

Kentucky Agricultural Experiment Station
UNIVERSITY OF KENTUCKY

**Inspection, Certification, and Transportation of Nursery
Stock in Kentucky, with a Brief Report for the
Year Ended June 30, 1936.**

W. A. PRICE and HOWARD G. TILSON

The Kentucky Nursery Inspection Law, enacted at the regular session of the General Assembly in 1926, provides for the quarantine of diseased or infested plants and for the inspection of all nurseries in Kentucky where trees, vines, plants or other nursery stock are grown and offered for sale. The purpose of the law is to prevent the introduction into the State and the distribution from one point to another within the State, of dangerously injurious insect pests and plant diseases. Therefore, it is a law protecting the nursery industry and the homeowners who have invested large sums of money in plants for the beautification of their grounds.

TRANSPORTING NURSERY STOCK

Whenever nursery stock is given to a common carrier for delivery to another point, either within this State or in another state or county, the package must be accompanied by a valid certificate of inspection. Transportation companies in Kentucky are required by law to notify the State Entomologist at once when nursery stock is received by them without a valid certificate of inspection issued by a state or federal authority. The postal Laws and Regulations, Section 595, paragraph 2, provide that all packages of nursery stock sent thru the mail must bear a certificate of inspection. Postmasters can render valuable service in preventing the spread of diseases and insect pests by observing this law.

PHONY PEACH

Phony-peach inspection has been carried on in Kentucky on a limited scale for the past two seasons. This work was done in 1935 during the months of June and July by two inspectors from the Federal Phony-Peach Laboratory in Georgia. They found seven peach trees infected with phony-peach disease, one each in Bullitt, Webster and Union Counties, and two each in Henderson and Graves Counties. These seven infected trees were tagged and later removed according to recommendations. In 1936 the special inspection for this disease was made by the Federal Bureau of Entomology and Plant Quarantine and the Kentucky Agricultural Experiment Station cooperating. The center of activities was in Western Kentucky because winter injury to peach trees in Central and Eastern Kentucky was so severe as to make identification of the disease very difficult. During four weeks of intensive work, all orchards where infected trees had been found in 1935 were inspected. All nurseries growing peach stock and the environs within the radius of one mile were inspected. Only one infected tree was found, that being in a commercial orchard in McCracken County.

JAPANESE BEETLE

Trapping for Japanese beetle was carried on in Kentucky during the past summer. This work was done by the Bureau of Entomology and Plant Quarantine. There were 2,400 traps, 400 each in Henderson, Lexington, Covington, and Ashland, and 800 in Louisville. Only three beetles were caught, two in Louisville and one in Lexington.

NURSERIES INSPECTED ANNUALLY

In order to control dangerous pests, all nurseries in Kentucky are inspected at least once each year during the growing season. The Entomologist and Botanist of the Kentucky Agricultural Experiment Station is authorized to inspect, or have inspected by his deputy, at any time he may elect, all nurseries in Kentucky, and to notify, in writing, the owners of such nurseries of the presence of any dangerous pests on their

nursery stock. Where infestation or disease is found, the nurseryman is required by law to take such measures of control as have been found effectual. Such procedures of control must be changed from time to time to conform with the most recent methods of combating pests and diseases.

DEFINITION AND CERTIFICATION

The term "Nursery Stock" includes all fruit trees and vines, shade trees and forest trees, whether such trees are grown especially for sale or taken from the forest and offered for sale, roses, evergreens, shrubbery, raspberry plants, strawberry plants, sweetpotato plants, and all other plants which may serve as a medium for disseminating injurious insect pests or plant diseases. Persons who desire to sell, ship, or give away any such nursery stock shall obtain a certificate or permit from the State Entomologist. This certificate is issued after the stock has been inspected by an authorized agent and found to be free from insect pests and diseases. An exact copy of the certificate issued must be attached to each plant or bundle of plants delivered to a common carrier for shipment.

