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United States Department of Agriculture
Bureau of Entomology and Plant Quarantine

SERVICE AND
REGULATORY ANNOUNCEMENTS
1941

These announcements are issued quarterly and constitute a permanent record of the work of the Bureau in the enforcement of the Plant Quarantine Act of 1912 and certain related acts, including the text of quarantines and regulations thereunder, and the more important circulars and decisions explanatory of, or bearing on, such quarantines and regulations

**WITH LIST OF PLANT PESTS INTERCEPTED WITH IMPORTED
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(headquarters, Greenfield, Mass.).
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Moth Quarantines, and Dutch Elm Disease Eradication (headquarters, Bloom-
field, N. J.)
R. E. McDONALD, *in Field Charge, Pink Bollworm and Thurberia Weevil Quar-*
antines (headquarters, San Antonio, Tex.).
P. A. HOIDALE, *in Field Charge, Mexican Fruitfly Quarantine* (headquarters,
Harlingen, Tex.).
CLAUDE WAKELAND, *in Field Charge, Grasshopper Control* (headquarters, Denver,
Colo.).
A. C. BAKER, *in Field Charge, Fruitfly Investigations* (headquarters, Mexico City,
Mexico).

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United States Department of Agriculture

BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

SERVICE AND REGULATORY ANNOUNCEMENTS

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QUARANTINE AND OTHER OFFICIAL ANNOUNCEMENTS

ANNOUNCEMENTS RELATING TO DUTCH ELM DISEASE QUARANTINE (NO. 71)

DUTCH ELM DISEASE QUARANTINE FOR AREA IN PENNSYLVANIA IS CONSIDERED

(Press notice)

APRIL 1, 1941.

A public hearing at Washington, D. C., on April 9 has been announced by the Secretary of Agriculture to consider extending the Dutch elm disease quarantine to include the 9 counties of Montgomery, Luzerne, Bucks, Sus-

quehanna, Lehigh, Northampton, Wayne, Philadelphia, and Monroe in Pennsylvania. The conference will be held before officials of the Bureau of Entomology and Plant Quarantine in the auditorium of the Department of Agriculture, South Building, Independence Avenue and Fourteenth Street, S.W., at 10 a. m. Any person interested may appear and be heard, either in person or by attorney.

Since 1935, because of the existence of the Dutch elm disease in New York City and surrounding area in New York, Connecticut, and New Jersey, elm trees and parts, and any lumber, boxes, crates, or other containers with elm bark attached, have been prohibited movement from the regulated area in those States to points outside the area. When in July 1938 the disease was found in eastern Pennsylvania adjoining the infected area in New Jersey, a quarantine covering the infected area in Pennsylvania, paralleling the requirements of the Federal quarantine, was promulgated by the State Department of Agriculture.

It is believed that extension of the area under Federal regulation to cover the infected portions of Pennsylvania will facilitate the movement of restricted articles between points within the regulated areas of the quarantined States.

Since the Dutch elm disease was first discovered in this country in 1930, incipient infections have been found in limited localities in Maryland, Ohio, Indiana, Virginia, and West Virginia. However, prompt destruction of infected trees has been so effective that only slight recurrence of the disease has been found in some of these localities, and they are therefore not now under consideration for Federal quarantine.

TITLE 7—AGRICULTURE

CHAPTER III.—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

NOTICE OF PUBLIC HEARING TO CONSIDER THE ADVISABILITY OF EXTENDING THE DUTCH ELM DISEASE QUARANTINE TO THE STATE OF PENNSYLVANIA

MARCH 31, 1941.

The Secretary of Agriculture has information that the Dutch elm disease, a dangerous plant disease not heretofore widely prevalent or distributed within and throughout the United States but known to exist in parts of Connecticut, New Jersey, and New York, was found in 1938 to extend into Pennsylvania from the contiguous area under regulation in the above-named States. While the area in question has been under Pennsylvania State quarantine in the meantime, it is necessary to consider the advisability of extending the Federal quarantine (§ 301.71 Notice of Quarantine [Notice of Quarantine No. 71]) to the State of Pennsylvania for the purpose of placing area in that State under regulation and of prohibiting or regulating the interstate movement therefrom of the following articles: Elm plants or parts thereof of all species of the genus *Ulmus*, irrespective of whether nursery, forest, or privately grown including (1) trees, plants, leaves, twigs, branches, bark, roots, trunks, cuttings, and scions of such plants; (2) logs or cordwood of such plants; and (3) lumber, crates, boxes, barrels, packing cases, and other containers manufactured in whole or in part from such plants (unless the wood is entirely free from bark).

Consideration will also be given to the advisability of prohibiting or regulating certain types of movement of restricted commodities interstate from point to point within the regulated area.

Notice is therefore hereby given that, in accordance with Section 8 of the Plant Quarantine Act of August 20, 1912 (37 Stat. 315; U. S. C. 161), as amended, a public hearing will be held before the Bureau of Entomology and Plant Quarantine in the auditorium of the Department of Agriculture, Washington, D. C., in the South Building, Independence Avenue and 14th Street, S.W., at 10:00 a. m., April 9, 1941, in order that any person interested in the proposed quarantine may appear and be heard either in person or by attorney.

PAUL H. APPELBY,
Under Secretary.

ANNOUNCEMENTS RELATING TO FRUIT AND VEGETABLE QUARANTINE OF PUERTO RICO (NO. 58)

QUARANTINE RESTRICTIONS LESSENERD ON PUERTO RICAN FRUITS AND VEGETABLES

(Press notice)

JANUARY 28, 1941.

Considerable lessening of restrictions affecting movement of fruit and vegetable shipments from Puerto Rico will result from approval given by the Secretary of Agriculture to a revision of Quarantine No. 58 and its regulations, governing the movement of fruit and vegetable products from the Island.

According to the terms of this revision, which became effective January 22, a lengthy list of products shipped from the Island, including many of commercial importance such as tomatoes, cucumbers, pineapples, bananas, papayas, and avocados, will be relieved of existing marking and certification requirements. Unless inspection reveals infestation conditions, there will be no return to certification for these products. Some fruits and vegetables, such as citrus fruit shipped to ports on the Atlantic coast south of Baltimore, peppers, and corn, still require certification.

According to the Bureau of Entomology and Plant Quarantine, which recommended liberalization of restrictions, studies of insect pests in Puerto Rico, as well as records of many years of inspection there, indicate that the modification can be allowed without appreciably increasing any danger that might exist from the comparatively few injurious insects that may be carried from the Island on these products.

Quarantine No. 58 as originally established July 1, 1925—because of the presence on the Island of the West Indian fruitfly, bean pod borer, and other insects—permitted shipment to the mainland of only a few well-known products under a system of inspection and certification. Several years of study and inspection permitted many additions to the original list of products authorized for movement, and these were included in a revision of regulation 3 dated December 13, 1932.

The present revision represents still further liberalization. In addition to exempting numerous products from the certification and marking requirements of the quarantine, it further increases the number of fruits and vegetables that may be shipped, and provides as well for future additions when these are requested and their movement can be considered safe.

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

[FRUIT AND VEGETABLE QUARANTINE OF PUERTO RICO]

INTRODUCTORY NOTE

The considerable fund of knowledge accumulated from insect studies and inspection records during the last decade in Puerto Rico and elsewhere now permits a still further liberalization of the regulations governing the movement of fruits and vegetables from the Island under the subpart entitled, "Hawaiian and Puerto Rican Fruits and Vegetables", of Part 301, Chapter III, Title 7, Code of Federal Regulations [B. E. P. Q.—Q. 58, as amended]. It is believed that the protection afforded by this quarantine will not be lessened by these modifications, the principal effect of which is to remove a considerable list of products from the certification and marking requirements. Exemption from these requirements will be continued unless infestation conditions should make it necessary to restore this procedure for specific products or individual lots or shipments.

In addition, fumigation for pod beans and pigeonpeas will now be required; peppers and green corn will still require certification; and certification will likewise be required for citrus fruits when destined to ports other than those on the

Atlantic seaboard north of and including Baltimore. Among other modifications it is to be noted that okra will not now be included in the admissible list. This is on account of evidence recently obtained indicating that infestations of pink bollworm have occurred in commercial shipments of okra. Fresh banana leaves free from stalk and midrib will now be allowed to move without certification; yam, mangosteen, papaya, and apio (celery root), which have been brought up for consideration since the first amendment of these regulations was issued on December 13, 1932, will now be included among the products exempt from certification; and, in the interest of clarity, a few minor changes in product names are made herein.

Finally, provision has been made to authorize inclusion of other requested additional products for shipment when it can be established that, under suitable treatment, or as packed and shipped, their movement can be safely permitted.

DETERMINATION OF THE SECRETARY OF AGRICULTURE

The Secretary of Agriculture, having determined that it was necessary to quarantine Puerto Rico, in order to prevent the spread therefrom of certain injurious insects, including the West Indian fruitfly (*Anastrepha fraterculus* Wied.) and the bean pod borer (*Maruca testulalis* Geyer), not theretofore widely prevalent or distributed within and throughout the United States, and having given the public hearing required by law, promulgated Notice of Quarantine 301.53, Part 301, Chapter III, Title 7, Code of Federal Regulations, and rules and regulations supplemental thereto governing the movement of fruits and vegetables from Puerto Rico, §§ 301.58-1 to 12, inclusive, Part 301, Chapter III, Title 7, Code of Federal Regulations [B. E. P. Q.—Q. 58, effective July 1, 1925, as amended].

I have now determined that the West Indian fruitfly, designated in the aforesaid Notice of Quarantine and rules and regulations as *Anastrepha fraterculus* (Wied.), includes several distinct species, recognized as *A. suspensa* (Loew) and *A. mombinpraeoptans* Sein and probably still other fruitfly species. For this reason and for the reason that it appears that the provisions of the rules and regulations supplemental to the said Notice of Quarantine may safely be liberalized, I have further determined that the said Notice of Quarantine and rules and regulations should be revised.

ORDER OF THE SECRETARY OF AGRICULTURE

Pursuant to the authority conferred upon the Secretary of Agriculture by Section 8 of the Plant Quarantine Act of August 20, 1912, as amended (7 U. S. C. 161), the subpart, entitled, "Hawaiian and Puerto Rican Fruits and Vegetables," of Part 301, Chapter III, Title 7, Code of Federal Regulations [B. E. P. Q.—Q. 58, as amended], is hereby revised, effective January 22, 1941, to read as follows:

SUBPART—PUERTO RICAN FRUITS AND VEGETABLES

QUARANTINE

§ 301.58 *Notice of Quarantine*.—Under the authority conferred upon the Secretary of Agriculture by Section 8 of the Plant Quarantine Act of August 20, 1912, as amended (7 U. S. C. 161), Puerto Rico is quarantined effective on and after January 22, 1941, in order to prevent the spread therefrom of certain injurious insects, including the fruitflies *Anastrepha suspensa* (Loew), and *A. mombinpraeoptans* Sein, and probably still other fruitfly species, and the bean pod borer *Maruca testulalis* (Geyer), not heretofore widely prevalent or distributed within and throughout the United States. As provided in the said Plant Quarantine Act, fruits and vegetables shall not be shipped, offered for shipment to a common carrier, received for transportation or transported by a common carrier, transported, moved, or allowed to be moved from Puerto Rico into or through any other State or Territory or District of the United States, in manner or method or under conditions other than those prescribed in the rules and regulations supplemental hereto and in amendments thereof: *Provided*, That whenever the Chief of the Bureau of Entomology and Plant Quarantine shall find that facts exist as to the pest risk involved in the movement of one or more of the articles to which the regulations supplemental hereto apply, making it safe to modify, by making less stringent, the restrictions contained in any such regulations, he shall set forth and publish such findings in administrative instructions, specifying

the manner in which the applicable regulations should be made less stringent, whereupon such modification shall become effective.

This section leaves in full effect § 301.30 [B. E. P. Q.—Q. 30, revised effective October 10, 1934], which prohibits the movement from Hawaii and Puerto Rico into or through any other State, Territory, or District of the United States of all varieties of sweetpotatoes (*Ipomoea batatas*).

RULES AND REGULATIONS

§ 301.58-1 *Definitions*.—(a) *Fresh fruits and vegetables*.—The edible, more or less succulent, portions of food plants in the raw or unprocessed state, such as bananas, oranges, grapefruit, pineapples, tomatoes, peppers, lettuce, etc.

(b) *Plant litter*.—Leaves, twigs, or other portions of plants, or plant remains or rubbish as distinguished from clean fruits and vegetables, or other commercial articles.

(c) *Inspector*.—An inspector of the Bureau of Entomology and Plant Quarantine, United States Department of Agriculture.

§ 301.58-2 *Fruits and vegetables the movement of which is prohibited*.—Movement from Puerto Rico into or through any other State, Territory, or District of the United States of fruits of mango (*Mangifera* spp.), jobo (*Spondias* spp.), guava (*Psidium guajava*), and pomarrosa or rose apple (*Eugenia jambos*), and all other fruits and vegetables for which movement is not authorized in § 301.58-3 hereof, is prohibited: *Provided*, That any fruit or vegetable the movement of which is thus prohibited may be removed from a prohibited status and included in the list for which movement is authorized in § 301.58-3, by administrative instructions issued by the Chief of the Bureau of Entomology and Plant Quarantine when evidence satisfactory to him is obtained that the movement of the product in question, either subject to a specified treatment, or as packed and shipped, will not result in the dissemination of injurious insects.

§ 301.58-3 *Fruits and vegetables the movement of which is authorized*.
¹—(a) Subject to the conditions and limitations noted herein, and to such treatment as is herein or may hereafter be prescribed by the Chief of the Bureau of Entomology and Plant Quarantine, the following fruits and vegetables may be moved or allowed to be moved from Puerto Rico into or through any other State, Territory, or District of the United States when such fruits or vegetables are free from plant litter, are marked in compliance with § 301.58-6, and have been inspected by an inspector and certified by him to be free from injurious insect infestation, including the West Indian fruitfly and the bean-pod borer, or to have been given the prescribed treatment:

String beans, lima beans, faba beans, and pigeonpeas, in the pod, will be certified for movement only when they have been treated as prescribed by the Chief of the Bureau of Entomology and Plant Quarantine and under the supervision of an inspector.

