reciprocal | \$1 | No | None |
| Oklahoma | No | None | \$1 | No | None |
| Oregon | Yes | None | None | No | None |
| Pennsylvania | Yes | None | None | No | None |
| Rhode Island South Carolina | Yes | None | None | No | None |
| South Dakota | Yes | Reciprocal | \$1 | No | None |
| | | Reciprocal | Reciprocal | | \$5000 ³ |
| Tennessee | Yes Yes | Reciprocal | None | No | None |
| Texas | Yes | \$10 ² | None | No | None |
| Utah | | None | None | No | None |
| Vermont | No | Reciprocal | Reciproca | | None |
| Virginia | No | | \$1 | No | None |
| Washington | No | Reciprocal None | \$1 | No | None |
| West Virginia | Yes | None | None | No | None |
| Wisconsin | Yes | | | No | None |
| Wyoming | Yes | Reciprocal | None | 140 | 110116 |

1 Secure special permit and instruction from officer in charge before making shipment.

²For nurserymen who operate through agents. ³For nurserymen who promise maintenance.

PLANT QUARANTINE OFFICIALS OF THE STATES, TERRITORIES, DISTRICT OF COLUMBIA, CANADA, AND MEXICO

| Alabama B. P. Livingston, Chief, Division of Plant Industry, State Department of Agriculture and Industries, |
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| |
| P. O. Box 220, Montgomery 1 |
| Alaska Hon. Clyde G. Sherman, Commissioner of Agri- |
| culture, Box 1101, Fairbanks |
| Arizona W. T. Mendenhall, State Entomologist, P. O. |
| Box 6246, Phoenix |
| Arkansas Paul H. Millar, Chief Inspector, State Plant Board, |
| Little Rock |
| California A. P. Messenger, Chief, Bureau of Plant Quaran- |
| tine, State Department of Agriculture, Sacramen- |
| to 14 |
| Canada W. N. Keenan, Chief, Division of Plant Protection |
| Department of Agriculture, Ottawa, Ontario |
| Department of Agriculture, State Entomologist, Bureau of |
| Colorado F. Herbert Gates, State Entomologist, Bureau of |
| Plant and Insect Control, 3130 State Museum, |
| Denver 11 |
| Connecticut Nealy Turner, State Entomologist, Agricultural |
| Experiment Station, Box 1106, New Haven 4 |
| Delaware W. R. Hickman, Nursery Inspector, State Board of |
| Agriculture, Dover |
| District of Columbia. W. B. Wood, Plant Quarantine Branch, U. S. De- |
| partment of Agriculture, Washington 25 |
| Florida Ed. L. Ayers, Plant Commissioner, State Plant |
| Board, Gainesville |
| Georgia W. E. Blasingame, Director of Entomology, State |
| Capitol, Atlanta 3 |
| Hawaii Wm. C. Look, Chief Plant Inspector, Board of |
| Commissioners of Agriculture and Forestry, Hono- |
| |
| lulu, Box 2520 |
| Idaho Robert Reichert, Director Bureau of Plant Industry, |
| State Department of Agriculture, Boise |
| Illinois H. F. Seifert, Horticultural Inspection Supervisor, |
| Room 300, Professional Arts Building, Glen Ellyn |
| |

| Indiana | John J. Favinger, State Entomologist, 311 West Washington St., Indianapolis 9 |
|---------------|--|
| Iowa | Dr. H. M. Harris, State Entomologist, 311 Science Building, Ames |
| Kansas, North | Dr. Herbert Knutson, State Entomologist, State College of Agriculture and Applied Science, Manhattan |
| South | Dr. Charles D. Michener, Entomologist, Entomological Commission of Kansas, Lawrence |
| Kentucky | Dr. Lee H. Townsend, State Entomologist, College of Agriculture and Home Economics, University of Kentucky, Lexington |
| Louisiana | E. A. Cancienne, State Entomologist, State Department of Agriculture and Immigration, Box 4153, Capitol Station, Baton Rouge |
| Maine | E. L. Newdick, Chief, Division of Plant Industry, State Department of Agriculture, Augusta |
| Maryland | Dr. George S. Langford, Chief Inspector, University of Maryland, College Park |
| Massachusetts | Quincy S. Lowry, Assistant Director, Division of Plant Pest Control and Fairs, 41 Tremont Street, Boston 8 |
| Mexico | Ing. Esteban Uranga, Director General of Agriculture, Balderas, D. F. Mexico |
| Michigan | C. A. Boyer, Chief, Bureau of Plant Industry, State Department of Agriculture, Lansing 13 |
| •Minnesota | T. L. Aamodt, Director, Bureau of Plant Industry, State Department of Agriculture, Dairy and Food, University Farm, St. Paul 1 |
| Mississippi | Dr. R. E. Hutchins, Entomologist, State Plant Board, State College |
| Missouri | Julius R. Anderson, State Entomologist, State Department of Agriculture, Jefferson City |
| Montana | R. O. Young, Chief, Division of Horticulture, State Department of Agriculture, Labor, and In- dustry, Missoula |
| Nebraska | C. J. Walstrom, Entomologist, Bureau of Plant Industry, State Department of Agriculture and In- spection, Lincoln |
| Nevada | George G. Schweis, Director, Division of Plant Industry, State Department of Agriculture, P. O. Box 1027, Reno |

| Plar | J. G. Conklin, State Entomologist, Insect and at Disease Suppression and Control, State Dement of Agriculture, Durham |
|------------------------------|---|
| try | nk A. Soraci, Director, Division of Plant Indus- , State Department of Agriculture, Trenton 8 |
| New Mexico Dal Col Col | las Rierson, Director, Regulatory Activities, lege of Agriculture and Mechanic Arts, State lege |
| Sta Alt | vin W. Kirk, Director, Bureau of Plant Industry, te Department of Agriculture and Markets, pany 1 |
| par | C. H. Brannon, State Entomologist, State Detement of Agriculture, Raleigh |
| North Dakota J. of I | A. Callenbach, State Entomologist, Department Entomology, North Dakota Agricultural College, |
| Ohio Joh | n Baringer, Chief, Division of Plant Industry, te Department of Agriculture, Columbus 15 |
| and | rde A. Bower, Director, Division of Entomology I Plant Industry, Oklahoma State Board of Agri- ture, Oklahoma City 5 |
| Sta ing | the Department of Agriculture, Agricultural Build s, Salem |
| try | T. L. Guyton, Director, Bureau of Plant Indus- , State Department of Agriculture, Harrisburg |
| De Tu: | is A. Catoni, Director, Plant Quarantine Service partment of Agriculture and Commerce, San |
| me Aş | vin J. Lannon, Administrator, Division of Ento- ology and Plant Industry, State Department of griculture and Conservation, State House, ovidence 2 |
| South Carolina J. | A. Berly, Entomologist, State Crop Pest Com- ssion, Clemson |
| tr | arren Miller, Director, Division of Plant Indus- y, Department of Agriculture, Pierre |
| Tennessee He | oward L. Bruer, State Entomologist and Plant athologist, Department of Agriculture, 410 State ffice Building, Nashville |

| Texas Charles Chapman, Chief, Division of Plant Quar- |
|---|
| antine, State Department of Agriculture, Austin |
| Utah Earl Hutchings, State Supervising Inspector, State |
| Department of Agriculture, Salt Lake City |
| Vermont John W. Scott, Director, Division Plant Pest Con- |
| trol, State Department of Agriculture, Montpelier |
| Virginia C. R. Willey, State Entomologist and Director |
| Division of Plant Industry, 1112 State Office Build- |
| ing, Richmond 19 |
| Washington William H. Shaw, Supervisor of Horticulture, State |
| Department of Agriculture, Olympia |
| West Virginia F. Waldo Craig, Entomologist, State Department of |
| Agriculture, Charleston 5 |
| Wisconsin E. L. Chambers, State Entomologist, State Depart- |
| ment of Agriculture, 448 W. Washington Ave., |
| Madison 3 |
| Wyoming Everett Spackman, State Entomologist, State De- |
| partment of Agriculture, Cheyenne |

INTERSTATE SHIPMENT OF BARBERRY AND MAHONIA RESTRICTED

Federal Quarantine Number 38, because of Black Stem Rust, was amended by the Secretary of Agriculture to become effective February 11, 1950. Among the important changes in regulations are: (1) the elimination of the requirement to place a special permit tag on each package of barberry, mahonia, or mahoberberis shipped interstate; (2) shipments of seeds and fruits of approved species and varieties when produced within the eradication states, can be moved under certificate only if going to another eradication state. Seed or fruit produced outside the eradication states cannot be shipped into any of the eradication states.