Shippers of nursery stock should familiarize themselves with inspection requirements and restrictions of those states into which they send plants. For convenience, a list of the officers in charge of inspection and quarantine service of the various states is given below, as of August 1, 1936:

Alabama	B. P. Livingston, Chief, Division of Plant Industry, Montgomery
Arizona	D. C. George, State Entomologist, Phoenix
Arkansas	P. H. Millar, Chief Nursery Inspector, Little Rock
California	A. C. Fleury, Chief Quarantine Officer, Sacramento
Colorado	J. C. Jones, State Entomologist, Fort Collins
Connecticut	W. E. Britton, State Entomologist, New Haven
Delaware	Ralph C. Wilson, Secretary, State Board of Agriculture, Dover
District of Columbia	Bureau of Entomology and Plant Quarantine, Washington, D. C.
Florida	J. C. Goodwin, Nursery Inspector, State Plant Board, Gainesville
Georgia	J. H. Girardeau, State Entomologist, Atlanta
Idaho	W. H. Wicks, Director, Bureau of Plant Industry, Boise

Illinois	H. F. Seifert, Chief Plant Inspector, Division of Plant Industry, Urbana
Indiana	Frank N. Wallace, State Entomologist, Indianapolis
Iowa	Carl J. Drake, State Entomologist, Ames
Kansas	Geo. A. Dean, Entomologist, Entomological Commission, Manhattan
Kentucky	W. A. Price, State Entomologist, Experiment Station, Lexington
Louisiana	W. E. Anderson, State Entomologist, Baton Rouge
Maine	Stanley L. Painter, State Horticulturist, Augusta
Maryland	E. N. Cory, State Entomologist, College Park
Massachusetts	R. H. Allen, Director, Division of Plant Pest Control, State House, Boston
Michigan	E. C. Mandenberg, Orchard and Nursery Inspection, Dept. of Agriculture, Lansing
Minnesota	A. G. Ruggles, State Entomologist, University Farm, St. Paul
Mississippi	R. P. Colmer, Chief Inspector, State College
Missouri	J. Carl Dawson, Plant Officer, Jefferson City
Montana	Geo. L. Knight, Chief, Division of Horticulture, Missoula
Nebraska	L. M. Gates, Entomologist, State Department of Agriculture, Lincoln
Nevada	Geo. G. Schweis, Division of Plant Industry, Gladianos Building, Reno
New Hampshire	W. C. O'Kane, Deputy Commissioner of Agriculture, Durham
New Jersey	Harry B. Weiss, Bureau of Plant Industry, State Department of Agriculture, Trenton
New Mexico	R. F. Crawford, Plant Quarantine and Regulatory Office, State College
New York	B. D. Van Buren, Bureau of Plant Industry, Department of Agriculture, Albany
North Carolina	R. W. Leiby, Entomologist, State Department of Agriculture, Raleigh
North Dakota	J. A. Munro, Entomologist, State College, Fargo
Ohio	Walter J. Marion, Chief, Division of Plant Industry, Dept. of Agriculture, Columbus
Oklahoma	R. E. Montgomery, State Nursery Inspector, Oklahoma City
Oregon	Frank McKennon, Chief, Division of Plant Industry, Dept. of Agriculture, Salem
Pennsylvania	R. H. Bell, Director, Bureau of Plant Industry, Harrisburg
Rhode Island	A. E. Stene, State Entomologist, State House, Providence
South Carolina	Franklin Sherman, Entomologist, State Crop Pest Commission, Clemson College
South Dakota	C. A. Russell, Secretary of Agriculture, Pierre

Inspection of Nursery Stock, 1935-1936

Tennessee	G. M. Bentley, State Entomologist and Plant Pathologist, Knoxville
Texas	J. M. Del Curto, Chief Entomologist, Department of Agriculture, Austin
Utah	Earl Hutchings, State Agricultural Inspector, Department of Agriculture, Salt Lake City
Vermont	M. B. Cummings, State Nursery Inspector, Burlington
Virginia	G. T. French, State Entomologist, Richmond
Washington	J. I. Griner, Supervisor of Horticulture, Olympia
West Virginia	J. B. McLaughlin, Commissioner of Agriculture, Charleston
Wisconsin	E. L. Chambers, State Entomologist, Madison
Wyoming	C. L. Corkins, State Entomologist, State Department of Agriculture, Powell
Dominion of Canada	L. S. McLaine, Secretary, Destructive Insect and Pest Act, Dept. of Agriculture, Ottawa