Citrus fruits (orange, grapefruit, lemon, citron, and lime).

Corn (sweet corn on cob).

Peppers.

(b) The following fruits and vegetables are subject to inspection, either in the field or when presented for shipment, as the inspector may require, but unless found by him to be infested shall be free to move without certification, marking, treatment, or other requirements of these regulations, except that they must be free from plant litter and soil: *Provided*, That if the inspector shall find any field, grove, lot, shipment, or container of such fruits and vegetables infested with injurious insects, he shall notify the owner or person in charge, in writing, of the existence of the infestation and the extent thereof, and thereafter movement of the fruit or vegetable so specified shall be prohibited while the infestation persists, unless in the judgment of the inspector movement may be safely allowed subject to certification after

¹ The following are not interpreted as fresh fruits and vegetables within the meaning of § 301.58 [B. E. P. Q.—Q. 58, revised]: Coconuts, breadnuts, dried peas and beans, dried seeds, dried or cured medicinal plants and herbs, anatto seeds (achiote), gourd (higuero), cannon-ball fruit (*Couroupita guianensis*), and cut flowers.

having been given an approved treatment, or after sorting, conditioning, or other effective safeguard measures:

Algarroba pods (<i>Hymenaea courbaril</i>).	Dasheen, malanga, taro (<i>Colocasia</i> and <i>Caladium</i> spp.).
Allium spp. (onion, chive, garlic, leek, shallot, lion, shallot).	Eggplant.
Anise (<i>Pimpinella anisum</i>).	Fennel.
Apio, celery root (<i>Arracacia xanthorrhiza</i>).	Ginger root (<i>Zingiber officinale</i>).
Arrowroot (<i>Maranta arundinacea</i>).	Kudzu (<i>Pueraria thunbergiana</i>).
Artichoke, Jerusalem (<i>Helianthus tuberosus</i>).	Lerens, sweet corn root (<i>Calathea allouia</i>).
Asparagus.	Lettuce.
Avocado.	Mangosteen (<i>Garcinia mangostana</i>).
Balsamapple, balsam-pear (<i>Momordica balsamina</i> ; <i>M. charantia</i>).	Mustard greens.
Banana and plantain (fruit).	Palm hearts.
Banana leaves (fresh, without stalks or midrib).	Papaya, lechosa (<i>Carica papaya</i>).
Beans (fresh shelled lima and faba beans).	Parsley.
Beet, including Swiss chard.	Parsnip.
<i>Brassica oleracea</i> (cabbage, cauliflower, Brussels sprouts, broccoli, collard, kale, kohlrabi, Savoy).	Peas (in pod) (<i>Pisum sativum</i>).
Breadfruit, jackfruit (<i>Artocarpus</i> spp.).	Pigeonpea (fresh shelled).
Cacao bean (<i>Theobroma cacao</i>).	Pineapple.
Carrot.	Potato.
Celery.	Quenepa (<i>Melicocca bijuga</i>).
Chayote (<i>Sechium edule</i>).	Radish.
Chicory, endive (<i>Cichorium intybus</i>).	Rhubarb.
Citrus fruit (citron, grapefruit, lemon, lime, and orange) destined for ports on the Atlantic seaboard north of and including Baltimore.	Rutabaga.
Cucumbers, including Angola cucumber (<i>Sicana odorata</i>).	Spinach.
Culantro, coriander (<i>Eryngium foetidum</i> ; <i>Coriandrum sativum</i>).	Squash, pumpkin, watermelon, vegetable marrow, cantaloup, calabaza.
	Strawberry.
	Tamarind beanpod (<i>Tamarindus indica</i>).
	Tomato.
	Turnip.
	Watercress.
	Waterlily root, lotus root (<i>Nelumbium nelumbo</i>).
	Yam, ñame (<i>Dioscorea</i> spp.).
	Yautia, tanier (<i>Xanthosoma</i> spp.).
	Yuca, cassava (<i>Manihot esculenta</i>).

§ 301.58-4 *Application for inspection*.—Persons intending to move any of the fruits or vegetables for which certification is required under § 301.58-3 from Puerto Rico into or through any other State, Territory, or District of the United States shall make application for inspection thereof as far as possible in advance of the probable date of shipment. The application shall show the quantity of the fruits or vegetables which it is proposed to move, their identifying marks and numbers, their exact location, and the contemplated date of shipment. Forms on which to make application for inspection will be furnished upon request, by the United States Department of Agriculture, Bureau of Entomology and Plant Quarantine.

§ 301.58-5 *Certification of shipments*.—Fruits and vegetables for which certification is required under § 301.58-3 shall not be moved from Puerto Rico into or through any other State, Territory, or District of the United States, by ship, vessel, aircraft, or otherwise, unless each shipment is accompanied by a certificate issued by an inspector showing that such fruits or vegetables have been inspected and pronounced free from injurious insect infestation, including the West Indian fruitfly and the bean pod borer, or that the required treatment has been given. Copies of inspection certificates shall accompany the manifests, memoranda, or bills of lading pertaining to such shipments.

No charge will be made for the inspector's service in inspection and certification, but all costs for labor, cartage, storage, packing and unpacking, and other expenses incidental to inspection shall be borne by the shipper. Applicants for inspection shall place the fruits or vegetables to be inspected so that they can be readily examined; if not so placed, inspection will be refused.

§ 301.58-6 *Marking of containers*.—No fruits or vegetables for which certification is required under § 301.58-3 shall be moved from Puerto Rico into or through any other State, Territory, or District of the United States unless the crate, box, bale, or other container thereof is so marked with the marks and numbers given on the application that it may be identified at the port of first arrival.

§ 301.58-7 *Fruits and vegetables as ships' stores or in the possession of passengers and crew*.—The movement of fruits and vegetables is permitted from Puerto Rico as ships' stores or in the possession of passengers and crew on ships, vessels, or aircraft plying between Puerto Rico and any other State, Territory, or District of the United States: *Provided*, That all such products, on arrival in the United States must be submitted for inspection and disposition as provided in §§ 301.58-8 and 301.58-11 hereof, and (1) they must be free

from infestation with injurious insects; (2) those fruits and vegetables not listed in § 301.58-3 shall not be landed; (3) prohibited fruits and vegetables retained aboard shall be subject to the safeguards provided in § 352.S [regulation 6 of the Plant Safeguard Regulations].

§ 301.58-8 *Inspection of vessels.*—Inspectors are authorized to enter upon ships, vessels, and aircraft from Puerto Rico at any time after they come within the territory or territorial waters of any other State, Territory, or District of the United States, whether in the stream or at the dock, wharf, mole, or landing field for the purpose of ascertaining by inspection whether any of the fruits and vegetables covered by this quarantine are contained in such ships, vessels, or aircraft as cargo or ships' stores, or whether there remains any infestation from such fruits or vegetables.

§ 301.58-9 *Disinfection of vessels.*—Disinfection under the direction of and in the manner prescribed by the inspector of any ship, vessel, or aircraft plying between Puerto Rico and any other State, Territory, or District of the United States upon arrival at the dock, wharf, mole, or landing field may be required if the ship, vessel, or aircraft is found to contain or to be contaminated with any of the fruits or vegetables infested with injurious insects. Such disinfection shall be performed by the person having charge or possession of the ship, vessel, or aircraft and at a place satisfactory to the inspector. When such ship, vessel, or aircraft has been disinfected in a manner satisfactory to such inspector, he shall immediately issue and deliver to the person having charge or possession thereof a certificate to that effect.

§ 301.58-10 *Inspection of cargo.*—Inspectors are authorized to ascertain by inspection of the cargo of any ship, vessel, or aircraft plying between Puerto Rico and any other State, Territory, or District of the United States at the port of first arrival, that each lot or shipment moving under certification agrees in nature and amount with the certificate, and that all shipments of fruits and vegetables for which a certificate is required are duly certified; to determine, in the case of fruits and vegetables the movement of which is not authorized, if infestation is present; and to require for such unauthorized shipments safeguards, treatment, return, or destruction, as may be necessary to prevent the dissemination of injurious insects.

§ 301.58-11 *Inspection of baggage.*—Inspectors are authorized to ascertain by inspection whether any of the fruits or vegetables covered by this quarantine are contained in the baggage or other personal belongings of passengers and members of the crew on ships, vessels, or aircraft plying between Puerto Rico and any other State, Territory, or District of the United States, to determine whether the same are infested with injurious insects, and in the case of infested or unauthorized products to require such safeguarding, treatment, or destruction as in the judgment of the inspector may be necessary. For the purpose of such inspection an inspector is authorized to open any box, bale, crate, bundle, or other package, including trunks, which may contain or be liable to contain any of the fruits or vegetables covered by this quarantine. Such baggage inspection shall be made at the dock, airport, or landing field at the port of debarkation within any State, Territory, or District of the United States other than Puerto Rico, as the inspector may require, and no such baggage or personal belongings of passengers or crew shall be removed from such dock, airport, or landing field until the same have been inspected and passed by an inspector.

§ 301.58-12 *Baggage declarations.*—Before any ship, vessel, or aircraft from Puerto Rico arrives within the boundaries of any other State, Territory, or District of the United States, the master, captain, or other person having charge or possession of any such ship, vessel, or aircraft shall cause to be distributed to each passenger thereon a baggage declaration² to be furnished by the United States Department of Agriculture, calling attention to the provisions of the Plant Quarantine Act, the foregoing quarantine, and these regulations. These baggage declarations, after being executed and signed by the passengers, shall be collected and delivered to the inspector at the port of debarkation.

§ 301.58-13 *Parcel post inspection.*—Inspectors are authorized to inspect, with the cooperation of the United States Post Office Department, parcel post packages placed in the mails in Puerto Rico, to determine whether such packages contain fruits or vegetables the movement of which is not authorized under

² Form EQ-911.

this quarantine, to examine fruits and vegetables so found for insect infestation, and to notify the postmaster in writing of any violation of the said quarantine in connection therewith.

§ 301.58-14 *Movement by the Department of Agriculture.*—The foregoing quarantine and regulations shall not apply to movement of fruits and vegetables from Puerto Rico by the United States Department of Agriculture for experimental or scientific purposes.

Done at Washington, D. C., this 22d day of January 1941.

Witness my hand and the seal of the Department of Agriculture.
[SEAL] CLAUDE R. WICKARD,
Secretary of Agriculture.

The foregoing quarantine and regulations supersede the quarantine and regulations embodied in B. E. P. Q.-Q. 5S (effective July 1, 1925) and the amendment thereof effective January 1, 1933, and are adopted effective January 22, 1941.

[Copies of the foregoing quarantine were sent to all common carriers plying between Puerto Rico and the mainland.]

[Filed with the Division of the Federal Register January 22, 1941, 3:47 p. m.; 6 F. R., 582.]

NOTICE TO GENERAL PUBLIC THROUGH NEWSPAPERS

UNITED STATES DEPARTMENT OF AGRICULTURE,
Washington, D. C., January 22, 1941.

Notice is hereby given that the Secretary of Agriculture, under authority conferred on him by the Plant Quarantine Act of August 20, 1912, as amended (7 U. S. C. 161), has promulgated a revision of the subpart entitled "Hawaiian and Puerto Rican Fruits and Vegetables" of Part 301, Chapter III, Title 7, Code of Federal Regulations [B. E. P. Q.-Q. 58, as amended], effective on and after January 22, 1941. The purpose of this revision is to modify the restrictions on the movement of certain fruits and vegetables shipped from Puerto Rico; to require the fumigation of string beans, lima beans, faba beans, and pigeonpeas; to authorize the movement of several additional products; and to provide for further authorization for the movement of other products after it has been determined that such movement may be safely permitted.

CLAUDE R. WICKARD,
Secretary of Agriculture.

[Published in El Mundo, San Juan, P. R., February 12, 1941.]

ANNOUNCEMENTS RELATING TO JAPANESE BEETLE QUARANTINE (NO. 48)

JAPANESE BEETLE QUARANTINE REGULATIONS REVISED

(Press notice)

FEBRUARY 13, 1941.

The United States Department of Agriculture announced today that the Japanese beetle quarantine and regulations have been revised, effective February 12, 1941.

The regulated territory has been extended to include new areas in Maryland, New York, Pennsylvania, Virginia, and West Virginia. The new areas brought within the regulations include parts or all of the following counties: Baltimore, Carroll, Charles, Dorchester, Frederick, Howard, Montgomery, Washington, and Wicomico, Md.; Cayuga, N. Y.; Butler, Crawford, Erie, Forest, Mercer, Venango, and Warren, Pa.; Chesterfield, Greensville, and Rappahannock, Va.; and Marshall and Ohio, W. Va. The cities of Petersburg and Winchester, Va., are included also. These additions to the regulated area are made because scouting in 1940 showed that beetles were present there in large numbers.

The portion of this area subject to special regulations on the movement of fruits and vegetables that might carry beetles from the more heavily infested territory to uninfested territory has been extended to include additional areas in Baltimore and Howard Counties, Md., and Berks, Lehigh, Northampton, and

York Counties, Pa., and to bring in part of Cumberland County, Pa. Metropolitan New York localities and adjoining territory in Fairfield County, Conn., have been dropped from this area.

In addition, a few minor changes have been made in the Japanese beetle quarantine regulations. These cover modifications of the regulations for fruit and vegetable shipments to isolated points and of requirements as to certification of bananas.

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

REVISION OF JAPANESE BEETLE QUARANTINE

INTRODUCTORY NOTE

The current revision of the Japanese beetle quarantine adds a proviso under which the Chief of the Bureau of Entomology and Plant Quarantine may, when the facts as to pest risk so warrant, modify the requirements, by making them less stringent, as to one or more of the restricted articles, or as to certain periods of the year, or certain parts of the regulated areas.