The requirements of Federal Quarantine Number 38 are summarized as follows: (1) The eradication states are: Colorado, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Montana, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota, Virginia, Washington, West Virginia, Wisconsin, and Wyoming; (2) Barberry, mahonia, and mahoberberris, in any variety, can be shipped interstate (to any state) only under certificate issued by the Plant Pest Control Branch; (3) Application for Federal certificate must be filed in duplicate, not later than May 15 each year, with the Quarantine Division of Plant Disease Control, Washington 25, D.C.; (4) Only species and varieties

known to be rust resistant and approved by the Branch will be acceptable for certification. The list of approved species and varieties is revised from time to time as new varieties prove to be resistant to stem rust. Species and varieties not known to be resistant to rust cannot be shipped interstate and growers who have such rust susceptible species will be required to destroy them before permits to ship approved varieties are granted; (5) The following species and varieties of barberry, mahonia, and mahoberberis are designated as rust resistant:

SCIENTIFIC NAME

stenophylla:

COMMON NAME

| Berb | eris arido-calida |
|------|--|
| В. | beaniana Bean's Barberry |
| В. | buxifolia Magellan Barberry |
| В. | buxifolia nana Dwarf Magellan Barberry |
| В. | calliantha |
| В. | candidula Paleleaf Barberry |
| В. | chenaulti Chenault Barberry |
| В. | circumserrata Cutleaf Barberry |
| В. | concinna Dainty Barberry |
| В. | darwini Darwin Barberry |
| В. | formosana |
| В. | franchetiana |
| В. | gagnepaini Black Barberry |
| В. | gilgiana Wildfire Barberry |
| В. | horvathi |
| В. | hybrido-gagnepaini False Black Barberry |
| В. | insignis |
| В. | julianae Wintergreen Barberry |
| В. | koreana Korean Barberry |
| В. | lempergiana |
| В. | lepidifolia |
| В. | linearifolia |
| В. | linearifolia var. Orange King Jasperbells Barberry |
| В. | lologensis |
| В. | manipurana · · · · · · · · · · · · · · · · · · |
| В. | pallens Pallid Barberry |
| B. | potanini Longspine Barberry |
| В. | renton |
| В. | replicata Curlleaf Barberry |
| В. | sanguinea Red-pedicel Barberry |
| В. | sargentiana Sargent Barberry |
| R | stanonhylla Rosemary Barberry |

SCIENTIFIC NAME

COMMON NAME

| Bert | rberis arido-calida | |
|------|--|-------------------|
| В. | stenophylla diversifolia | |
| В. | stenophylla gracilis | |
| B. | stenophylla irwini Irwin Barberi | У |
| B. | stenophylla nana compacta Coralina Bar | be rry |
| B. | telomaica artisepala | |
| B. | thunbergi D. C Japanese Bar | berry |
| B. | thunbergi atropurpurea Redleaf Japa | nese Barberry |
| B. | thunbergi atropurpurea erecta | |
| B. | thunbergi atropurpurea nana | |
| B. | thunbergi erecta Truehedge C | columnberry |
| B. | thunbergi "globe" | |
| B. | thunbergi "golden" | |
| B. | thunbergi maximowiczi Coral Japane | se Barberry |
| В. | thunbergi minor Box Barberry | |
| B. | thunbergi pluriflora Flame Barbe | rry |
| B. | thunbergi "thornless" | |
| В. | thunbergi "variegata" | |
| B. | thunbergi xanthocarpa | |
| B. | triacanthorphora Threespine H | arberry |
| B. | verruculosa Warty Barber | ту |
| B. | virgatorum | |
| B. | workingensis | |
| В. | xanthoxylon hort | |
| Mal | ahoberberis aqui-candidula | |
| M. | | |
| M. | | |
| Mal | ahonia aquifolium Oregongrape | Mahonia |
| M. | | |
| M. | compacta | |
| M. | dictyota Netvein Mal | onia |
| M. | fortunei Chinese Mal | onia |
| M. | | |
| M. | | honia |
| M. | | |
| M. | | |
| | | |

PLANT IMPORTATION

Under provisions of Federal Quarantine Number 37 certain limitations are placed under the importation of plants and seeds from foreign countries. Anyone wishing to import nursery stock, plants or seeds must first obtain a permit from the Plant Quarantine Branch, U. S. D. A., 209 River Street, Hoboken, New Jersey. In applying for a permit to import plant material the following information is required: (a) The

name and location of the producer from whom the plants or seeds are to be secured; (b) the name and address of the person or firm to which the seeds or plants are to be shipped; (c) the number and genus of the plants or seeds for which the permit is desired.

All restricted plants imported under the conditions listed above are limited in size and age to the youngest and smallest which can be successfully freed from soil about their roots, transported to the United States, and established in this country with a reasonable degree of success. Certain classes of plants permitted entry under quarantine 37 are required to be grown by the importer under post entry inspection regulations. Such plants are not released to the trade until such time as their freedom from plant diseases and insect pests has been established. The plants are therefore grown for one or more years in a place where the state inspector may have access to them for inspection purposes, for such time as appears necessary. When their freedom from pests and diseases has been established, the plants under quarantine are released.

OAK WILT

Oak wilt disease (Endoconidiophora faqacearum) is now well established in the woodlands of eastern Kentucky. The disease is caused by a fungus organism that can be identified by plant pathologists in one-to-two year old vascular tissue from infected trees.

Varieties of the red and black groups seem to become infected with oak wilt more readily than white and burr oaks, although all species and varieties of oaks are susceptible to the disease.

The first symptoms in the red and black oaks are shown by the appearance of leaves on the upper branches. They show dull light green color and curl upward. Later the leaves may turn yellow or reddish brown before falling. All leaves may fall within a month after first symptoms occur. In white and burr oaks the disease develops more slowly, with one or more branches near the top showing disease symptoms first.

Spread of the disease from diseased to healthy trees within native stands of oaks can occur through natural root grafts or unions. During recent years it has been proven that certain insects are capable of carrying the disease from tree to tree and that even squirrels might possibly spread the disease.

As the oak wilt fungus develops under the bark of infected trees, fungus cushions or mats are formed. These mats enlarge and thicken, thereby creating sufficient pressure to crack the bark and separate it from the wood. As soon as the cracks are formed they are invaded by several species of sap beetles known as Nitidulids. These beetles, as well as the common fruit flies, are attracted by the characteristic odor of the fungus. After crawling over the fungus mats and becoming contaminated with spores of the fungus, the insects move on to other trees and wherever there is a wound in the tree the contaminated insect is capable of bringing the spores of oak wilt into contact with the sap wood of uninfected oaks, thereby starting new infections.

There seems to be some association between the long distance spread of oak wilt and the activities and travel of man since so many of the new disease finds have been along highways and other heavily traveled lanes.

Oak wilt is known to occur in Arkansas, Illinois, Indiana, Iowa, Kansas, Kentucky, Minnesota, Maryland, Michigan, Missouri, Nebraska, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, West Virginia and Wisconsin. Nurserymen, foresters, and all others interested in preventing the loss of oaks should be on the alert for this trouble. Samples of twigs from oaks showing symptoms of the disease should be sent to the Southeastern Forest Experiment Station, Federal Building, Ashville, North Carolina.

Six twigs or branches about 6 to 8 inches long and 1/2 to 1 inch in diameter are best for laboratory examination. The twigs should be alive or just recently dead but not completely dry. Do not send leaves, dead branches or decayed wood. The twigs should be tied in a bundle, wrapped in paper so as to prevent excessive drying but should not be wrapped in wet moss or cotton. Labels should be attached in such a manner as to couple the laboratory report with the tree from which the twigs were taken.