KENTUCKY NURSERYMEN WHO RECEIVED CERTIFICATES OF INSPECTION, 1935-1936

Name	Address	Acreage	Kind of Stock
Adkins, Cicero	Hawesville		Sweetpotato plants
Anderson, B. B.	Quincy		Sweetpotato plants
Angel, Sam M.	Henderson, R. 2.		Sweetpotato plants
Bagwell, Harlan	Murray, R. 2		Sweetpotato plants
Becker's Florist and Nursery	Coral Ridge, R. 1	2	Ornamentals
Beckett, Carl P.	Falmouth		Sweetpotato plants
Bellefonte Nursery, K. G. Seaton	Ashland		Ornamentals
Best, C. T.	Silver Grove		General
Blankenbaker, S. H.	Jeffersontown	2½	General
Bolin, Mrs. Henry	Clinton	½	Ornamentals
Bourbon Nurseries	Paris	36	General
Boyle, L. T.	Owensboro	2	Bulbs
Bradford, J. C.	Vanceburg	1½	Strawberry and sweetpotato plants
Brown, C. G.	Hawesville		Sweetpotato plants
Burnett, F. M.	Oakland	¾	Strawberry plants
Cain, Peyton	Bybee	2	General
Chester, H. C.	Kirksey, R. 1		Sweetpotato plants
Chick, C. D.	Marion	½	Ornamentals and sweetpotato plants
Christman, John H.	Paris	1	Ornamentals
Clark, Joe A.	Paynesville	½	Fruits
Clark Nursery, W. W. Clark	Mt. Sterling	8	General
Clinton Nursery, O. Piper	Clinton	2	Fruits
Connell, John J.	646 Higgins Ave., Paris		Sweetpotato plants
Corbin Nursery, W. H. Burgan	Corbin	2	Ornamentals
Cox and Atkinson	Cynthiana		Sweetpotato plants
Crume, T. C., Nursery and Landscape Co.	Florence	6	Ornamentals
Curry, J. G.	Hawesville		Sweetpotato plants
Damron, L. P.	Olive Hill		Sweetpotato plants
Darragh, K. B.	Vanceburg	1½	Strawberry and sweetpotato plants
Deufel Nurseries, E. J. Deufel	Walton	8	Ornamentals
Devon Glad and Dahlia Garden, John W. Cain	Erlanger	3	Dahlias & gladioli
Dixie View Nurseries, A. L. Heger	Covington, Box 161	50	General
Donaldson Nurseries, J. F. Donaldson	Sparta and Warsaw	55	General

KENTUCKY NURSERYMEN WHO RECEIVED CERTIFICATES OF INSPECTION, —1935-1936—Continued

Name	Address	Acre- age	Kind of Stock
Eicher, P. J.	Shively	½	Ornamentals and sweetpotato plants
Feck, Will	Lexington, R. 2		Sweetpotato plants
Fike Nurseries, J. W. Fike	Hopkinsville	12	General
Fister, Jos. N.	Lexington	3	Strawberry plants
Friedman, John	Owensboro	14	Tomato plants
Fry, Arthur	Ribolt		Sweetpotato plants
Boone Gardner's Nursery, Dan Gardner	St. Matthews	15	General
George, Curtis	Princeton		Sweetpotato plants
Ginn, Foster	Charters		Sweetpotato plants
Gramse Nursery, R. A. Gramse	Paducah	4	Ornamentals
Grant Gardens, Dr. Henry L. Grant	2148 Alta Ave., Louisville	1/10	Iris
Green, T. W.	Bowling Green, R. 1	1½	General
Green River Home Nursery, W. A. Sandefur	Robards	8	General
Guthrie Service Nursery, E. C. Meriwether	Guthrie	¼	Ornamentals
Haag's Nursery, R. L. Haag	Jeffersontown	30	Ornamentals
Harrell, W. J.	Kirksey, R. 2		Sweetpotato plants
Heitz, Adam	1166 Barrett Ave., Louisville	1	Ornamentals
Highland Nursery Co., Joe Buenger	Ft. Thomas	1	Ornamentals
Highland Place Nursery, Mrs. Jos. N. Garrett	Versailles	8	Ornamentals
Hillenmeyer Nurseries	Lexington	250	General
Humphrey's Landscape Service	Mt. Sterling	5	Ornamentals
Immegart's Nursery, Fred J. Immegart	250 S. Alexandria Pike, Newport	12	Ornamentals
Janicke Brothers	3340 Taylor Bld., Louis- ville		Sweetpotato plants
Judd, Dudley W.	Kevil, R. 1	2	Strawberry plants
Junior Club Nursery, A. C. Herrin	Shopville	¼	Fruit
Kahlert Flower Farm	Shively	15	Narcissi
Keeling, J. W.	Hopkinsville	2	Strawberry and sweetpotato plants
Kirksey Plant Farm	Kirksey		Sweetpotato plants