In the revision of the regulations, nominal extensions of regulated areas are made in Maryland, New York, Pennsylvania, Virginia, and West Virginia. Counties newly added in part or in entirety include Cayuga in New York; Crawford and Forest in Pennsylvania; Greensville and Rappahannock in Virginia; and Marshall in West Virginia. The cities of Petersburg and Winchester, in Virginia, are also brought under regulation. Discovery of substantial infestations of the Japanese beetle in these sections warranted their addition to the regulated areas. Additional enlargements of the regulated areas have been made to include the entire Maryland counties of Baltimore, Howard, Montgomery, and Wicomico, and additional areas in the counties of Carroll, Charles, Dorchester, Frederick, and Washington; the entire Pennsylvania counties of Butler, Venango, and Warren, and parts of Erie and Mercer Counties; additional area in Chesterfield County, Va.; and all of Ohio County in West Virginia.

The area from which the movement of fruits and vegetables is regulated (§ 301.48-5) has been extended to include additional areas in Baltimore and Howard Counties, Md., and Berks, Lehigh, Northampton, and York Counties, Pa., and to bring in part of Cumberland County, Pa. The metropolitan New York localities and adjoining area in Fairfield County, Conn., are no longer included in this area.

Previous quarantine regulations required a certificate or permit for movement of fruits and vegetables from the area designated in § 301.48-5 to several isolated points in Maine, New York, Ohio, Pennsylvania, Vermont, and West Virginia. This requirement as related to isolated points has been removed with the exception that a certificate is required for such movement to Toledo, Ohio, and Winchester, Va., when consigned via refrigerator car or motortruck, or in lot shipments of three pieces or more by common carrier. This section has been further revised to remove the exemption in regard to bananas. Bananas in any form moving from the area designated in § 301.48-5 via refrigerator car, or motortruck, or by common carrier in lot shipments of three pieces or more, require certification during the period specified.

Current regulations require that refrigerator cars originating in the area designated in § 301.48-5 into which fruits or vegetables are to be loaded for interstate movement from any regulated area must be swept, cleaned, or fumigated by the common carrier prior to loading, and if used for loading fruits and vegetables in the area designated in that section, such cars must also be kept tightly closed and sealed during the interval between fumigating or cleaning and loading. Fruits and vegetables consigned from the area designated in

§ 301.48-5 by refrigerator cars must be fumigated in the car, when such action is deemed necessary by the inspector, and doors and hatches of the cars must be closed or screened.

Minor changes have also been made in §§ 301.48-6, 7, 10, 12, and 13.

This revision supersedes the twelfth revision of Notice of Quarantine No. 48, approved March 1, 1937, and the seventeenth revision of the rules and regulations supplemental thereto, as amended effective May 27, 1940.

SUMMARY

Unless a certificate has been issued, these regulations as now revised, prohibit the interstate movement between June 15 and October 15 (between June 1 and October 15 in the case of Accomac and Northampton Counties, Va.) of all fruits and vegetables by refrigerator car, motortruck, or in lot shipments of three pieces or more by common carrier, from the District of Columbia, the State of Delaware, and parts of Maryland, New Jersey, Pennsylvania, and Virginia, as defined in § 301.48-5, to or through points outside the regulated areas as defined in § 301.48-3.

The regulations also prohibit the interstate shipment of plants, sand, soil, earth, peat, compost, and manure from any part of the regulated areas to or through any outside point throughout the year unless a Federal permit or certificate has been secured. Cut flowers are restricted interstate movement only between June 15 and October 15 inclusive. For details and exceptions see §§ 301.48-6 and 7.

The regulated areas include the District of Columbia, the entire States of Connecticut, Delaware, Massachusetts, New Jersey, and Rhode Island, and parts of Maine, Maryland, New Hampshire, New York, Ohio, Pennsylvania, Vermont, Virginia, and West Virginia, as described in § 301.48-3.

These regulations also specify the conditions governing the protection of restricted articles from infestation while in transit (§ 301.48-8), require thorough cleaning of vehicles, containers, and refrigerator cars which have been used in transporting restricted products (§§ 301.48-5 and 13), and provide other safeguards and conditions as specified in the regulations.

To secure permits and certificates, address the Bureau of Entomology and Plant Quarantine, 266 Glenwood Avenue, Bloomfield, N. J., or the nearest branch office listed in the appendix.

DETERMINATION OF THE SECRETARY OF AGRICULTURE

The Secretary of Agriculture, having determined that it was necessary to quarantine the States of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, Virginia, and West Virginia, and the District of Columbia, to prevent the spread of the Japanese beetle (*Popillia japonica* Newm.), a dangerous insect new to and not theretofore widely prevalent or distributed within and throughout the United States, and having given the public hearing required by law, promulgated the Twelfth Revision of Notice of Quarantine 301.48, Part 301, Chapter III, Title 7, Code of Federal Regulations, and rules and regulations supplemental thereto, governing the movement of (1) fruits and vegetables; (2) nursery, ornamental, and greenhouse stock, and other plants; and (3) sand, soil, earth, peat, compost, and manure, from any of the above-named States or the District of Columbia, into or through any other State or Territory or District of the United States, §§ 301.48-1 to 14, inclusive, Part 301, Chapter III, Title 7, Code of Federal Regulations [B. E. P. Q.-Q., 48, effective on and after March 1, 1937].

For the reason that it appears that the provisions of the quarantine may be safely extended to authorize the Chief of the Bureau of Entomology and Plant Quarantine to modify, by making less stringent, the requirements of the rules and regulations supplemental to the said Notice of Quarantine, I have further determined that the said quarantine should be revised. I have further determined that it is necessary to revise the regulations for the purpose of extending the regulated areas owing to the discovery of substantial infestations of the Japanese beetle in additional sections, and to make other modifications.

ORDER OF THE SECRETARY OF AGRICULTURE

Pursuant to the authority conferred upon the Secretary of Agriculture by section 8 of the Plant Quarantine Act of August 20, 1912, as amended (7 U. S. C. 161), the subpart entitled "JAPANESE BEETLE" of Part 301, Chapter III, Title 7, Code of Federal Regulations [B. E. P. Q.-Q. 48, as revised] is hereby amended effective February 12, 1941, to read as follows:

SUBPART—JAPANESE BEETLE QUARANTINE

QUARANTINE

§ 301.48 *Notice of Quarantine.*—Under the authority conferred by section 8 of the Plant Quarantine Act of August 20, 1912, as amended (7 U. S. C. 161), I do quarantine the States of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, Virginia, and West Virginia, and the District of Columbia, to prevent the spread of the Japanese beetle. Hereafter, (1) fruits and vegetables; (2) nursery, ornamental, and greenhouse stock, and other plants; and (3) sand, soil, earth, peat, compost, and manure, shall not be shipped, offered for shipment to a common carrier, received for transportation or transported by a common carrier, or carried, transported, moved, or allowed to be moved from any of said quarantined States or District into or through any other State or Territory or District of the United States in manner or method or under conditions other than those prescribed in the rules and regulations hereinafter made and amendments thereto: *Provided*, That the restrictions of this quarantine and of the rules and regulations supplemental thereto may be limited to the areas in a quarantined State now, or which may hereafter be, designated by the Secretary of Agriculture as regulated areas when, in the judgment of the Secretary of Agriculture, the enforcement of the aforesaid rules and regulations as to such regulated areas shall be adequate to prevent the spread of the Japanese beetle: *Provided further*, That such limitations shall be conditioned upon the said State providing for and enforcing such control measures with respect to such regulated areas as, in the judgment of the Secretary of Agriculture, shall be deemed adequate to prevent the spread of the Japanese beetle therefrom to other parts of the State: *And provided further*, That certain articles classed as restricted herein may, because of the nature of their growth or production or their manufactured or processed condition, be exempted by administrative instructions issued by the Chief of the Bureau of Entomology and Plant Quarantine when, in his judgment, such articles are considered innocuous as carriers of infestation: *And provided further*, That whenever, in any year, the Chief of the Bureau of Entomology and Plant Quarantine shall find that facts exist as to the pest risk involved in the movement of one or more of the articles to which the regulations supplemental hereto apply, making it safe to modify, by making less stringent, the restrictions contained in any such regulations, he shall set forth and publish such finding in administrative instructions, specifying the manner in which the applicable regulation should be made less stringent, whereupon such modification shall become effective, for such period and for such regulated area or portion thereof as shall be specified in said administrative instructions, and every reasonable effort shall be made to give publicity to such administrative instructions throughout the affected areas.

RULES AND REGULATIONS

§ 301.48-1. *Definitions.*—For the purpose of these regulations the following words, names, and terms shall be construed, respectively, to mean:

(a) *Japanese beetle.*—The insect known as the Japanese beetle (*Popillia japonica* Newm.), in any stage of development.

(b) *Infested, infestation.*—The terms "infested," "infestation," and the like, relate to infestation with the Japanese beetle.

(c) *Quarantined area.*—Any State or District quarantined by the Secretary of Agriculture to prevent the spread of the Japanese beetle.

(d) *Regulated area*.—Any area in a quarantined State or District which is now, or which may hereafter be, designated as such by the Secretary of Agriculture in accordance with the provisos of § 301.48, as revised.

(e) *Fruits and vegetables*.—For the list of restricted fruits and vegetables see § 301.48-5.

(f) *Nursery and ornamental stock*.—Nursery, ornamental, and greenhouse stock, and all other plants, plant roots, cut flowers, or other portions of plants.

(g) *Sand, soil, earth, peat, compost, and manure*.—Sand, soil, earth, peat, compost, or manure of any kind and as to either bulk movement or in connection with farm products or nursery and ornamental stock.

(h) *Certified sand, soil, earth, peat, compost, and manure*.—Sand, soil, earth, peat, compost, or manure determined by the inspector as uninfested and so certified.

(i) *Certified greenhouse*.—A greenhouse or similar establishment which has complied to the satisfaction of the inspector with the conditions imposed in § 301.48-6. This term may apply also to potting beds, heeling-in areas, hotbeds, coldframes, or similar plots or to storage houses, packing sheds, or stores treated or otherwise safeguarded in manner and method satisfactory to the inspector.

(j) *Inspector*.—An inspector of the United States Department of Agriculture.

(k) *Moved interstate*.—Shipped, offered for shipment to a common carrier, received for transportation or transported by a common carrier, or carried, transported, moved, or allowed to be moved from one State or Territory or District of the United States into or through any other State or Territory or District.

(l) *Certificate*.—A valid form evidencing compliance with the requirements of these regulations as to movement of restricted articles to points outside the regulated areas.

(m) *Permit*.—A valid form authorizing movement of restricted articles from a regulated area to a restricted destination in a separate regulated area.

§ 301.48-2. *Limitation of restrictions to regulated areas*.—Conditioned upon the compliance on the part of the State concerned with the provisos to § 301.48, the restrictions provided in these regulations on the interstate movement of plants and plant products and other articles enumerated in said § 301.48 will be limited to such movement from the areas in such State now or hereafter designated by the Secretary of Agriculture as regulated areas.

§ 301.48-3. *Regulated areas*.—In accordance with the provisos to § 301.48, the Secretary of Agriculture of Agriculture designates as regulated areas for the purpose of these regulations the States, District, counties, townships, towns, cities, election districts, and magisterial districts listed below, including all cities, towns, boroughs, or other political subdivisions within their limits:

Connecticut.—The entire State.

Delaware.—The entire State.

District of Columbia.—The entire District.

Maine.—County of York; towns of Auburn and Lewiston, in *Androscoggin County*; towns of Cape Elizabeth, Gorham, Gray, New Gloucester, Raymond, Scarborough, Standish, and the cities of Portland, South Portland, Westbrook, and Windham, in *Cumberland County*; the city of Waterville, in *Kennebec County*; and the city of Brewer, in *Penobscot County*.

Maryland.—Counties of Baltimore, Caroline, Cecil, Harford, Howard, Kent, Montgomery, Queen Annes, Somerset, Talbot, Wicomico, and Worcester; the city of Baltimore; the city of Cumberland, the town of Frostburg, and election districts Nos. 4, 5, 6, 7, 11, 12, 14, 22, 23, 24, 26, 29, 31, and 32, in *Allegany County*; the city of Annapolis, and election districts Nos. 2, 3, 4, and 5, in *Anne Arundel County*; all of *Carroll County* except the election districts of Middleburg (No. 10), and Union Bridge (No. 12); election districts of La Plata (No. 1), Pomonkey (No. 7), and White Plains (No. 6), in *Charles County*; election districts of Cambridge (No. 7), Church Creek (No. 9), East New Market (No. 2), Fork (No. 1), Hurlock (No. 15), Vienna (No. 3), and Williamsburg (No. 12), in *Dorchester County*; election districts of Ballenger (No. 23), Braddock (No. 24), Brunswick (No. 25), Buckeystown (No. 1), Burkittsville (No. 22), Emmitsburg (No. 5), Frederick (No. 2), Hauvers (No. 10), Jefferson (No. 14), Middletown (No. 3), New Market (No. 9), Petersville (No. 12), Thurmont (No. 15), and Woodville (No. 18), in *Frederick County*; all of *Prince Georges County* except the election districts of Aquasco (No. 8), and Nottingham (No. 4); election districts of Boonesboro (No. 6), Cavetown (No. 7), Clear Spring (No. 4), Conococheague (No. 13), Funkstown (No. 10),

Hagerstown (Nos. 3, 17, 21, 22, 24, and 25), Halfway (No. 26), Leitersburg (No. 9), Ringgold (No. 14), Sandy Hook (No. 11), Sharpsburg (No. 1), and Williamsport (No. 2), in *Washington County*.

Massachusetts.—The entire State.