Kentucky is fortunate in having a well organized Department of Forestry under the capable supervision of experienced men. Mr. Gene L. Butcher, State Forester, and Mr. Harry Nadler, in charge of Forestry Management, are well aware of the potential dangers of oak wilt disease and have set up a well coordinated program of survey and control. They do not consider oak wilt a disaster problem but one which is potentially serious and will require long range planning.

The area of heaviest oak wilt disease infection in Kentucky is located in Breathitt and Perry Counties. Since the first oak wilt diseased tree was found in Greenup County in 1950, the entire state has been surveyed. The disease seems to be fairly widespread in the eastern parts of the state but comparatively rare in Western Kentucky. Much work is yet to be done before officials can predict the future of oak wilt disease.

ELM PHLOEM NECROSIS AND DUTCH ELM DISEASE

Elm phloem necrosis has occurred in several localities in Kentucky over a period of ten years or more. Dutch elm disease is of much more recent occurrence having been found in only a few localities within the Commonwealth within the past five or six years. Although no cure is known for these maladies, measures can be taken to protect healthy trees from infection.

Dutch elm disease or phloem necrosis should be suspected whenever elm foliage suddenly wilts and the dry, dead leaves adhere to the branches; or when the leaves of an entire branch, or the top, turn yellow and fall prematurely. To further identify the diseases, cut through the bark at ground level, or below, and pry the bark from the wood so the inner bark will show. If the inner bark surface is yellow or like butterscotch in color, phloem necrosis is indicated. If a portion of the inner bark is confined in a bottle or the closed hands for a few minutes a faint odor of wintergreen can be detected from phloem-necrosis-diseased bark.

To test for Dutch elm disease remove several small branches having wilted, yellow, or dying leaves. If the cross sections where cuts are made show several brown spots or discolorations in one or more annual rings of wood, the trouble is probably Dutch elm disease.

Both diseases are spread by insects. Elm phloem necrosis is spread by a leafhopper (Scaphoidens luteolus). Dutch elm disease is spread by elm bark bettle, principally the smaller European elm bark bettle (Scolytus multistriatus).

Prevention of spread of these diseases to healthy trees is based upon the control of insect carriers. This can be accomplished by sprays containing DDT, provided they are correctly formulated, properly applied, and used at the right time. To control the carrier of elm phloem necrosis it is necessary to spray, thoroughly, all leaf surfaces. The first spray should be applied when elm leaves are full grown, usually May 15 to June 1 in Kentucky. The second sprays should be applied when the second new growth appears, usually one to two months later. Use formula A or B as given below, for both sprays, and dilute to make 200 gallons.

To control the insect which carries Dutch elm disease it is necessary to spray thoroughly all bark surfaces of the trees to be protected. Apply the first spray before the appearance of elm flowers or leaves. This period is usually the latter part of March for Kentucky. A second spray should be applied from 2 1/2 to 3 months after the first treatment. For first treatment use formula A or B diluted to make 100 gallons. If a mist blower is employed use formula C diluted to make 20 gallons. For second treatment use either formula at one-half strength recommended for first treatment.

Formula A - Dissolve 16 pounds of technical DDT in a mixture of $2 \frac{1}{2}$ gallons of Benzene and one gallon of Velsicol AR - 50. To this solution add 1 pint of Triton X - 100.

Formula B - Dissolve 16 pounds of technical DDT in 4 gallons of Xylene. To this add 1 pint of Triton X - 100.

Formula C - Dissolve 20 pounds of the technical DDT in a mixture of 5 gallons of Xylene and 2 1/2 gallons of Acme white oil. To this solution add 1 1/2 pints of Triton X - 100.

If red spiders or spider mites build up to damaging populations, which will sometimes be the case after repeated treatments with DDT, add 1/2 gallon of Acme white oil to each 100 gallons of formula A or B for foliage treatment.

EUROPEAN CHAFER (Amphimallon majalis Razoum)

The European chafer situation has changed very little within the past year. This is another of the recently introduced plant pests of special concern to nurserymen because of its development within the soil. The grubs, while feeding on the roots of plants, could be so easily transported in B&B nursery stock.

Attention was called to some rather severe turf injury in sections of Newark, New York in the spring of 1940. It was not until the spring of 1942 that positive identification was made of the species and this constitutes the first authentic record of the occurrence of the species in North America. The European Chafer, is known to occur in several countries on the continent of Europe, and is reported to be especially destructive in some areas.

Since 1942 scouting and survey work has been carried on by New York and surrounding state agencies and by the Pest Control Branch, Agricultural Research Service, to determine the extent of the infested area. To date one infestation has been found in New Haven County, Connecticut at the town of Meriden. A small infested area was recently discovered in the town of Capon Bridge, Hampshire County, West Virginia. Infestations are known to exist in the counties of Chemung, Erie, Monroe, Niagara, Onondaga, Ontario, Seneca, and Wayne, New York.

Soil treatments using 3 to 5 pounds of dieldrin per acre have been applied to most chafer infested areas in New York state as well as those infested spots in Connecticut and West Virginia.

The major difficulty in attempts to eradicate European chafer infestations is an adequate method of discovering newly infested spots before heavy populations are built up by the insect.

WHITE-FRINGED BEETLE (Graphognathus spp.)

Little change has been reported in the overall infested area within the U.S. within the past year. Some minor extensions of infested areas have been reported in some states and some extensions of quarantine regulated areas have been added. The job settles down now to a matter of money and work and the question as to whether it is practical to attempt an all out eradication program.

Survey type inspections were continued in Kentucky during 1957 with negative results. The white-fringed beetle infested spot discovered near Paris, Tenn. has apparently been successfully eradicated and we feel much relieved.

The practice of using fertilizer-insecticide mixtures drilled under row crops in infested areas is increasing in general use. This practice is helping to reduce insect populations and thereby lessen the danger of artificial spread.

White-fringed beetle is another of soil-infesting plant pests of special concern to nurserymen because of the ease of transporting the insects within the balls of B&B stock. Although the insect is not especially destructive to most nursery crops the restrictions which would be emposed on nursery properties in infested areas would cause white-fringed beetle to become an expensive pest to any nurserymen in Kentucky.

JAPANESE BEETLE (Popillia japonica Newman)

The Japanese beetle situation in known infested spots within Kentucky changed very little from 1956 to 1957. Small acreages were treated with granular dieldrin in Jefferson and Campbell Counties as the results of 1957 trap catches. An additional area of approximately 750 acres was treated by plane in Greenup County during the late summer of 1957.

The discovery of a Japanese beetle infested area of unknown size in Pike County during the 1957 summer season came as quite a surprise. This infested area is only a few miles from a known infested area near Williamson, W. Va. The proximity of the W. Va. infested area as well as the size of the Pike County infested area and the rugged nature of the infested land raises the question of the practicability of attempting an all out eradication program. No decision has yet been reached on this question.

The 1958 trapping and inspection program is planned along the same lines as in 1957 with emphasis on trying to protect the major farming areas from Japanese beetle infestation as long as possible and practical.

· THE VEGETABLE WEEVIL (Listroderes costirostris obliquus Klug)

Specimens of vegetable weevil were received from Simpson County June 2, 1958 where they were reported doing damage to newly transplanted tobacco. This was the second record of vegetable weevil in Kentucky. The first was from Cumberland County in April 1955, feeding on tobacco plants in the bed. The use of DDT was apparently successful in eliminating the Cumberland County infestations since none have been found in that area since the spring of 1955.

The adult female weevil is a typical curculio or snout beetle of medium size. It is short, 9mm. long and 4mm. wide. The color is dull grayish brown and each wing cover has a pale gray mark. No males of the vegetable weevil are known to occur in the country.