KENTUCKY NURSERYMEN WHO RECEIVED CERTIFICATES OF INSPECTION, —1935-1936—Continued

Name	Address	Acre- age	Kind of Stock
Klein Nursery & Floral Co., Theo. R. Klein	Crestwood	10	General
Klein, George J.	Crestwood	1	Ornamentals
Lavin, Joe	332 W. 8th St., Paris		Sweetpotato plants Sweetpotato plants
Lee, T. H.	Murray, R. 3		
Leeming Nursery, W. H. Leeming	Shively	14	Ornamentals
Limestone Dahlia Gardens, Purnell and Galloway	Maysville	2	Dahlia's
Lindberg's Nursery & Landscape Co., H. Lindberg	Lexington	16	Ornamentals
Louisville Nurseries, W. N. Arterburn	St. Matthews, R. 7	48	General
Martin's Nursery	Carrollton	4	Ornamentals
McCowan, Emery	Lamero	1	Native shrubbery
Miller, Mrs. H. L.	Valley Station, R. 1.	2	Gladioli
Mt. Airy Nursery, Dalton Brown	Harrodsburg	2	Ornamentals
Newsom, H. C.	517 Hopkinsville St., Princeton		Sweetpotato plants
Nick's Nursery, Nick Verburg	Anchorage	5	Ornamentals
Nickles, B. J.	Frankfort, R. 1	1½	General
Patton, W. O.	Almo		Sweetpotato plants
Pomona Nurseries, A. A. McGinnis	Bowling Green	15	General
Poole and Purlant, Florist	Winchester	2	Ornamentals
Pullam-Threlkeld Nursery Co.	Clay	5	General
Ridgeway Nursery, Theo. Zollinger	St. Matthews	5	Ornamentals
Robbins, Robert R.	Union	2	General
Roberts, B. E.	Benton		Sweetpotato plants
Rogers, Mell E.	Hickory	1	Strawberry plants
Rottgering Greenhouses	Paducah	1	Perennials
Ruckel, Gilbert	Vanceburg	¼	Strawberry plants
Russell, C. G.	Mayfield	2	Perennials & bulbs
Russell Plant Farm, Jesse Russell	Bowling Green	¼	Sweetpotato plants and bulbs
Shupe Nurseries, H. R. Shupe	Sedalia	20	General
Singer Gardens, J. W. Singer	Stamping Ground	1½	Ornamentals

KENTUCKY NURSERYMEN WHO RECEIVED CERTIFICATES OF INSPECTION, —1935-1936—Continued

Name	Address	Acre- age	Kind of Stock
Sisk, W. C.	Princeton		Sweetpotato plants
Smits' Greenhouses, Jan Smits	Paris	5	Ornamentals
Snyder, W. E.	Chambers		Sweetpotato plants
Spillman, H. C.	Mayfield	1	Strawberry plants
Stewart, J. H.	Murray, R. 4		Sweetpotato plants
Stoke, Louis	2340 Payne St., Louisville	1½	Perennials & bulbs
Tapscott Florist	Owensboro	8	Ornamentals
Taylor, Truman	Waynesburg	3	Strawberry plants
Todd County Nursery J. M. Green	Trenton, R. 2	11½	General
Trimborn, Charles	Henderson		Sweetpotato plants
Vergne, James	Vanceburg		Sweetpotato plants
Walnut Lawn Farm, R. L. James	Lexington, R. 8	11½	Ornamentals
Webb, Clifton	Hawesville		Sweetpotato plants
Webb's Evergreen Nursery, R. F. Webb	Warsaw	½	Ornamentals
Webb, S. T.	Waynesburg	11½	Strawberry plants
Wettstein, H. C.	Chambers		Sweetpotato plants
White's Dahlia Gardens	1814 Richmond Drive, Louis- ville	1	Dahlia
Whittinghill, Lonnie M.	Love	½	Fruit
Willadean Nurseries, Inc., A. L. Kidwell, Mgr.	Sparta	100	General
Yopp's Nursery, M. J. Yopp	Paducah	20	General

LICENSES ISSUED TO NON-RESIDENTS, DEALERS AND AGENTS,
1935-36

Non-resident nurserymen's permits	128
Nursery dealers' permits	119
Nursery agents representing non-resident nurserymen	44
Nursery agents representing resident nurserymen	11