New Hampshire.—Counties of Belknap, Cheshire, Hillsboro, Merrimack, Rockingham, Strafford, and Sullivan; towns of Brookfield, Eaton, Effingham, Freedom, Madison, Moultonboro, Ossipee, Sandwich, Tamworth, Tuftonboro, Wakefield, and Wolfeboro, in *Carroll County*; towns of Alexandria, Ashland, Bridgewater, Bristol, Canaan, Dorchester, Enfield, Grafton, Groton, Hanover, Hebron, Holderness, Lebanon, Lyme, Orange, and Plymouth, in *Grafton County*.

New Jersey.—The entire State.

New York.—Counties of Albany, Bronx, Broome, Chemung, Chenango, Columbia, Cortland, Delaware, Dutchess, Fulton, Greene, Kings, Madison, Montgomery, Nassau, New York, Oneida, Onondago, Orange, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Suffolk, Sullivan, Tioga, Ulster, Washington, and Westchester; towns of Red House and Salamanca, and the city of Salamanca, in *Cattaraugus County*; city of Auburn and the towns of Fleming, Owasco, and Sennett, in *Cayuga County*; towns of Amherst, Cheektowaga, and Tonawanda, and the cities of Buffalo and Lackawanna, in *Erie County*; towns of Columbia, Danube, Fairfield, Frankfort, German Flats, Herkimer, Litchfield, Little Falls, Manheim, Newport, Salisbury, Schuyler, Stark, Warren, and Winfield, and the city of Little Falls, in *Herkimer County*; town of Watertown and city of Watertown, in *Jefferson County*; town of Mount Morris and village of Mount Morris, in *Livingston County*; city of Rochester and town of Brighton, in *Monroe County*; towns of Catherine, Cayuta, Dix, Hector, Montour, and Reading, and the borough of Watkins Glen, in *Schuyler County*; towns of Caton, Corning, Erwin, Hornby, and Hornellsville, and the cities of Corning and Hornell, in *Steuben County*; towns of Caroline, Danby, Dryden, Enfield, Ithaca, Newfield, and the city of Ithaca, in *Tompkins County*; towns of Luzerne and Queensbury and the city of Glens Falls, in *Warren County*.

Ohio.—Counties of Belmont, Carroll, Columbiana, Cuyahoga, Guernsey, Harrison, Jefferson, Mahoning, Medina, Portage, Stark, Summit, Tuscarawas, and Wayne; the city of Coshocton, in *Coshocton County*; the city of Columbus, and villages of Bexley, Grandview, Grandview Heights, Hanford, Marble Cliff, and Upper Arlington, in *Franklin County*; townships of Kirtland, Mentor, and Willoughby, and the villages of Kirtland Hills, Lakeline, Mentor, Mentor-on-the-Lake, Waite Hill, Wickliffe, Willoughby, and Willowick, in *Lake County*; the township of Newark and city of Newark, in *Licking County*; the city of Toledo, in *Lucas County*; the township of Madison and the city of Mansfield, in *Richland County*; townships of Bazetta, Braceville, Brookfield, Champion, Fowler, Hartford, Howland, Hubbard, Liberty, Lordstown, Newton, Southington, Warren, Weathersfield, and Vienna, the cities of Niles and Warren, and the villages of Cortland, Girard, Hubbard, McDonald, Newton Falls, and Orangeville, in *Trumbull County*.

Pennsylvania.—The entire State except the townships of Athens, Beaver, Bloomfield, Cambridge, Conneaut, Cussewago, East Fairfield, East Fallowfield, East Mead, Fairfield, Greenwood, Hayfield, North Shenango, Pine, Randolph, Richmond, Rockdale, Sadsbury, South Shenango, Spring, Steuben, Summerhill, Summit, Troy, Union, Venango, Vernon, Wayne, West Fallowfield, West Mead, West Shenango, and Woodcock, the boroughs of Blooming Valley, Cambridge Springs, Cochranton, Conneaut Lake, Conneautville, Geneva, Linesville, Saegertown, Springboro, Townville, Venango, and Woodcock, and the city of Meadville in *Crawford County*; the townships of Amity, Conneaut, Elk Creek, Fairview, Franklin, Girard, Greene, Greenfield, Harborcreek, Lawrence Park, Le Boeuf, McKean, North East, Springfield, Summit, Union, Venango, Washington, and Waterford, and the boroughs of Albion, Cranesville, East Springfield, Edinboro, Fairview, Girard, Middleboro, Mill Village, North East, North Girard, Platea, Union City, Waterford, Wattsburg, and Wesleyville, in *Erie County*; the townships of Deer Creek, Delaware, Fairview, French Creek, Greene, Hempfield, Lake, Mill Creek, New Vernon, Otter Creek, Perry, Pymatuning, Salem, Sandy Creek, Sandy Lake, South Pymatuning, Sugar Grove, and West Salem, and the boroughs of Clarksville, Fredonia, Greenville, Jamestown, New Lebanon, Sandy Lake, Sheakleyville, and Stoneboro, in *Mercer County*.

Rhode Island.—The entire State.

Vermont.—Counties of Bennington, Rutland, Windham, and Windsor; and the town of Burlington, in *Chittenden County*.

Virginia.—Counties of Accomac, Arlington, Culpeper, Elizabeth City, Fairfax, Fauquier, Henrico, Loudoun, Norfolk, Northampton, Prince William, Princess Anne, and Stafford; magisterial districts of Bermuda, Dale, Manchester and Matoaca, in *Chesterfield County*; town of Emporia, in *Greensville County*; magisterial district of Sleepy Hole, in *Nansemond County*; magisterial districts of Hampton, Jackson, and Wakefield, in *Rappahannock County*; magisterial district of Courtland, in *Spotsylvania County*; Camp Stuart, in *Warwick County*; magisterial district of Washington, in *Westmoreland County*; and the cities of Alexandria, Fredericksburg, Hampton, Newport News, Norfolk, Petersburg, Portsmouth, Richmond, South Norfolk, Suffolk, and Winchester.

West Virginia.—Counties of Brooke, Hancock, Harrison, Jefferson, Marion, Monongalia, Ohio, and Taylor; districts of Arden, Falling Waters, Hedgesville, and Opequon, and the city of Martinsburg, in *Berkeley County*; the city of Charleston, in *Kanawha County*; districts of Sand Hill, Union, Washington, and Webster, in *Marshall County*; town of Keyser and district of Frankfort, in *Mineral County*; and the city of Parkersburg, and districts of Lubeck and Tygart, in *Wood County*.

§ 301.48-4. *Extension or reduction of regulated areas.*—The regulated areas designated in § 301.48-3 may be extended or reduced as may be found advisable by the Secretary of Agriculture. Due notice of any extension or reduction and the areas affected thereby will be given in writing to the transportation companies doing business in or through the States in which such areas are located and by publication in one or more newspapers selected by the Secretary of Agriculture within the States in which the areas affected are located.

§ 301.48-5. *Restrictions on the movement of fruits and vegetables.* (a) *Control of movement.*—(1) Unless a certificate shall have been issued therefor, by an inspector, except as provided in subdivisions (i) to (iv), inclusive, of this section, no fruits or vegetables of any kind shall be moved interstate via refrigerator car, or motortruck, or in lot shipments of three pieces or more by common carrier, from any of the areas listed below to or through any point outside the regulated areas:

Delaware.—The entire State.

District of Columbia.—The entire District.

Maryland.—Counties of Cecil, Harford, Kent, Queen Annes, Somerset, and Worcester; election district No. 5 in *Anne Arundel County*; the city of Baltimore; all of *Baltimore County* except election districts Nos. 4, 5, 6, and 7; all of *Caroline County* except election districts of American Corners (No. 8), and Hillsboro (No. 6); election districts of Cambridge (No. 7), East New Market (No. 2), Hurlock (No. 15), and Williamsburg (No. 12) in *Dorchester County*; election districts of Elk Ridge (No. 1) and Ellicott City (No. 2), in *Howard County*; election districts of Camden (No. 13), Delmar (No. 11), Dennis (No. 6), Fruitland (No. 16), Nutters (No. 8), Parsons (No. 5), Pittsburg (No. 4), Salisbury (No. 9), and the town of Salisbury, Trappe (No. 7), and Willard (No. 14), in *Wicomico County*.

New Jersey.—Counties of Atlantic, Burlington, Camden, Cape May, Cumberland, Essex, Gloucester, Hudson, Hunterdon, Mercer, Middlesex, Monmouth, Ocean, Salem, Somerset, and Union; townships of Lodi, Lyndhurst, Overpeck, Rochelle Park, Saddle River, and Teaneck, the cities of Englewood, Garfield, and Hackensack, and the boroughs of Bogota, Carlstadt, Cliffside Park, East Paterson, East Rutherford, Edgewater, Englewood Cliffs, Fair Lawn, Fairview, Fort Lee, Glenn Rock, Hasbrouck Heights, Leonia, Little Ferry, Lodi, Maywood, Moonachie, North Arlington, Palisades Park, Ridgefield, Rutherford, Teterboro, Wallington, and Wood Ridge, in *Bergen County*; townships of Chatham, Chester, Denville, East Hanover, Hanover, Harding, Menham, Morris, Morristown, Parsippany-Troy Hills, Passaic, Randolph, and Washington, and the boroughs of Chatham, Florham Park, Madison, Mendham, and Merris Plains, in *Morris County*; township of Little Falls, the cities of Clifton, Passaic, Paterson, and the boroughs of Haledon, Hawthorne, North Haledon, Prospect Park, Totowa, and West Paterson, in *Passaic County*; townships of Franklin, Greenwich, Lopatcong, Mansfield, Phillipsburg, Pohatcong, and Washington, and the boroughs of Alpha and Washington, in *Warren County*.

Pennsylvania.—Counties of Bucks, Chester, Delaware, Lancaster, Montgomery, and Philadelphia; townships of Alsace, Amity, Bern, Brecknock, Caernarvon, Colebrookdale, Cumru, District, Douglass, Earl, Exeter, Hereford, Longswamp, Lower Alsace, Maiden creek, Maxatawny, Muhlenberg, Oley, Ontelaunee, Pike, Richmond, Robeson, Rockland, Ruscombmanor, South Heidelberg, Spring, Union,

and Washington, the city of Reading, and the boroughs of Bally, Bechtelsville, Birdsboro, Boyertown, Fleetwood, Kutztown, Lyons, Mohnton, Mount Penn, Saint Lawrence, Shillington, Sinking Spring, Temple, Topton, West Lawn, West Reading, Wyomissing, and Wyomissing Hills, in *Berks County*; township of Lower Allen, and borough of New Cumberland, in *Cumberland County*; townships of Londonderry, Lower Paxton, Lower Swatara, Susquehanna, and Swatara, the city of Harrisburg, and the boroughs of Highspire, Middletown, Paxtang, Penbrook, Royaltown, and Steelton, in *Dauphin County*; townships of Hanover, Lower Macungie, Lower Milford, Salisbury, South Whitehall, Upper Macungie, Upper Milford, Upper Saucon, and Whitehall, the city of Allentown, and the boroughs of Alburtis, Catasauqua, Coopersburg, Coplay, Emaus, Fountain Hill, and Macungie, in *Lehigh County*; townships of Forks, Hanover, Lower Nazareth, Lower Saucon, Palmer, and Williams, the cities of Bethlehem, and Easton, and the boroughs of Glendon, Tatamy, West Easton, and Wilson in *Northampton County*; townships of Chanceford, Conewago, East Hopewell, East Manchester, Fairview, Fawn, Hellam, Hopewell, Lower Chanceford, Lower Windsor, Newberry, and Peach Bottom, and the boroughs of Cross Roads, East Prospect, Fawn Grove, Goldsboro, Hallam, Lewisberry, Manchester, Mount Wolf, Stewartstown, Wrightsville, Yorkana, and York Haven, in *York County, Virginia*.—Counties of Accomac, Arlington, and Northampton.

Provided, That shipments of fruits and vegetables moving interstate from the area specified in paragraph (a) (1) of this section to other points in the regulated area and subsequently diverted to points outside the regulated area, shall be regarded as direct shipments from the point of origin. As such they require certification:

Provided further, That the Chief of the Bureau of Entomology and Plant Quarantine may by administrative instructions extend or reduce the areas specified in this section when in his judgment such action is considered advisable.

(i) No restrictions are placed on the interstate movement of fruits and vegetables between October 16 and June 14, inclusive, except that in the case of movement interstate from the following areas, the exemption applies only during the period from October 16 to May 31, inclusive:

Virginia.—The counties of Accomac and Northampton.

(ii) No certificate or permit will be required for the interstate movement of fruits and vegetables when transported by a common carrier on a through bill of lading either from a point outside the area designated in this section through that area to another outside point, or from the area designated in this section through a nonregulated area to another regulated area, except that a certificate is required for interstate movement from the area specified in paragraph (a) (1) of this section to Toledo, Ohio, and Winchester, Va.

(iii) No restrictions are placed on the interstate movement of fruits and vegetables when they shall have been manufactured or processed in such a manner that in the judgment of the inspector no infestation could be transmitted.

(iv) No restrictions are placed on the interstate movement of fruits and vegetables from the area listed in paragraph (a) (1) of this section to the remainder of the regulated area, other than as specified in subdivision (ii) of this section.

(b) *Conditions of certification*.—Certificates may be issued for the interstate movement of fruits and vegetables between June 15 and October 15, inclusive (or between June 1 and October 15, inclusive, when consigned from Accomac County or Northampton County, Va.) under one of the following conditions:

(1) When the fruits and vegetables moving by motortruck or in lot shipments of three pieces or more by common carrier, have actually been inspected by the United States Department of Agriculture and found free from infestation. The number of inspection points for such certification will be limited and their location determined by shipping needs and further conditioned on the establishment at such points of provisions satisfactory to the inspector for the handling and safeguarding of such shipments during inspection. Such inspection may be discontinued and certification withheld by the inspector during periods of general or unusual flight of the beetles.