The eggs of the vegetable weevil are usually deposited singly on the base of plants or in the soil about the plants. The eggs are deposited during late summer and fall after high summer temperatures begin to drop. The eggs hatch in 13 to 18 days into creamy white larvae, which when full grown move down into the soil where pupation takes place. The life cycle normally takes slightly over one full year; while some adult beetles have been observed to live as long as 23 months.

The vegetable weevil is most active during cool weather and during the hot weather of July and August the adults seek shelter from the heat and remain inactive for several weeks. During cool days of spring and fall the beetles do their most damage.

DDT, used at the rate of 4 pounds of 50% wettable powder per 100 gallons of water, has given excellent kill of both larvae and adults.

SOYBEAN CYST NEMATODE (Heterodera glycines Ichinohe)

Of especial concern to nurserymen, as well as farmers generally, is the finding of the soybean cyst nematode in Fulton County, Kentucky, during May 1957. The plant pest was found in North Carolina during the fall of 1954 and this constituted the first record of the nematode in the United States. Since 1954 it has been found in four counties in north-western Tennessee; two (river) counties in Missouri, one county in Arkansas, one county in Mississippi, and one county in Kentucky.

Intrastate and Interstate quarantines have been established and are now in force in all states where soybean cyst nematodes have been found to occur. Farm products, such as grain, cotton, tobacco, hay, fruits, and vegetables can be moved from regulated areas only under permits. Soil and plant material from which all soil cannot be removed are not permitted movement outside the regulated area.

Survey crews of both state and U.S.D.A. men are checking a wide area of the soybean producing midwestern and southern states in an effort to determine the extent and location of every soybean cyst nematode-infested farm.

Nurserymen will be concerned with soybean cyst nematode because of the quarantine restrictions which are proposed to help prevent the spread of the pest. The use of soybeans as a soil-building crop in nursery management will open nursery grounds to the danger of infestation. Although the soybean cyst nematode is known to damage only soybeans, a few varieties of garden beans, and the annual lespedezas, it can live for several years in soil where none of these crops are grown. Once the nematode gets into nursery soils it could cause nurserymen considerable losses because they would be unable to dig and sell balled nursery stock from infected blocks for several years.

At this time there is no chemical treatment practical for ridding soils of the soybean cyst nematode.

WITCHWEED (Striga asiatica)

The parasitic plant known as witchweed was first identified as occurring in the Western World when it was found to be doing damage to corn in North and South Carolina. The genus <u>Striga</u> has been known and written about in Africa, Asia and Australia since 1790. The presently known areas in the United States infested with witchweed include portions of eight counties in North Carolina and five counties in South Carolina at or near the eastern coast where the two states join.

The Agricultural Research Service was notified of the identity of the plant as witchweed on September 21, 1956. Since that date survey work has been conducted in several states and much interest has been shown concerning the problem.

The witchweed plant is inconspicuous and would likely attract little attention, however, some women in the Carolinas were attempting to grow the plant in their flower gardens. The plant normally grows 8 to 10 inches high, has narrow bright green leaves which are quite hairy and appear the same on upper and lower surfaces. The flowers are small and usually brick red or sometimes yellowish-red and appear successively up the stem at the axil of the leaf. The seeds are microscopic in size, dark and are produced in pods from mid summer until frost. The seeds may be dormant 15 to 20 years and seem to germinate only when stimulated by the secretions from the roots of the host plant. When the witchweed seedlings start to grow, its roots must contact, attach to, and penetrate the roots of the host plant. Otherwise it dies.

The witchweed attacks corn, sugarcane, sorghum, small grains and many grasses, including crabgrass. Nurserymen should become concerned with the witchweed parasite because of the possibility of importing the seeds of the plant in soil about the roots of BGB nursery stock grown in nurseries where crabgrass has grown.

Quarantine restrictions have been placed on all properties where witchweed has been found. Both state and Federal quarantines are now in force in North and South Carolina. Among the more stringently regulated articles are all those which might carry soil in any form.

THE IMPORTED FIRE ANT (Solenopsis saevissima richteri Forel)

The imported fire ant is believed to have reached this country as a stowaway on a boat from South America about 1918. Because of its close resemblance to some of our native ant species it was not identified as a separate species until 1930. It was first found around the bay front of Mobile, Alabama.

The imported fire ant closely resembles the darker forms of our native fire ants. The adult workers vary in color from dark brown to reddish-brown or black, with an orange-colored band at the base of the abdomen. The size varies from one-eighth to one-fourth inch long. Only the queens and males have wings.

The natural spread is by newly fertilized queens each of which finds a nesting place, sheds her wings and starts digging a brood chamber and building a new mound. She continues laying eggs - 10 to 15 the first days - and more later, until the colony is well established. The eggs hatch in 8 to 12 days into dirty-white grubs which change to pupae in 6 to 12 days. The pupae are pale, shiny white and about the shape and size of adult workers. In another 9 to 12 days the adult workers emerge from the pupae cases. The workers care for the young brood, forage for food, maintain and enlarge the mound and protect the nest from enemies.

The fully developed mound averages about one foot high and two feet across. The honeycombed galleries are built within the cone and reach a depth of about three feet. There are an average of 25,000 ants in a well developed mound. More than 100 mounds per acre of land are not uncommon in heavily infested areas.

Imported fire ants damage many crops by sucking the juices from their roots, stems, seeds and tuber shoots. Some of our most important farm crops and nursery crops are among those damaged by fire ants. The ants also attack the young of animals and birds, both wild and domestic. Ground nesting and low nesting birds, rabbits and the young of other small wild animals fall victim to the foraging fire ant workers. Newly born pigs, lambs and calves have been reported as killed by fire ants on many farms in heavily infested areas. The fire ants will also invade houses in search

of food. Their favorite foods from the pantry include meats, butter, cheese, nuts and bread. They show little interest in household sweets.

The painfulness of the fire ant sting is out of all proportion to the ant's size. The sting of a single ant is usually not serious although it may cause an open sore followed by a scar. Persons who are sensitive to the venom of bees, ants, wasps, etc., if stung by several fire ants may suffer chest pains, nausea and even lapse into a coma. Imported fire ants are vicious when disturbed. They have been known to rout field workers in heavily infested areas. Children who disturb the mounds of fire ants may be severely stung, since the fighting instinct of the ants make them a serious enemy to man and animals.

The imported fire ant now infests the states of Alabama, Mississippi, Georgia and Louisiana rather generally. The states of Texas, Arkansas, Florida, North Carolina and South Carolina are infested to a lesser extent. Shelby County, Tennessee had an imported fire ant infestation discovered in 1950. The state of Tennessee applied insecticide to the infested area forthwith and the infestation was apparently eradicated. A recent report has been received by the State Entomologist that an imported fire ant infestation has been recently identified in Missouri, that portion of the state adjoining both Arkansas and Tennessee. More than 20 million acres are not infested in the United States.

The most effective control measures for eliminating imported fire ant mounds seems to be dieldrin, heptachlor, chlordane and aldrin. Two teacups full of 5% dieldrin granular, spread uniformly over the mound and a 20 foot area around the mound will successfully eliminate the ants. Large-scale treatments by use of airplanes and other power driven equipment have proven successful in heavily infested areas. The job of eradicating fire ants from an area is quite similar to our work of treating an area for the eradication of Japanese beetle.

Nurserymen and others should be on the alert for imported fire ant in Kentucky. The importation of plants with soil about the roots is one of the easiest ways of importing the fire ant.

INSPECTION REQUIREMENTS FOR CERTAIN CLASSES OF PLANT MATERIAL

Gladiolus Corms

Two inspections are required for certification of gladiolus corms.

The first inspection is made during the blooming and the second inspection during storage after the corms have been cleaned.

Sweetpotato Plants

Some state laws establish the requirements that sweetpotato plants should be free from black rot, stem rot, and sweetpotato weevil before they are shipped into the respective states. Only sweet potatoes which are certified as free from sweetpotato weevil should be bedded. A request for inspection service should be sent to the State Entomologist in advance of bedding time, giving approximate date of bedding and drawing of first plants.