APPROXIMATE NUMBER OF VARIOUS PLANTS GROWN IN
NURSERIES OF KENTUCKY, 1935-36

Apple		Catalpa	4,991
Grafts	79,200	Sweet Gum	3,395
2-yr. old	21,933	Soft Maple	38,213
3-yr. old	15,803	Sugar Maple	24,835
4-yr. old	1,525	Red Maple	7,900
Pear		Other Maples	8,406
Grafts	1,298	Black Locust	200,000
Seedling	290	Oak	44,725
Quince	200	Tulip Poplar	6,580
Plum	3,048	Magnolia	9,833
Peach		Sycamore	13,350
Budded	45,998	Willow	13,184
Seedling	83,650	Lombardy Poplar	14,867
Cherry		Chinese Poplar	4,580
Budded	8,898	Dogwood	23,014
Seedling	5,000	Holly	4,484
Grape	82,150	Boxwood	30,457
Gooseberry	675	Carolina Poplar	192
Currant	125	Ginkgo	4,100
Hedge plants	369,706	Red Bud	150
5-leaf pine	5,241	Narcissus	40,000
Other conifers	509,200	Gladiolus	199,500
Woody shrubs	623,331	Dahlia	130,550
Herbaceous ornamentals (Perennials)	581,325	Iris	319,100
Chestnut	50	Canna	13,000
Elm		Tulip	5,000
Native	25,898	Rose	4,900
Chinese	16,560	Tuberose	95,000
Linden	2,610	Weeping Mulberry	45
Ash	5,690	Mountain Flowering Ash	225
Birch	3,794	Horsechestnut	250

FREQUENCY OF APPEARANCE OF INSECTS AND DISEASES OF
CONSEQUENCE IN KENTUCKY NURSERIES, 1935-36

Insects			
Red spider	31	Woolly aphid	5
Strawberry crown borer	21	Apple leaf aphid	4
Bagworm	19	Dogwood borer	4
White grub	12	Peach tree borer	4
Oriental fruit moth	11	Gladiolus thrips	4
Apple leaf skeletonizer	11	Catalpa sphinx	3
San Jose scale	7	Boxwood mealy flata	3
Dahlia leaf hopper	6	Blister beetle	3
		Dahlia stalk borer	3

Inspection of Nursery Stock, 1935-1936

White pine cottony aphid....	3	Raspberry anthracnose	9
Oak scale	2	Cherry leaf spot	8
Poplar leaf tyer	2	Lilac blight	6
Oystershell scale	1	Delphinium crown rot	6
Boxwood leaf miner	1	Sweetpotato black rot	4
Pine tip moth	1	Rose mildew	4
		Rose black spot	4
		Apple scab	3
		Apple crown gall	3
		Iris rot	2
		Gladiolus smut	2
		Phlox rust	2
		Rhubarb crown rot.....	1
		Damping off	1
		Gladiolus corm rot	1
Diseases			
Cedar rust	19		
Lombardy canker	16		
Strawberry leaf spot	15		
Peony blotch	10		
Pussy willow canker	9		
Raspberry leaf spot	9		
Lilac mildew	9		

SUMMARY OF NURSERY INSPECTION, 1935-36

Inspections of growing stock	184
Nurserymen growing fruit stock only	6
Nurserymen growing ornamental stock only	54
Nurserymen growing both fruit and ornamental stock	36
Growers of strawberry plants	44
Growers of raspberry plants	11
Growers of blackberry	3
Growers of sweetpotato plants	46
Inspections of sweetpotatoes in storage	4
Growers refused certificates of inspection because of pests found	22
Acres of all nursery stock	1,050 ¹ / ₂
Acres of raspberries	35 ¹ / ₂
Acres of strawberries	89
Acres of blackberries	3
Acres of tomato plants	14
Square feet of sweetpotato plant beds	80,170
Bushels of sweetpotatoes in storage	1,050
Miles traveled, July 1, 1935, to June 30, 1936.....	18,774
Number of counties visited	116

VIOLATIONS

During the season, three persons were apprehended, tried and convicted of charges of violating provisions of the Nursery Inspection Act.

NTS,
128
119
44
11

IN

4,991
3,395
8,213
4,835
7,900
8,406
0,000
4,725
6,580
9,833
3,350
3,184
4,867
4,580
23,014
4,484
30,457
192
4,100
150
40,000
99,500
30,550
19,100
13,000
5,000
4,900
95,000

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