(2) When the fruits and vegetables have been handled or treated under the observation of an inspector in manner and by method to free them from any infestation.

(3) When the fruits and vegetables have originated outside the areas designated in this section, and are to be reshipped directly from freight yards, transfer points, or unloading docks within such areas, under provisions satisfactory to the inspector for safeguarding of such shipments pending certification and reshipment. Certificates on this basis will be issued without inspection only in cases where, in the judgment of the inspector, the shipments concerned have not been exposed to infestation while within such freight yards, transfer points, or unloading docks.

(4) When the fruits and vegetables were grown in districts where the fact has been established to the satisfaction of the inspector that no infestation exists and are to be shipped directly from the farms where grown to points outside the areas designated in paragraph (a) (1) of this section, or are shipped from infested districts where the fact has been established to the satisfaction of the inspector that the Japanese beetle has not begun or has ceased its flight.

(5) When the fruits and vegetables moving via refrigerator car from the area designated in this section have been inspected and loaded in a manner to prevent infestation, in a refrigerator car with closed or adequately screened doors and hatches, which car prior to loading has been determined by an inspector as fumigated or thoroughly swept and cleaned by the common carrier in a manner to rid it of infestation. During the interval between fumigation or cleaning and loading, such refrigerator car must be tightly closed and sealed. (For further requirements on the cleaning of refrigerator cars, see § 301.48-13.)

(6) When the fruits and vegetables moving via refrigerator car from the area designated in this section have been fumigated in the car, when deemed necessary in the judgment of the inspector, and when the doors and hatches of the car have been tightly closed or adequately screened under the supervision of an inspector.

§ 301.48-6. *Restrictions on the movement of nursery and ornamental stock.*

(a) *Control of movement.*—Nursery and ornamental stock as defined in § 301.48-1 shall not be moved interstate from the regulated areas to or through any point outside thereof, unless a certificate or permit shall have been issued therefor by the inspector except as follows:

(1) The following articles, because of their growth or production, or their manufactured or processed condition, are considered innocuous as carriers of infestation and are therefore exempt from the requirements of certification:

(i) True bulbs, corms, and tubers, when dormant, except for storage growth, and when free from soil; and single dahlia tubers or small dahlia root divisions when free from stems, cavities, and soil. Dahlia tubers, other than single tubers or small root divisions meeting these conditions, require certification.

(ii) Cut orchids; orchid plants when growing exclusively in *Osmunda* fiber; *Osmunda* fiber, *Osmundine*, or orchid peat (*Osmunda cinnamomea* and *O. claytoniana*).

(iii) (a) Floral designs or "set pieces," including wreaths, sprays, basket covers, and all formal florists' designs; bouquets and cut flowers not so prepared are not exempted; (b) trailing arbutus, or Mayflower (*Epigaea repens*), when free from soil, and when shipped during the period between October 16 and June 14, inclusive.

(iv) (a) Herbarium specimens, when dried, pressed, and treated, and when so labeled on the outside of each container of such materials; (b) mushroom spawn, in brick, flake, or pure culture form.

(v) (a) Sheet moss (*Calliergon schriberi* and *Thuridium recognitum*); (b) resurrection plant or bird's-nest moss (*Selaginella lepidophylla*); (c) sphagnum moss, bog moss, or peat moss (Sphagnaceae); (d) dyed moss, when heat treated and appropriately labeled.

(vi) Soil-free, dried roots incapable of propagation, when appropriately labeled.

(2) No restrictions are placed on the interstate movement of nursery and ornamental stock imported from foreign countries when reshipped from the port of entry in the unopened original container and labeled as to each container with a copy certificate of the country from which it was exported, a statement of the general nature and quantity of the contents, the name and address of the consignee, and the country and locality where grown.

(3) No restrictions are placed on the interstate movement of soil-free aquatic plants, and of portions of plants without roots and free from soil, except that a certificate is required for the movement of cut flowers during the period June 15 to October 15, inclusive.

(4) No certificate or permit will be required for the interstate movement of nursery and ornamental stock when transported by a common carrier on a through bill of lading either from an area not under regulation through a regulated area, or from a regulated area through a nonregulated area to another regulated area, except that a certificate is required between June 15 and October 15, inclusive, for interstate movement of cut flowers from the main regulated areas to the following-named isolated points: Brewer and Waterville, Maine; Brighton, Buffalo, Hornell, Mount Morris, Rochester, and Watertown, and the town of Hornellsville, Steuben County, N. Y.; or to other regulated parts of Erie, Jefferson, and Livingston Counties, N. Y.; Columbus, Coshocton, Mansfield, Newark, and Toledo, Ohio, or to other regulated parts of Licking and Richland Counties, Ohio; Corry and Erie, Pa.; Burlington, Vt.; Winchester, Va.; and Charleston and Parkersburg, W. Va. No restrictions are placed on the interstate movement of cut flowers from the above-named isolated points.

(b) *Conditions governing the issuance of certificates and permits.*—For the purpose of certification of nursery and ornamental stock, nurseries, greenhouses, and other premises concerned in the movement of such stock will be classified as follows:

(1) *Class I.* Nurseries, greenhouses, and other premises concerned in the movement of nursery and ornamental stock on or within approximately 500 feet of which no infestation has been found may be classified as class I. Upon compliance with the requirements of paragraph (b) (7) of this section, nursery and ornamental stock may be certified by the inspector for shipment from such premises without further inspection, and without meeting the safeguards prescribed as a condition of interstate shipment of plants originating in nurseries or greenhouses of class III.

(2) *Class III.* (i) Nurseries, greenhouses, and other premises concerned in the movement of nursery and ornamental stock on which either grubs in the soil or one or more beetles have been found, will be classified as class III, provided (a) there are maintained on the premises subdivided class I areas, certified houses, frames, or plots or other certified areas, or (b) there is a legitimate need for interstate or intradealer certification of such stock. Such classification will not be granted to nurseries, greenhouses, and other premises that do not maintain certified or subdivided areas and require only infrequent certification. Such classification also may be given to nurseries, etc., where one or more beetles or grubs are found in the immediate proximity (within approximately 500 feet) of such nurseries, etc., on adjacent property or properties. In the case of nursery properties under single ownership and management but represented by parcels of land widely separated, such parcels may be independently classified either as class I or class III upon compliance with such conditions and safeguards as shall be required by the inspector. Similarly, unit nursery properties, which would otherwise fall in class III, may be open to subdivision, for the purpose of rating such subdivisions in classes I or III, when in the judgment of the inspector such action is warranted by scanty infestation limited to a portion of the nursery concerned: *Provided*, That the subdivision containing the infestation shall be clearly marked by boundaries of a permanent nature which shall be approximately 500 feet beyond the point where the infestation occurs.

(ii) Upon compliance with paragraphs (b) (3), (6), and (7) of this section, nursery and ornamental stock may be certified by the inspector for shipment from such premises under any one of the following conditions: (a) That the roots shall be treated by means approved by the Bureau of Entomology and Plant Quarantine in manner and by method satisfactory to the inspector; or (b) in the case of plants in which the root system is such that a thorough inspection may be made, that the soil shall be entirely removed from the stock by shaking or washing; or (c) that it shall be shown by evidence satisfactory to the inspector that the plants concerned were produced in a certified greenhouse.

(3) Greenhouses of class III may be certified upon compliance with all the following conditions with respect to the greenhouses themselves and to all potting beds, heeling-in areas, hotbeds, coldframes, and similar plots:

(i) Ventilators, doors, and all other openings in greenhouses or coldframes on premises in class III shall be kept screened in manner satisfactory to the inspector during the period of flight of the beetle, namely, south of the northern boundaries of Maryland and Delaware between June 1 and October 1, inclusive, or north thereof between June 15 and October 15, inclusive.

(ii) Prior to introduction into nurseries or greenhouses, sand, if contaminated with vegetable matter, soil, earth, peat, compost, or manure taken from infested locations or which may have been exposed to infestation, must be sterilized or fumigated under the direction and supervision of, and in manner and by method satisfactory to the inspector. If such sand, soil, earth, peat, compost, or manure is not to be immediately used in such greenhouses, it must be protected from possible infestation in manner and by method satisfactory to the inspector.

(iii) All potted plants placed in certified greenhouses of class III and all potted plants to be certified for interstate movement therefrom (a) shall be potted in certified soil; (b) shall, if grown outdoors south of the northern boundaries of Maryland and Delaware at any time between June 1 and October 1, inclusive, or north thereof at any time between June 15 and October 15, inclusive, be kept in screened frames while outdoors; (c) shall, if grown outdoors during any part of the year, be placed in beds in which the soil or other material shall have been treated in manner and by method approved by the Bureau of Entomology and Plant Quarantine to eliminate infestation; and (d) shall comply with such other safeguards as may be required by the inspector.

(4) Cut flowers may be certified for movement either (i) when they have been inspected by an inspector and found free from infestation, or (ii) when they have been grown in a greenhouse of class I or in a certified greenhouse of class III and are transported under such safeguards as will in the judgment of the inspector prevent infestation. (See also paragraph (a) (3) of this section.)

(5) Nursery and ornamental stock originating on or moved from unclassified premises may be certified by the inspector under either one of the following conditions: (i) That the soil shall be entirely removed from the stock, or (ii) that the roots shall be treated by means approved by the Bureau of Entomology and Plant Quarantine in manner and by method satisfactory to the inspector, or (iii) that it shall be shown by evidence satisfactory to the inspector that the accompanying soil was obtained at such points and under such conditions that in his judgment no infestation could exist therein.

(6) Nurserymen, florists, dealers, and others, in order to maintain a class III status shall report immediately on forms provided for that purpose all their sales or shipments of nursery and ornamental stock, sand, if contaminated with vegetable matter, soil, earth, peat, compost, and manure both to points outside the regulated areas and to other classified nurseries or greenhouses within the regulated area. Certification may be denied to any person who has omitted to make the report required by this section, and such denial of certification shall continue until the information so omitted has been supplied.

(7) Nurserymen, florists, dealers, and others, in order to maintain a class I status, or to maintain in a class III establishment, a class I subdivision, a certified plot, or a certified greenhouse, (i) shall restrict their purchases or receipts of nursery and ornamental stock, sand, if contaminated with vegetable matter, soil, earth, peat, compost, and manure, secured within the regulated area and intended for use on class I or certified premises, to articles which have been certified under these regulations as to each such article and the said certificate shall accompany the article when moved; (ii) shall obtain approval of the inspector before such articles are received on class I or certified premises or are taken into certified greenhouses; (iii) shall report immediately in writing all purchases or receipts of such articles secured from within the regulated area for use on such premises; and (iv) shall also report immediately on forms provided for that purpose all their sales or shipments of such articles both to points outside the regulated areas and to other classified nurseries or greenhouses within the regulated areas. Certification may be denied to any person who has omitted to make the report or reports required by this section, and such denial of certification shall continue until the information so omitted has been supplied.

(8) Nursery and ornamental stock imported from foreign countries and not reshipped from the port of entry in the unopened original container may be certified for movement under these regulations when such stock has been inspected by an inspector and found free from infestation.

(9) Nursery and ornamental stock originating outside the regulated areas and certified stock originating in classified nurseries or greenhouses may be

certified for reshipment from premises other than those on which they originated, under provisions satisfactory to the inspector for the safeguarding of such stock from infestation at the point of reshipment and en route and when found advisable by the inspector after reinspection and determination of freedom from infestation.

§ 301.48-7. *Restrictions on the movement of sand, soil, earth, peat, compost, and manure.* (a) *Control of movement.*—Sand, soil, earth, peat, compost, and manure shall not be moved interstate from any point in the regulated areas to or through any point outside thereof unless a certificate or permit shall have been issued therefor by the inspector, except as follows:

(1) No restrictions are placed on the interstate movement of (i) sand and clay when free from vegetable matter; (ii) greensand marl; and (iii) such other sands and clays as have been treated or processed and subsequently handled in such manner that in the judgment of the inspector no Japanese beetle could exist therein, provided that each container of such article shall be labeled on the outside thereof as to nature of contents, except that in the case of bulk shipments such label shall accompany the waybill or other shipping papers.

(2) No restrictions are placed on the interstate movement of manure, peat, compost, or humus (i) when dehydrated, shredded, ground, pulverized, or compressed, or (ii) when treated with crude petroleum or any other product having high potency as an insecticide, and when so labeled on the outside of each commercial container of such materials.

(3) No restrictions are placed on the interstate movement of sand, soil, earth, peat, compost, and manure imported from foreign countries when reshipped from the port of entry in the unopened original container and labeled as to each container with the country of origin, and when the shipment is further protected in manner or method satisfactory to the inspector.

(4) No certificate will be required for the interstate movement of sand, soil, earth, peat, compost, and manure when transported by a common carrier on a through bill of lading either from an area not under regulation through a regulated area, or from a regulated area through a nonregulated area to another regulated area.

(b) *Conditions of certification.* Certificates for the movement of restricted sand, soil, earth, peat, compost, and manure may be issued under any one of the following conditions:

(1) When the articles to be moved have originated in districts included in the regulated area, but in which neither beetles nor grubs in soil have been found.

(2) When the material consists of fresh manure or of mined, dredged, or other similar materials, and it has been determined by an inspector that no infestation could exist therein.

(3) When the material has been removed, under the supervision of an inspector, from a depth of more than 12 inches below the surface of the ground and either (i) is to be moved between October 16 and June 14, inclusive, or (ii) is loaded and shipped at points where it has been determined by an inspector that no general infestation of adult beetles exists, or (iii) when the cars and loading operations are protected by screening under the direction of and in manner and by method satisfactory to the inspector.

(4) When the material has been fumigated with carbon disulphide or otherwise treated under the supervision of and in manner and by method satisfactory to the inspector. Such fumigation or treatment will be required as a condition of certification of all restricted sand, soil, earth, peat, compost, and manure, except such as is loaded and shipped in compliance with paragraphs (b) (1), (2), or (3) hereof.