Native or Collected Plants

There seems to be a growing demand for certain native or collected plants. Where it is desired to offer for sale this type of plant material the plants should be collected and "lined out" or "heeled in" and held for inspection. Notice should be forwarded to the State Entomologist giving the date when the plants will be ready for inspection and the location of the plant yard.

For general inspection requirements see "Summary of Requirements of Kentucky Nursery Inspection Law" and "Nursery Stock" defined on previous pages.

Voluntary Certification

Plant certification requirements are not uniform throughout the forty-eight states. Some states require the inspection of greenhouse plants, bulbs, corms, rhizomes, and tubers, annual flowering plants, and garden vegetable plants. Kentucky does not require inspection on any of these plants or materials. Dealers can merchandise this material, under the provisions of the Kentucky law, without applying or obtaining a state permit. A grower, of any of the above mentioned plants, who wishes to ship to other states or

who wishes to have inspection and certification for any other reason, can have inspection in the usual manner, by applying to the State Entomologist. As in the case of required inspection, a fee of \$5.00 is charged for voluntary inspection.

Raspberry Plants

Two inspections are required for certification of raspberry plants. These inspections are made during summer months and must be at least thirty days apart. Raspberry plant growers wishing inspection services should notify the State Entomologist by June 1.

Strawberry Plants

Growers wishing to offer strawberry plants for sale should take into account the dual inspection requirements. Notice should be given to the State Entomologist by the middle of April if inspection services are desired. Also those growers who wish to grow plants under the strawberry virus disease control program should consult the Kentucky Seed Improvement Association and secure a copy of the requirements for growing plants under that program. Those growers who fulfill the requirements of the Kentucky Seed Improvement Association will obtain certification as to freedom from virus diseases and the strawberry root-knot nematode. In addition to the plant certification issued by the Kentucky Seed Improvement Association, it is necessary for strawberry plant growers to continue to secure a certificate of inspection from the State Entomologist, which certificate is based on the dual inspection looking toward freedom from the general insects and plant diseases to which strawberry plants are subject. These two inspection and certification programs are separate and independent of each other. The certificate of inspection issued by the State Entomologist is required under sections 249.070 and 249.080 KRS for any strawberry plant grower in Kentucky who offers plants for sale within the Commonwealth or who offers strawberry plants for shipment to another state by any common carrier.

The strawberry plant certification program under the supervision of the Kentucky Seed Improvement Association is a voluntary program designed to help control virus diseases and root-knot nematodes in strawberry plants. It is also designed to help keep varieties of strawberries true to name.

NURSERY DEALERS

| NAME | | ADDRESS |
|----------------------------------|---------------------|---------------------|
| Albers Super Market | | Covington |
| Albers Super Market | | Erlanger |
| Albers Super Market | | Ft. Thomas |
| Albers Super Market | | Latonia |
| Albers Super Market | | Lexington |
| Albers Super Market | | Louisville |
| Albers Super Market (2 permits) | | Newport |
| Albers Super Market | | Pleasure Ridge Park |
| Alexander Landscape Service | 209 Rose Street | Campbellsville |
| Allen Florist and Gift Shop | | Barlow |
| Allgeier, Edward L. & Robert D. | 4210 Jackson Avenue | Louisville |
| Ashburn, Leo | Route #3 | Smithville, Tenn. |
| Atlantic and Pacific Tea Company | | Ashland |
| Atlantic and Pacific Tea Company | | Barbourville |
| Atlantic and Pacific Tea Company | | Bardstown |
| Atlantic and Pacific Tea Company | | Bowling Green |
| Atlantic and Pacific Tea Company | | Campbellsville |
| Atlantic and Pacific Tea Company | | Central City |
| Atlantic and Pacific Tea Company | | Corbin |
| Atlantic and Pacific Tea Company | | Covington |
| Atlantic and Pacific Tea Company | | Cumberland |
| Atlantic and Pacific Tea Company | | Cynthiana |
| Atlantic and Pacific Tea Company | | Danville |
| Atlantic and Pacific Tea Company | | Elizabethtown |
| Atlantic and Pacific Tea Company | | Frankfort |
| Atlantic and Pacific Tea Company | , | Fulton |
| Atlantic and Pacific Tea Company | | Georgetown |
| Atlantic and Pacific Tea Company | | Glasgow |
| Atlantic and Pacific Tea Company | , | Harlan |
| Atlantic and Pacific Tea Company | | Harrodsburg |
| Atlantic and Pacific Tea Company | , | Hazard |
| Atlantic and Pacific Tea Company | , | Henderson |
| Atlantic and Pacific Tea Company | | Hopkinsville |
| Atlantic and Pacific Tea Company | | Irvine |
| Atlantic and Pacific Tea Company | | Jackson |
| | | |

Lancaster

Lawrenceburg

Atlantic and Pacific Tea Company

Atlantic and Pacific Tea Company

Route #1

Route 5

Route 2

Route 2

117 E. 8th Street

1540 Bishop Lane

315 Baxter Avenue

516 Leyton Avenue

512 North Main Street

NAME

Atlantic and Pacific Tea Company

Atlantic and Pacific Tea Company (2 permits)

Atlantic and Pacific Tea Company (17 permits)

Atlantic and Pacific Tea Company

Attailtie and Facilie Tea Company

Atlantic and Pacific Tea Company

Bailey, Robert

Ball, A. E.

Bezold, Joseph A.

Bluegrass Landscaping Company

Brake, R. L.

Branham, Millard

Brown's Supply Company

Bunton Seed Company

Byers Landscape Company

Caldwell, Jay R.

Campisano, Frank P.

Carpenter, James C.

Cayce-Yost Company

ADDRESS

Lebanon

Lexington

Louisville

Madisonville

Mayfield

Maysville

Middlesboro

Murray

Neon

ITCOIL

Newport

Owensboro

Paducah

Paris

Pikeville

Pineville

Princeton

Richmond

St. Matthews

Shelbyville

Shively

Somerset

Stanford

Valley Station

Versailles

Whitesburg

Winchester

Mt. Sterling

Rush

Newport

Louisville

Winchester

Louisa

Burkesville

300 E. Jefferson Street Louisville

Lexington

Lexington

Louisville

Lyndon

Hopkinsville

| NAME | | ADDRESS |
|---------------------------------|-----------------------|----------------|
| Chism Hardware, C. R. | 3814 Frankfort Avenue | Louisville |
| Cloverleaf Garden Center | 2205 Gardiner Lane | Louisville |
| Crawley, Calvin C. | 277 E. High Street | Lexington |
| Crestwood Super Market | | Crestwood |
| Davey, The, Tree Expert Company | y | Crestwood |
| Dennie, C. W., Nursery and | | |
| Landscaping Company | 827 East 7th Street | Lexington |
| Dixie Garden Nursery | Paris Road | Lexington |
| Dockray-Follis Variety Store | | Providence |
| Driskell, William E. | R. R. #1 | Lawrenceburg |
| Drive-In-Market | 5435 Ft. Thomas Ave. | Ft. Thomas |
| Eagle Produce Company | | Henderson |
| Early, Tom | 733 N. 31st Street | Louisville |
| Economy Store | 719 Columbia Road | Campbellsville |
| Edwards, L. C. | 1609 Bank Street | Louisville |
| England, A. G. | 4108 Preston Highway | Louisville |
| Erwin, W. G. | Route #2 | Greenup |
| Evans, Gene | R. R. #2 | London |
| Evans, Herndon J. | 220 Clinton Road | Lexington |
| Everett's 5 and 10¢ Store | 416 Main Street | Murray |
| Farm, Garden and Hardware Co. | Fort Campbell Blvd. | Hopkinsville |
| Ferguson, Lewis Ezra | Route 4 | Louisa |
| Frankfort Dine Store, Inc. | 101 Bridge Street | Frankfort |
| Gaddis, Herbert C. | | Utica |
| Gallaher, George L. | Haymarket Square | Louisville |
| Garden Shop, The | 3623 Lexington Road | Louisville |
| Gateway Super Market | Shelbyville Road | Louisville |
| Gault, Glenn | Paris Road | Lexington |
| Gene's Market | | Marion |
| Goodwin, Nelson | 3820 Newburg Road | Louisville |
| Gowin, Arthur | Route #1 Box 426 | Anchorage |
| Grant, W. T., Company | 5707 Preston Highway | Louisville |
| Grant, W. T., Company | 539 South Fourth St. | Louisville |
| Grant, W. T., Company | 23 Shelbyville Road | St. Matthews |
| Green, H. L., Company, Inc. | 544 S. 4th Street | Louisville |
| Green Thumb, Inc. | 14th & Mosely Street | Owensboro |
| Grimes, Joe S. | 309 Honeysuckle Hill | Stanford |
| Haupt, Fred, Florist | 221 W. Jefferson St. | Louisville |
| Hayhugh, Robert | 226 W. Dixie | Elizabethtown |
| | | |