§ 301.48-8. *Conditions governing the protection of restricted articles from infestation while in transit.*—Fruits and vegetables, nursery and ornamental stock, and sand, soil, earth, peat, compost, and manure, moving interstate from or through the regulated areas to points outside thereof between June 15 and October 15, inclusive, shall at all times while they are in the regulated areas be screened, covered, or otherwise protected in manner or method satisfactory to the inspector for safeguarding the articles from infestation.

Trucks or other road vehicles transporting restricted articles may be sealed by the inspector at the point of inspection, and all such seals shall remain intact as long as the vehicle is en route within the regulated area.

§ 301.48-9. *Marking and certification a condition of interstate transportation.*—(a) Every box, basket, or other container of restricted articles listed in §§ 301.48-5, 6, and 7 shall be plainly marked with the name and address of the consignor and the name and address of the consignee, and shall have securely attached to the outside thereof a valid certificate or permit issued in compliance with these regulations. In the case of lot shipments by freight, one certificate attached to one of the containers and another certificate attached to the waybill will be sufficient.

(b) In the case of bulk carload shipments by rail, the certificate shall accompany the waybill, conductor's manifest, memorandum, or bill of lading pertaining to such shipment, and in addition each car shall have securely attached to the outside thereof a placard showing the number of the certificate or certificates accompanying the waybill.

(c) In the case of shipment by road vehicle, the certificates shall accompany the vehicle.

(d) Certificates shall be surrendered to the consignee upon delivery of the shipment.

§ 301.48-10. *General conditions governing inspection and issuance of certificates and permits.*—(a) Persons intending to move interstate any of the articles the movement of which is restricted in §§ 301.48-5, 6, and 7, shall make application for inspection and certification as far as possible in advance of the probable date of shipment, specifying in the application the article and quantity to be shipped, method of shipment, name and address of the consignor, and name and address of the consignee.

(b) Applicants for inspection will be required to assemble the articles at such points as the inspector shall designate and so to place them that inspection may readily be made; if not so placed, inspection may be refused. All charges for storage, cartage, and labor incident to inspection, other than the services of the inspector, shall be paid by the shipper.

(c) Certificates and permits shall be used in connection with the transportation of only those articles intended to be covered thereby.

(d) Where the apparent absolute freedom from infestation of any of the articles enumerated cannot be determined by the inspector, certification will be refused.

(e) Permits may be issued for the interstate movement from a regulated area through a nonregulated area to another regulated area, via truck or other road vehicle, of articles the interstate movement of which is restricted in §§ 301.48-6 and 7.

§ 301.48-11. *Cancellation of certificates.*—Certificates issued under these regulations may be withdrawn or canceled by the inspector and further certification refused, either for any failure of compliance with the conditions of these regulations or violation of them, or whenever in the judgment of the inspector the further use of such certificates might result in the dissemination of infestation.

§ 301.48-12. *Inspection in transit.*—Any car, vehicle, basket, box, or other container moved interstate or offered to a common carrier for shipment interstate, which contains or which the inspector has probable cause to believe contains either infestations, infested articles, or articles the movement of which is restricted by these regulations, shall be subject to inspection by an inspector at any time or place, and when actually found to involve danger of dissemination of Japanese beetle to uninfested localities, measures to eliminate infestation may be required as a condition of further transportation or delivery.

§ 301.48-13. *Thorough cleaning required of trucks, wagons, cars, boats, and other vehicles and containers before moving interstate.*—Trucks, wagons, cars, boats, and other vehicles and containers which have been used in transporting any article covered by these regulations within the regulated areas shall not thereafter be moved interstate until they have been thoroughly swept and cleaned by the carrier at a point within the regulated area. Refrigerator cars originating in the area designated in § 301.48-5 into which fruits or vegetables are to be loaded for interstate movement from any regulated area shall be thoroughly swept or cleaned or fumigated prior to loading as may be required by the inspector.

§ 301.48-14. *Shipments for experimental and scientific purposes.*—Articles subject to restriction in these regulations may be moved interstate for experimental or scientific purposes, on such conditions and under such safeguards as may be prescribed by the Bureau of Entomology and Plant Quarantine. The container of articles so moved shall bear, securely attached to the outside thereof, an identify-

ing tag from the Bureau of Entomology and Plant Quarantine showing compliance with such conditions.

Done at Washington, D. C., this 8th day of February 1941.

Witness my hand and the seal of the United States Department of Agriculture.

CLAUDE R. WICKARD,
Secretary of Agriculture.

APPENDIX

PENALTIES

The Plant Quarantine Act of August 20, 1912, as amended (7 U. S. C. 161), provides that no person shall ship or offer for shipment to any common carrier, nor shall any common carrier receive for transportation or transport, nor shall any person carry or transport, from any quarantined State or Territory or District of the United States, or from any quarantined portion thereof, into or through any other State or Territory or District, any class of nursery stock or any other class of plants, fruits, vegetables, roots, bulbs, seeds * * * or any other article * * * specified in the notice of quarantine * * * in manner or method or under conditions other than those prescribed by the Secretary of Agriculture. It also provides that any person who shall violate any of the provisions of this act, or who shall forge, counterfeit, alter, deface, or destroy any certificate provided for in this act or in the regulations of the Secretary of Agriculture shall be deemed guilty of a misdemeanor and shall, upon conviction thereof, be punished by a fine not exceeding \$500, or by imprisonment not exceeding 1 year, or both such fine and imprisonment, in the discretion of the court.

STATE AND FEDERAL INSPECTION

Certain of the quarantined States have promulgated or are about to promulgate quarantine regulations restricting intrastate movement supplemental to the Federal quarantine. These State regulations are enforced in cooperation with the Federal authorities. Copies of either the Federal or State quarantine orders may be obtained by addressing the United States Department of Agriculture, 266 Glenwood Avenue, Bloomfield, N. J.

Subsidiary offices are maintained at the following locations:

Connecticut: Agricultural Experiment Station, 123 Huntington Street, New Haven, Conn.

Delaware: Room 210, New Post Office Building, Dover, Del.

Maryland:

Room 306, Post Office Building, Calvert and Fayette Streets, Baltimore, Md.

Japanese Beetle Inspection, Plant Introduction Garden, Glenn Dale, Md.

Washington County Annex Building, Hagerstown, Md.

Room 202, New Post Office Building, Main Street, Salisbury, Md.

Massachusetts: 144 Moody Street, Waltham, Mass.

New Jersey:

Kotler Building, Main and High Streets, Glassboro, N. J.

P. O. Box 1, Trenton, N. J., or Yardville Road, White Horse, N. J.

New York:

Room 838, 641 Washington Street, New York, N. Y.

Room 200, 2507 James Street, Syracuse, N. Y.

Ohio: 21065 Euclid Avenue, Euclid, Ohio.

Pennsylvania:

Room 303, Post Office Building, Harrisburg, Pa.

6905 Torresdale Avenue, Philadelphia, Pa.

Room 438-K, New Post Office Building, Pittsburgh, Pa.

Virginia:

Room 217, New Federal Building, Granby Street and Brambleton Avenue, Norfolk, Va.

17 North Boulevard, Richmond, Va.

West Virginia:

County Agent's Office, Courthouse Building, Clarksburg, W. Va.

Arrangements may be made for inspection and certification of shipments from the District of Columbia by calling Republic 4142, branch 2598, inspection house of the Bureau of Entomology and Plant Quarantine, 224 Twelfth Street SW., Washington, D. C.

GENERAL OFFICES OF STATES COOPERATING

Department of Entomology, Agricultural Experiment Station, New Haven, Conn.

Board of Agriculture, Dover, Del.

State horticulturist, Augusta, Maine.

Department of Entomology, University of Maryland, College Park, Md.

Division of Plant Pest Control, Department of Agriculture, Statehouse, Boston, Mass.

Deputy commissioner, Department of Agriculture, Durham, N. H.

Bureau of Plant Industry, Department of Agriculture, Trenton, N. J.

Bureau of Plant Industry, Department of Agriculture and Markets, Albany, N. Y.

Division of Plant Industry, Department of Agriculture, Columbus, Ohio.

Bureau of Plant Industry, Department of Agriculture, Harrisburg, Pa.

Bureau of Entomology, Department of Agriculture, Statehouse, Providence, R. I.

Entomologist, Department of Agriculture, Montpelier, Vt.

Division of Plant Industry, Department of Agriculture and Immigration, Richmond, Va.

State entomologist, Department of Agriculture, Charleston, W. Va.

[Copies of the foregoing revision were sent to all common carriers doing business in or through the quarantined area.]

[Filed with the Division of the Federal Register February 10, 1941, 3:09 p. m.; 6 F. R., 909.]

NOTICE TO GENERAL PUBLIC THROUGH NEWSPAPERS

UNITED STATES DEPARTMENT OF AGRICULTURE,
Washington, D. C., February 8, 1941.

Notice is hereby given that the Secretary of Agriculture, under authority conferred on him by the Plant Quarantine Act of August 20, 1912, as amended (7 U. S. C. 161), has promulgated a revision of the Japanese beetle quarantine (Notice of Quarantine No. 48) and the regulations supplemental thereto, effective on and after February 12, 1941. New areas brought within the regulated areas include parts or all of the following counties: Baltimore, Carroll, Charles, Dorchester, Frederick, Howard, Montgomery, Washington, and Wicomico, Md.; Cayuga, N. Y.; Butler, Crawford, Erie, Forest, Mercer, Venango, and Warren, Pa.; Chesterfield, Greensville, and Rappahannock, Va.; Marshall and Ohio, W. Va. Also the cities of Petersburg and Winchester, Va. The area from which the movement of fruits and vegetables is regulated (regulation 5), has been extended to include additional areas in Baltimore and Howard Counties, Md., and Berks, Lehigh, Northampton, and York Counties, Pa., and to bring in part of Cumberland County, Pa. Metropolitan New York localities and adjoining area in Fairfield County, Conn., are no longer included in this special area. There are modifications with reference to fruit and vegetable shipments to isolated points, and requirements as to certification of bananas, and other changes. Copies of the revised regulations may be obtained from the Bureau of Entomology and Plant Quarantine, United States Department of Agriculture, Washington.

CLAUDE R. WICKARD,
Secretary of Agriculture.

[Published in the following newspapers: The Press, Cleveland, Ohio, February 19, 1941; the Gazette, Charleston, W. Va., February 19, 1941; the News Leader, Richmond, Va., February 18, 1941; the Free Press, Burlington, Vt., February 19, 1941; the Bulletin, Philadelphia, Pa., February 18, 1941; the Times, New York, N. Y., February 19, 1941; the News, Newark, N. J., February 19, 1941; the Union-Leader, Manchester, N. H., February 19, 1941; the Post, Boston, Mass., February 20, 1941; the Sun, Baltimore, Md., February 19, 1941; the Press-Herald, Portland, Maine, February 19, 1941; the Journal-Every Evening, Wilmington, Del., February 18, 1941; the Bulletin, Providence, R. I., February 19, 1941; the Times, Hartford, Conn., February 18, 1941; and the Evening Star, Washington, D. C., February 19, 1941.]

ANNOUNCEMENTS RELATING TO MEXICAN FRUITFLY QUARANTINE (NO. 64)

FRUITFLY QUARANTINE MODIFIED TO EXTEND VALENCIA ORANGE HARVEST IN TEXAS AREA

(Press notice)

JANUARY 10, 1941.

To provide for more orderly marketing of this year's large crop of Valencia oranges in Brooks, Willacy, Cameron, and Hidalgo Counties, Tex., the United States Department of Agriculture today announced the extension of the harvest season to May 31, from April 30, the date set in the Department's Mexican fruitfly quarantine regulations. These regulations require a fruit-free period between harvests to prevent fruitfly infestations in the lower Rio Grande Valley. April 30 had been set as the date when all citrus fruit must be off the trees. It remains the date for the closing of the grapefruit harvest season.

Lee A. Strong, Chief of the Bureau of Entomology and Plant Quarantine, said that extension of the harvesting season for Valencia oranges will not increase the hazard of fruitfly infestation in the United States. Valencia oranges are not preferred hosts of the fruitfly and seldom are infested by it. Plant quarantine inspectors will make an extensive inspection of the groves during the extra month the oranges are allowed to remain on the trees. Should this inspection reveal any fruitfly infestation, Dr. Strong said, steps necessary to prevent its dissemination through interstate movement of the fruit will be taken.

The extension was announced after consultation with the Texas State Department of Agriculture, which concurred. Quarantine officials of the State Department of Agriculture of Texas and of the United States Department of Agriculture count on the cooperation of growers and packers that has been extended in the past.

B. E. P. Q. 512

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301. DOMESTIC QUARANTINE NOTICES

ADMINISTRATIVE INSTRUCTIONS MODIFYING THE RESTRICTIONS OF THE MEXICAN FRUITFLY QUARANTINE BY EXTENDING THE HARVESTING SEASON ON VALENCIA ORANGES FROM APRIL 30 TO MAY 31, 1941

§ 301.64-5c *Administrative instructions; modifying the restrictions of the Mexican fruitfly quarantine by extending the harvesting season on Valencia oranges from April 30 to May 31, 1941.* Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by the third proviso of Section 301.64, Chapter III, Title 7, Code of Federal Regulations [Notice of Quarantine No. 64], it having been determined by me that a modification may be safely made without increasing the risk of spread of the Mexican fruitfly, Section 301.64-5(a) [subsection (a) of regulation 5 supplemental to this quarantine] is hereby modified to extend the harvesting season for Valencia oranges for the Texas Counties of Brooks, Willacy, Cameron, and Hidalgo to the close of May 31 for the year 1941, provided conditions of infestation do not necessitate an earlier closing date.

The host-free period for Valencia oranges, under this modification, will begin June 1 and continue to August 31, 1941, inclusive.

This modification does not affect or alter the harvesting season for grapefruit which closes, under the conditions of the above regulation, on April 30.

Done at Washington, D. C., this 30th day of December 1940.