| NAME | | ADDRESS |
|---------------------------------|------------------------|---------------------|
| Hill, Ezra & Ralph Tipton | Louisville Road | Frankfort |
| Hill, George W., & Company | 25 W. Pike Street | Covington |
| Houchin, George | 3333 Taylorsville Road | Louisville |
| Houchens Market | | Albany |
| Houchens Market | | Auburn |
| Houchens Market (2 permits) | | Bowling Green |
| Houchens Market | | Burkesville |
| Houchens Market | | Cave City |
| Houchens Market | | Elizabethtown |
| Houchens Market | | Franklin |
| Houchens Market (2 permits) | | Glasgow |
| Houchens Market | | Greensburg |
| Houchens Market | | Hodgenville |
| Houchens Market | | Horse Cave |
| Houchens Market | | Leitchfield |
| Houchens Market | | Munfordville |
| Houchens Market | | Russellville |
| Houchens Market | | Scottsville |
| Houchens Market | | Tompkinsville |
| Houchens Market | | Vine Grove |
| House, The, Plant & | | |
| Nursery Store | 4220 Shelbyville Road | Louisville |
| House, The, Plant & | |) |
| Nursery Store | 5120 Dixie Highway | Louisville |
| Humble, Ray and Lawrence Dick | Route 2 | Monticello |
| Humston, Charles O., Jr. | | Lawrenceburg |
| Jackson Florist | 3124 Madison Avenue | Covington |
| James, J. Edward | | Harrodsburg |
| Jerusan Nursery | | Monticello |
| Jetts Nursery | | Georgetown |
| Karcher, Theodore B. | 3125 Poplar Level Road | Louisville |
| Klein Nursery & Floral Company | | Crestwood |
| Kresge, S. S., Company | | Covington |
| Kresge, S. S., Company | | Lexington |
| Kresge, S. S., Company (4 permi | its) | Louisville |
| Kresge, S. S., Company | | Newport |
| Kresge, S. S., Company | | Owensboro |
| Kresge, S. S., Company | | Paducah |
| Kresge, S. S., Company | | Pleasure Ridge Park |
| | | |

NAME

Kress, S. H., & Company

Kroger Company

Kroger Company

Kroger Company

Kroger Company (2 permits)

Kroger Company

Kroger Company

Kroger Company

Kroger Company

Kroger Company

Kroger Company (2 permits)

Kroger Company

Kroger Company (5 permits)

Kroger Company

Kroger Company (21 permits)

Kroger Company

ADDRESS

Ashland

Ashland

Bardstown

Benton

Bowling Green

Campbellsville

Carlisle

Carrollton

Catlettsburg

Columbia

Covington

Cynthiana

Danville

Dayton

Elizabethtown

Elsmere

Ft. Thomas

Frankfort

Franklin

Georgetown

Harlan

Harrodsburg

Henderson

Hopkinsville

Irvine

LaGrange

Lebanon

Lexington

London

Louisville

Ludlow

Madisonville

Marion

Mayfield

Maysville

Middlesboro

Morganfield

Mt. Sterling

Murray

| NAME | | ADDRESS |
|----------------------------|-----------------------|------------------|
| Kroger Company (2 permits) | | Newport |
| Kroger Company | | Nicholasville |
| Kroger Company | | Owensboro |
| Kroger Company | | Owenton |
| Kroger Company (2 permits) | | Paducah |
| Kroger Company | | Paintsville |
| Kroger Company | | Paris |
| Kroger Company | | Pikeville |
| Kroger Company | | Pineville |
| Kroger Company | | Prestonsburg |
| Kroger Company | | Radcliffe |
| Kroger Company | | Richmond |
| Kroger Company | | Russellville |
| Kroger Company | | Shelbyville |
| Kroger Company | | Somerset |
| Kroger Company | | Stanford |
| Kroger Company | | Sturgis . |
| Kroger Company | | Valley Station |
| Kroger Company | | Versailles |
| Kroger Company | | Williamstown |
| Kroger Company | | Winchester |
| Krotzki Flower Center | 3300 Preston | Louisville |
| Kuhn's 5-10-25¢ Store | | Lawrenceburg |
| Lawson, Edwin G. | 229 N. 3rd Street | Bardstown |
| Lindle Brothers | | Sturgis |
| Loper, William E. | | Lebanon |
| Lose Brothers | 206 E. Jefferson St. | Louisville |
| Luking, Henry | 3000 Bardstown Road | Lyndon |
| Lycan, Zenas, Jr. | Route #1 | Fort Gay, W. Va. |
| Mc Crory Stores Corp. | 110 E. Main Street | Lexington |
| Mc Crory Stores Corp. | 428-30 S. 4-th St. | Louisville |
| Mack's Super Market | | Baxter |
| Marcum's 5¢ to \$1 Store | | Campbellsville |
| Martin, G. L. | 159 West Arch Street | Madisonville |
| Maupin, S. B. | 4813 Joy Lovene Drive | Louisville |
| Meisner, Allen L. | 3041 Wedgewood Way | |
| Midyette Food Store | 217 E. Broadway | Mayfield |
| Miles, H. C. | Box 28 | Peewee Valley |
| 1/1100, 11. 0. | 1527 Wingharter Ave | Achland |

Murphy, G. C., Company

1537 Winchester Ave. Ashland

NAME

Murphy, G. C., Company 29 W. Second Street Murphy, G. C., Company 507 Court Street 23 1/2-25 1/2 Main St. Murphy, G. C., Company Murphy, G. C., Company Newberry, J. J., Company Nunn, James L. Ostendorf, Edward J. 35 Outer Belt Nurseries 79 Paintsville Nursery Perpetual Lawn Care Company Ro Peterson Hardware Store Pine Hill Garden Center Ro Pugh, Clarence D. Ro Purcells 32 Rankin, James R. Rapson's Tree Service 920 Reeves Food Center 58 Highland Drive

ADDRESS

| Maysville |
|---------------------|
| Paintsville |
| Pikeville |
| Pleasure Ridge Park |
| Bardstown |

| Central City |
|---------------|
| Corbin |
| Cynthiana |
| Danville |
| Elizabethtown |
| Frankfort |
| Glasgow |
| Harlan |
| Harrodsburg |
| |

| Ham | rodsburg |
|------|-----------|
| Haza | ard |
| Hen | derson |
| Law | renceburg |
| Leba | anon |
| May | field |
| Mt. | Sterling |
| Owe | nsboro |
| Pari | S |

Pineville

Richmond

Somerset

Shelbyville

Winchester

Bowling Green

| | Sullivan |
|-----------------------|-----------------|
| 08 Michigan Drive | Louisville |
| 02 Old Shepherdsville | Rd., Louisville |
| | Paintsville |
| oute 1 | Louisville |
| | Middletown |
| oute 3 | Frankfort |
| oute 1 | Harrodsburg |
| 2 W. Main Street | Lexington |
| | Lyndon |
| 6 Vine Street | Louisville |

| NAME | | ADDRESS |
|--------------------------------|------------------------|---------------------|
| | | |
| Renfrow, Sallie A. | Star Route | Beaver Dam |
| Reynolds, Harold Lee | | Bondville |
| Riesenberg, Stephen | 3508 Decoursey | Covington |
| Roses 5-10¢ Store | | Somerset |
| Salyers, Buford | P. O. Box 312 | Frankfort |
| Schultz, Wallace T. | 3809 Ethel Avenue | Louisville |
| Scott Store | 919 College Street | Bowling Green |
| Scott Store | Main & Eversole | Harlan |
| Scott Store | 138 Main Street | Hazard |
| Scott Store | 2010-12 Cumberland Av | re., Middlesboro |
| Sears, Roebuck & Company | | Ashland |
| Sears, Roebuck & Company | | Bowling Green |
| Sears, Roebuck & Company | | Covington |
| Sears, Roebuck & Company | | Lexington |
| Sears, Roebuck & Company | | Louisville |
| Sears, Roebuck & Company | | Owensboro |
| Sears, Roebuck & Company | | Shively |
| Shady Lane Gardens | Route #1 | Midway |
| Shope, Lee N. | 3739 Parthinia Avenue | Louisville |
| Snyder, Ben, Inc. | 522 W. Market Street | Louisville |
| Snyder, Ben, Inc. | | Pleasure Ridge Park |
| Somerset Tree Service | Box 296 | Somerset |
| Springdale Nursery | Route 1, Box 129 | Prospect |
| Stanford Hardware Company | | Stanford |
| Stanley, S. S. | Route 1 | Greenville |
| Stauss, Matthew | 4301 Westport Road | Louisville |
| Stephens, C. H., Company, Inc. | | Russell |
| Stoke, Louis, Jr. | 2340 Payne Street | Louisville |
| Sullivan, Francis W. | 414 S. 34th Street | Louisville |
| Sullivan, Wayne | 3233 Clark's River Rd. | Paducah |
| Teague, Roscoe H. | Route 1, Box 72A | Corbin |
| Tresslar's 5-10¢ Stores | 1016 E. Fourth Street | Owensboro |
| Tresslar's 5-10¢ Stores | 920 Frederica Street | Owensboro |
| Thriftee Food Liner, The | | Beaver Dam |
| Vance, Kenneth G. | 505 Lansdale Avenue | Bowling Green |
| Vandergrift, John | 914 - 8th Street | Carrollton |
| Van's Five 7 Ten Store | | Shelbyville |
| Walgreen Company (7 permits) | | Louisville |
| Walgreen Company | | Lexington |
| | | |

Route 6

Route 3

1214 Liggett Street

Kentucky Avenue

594 E. Main Street

NAME

Walgreen Company Walgreen Company

Walgreen Company

Well, Martin

Wells, Russell T. Wilder's Store

Wilhoite Mrs I

Wilhoite, Mrs. J. W.

Winn-Dixie Stores, Inc.

Winn-Dixie Stores, Inc.

Winn-Dixie Stores, Inc. (2 permits)
Winn-Dixie Stores, Inc. (17 permits)

Winn-Dixie Stores, Inc. Winn-Dixie Stores, Inc.

Winn-Dixie Stores, Inc.

Winn-Dixie Stores, Inc.

Woodrum Lumber Company

Woolworth, F. W., Company

Woolworth, F. W., Company

Woolworth, F. W., Company Woolworth, F. W., Company

Woolworth, F. W., Company

Woolworth, F. W., Company

Woolworth, F. W., Company

Woolworth, F. W., Company (2 permits)

Woolworth, F. W., Company (7 permits) Woolworth, F. W., Company

Yarbrough, Arthur M.

228 Jagoe

ADDRESS

Owenton

Paducah

Pleasure Ridge Park

Lexington

Lexington

Pineville

Fineville

Frankfort

Fort Knox

Frankfort

Lexington

Louisville

Owensboro

St. Matthews

Shelbyville

Shively

Frankfort

Ashland

Bowling Green

Covington

Danville

Frankfort

Henderson

Hopkinsville

Lexington

Louisville

Madisonville

Mayfield

Middlesboro

Newport

Paducah

Richmond

St. Matthews

ot. Maturews

Madisonville

KENTUCKY NURSERYMEN WHO RECEIVED CERTIFICATES OF INSPECTION, 1957-58

| NAME | ADDRESS | ACREAGE | KIND OF STOCK |
|-----------------------------------|------------------|------------|---------------|
| Alberts Orchid Co. | 4318 Westport R | d . | Orchids |
| Allen, Kelley | R. 6, Benton | 1 | Strawberry |
| Ammon. Nursery | Florence | 6 | Ornamental |
| R. L. Ammon | | | |
| Arrow Wood Nursery C. E. O'Connor | Warsaw | 40 | Ornamental |
| Arterburn, Paul, Nurseries | Box 72, Louisvil | le 5 | Ornamental |
| Baxter, L. M. | Keavy | 1 | Ornamental |
| Baxter Nursery | Keavy | 5 | Ornamental |
| O. W. Baxter | | | |
| Bayne Iris Gardens | Mt. Olivet | 1/2 | Iris |
| Becnel, Leo | R. 2, Shepherds | ville 1 | Strawberry |
| Bel-Bar Acres | R. 1, Anchorage | e 1 | Iris |
| M. K. Barry | | | |
| Bellefonte Nursery | Ashland | 10 | General |
| Orval Lycan | | | |
| Berea College | Berea | 1/2 | Strawberry |
| R. L. Shepherd | | | |
| Blue Gables Nursery | Carrollton | 1 | Ornamental |
| Blue Star Nursery | Millersburg | 25 | General |
| Boggs, William E. | Whitley City | 1/2 | Raspberry |
| Brashear Flower Shop | | | |
| & Greenhouse | Hazard | 1 | Ornamental |
| Brinker, Mrs. Alice | 15 Grand Ave., | 1/4 | Iris |
| | Latonia | | |
| Cardinal Hill Nursery | Frankfort | 5 | General |
| H. K. Gayle | | | |
| Carter Nursery | Carter | 1/5 | Ornamental |
| Catalpa Gardens | Shelbyville | 1 | Perennials |
| Rodman Hansbrough | | | |
| Cheatham, Mrs. Tracie H. | | 1/2 | Perennials |
| | Danville | | |
| Cherokee Tree Expert Co. | | 5 | General |
| | Louisville | | |
| Cherry, The Florist | Paducah | | |

| NAME | ADDRESS | ACREAGE | KIND OF STOCK |
|-------------------------------|------------------|-----------|----------------|
| Chick's Nursery | Marion | 2 | Ornamental |
| Chowning, Kelly T. | 716 Aurora, | 5 | General |
| | Lexington | | |
| Clay Nurseries & | | | |
| Greenhouses | Clay | 35 | General |
| Clifty Evergreen Gardens | Catlettsburg | 2 | Ornamental |
| Coffey, Wallace | Frenchburg | 1 3/4 | Strawberry |
| Cole's Nursery | Henderson | 6 | General |
| Columbia Nursery J. R. Kerbow | Columbia | 3 | Ornamental |
| Crume, T. C., Nursery | | | |
| & Landscaping | Florence | 45 | General |
| Curry, J. G. | Hawesville | | Sweet Potatoes |
| Dieterich, C. P., & Bros. | Maysville | 2 | Ornamental |
| Dixie View Nursery | Box 500, Lakesi | | |
| | Covington | 25 | General |
| Division of Forestry | Frankfort | 3 | Tree Seedlings |
| Donaldson Nurseries | Sparta | 3 | Ornamental |
| Drake Garden | 4026 Spring Hil | l Rd. | |
| J. H. Drake | Louisville | 1/4 | Iris |
| Dressman, J. A. | R. 5, Covingto | | Bulbs |
| Durrett, Lydian | Preston Hgwy., | | |
| | Louisville | 3 | Ornamental |
| Evans Gardens | 916 N. Broadwa | ıy | |
| | Lexington | 1 | Ornamental |
| Evergreens, Inc. | St. Matthews | | |
| Fike Nurseries | Hopkinsville | 60 | General |
| Florence Nursery | Florence | 5 | Ornamental |
| Floyd, The, Nursery | 1113 Lyndon Ln | ., Lyndon | |
| Fortner, D. D. | Morgantown | 1/2 | Ornamental |
| Gardiner, Boone, Nurseries | R. 6, Louisville | e 20 | General |
| Gardner Nursery | Eddyville | 1/2 | Ornamental |
| Garrett's Orchids | Versailles | 1 | Strawberry |
| General Electric Co. | Appliance Pk. | | |
| | Louisville | 3 | Ornamental |
| Goodin, Herman | Keavy | 1/2 | Ornamental |
| Gordon, Fred L. | 5502 New Cut F | Rd. | |
| | Louisville | 20 | General |
| Gramse, The, Nursery | Cairo Rd., Rt. | 7 | |
| | Paducah | 4 | General |