LEE A. STRONG,

Chief, Bureau of Entomology and Plant Quarantine.

ANNOUNCEMENTS RELATING TO WHITE-FRINGED BEETLE
QUARANTINE (NO. 72)

B. E. P. Q. 485, Seventh Revision.

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301.—DOMESTIC QUARANTINE NOTICES

WHITE-FRINGED BEETLE

ADMINISTRATIVE INSTRUCTIONS—REMOVAL OF CERTIFICATION REQUIREMENTS
FOR SPECIFIED ARTICLES FOR A LIMITED PERIOD

§ 301.72a. *Administrative instructions; removal of certification requirements for specified articles for a limited period.* (a) Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by the second proviso of § 301.72, Chapter III, Title 7, Code of Federal Regulations [Notice of Quarantine No. 72, on account of the white-fringed beetle], all certification requirements are hereby waived during the period specified below for the following articles enumerated in § 301.72-3 [regulation 3] when free from soil and when sanitation practices are maintained to the satisfaction of the inspector.

(1) When moved interstate from any regulated area, certification requirements are waived from February 1, 1941, until May 1, 1941, for potatoes and sweetpotatoes.

(2) When moved interstate from any regulated area, certification requirements are waived from February 1, 1941, until June 1, 1941, for the following articles:

Bird sand and bird gravel in packages of 5 pounds or less.

Ground peat in amounts not to exceed 5 pounds per package.

Orchid plants growing exclusively in *Osmunda* fiber.

Osmunda fiber (commonly known as *Osmundine*, or orchid peat).

It has been determined that the methods under which such articles and materials are produced and handled, or the application of control measures and the maintenance of sanitation practices, eliminate risk of spread of the white-fringed beetle, thereby justifying the removal of certification requirements as set forth above.

(b) Except as specified in paragraphs (1) and (2) above, all soil, earth, sand, clay, peat, compost, and manure whether moved independent of, or in connection with or attached to nursery stock, plants, products, articles, or things, shall remain under the restrictions of § 301.72-3 [Regulation 3] throughout the year.

This revision supersedes all previous issues of circular B. E. P. Q. 485.

Done at Washington, D. C., this 24th day of January 1941.

LEE A. STRONG,

Chief, Bureau of Entomology and Plant Quarantine.

[Filed with the Division of the Federal Register January 28, 1941, 11:23 a. m.;
6 F. R., 645.]

INSTRUCTIONS TO POSTMASTERS

POST OFFICE DEPARTMENT,
THIRD ASSISTANT POSTMASTER GENERAL,
Washington, February 5, 1941.

POSTMASTER:

MY DEAR SIR: Attention is invited to the inclosed administrative instructions (B. E. P. Q. 485, Seventh Revision), issued by the Bureau of Entomology and Plant Quarantine, United States Department of Agriculture, in connection with Federal Quarantine Order No. 72, on account of the white-fringed beetle.

Postmasters in the quarantined areas will please be governed accordingly. See paragraph 1, section 595, Postal Laws and Regulations.

Very truly yours,

RAMSEY S. BLACK,
Third Assistant Postmaster General.

B. E. P. Q. 503
Second Revision

February 28, 1941

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

WHITE-FRINGED BEETLE

REGULATIONS MODIFIED

§ 301.72-5c *Administrative instructions modifying the restrictions of the white-fringed beetle quarantine by authorizing treatment by methyl bromide solution of balled nursery stock of specified thickness. Introductory note.* The instructions in circular B. E. P. Q. 503 authorizing the treatment of nursery stock by a solution of methyl bromide, as last revised (March 15, 1940), provided for specified treatments of larvae of each of the species of white-fringed beetle, *Pantomorus leucoloma* Boh., the more common species, and *P. peregrinus* Buch., the new species. As a result of further investigations, the instructions are revised to provide for a modified treatment applying to both species and to all regulated areas other than in New Orleans and vicinity. The treatment authorized in the last revision of the circular is continued for the New Orleans area for the reason that the consistency of the soil in that area is such that the treatment can be used effectively only on soil balls not greater than 7 inches in diameter. In other areas, effective results are obtained on soil balls up to 8 inches in diameter. The specifications for treatment in the New Orleans area are brought forward in the instructions which follow.

(a) *Treatment authorized.* Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by subsection (a) of § 301.72-5, Chapter III, Title 7, Code of Federal Regulations (Regulation 5 of Notice of Quarantine No. 72 on account of the white-fringed beetle), the following method of treatment for balled plants is hereby authorized when carried out under the supervision of an authorized inspector of the United States Department of Agriculture.

(b) *Type of material authorized.* (1) *In Orleans Parish, including the city of New Orleans, and Saint Bernard Parish, La.* The treatment shall be applied only to plants in soil balls not greater than 7 inches in diameter nor greater than 7 inches in thickness when not spherical.

(2) *In all regulated area other than the parishes of Orleans and Saint Bernard, La.* The treatment shall be applied only to plants in soil balls not greater than 8 inches in diameter nor greater than 8 inches in thickness when not spherical.

(c) *Treatment method.* (1) *In all regulated areas.*

(i) The soil balls around the roots of plants must be buried in sand and plunged in boxes or trays approximately 1 foot deep, which are watertight.

(ii) A 2-inch space filled with sand shall be provided between the soil balls, also above and beneath them.

(iii) Such soil balls shall be treated with a solution of methyl bromide and alcohol at a concentration of 0.3 percent methyl bromide and 0.6 percent denatured ethyl alcohol by volume in water. The solution is to be prepared by first mixing the methyl bromide and alcohol together and then adding this mixture to the water and mixing thoroughly.

(iv) The aqueous solution of methyl bromide and alcohol shall then be applied evenly over the surface of the sand around the plants at the rate of 40 gallons per 100 square feet of surface area by means of a sprinkling can or sprayer.

(2) *Exposure and temperature.* (i) *In Orleans Parish including the city of New Orleans, and Saint Bernard Parish, La.* After the required dosage has

been applied, the soil balls shall remain embedded in the sand for a period of 8 hours. The temperature of the soil balls during the treatment shall not be lower than 65° F.

(ii) *In all regulated areas other than Orleans Parish and Saint Bernard Parish, La.* After the required dosage has been applied, the soil balls shall remain embedded in the sand for a period of 8 hours. The temperature of the soil balls during the treatment shall not be lower than 55° F.

(d) *Disclaimer.* There has been opportunity to test this treatment on only relatively few varieties of plants, and it is understood that no liability shall attach either to the United States Department of Agriculture or its employees in the event of injury to either plants or operators.

(e) *Caution.* Methyl bromide is a gas at ordinary temperatures. It is colorless and practically odorless, and in preparing the solution the operator should wear an approved gas mask.

This revision supersedes all previous issues of circular B. E. P. Q. 503.

AVERY S. HOYT,

Acting Chief, Bureau of Entomology and Plant Quarantine.

[Filed with the Division of the Federal Register February 28, 1941, 11:36 a. m.; 6 F. R. 1207.]

B. E. P. Q. 486, revised.

TITLE 7—AGRICULTURE

March 21, 1941

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

WHITE-FRINGED BEETLE REGULATIONS MODIFIED

§ 301.72-5b *Administrative instructions modifying the restrictions of the white-fringed beetle quarantine by authorizing alternative treatments by methyl bromide fumigation of plants in pots or in soil balls. Introductory note.*—The instructions in circular B. E. P. Q. 486, issued January 28, 1939, provided for treatment of balled and burlapped nursery stock by methyl bromide fumigation for larvae of the white-fringed beetle and limited the treatment to plants in 3-inch pots or in 3-inch soil balls, and provided for an exposure of 4 hours with a dosage of 1 pound of methyl bromide per 1,000 cubic feet at atmospheric pressures and a temperature of not less than 85° F. As a result of more recent investigations, the instructions are now revised to provide also that soil balls not greater than 11 inches in diameter, nor thicker than 11 inches if not spherical, may be fumigated under partial vacuum, equivalent to at least 24.5 inches of mercury, with a dosage of 4 pounds of methyl bromide per 1,000 cubic feet of chamber space, with an exposure of 1½ hours, at a minimum temperature of 75° F. These treatments are applicable to both species of the white-fringed beetle, *Pantomorus leucoloma* Boh. and *P. peregrinus* Buch.

(a) *Treatments authorized.*—Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by subsection (a) of § 301.72-5, Chapter III, Title 7, Code of Federal Regulations (Regulation 5 of Notice of Quarantine No. 72 on account of the white-fringed beetle), the following methods of treatment for certain kinds and sizes of potted and balled and burlapped plants are hereby authorized, when carried out under the supervision of an authorized inspector of the United States Department of Agriculture.

(b) *Fumigation treatment at atmospheric pressures.*—(1) Fumigation must be done with methyl bromide at a dosage of 1 pound per 1,000 cubic feet, including the space occupied by the plants, for a period of 4 hours, the soil masses and the air in the fumigation chamber to be at a temperature of not less than 85° F.

(2) Such fumigation shall apply only to those plants in 3-inch pots or smaller, or in soil balls not larger than those which would be contained in 3-inch pots, and the plants shall be stacked on racks so that the gas mixture can have access to all sides of the pots or the soil balls.

(3) The fumigation shall be done in a tight chamber with gas-tight doors.

(4) After the chamber is loaded and closed, the appropriate amount of methyl bromide shall be volatilized therein, and the air-gas mixture shall be

circulated by means of a fan or blower throughout the entire 4-hour fumigation period.

(5) The use of a fumigation chamber, lined with sheet metal throughout and with a metal-covered door closing against gaskets and held tightly in place by refrigerator door fasteners, is recommended.

(c) *Fumigation treatment under partial vacuum.*—(1) Fumigation under a partial vacuum equivalent to at least 24.5 inches of mercury must be done with a dosage of 4 pounds of methyl bromide per 1,000 cubic feet of chamber space, including the space occupied by the commodity, with an exposure of 1½ hours, the vacuum to be maintained throughout the entire period.

(2) The temperature of the soil balls shall be 75° F. or above, and the diameter of the soil balls shall be not greater than 11 inches if spherical, or thicker than 11 inches if not spherical.

(3) The fumigant-air mixture shall be circulated in the fumigation chamber by means of a fan the first 15 minutes of the exposure period to mix the vaporized fumigant thoroughly with the air in the chamber and bring it in contact with the surface of the soil balls. The soil balls shall be washed with one or more changes of air at the end of the exposure period.

(4) A standard vacuum fumigation chamber which can be closed tight and will withstand an external pressure of at least one atmosphere is required. A vacuum pump of sufficient capacity to reduce the pressure within the vacuum chamber to the equivalent of 3 inches of mercury (a 27-inch vacuum at sea level) in not more than 20 minutes is necessary.

(d) *Disclaimer.*—In authorizing the movement of potted plants or nursery stock fumigated according to the requirements stated above, it is understood that no liability shall attach either to the United States Department of Agriculture or to any of its employees in the event of injury resulting from the use of the fumigant.

(e) *Caution.*—Methyl bromide is a gas at ordinary temperatures. It is colorless and practically odorless in concentrations used for fumigation of plants. It is a poison, and the operator should use an approved gas mask when exposed to the gas at concentrations used in fumigation. The plants in the fumigation chamber should be well aerated by blowing air through them and the room adequately ventilated before it is entered.

This circular supersedes all instructions set forth in circular B. E. P. Q. 486 dated January 28, 1939.

AVERY S. HOYT,
Acting Chief.

[Filed with the Division of the Federal Register March 21, 1941, 11:37 a. m.; 6 F. R., 1572.]

B. E. P. Q. 489, revised.

March 21, 1941.

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

WHITE-FRINGED BEETLE REGULATIONS MODIFIED

§ 301.72-5a *Administrative instructions modifying white-fringed beetle quarantine regulations authorizing treatment of potting soil. Introductory note.* Further experimental work by the Bureau of Entomology and Plant Quarantine of the United States Department of Agriculture indicates that complete mortality of the various stages of the white-fringed beetles (*Pantomorus leucoloma* Boh. and *P. peregrinus* Buch.), in potting soil, can be obtained by fumigating the soil at a dosage of 2 pounds of carbon disulphide per cubic yard. The instructions in Circular B. E. P. Q. 489, issued on January 28, 1939, which authorized treatment of potting soil either by fumigation with methyl bromide or by heating, as a prerequisite to certification are herein extended to provide that carbon disulphide fumigation may also be employed as a method of treatment of potting soil for control of the white-fringed beetles. The specifications for the two treatments formerly authorized are brought forward unchanged in the instructions which follow and this circular supersedes all instructions set forth in Circular B. E. P. Q. 489 dated January 28, 1939.

(a) *Treatments authorized.*—Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by subsection (a) of

§ 301.72-5, Chapter III, Title 7, Code of Federal Regulations (Regulation 5 of Notice of Quarantine No. 72 on account of the white-fringed beetle) any one of the following methods of treatment for potting soil is hereby authorized when carried out under the supervision of an authorized inspector of the United States Department of Agriculture.

(b) *Carbon disulphide fumigation*.—(1) Potting soil shall be treated in a container with carbon disulphide at a dosage of 2 pounds per cubic yard of soil for a period of 48 hours.

(2) The grade of carbon disulphide shall be comparable to U. S. P. grade having a specific gravity of 1.25 at 68° F.

(3) The container shall be tight, preferably lined with sheet metal, and shall have a tight cover or be covered with a tarpaulin immediately after the fumigant is applied. The container shall not be more than 36 inches deep.

(4) The soil shall be friable, and wet soil shall not be treated by this method. The fumigant shall be applied to the soil in holes 3 inches deep, the dosage to be evenly divided among holes 1 foot apart over the surface of the soil, and the fumigant shall be covered with soil as soon as it is applied.

(5) The temperature of the soil shall not be lower than 40° F. during the entire time of treatment.

(6) The condition of the soil and the apparatus used and the method of application of the fumigant must meet with the approval of an authorized inspector of the United States Department of Agriculture.