| NAME | ADDRESS | ACREAGE | KIND OF STOCK |
|-----------------------------|--------------------|---------|---------------|
| Gramse, Roy | R. 7, Paducah | 5 | General |
| Haag Nurseries | Jeffersontown | 10 | General |
| R. L. Haag | | | |
| Hallenburg Nursery | Anchorage | 3 | General |
| Harvel, A. M., | | | |
| Florist & Nursery | Princeton | 8 | Ornamental |
| Higdon Nursery | Mayfield | 20 | |
| W. C. Hidgon | | | |
| Highbaugh Farms | R. 6, Louisville | 20 | Ornamental |
| Hillenmeyer, Donald J. | Lexington | 1 | General |
| Hillenmeyer Nurseries | Georgetown Rd. | | |
| | Lexington | 300 | General |
| Hill's Nursery | Warsaw | 50 | General |
| Hume, Robert | Williamstown | | |
| Hummer Nursery | Dover | 4 | Ornamental |
| R. B. Kleinhans | | | |
| Humphrey's Landscape Ser | v. Mt. Sterling | 20 | General |
| Johnson, Allie | R. 6, Benton | 5 | General |
| Johnson, Clyde E. | Ashland | 10 | Ornamental |
| Kaenzig, John | Versailles | 1 | Strawberry |
| Kentucky Seed Stocks | Press Ave., Lexin | igton 1 | Strawberry |
| Kerr, Mrs. S. D. | 2300 Bradley Av | e. | |
| | Louisville | 1/4 | Perennials |
| Klein, Theodore, Nurserie | s Crestwood | 40 | General |
| Korfhage Florist | 4404 Dixie Hwy | | |
| and Nursery | Louisville | 12 | General |
| Korfhage, H. A., Shrub | 3303 7th St. Rd. | | |
| & Lawn Service | Louisville | 2 | Ornamental |
| Lakeview Nursery | Peewee Valley | | |
| Earl Humphries | | | |
| Leichhardt Hillview Nursery | Bowling Green | 25 | General |
| Lillard's Nursery | R. 2, Jeffersontov | | Ornamental |
| Lillard's Nursery | Covington | 5 | Ornamental |
| Luking, F. J., & Son | R. 1, Lyndon | | Greenhouse |
| Martin's Nursery | Carrollton | 30 | General |
| Mayfield Nursery | Mayfield | | |
| Howard Rottgerging | | | |
| McClain Nursery | Taylorsville | | |
| McCutchen's Flowers | Russellville | 2 | Ornamental |

| NAME | ADDRESS ACT | REAGE | KIND OF STOCK | |
|-------------------------|---------------------|-------|---------------|--|
| Metcalfe Floral Company | Hopkinsville | 2 | Ornamental | |
| Metcalfe Whse. Florist | Box 229, Hopkinsvil | le | Greenhouse | |
| Minish & Potts | Crestwood | 3 | General | |
| Mink's Nurseries | London | 5 | Ornamental | |
| Montieth Nursery | Hebron | 1 | Ornamental | |
| Mt. Pleasant Gardens | Ft. Thomas | 10 | General | |
| Murray Nursery | | | | |
| & Florist | Murray | 2 | Ornamental | |
| Nick's Nursery | Anchorage | 30 | Ornamental | |
| Oak Grove Nursery | 2121 Phelps Ave. | | | |
| John Wuerdeman | Ashland | 2 | Ornamental | |
| Otte, Clarence | 306 Penruth Ave. | | | |
| | Louisville | 2 | Ornamental | |
| Perrelli, Joseph | Middletown | 2 | Ornamental | |
| Peyton's Nursery | | | | |
| & Greenhouse | Hodgenville | 5 | Ornamental | |
| Pomona Nurseries | Bowling Green | 5 | Ornamental | |
| Ray, Carl, Company | LaGrange Rd. | | | |
| | Lyndon | 15 | General | |
| Reynolds Nursery | Bondville | 30 | Ornamental | |
| Ritter, Mrs. W. M. | R. 4, Louisville | 1/4 | Perennials | |
| Rottgering's Nursery | Old Cairo Rd. | | | |
| | Paducah | 5 | General | |
| Rouse, Sterling | Florence | 1/4 | General | |
| Sanders Bros. Nursery | R. 4, Paducah | 50 | General | |
| Sanders, James, Nursery | 4123 Schneidman Rd. | | | |
| | Paducah | 5 | General | |
| Sanders, Lawrence, | 721 Ky. Ave. | | | |
| Nursery | Paducah | 15 | General | |
| Schevetto's Nursery | Anchorage | 7 | General | |
| Schneidman's Nursery | Paducah | 35 | Ornamental | |
| Shaw's Gardens | Henderson | 5 | Ornamental | |
| Shupe Nurseries | Sedalia | 3 | Ornamental | |
| Sims Floral Company | Danville | | | |
| Singer Gardens | Stamping Ground | 20 | Ornamental | |
| Smits Greenhouses | Second St., Paris | 2 | Ornamental | |
| Spring Hill Nursery | Ashland | 5 | General | |
| Roscoe Johnson | | | | |
| Straw, William | Carlisle | | | |

| NAME | ADDRESS | ACREAGE | KIND OF STOCK |
|-------------------------|----------------|-----------|---------------|
| Sunset Serenade Gardens | R. 1 | 1/2 | Perennials |
| R. E. Hale | Owensboro | | |
| Veeley's Nursery | 3804 Camp Gr | cound Rd. | |
| Chester Huber | Louisville | 3 | Ornamental |
| Walker, Kingsley, Co. | 1127 Staniford | Ave. | |
| | Louisville | 3 | Ornamental |
| Wallitsch, Herman, R., | 2608 Hikes Ln | • | |
| Nurseries | Louisville | 10 | Ornamental |
| Watkins, Leroy, Nursery | Owensboro | 6 | Ornamental |
| Wayside Nursery | Robards | 2 | Ornamental |
| E. L. Overfield | | | |
| Wheeler's Nursery | Owensboro | 2 | Ornamental |
| Wildwood Nursery | Ashland | 1 | Ornamental |
| Ralph Childers | | | |
| Willadean Nurseries | Sparta | 50 | General |

SUMMARY OF INSPECTION AND REGULATORY WORK - 1957-58

The increase in numbers of nurseries, as well as the increase in acreage of nursery stock, reflects the continued increase in demand for ornamental plants. The trend toward cash-and-carry sales of ornamental plants has resulted in a considerable increase in store counter sales as well as several newly built garden stores during the year. A trend toward specialization in the growing of ornamental plants with the attendant increase in long distance transportation of plants has, and will likely continue, added to our responsibilities in plant pest prevention and control activities. Education, all along the lines, is the great need in this plant pest prevention and control problem. A brief, partial summary of the year's work follows:

| Inspections of growing stock | | 117 |
|--|-----|---------|
| Inspections of fruit, stock only | | 3 |
| Inspections of bulbs, perennials, etc | | 11 |
| Inspections of greenhouses | | 4 |
| Acres of field grown stock | , , | 1267.75 |
| Acres of fruit stock only | | 0.75 |
| Acres of bulbs, perennials, etc | , , | 5.25 |
| Kentucky grower's certificates issued | , , | 120 |
| Nonresident nurserymen's licenses issued | | 344 |
| Nursery stock dealer's permits issued | | 422 |
| Nonresident nursery stock agent's permits issued | | 67 |
| Miles traveled during inspection - regulatory activities | | 15, 394 |
| Number of counties visited | | |