(c) *Methyl bromide fumigation*.—(1) Potting soil must be treated in a container with methyl bromide in a dosage of 40 cubic centimeters of methyl bromide per cubic yard of soil for a period of 48 hours.

(2) The sides, bottom, and seams of the container shall be tight, preferably lined with sheet metal, and shall have a cover or be covered with a tarpaulin immediately after the fumigant is applied.

(3) The condition of the soil and the apparatus used and the method of application of the fumigant must meet the approval of an authorized inspector of the United States Department of Agriculture.

(d) *Heat treatment*.—(1) Live steam, under pressure of 80 pounds or more per square inch, shall be applied through a grid of perforated pipes at the bottom of the sterilizing box or truck body containing the soil, for a period of 45 minutes or until all parts of the load reach a temperature of 200° F.

(2) The grids shall be constructed of 1-inch pipes, perforated with holes $\frac{1}{32}$ inch in diameter on the upper side and connecting at one end to a manifold into which the steam is introduced.

(3) The layer of soil in the sterilizing box shall not be more than 2 feet, 6 inches deep.

(e) *Disclaimer*.—In authorizing the movement of potting soil treated according to the requirements stated above, it is understood that no liability shall attach either to the United States Department of Agriculture or to any of its employees in the event of injury resulting from the use of these treatments.

(f) *Caution*.—(1) The vapor of carbon disulphide is inflammable and explosive. At a temperature of 297° F. it may take fire spontaneously and in the presence of certain metals, particularly copper, it may ignite at considerably lower temperatures. It must be kept away from fire, and from hot objects such as electric light bulbs, unprotected brush-type motors, steam pipes, etc. Lighted cigars, cigarettes, or pipes must never be brought near carbon disulphide.

Carbon disulphide is a blood poison, but poisoning by this chemical is rare. Exposure to the vapor may cause giddiness and headache. When these symptoms develop, the individual should get into the open air.

(2) Methyl bromide is a gas at ordinary temperatures. It is colorless and practically odorless in concentrations used for fumigation of plants. It is a poison, and the operator should use an approved gas mask when exposed to the gas at concentrations used in fumigation. After fumigation of potting soil by that method, the cover should be removed and the soil allowed to become aerated.

AVERY S. HOYT,
Acting Chief.

MISCELLANEOUS ITEMS

IMPORTATION OF FRUITS, VEGETABLES, PLANTS, AND MEATS INTO THE UNITED STATES

Circular
No. 178.

TREASURY DEPARTMENT,
UNITED STATES COAST GUARD,
Washington, D. C., 25 March, 1941.

1. The entry into the United States of certain foreign-grown fruits, vegetables, plants, and plant products is controlled by quarantine or other restrictive orders issued by the United States Department of Agriculture to reduce or eliminate the danger of introducing insect pests and plant diseases into this country.

2. Importation in this case is construed as bringing into the waters of the United States, whether actually landed or not, and applies to small quantities as well as large, even to one fruit or vegetable.

3. In order that the regulations of the Department of Agriculture may be fully complied with and no prohibited or infested articles brought into the United States aboard coast guard vessels or aircraft, it is directed that the commanding officer of a coast guard vessel or the pilot of a coast guard aircraft arriving at a United States port from a port outside the continental limits of the United States (Hawaii and Puerto Rico particularly)—

(a) Communicate without delay with the district commander (by radio, if possible), before entering the waters or the air over the waters of the United States) regarding the regulations governing the importation of these items and insure that no prohibited fruits or vegetables are on board;

(b) Then report to the district commander (by radio, if possible, before entering the waters or the air over the waters of the United States) what remaining fruits and vegetables taken from foreign ports are on board;

(c) Afford the facilities for and permit a thorough examination of the ship or aircraft by inspectors of the Department of Agriculture who may come aboard to determine whether infestation exists on the ship or aircraft.

4. District commanders will keep themselves informed of the regulations and procedure of the Department of Agriculture relative to the subject matter and cooperate to carry out the provisions of this order.

5. In view of the prevalence of rinderpest and foot-and-mouth disease among cattle in foreign countries, fresh and frozen meats procured by vessels or aircraft in foreign ports shall not be landed in United States ports either as meat or garbage. Commanding officers of coast guard vessels and pilots of coast guard aircraft are strictly enjoined to see that these regulations are carried out.

R. R. WAESCHE,
Commandant.

B. E. P. Q. 379 (Revised).

PLANT-QUARANTINE IMPORT RESTRICTIONS, REPUBLIC OF BRAZIL

MARCH 10, 1941.

NOTICE.—The supply of circular B. E. P. Q. 379, issued July 19, 1935, was exhausted and this revision is merely to replenish the supply of the original circular into which Supplement No. 1, dated September 1, 1936, on the required disinfection of chestnuts, and Supplement No. 2, dated April 5, 1938, on the waiving of the certificate of origin and plant health for processed plant products, have been incorporated into the body of the circular.

B. E. P. Q. 379, Superseding P. Q. C. A. 294.

PLANT-QUARANTINE IMPORT RESTRICTIONS, REPUBLIC OF BRAZIL

JULY 19, 1935.

This summary of the plant-quarantine import restrictions of the Republic of Brazil has been prepared for the information of nurserymen, plant quarantine officials, and others interested in the exportation of plants and plant products to

that country. It includes the regulations of chapters I and II of Brazilian decree No. 24114 of April 12, 1934, pertaining to the importation of plants and plant products (superseding decree No. 15189 of Dec. 21, 1921, and those of the resolution of Nov. 19, 1934).

The summary was compiled by Harry B. Shaw, Plant Quarantine Inspector in charge of Foreign Service Information of the Division of Foreign Plant Quarantines, from his translations of the original texts, and reviewed by Ing. Agron. Eugenio G. Bruck, Assistant, Brazilian Plant Protection Service (Serviço de Defesa Sanitaria Vegetal).

The information contained in this circular is believed to be correct and complete up to the time of publication, but it is not intended to be used independently of, nor as a substitute for, the original texts of the decrees, and it is not to be interpreted as legally authoritative. The decrees themselves should be consulted for the exact texts.

LEE A. STRONG,
Chief, Bureau of Entomology and Plant Quarantine.

PLANT-QUARANTINE IMPORT RESTRICTIONS, REPUBLIC OF BRAZIL

BASIC LEGISLATION

Decree No. 14356, September 15, 1920 (Art. 10), Regulations of the Biological Institute of Agricultural Protection.

Decree No. 15189, December 21, 1921, Regulations of the Plant Protection Service.

Decree No. 24114, April 12, 1934, Regulations of the Plant Protection Service.

CONCISE SUMMARY

IMPORTATION, COMMERCE, TRANSIT, AND EXPORTATION PROHIBITED

(Decree No. 24114, of Apr. 12, 1934, art. 1, p. 3)

Plants and parts of plants including stocks, scions, cuttings, layers, fruits, seeds, roots, tubers, bulbs, rhizomes, leaves, and flowers, if they are carriers of injurious diseases and pests.

Live insects, mites, nematodes, and other harmful plant parasites, in any stage of development.

Cultures of bacteria, and fungi injurious to plants.

Cases, boxes, sacks, or other packing materials that may have served for the transportation of the products named in this article.

Soils, composts, or plant products that may contain cryptogams, insects, or other harmful plant parasites in any stage of development, whether or not they accompany live plants.

IMPORTATION PROHIBITED FROM ALL COUNTRIES

(Resolution of Nov. 19, 1934, art. 1, p. 10)

Banana (*Musa* spp.): Seedlings and pseudo-bulbs (bits).

Cocoa (*Theobroma cacao* L.): Stocks, fruits, and seeds.

Coffee (*Coffea* spp.): Stocks berries, and seeds; seedlings of other Rubiaceae.

Cottonseed and seed cotton (*Gossypium* spp.).

Rutaceae: Including stocks, seeds, and buds of the genera *Citrus*, *Poncirus*, *Fortunella*, *Evodia*, *Melicope*, *Casimiroa*, and *Toddalia*.

Sugarcane (*Saccharum officinarum* L.): Seedlings, cuttings, and seeds.

IMPORTATION PROHIBITED FROM PARTICULAR COUNTRIES

Eucalyptus: Seeds and stocks produced in Argentina, Australia, New Zealand, and the Union of South Africa.

IMPORTATION RESTRICTED

Plants and plant products otherwise prohibited may be imported by the Ministry of Agriculture for experimental purposes. (Decree No. 24114, Apr. 12, 1934, art. 1 (2); Resolution of Nov. 19, 1934, art. 1 (1).) See p. 10.

Useful insects, bacteria, and fungi: Importation may be permitted by the Ministry of Agriculture through an order. (Decree No. 24114, Apr. 12, 1934, art. 1 (3).) See p. 4.

Alfalfa (*Medicago* spp.), and clover (*Trifolium* spp.) seeds: Federal phytosanitary certificate, also declaring freedom from dodder seeds (*Cuscuta* spp.). (Resolution of Nov. 19, 1934, art. 2.) See p. 10.

Chestnuts (*Castanea vulgaris*): Certification of disinfection required. See p. 14.

Cotton (*Gossypium* spp.), and broomcorn, *Holcus (Andropogon) sorghum* var. *technicus* L.: Federal fumigation certificate required. (Resolution of Nov. 19, 1934, art. 5.) See p. 11.

Corn (*Zea mays* L.): Federal phytosanitary certificate affirming that the corn included in the shipment originated in a region free from European corn borer (*Pyrausta nubilalis* Hubn.). (Resolution of Nov. 19, 1934, art. 4.) See p. 11.

Potatoes (*Solanum tuberosum* L.): Federal certificate affirming freedom from *Synchytrium endobioticum* (Schilb.) Perc., *Spongospora subterranea* (Wahr.) Johnson, *Gnoringoschema operculella* Zell., and *Leptinotarsa decemlineata* Say. (Resolution of Nov. 19, 1934, art. 3.) See p. 10.

Seed potatoes: To be officially certified also as to the freedom of the crop from virus diseases and that the tubers have been disinfected. (Resolution of Nov. 19, 1934, art. 3 (1); Decree No. 21734, Aug. 16, 1932.) See p. 13.

IMPORTATION UNRESTRICTED

Almonds, *Prunus (Amygdalus) communis* L.; anise (*Pimpinella anisum* L.), bird seeds, cloves, India (*Eugenia aromatica* (L.) O. Kze.), cumin (*Cuminum cyminum* L.), garlic (*Allium sativum* L.), millet (*Chaetochloa italica* (L.) Scribn.) nuts, hazel (*Corylus* spp.), onions (*Allium cepa* L.), and pepper, black (*Piper nigrum* L.). (Resolution of Nov. 19, 1934, art. 6.) See pp. 11 & 12.

Barley (*Hordeum vulgare* L.), oats (*Avena sativa* L.), rye (*Secale cereale* L.), wheat (*Triticum aestivum* L.), and flax seed (*Linum usitatissimum* L.) for human consumption and industrial purposes. (Resolution of Nov. 19, 1934, art. 6 (1).) See p. 12.

Processed plant products may be imported without certification, subject only to inspection upon arrival. The inspection may be dispensed with in case the products are recognized as incapable of harboring parasites. See p. 15.

GENERAL REGULATIONS

(Promulgated by Decree No. 24114 of Apr. 12, 1934, superseding those of Decree No. 15189 of Dec. 21, 1921)

IMPORTATION PROHIBITED

ARTICLE 1. Under the conditions hereinafter prescribed, the importation, commerce, transit, and exportation are prohibited of:

(a) Plants and parts of plants, such as stocks, scions, cuttings, layers, fruits, seeds, roots, tubers, bulbs, rhizomes, leaves, and flowers, when they are carriers of injurious diseases and pests;

(b) Live insects, mites, nematodes, and other harmful plant parasites, in any stage of development;

(c) Cultures of bacteria and fungi injurious to plants;

(d) Cases, sacks, or other packing materials which may have served for the transportation of the products named in this article;

(e) Soils, composts, or plant products that may contain cryptogams, insects, or other harmful plant parasites in any stage of development, whether or not they accompany living plants.

PLANTS WITH SOIL TO BE DISINFECTED

(1) Certain species of plants, according to the judgment of the Plant Protection Service (Servicio de Defensa Sanitaria Vegetal), may be admitted to importation with soil subject to obligatory disinfection and the substitution of the soil on arrival.

IMPORTATION OF PROHIBITED PLANT MATERIAL FOR EXPERIMENTAL PURPOSES

(2) The Ministry of Agriculture may permit the importation of the plant material named in paragraphs *a*, *b*, *c*, and *e* of this article, only for experimental purposes in scientific establishments of Brazil, subject to preventive measures which will be prescribed in each case by the National Council for Agricultural Protection (Conselho Nacional de Defesa Agricola).

USEFUL INSECTS, BACTERIA, AND FUNGI ADMITTED

(3) The Ministry of Agriculture may permit, by Order, after hearing the National Council for Agricultural Protection, the introduction into the country of species of insects, fungi, bacteria, etc., recognized as useful, to which the prohibitions under letters *b* and *c* of this article do not apply.

SPECIAL RESTRICTIONS OR PROHIBITIONS MAY BE ESTABLISHED

ART. 2. Independently of the provisions of article 1, the Ministry of Agriculture may prohibit, or establish special conditions for the importation of any plant, part thereof, or agricultural product which proceeds from any country suspected of being or which actually is invaded by diseases and pests whose introduction into the country may constitute a menace to the national cultures.

The Ministry of Agriculture will determine, by Order, which products and respective countries of origin are comprehended within this article.

IMPORTATION RESTRICTED OF PLANTS AND PARTS OF PLANTS

AUTHORIZED PORTS OF ENTRY

ART. 3. The importation of plants and parts of plants will be permitted only through ports and frontier stations in which the Plant Protection Service shall have been established.

The Ministry of Agriculture will determine periodically, by Order, which ports and frontier stations have been equipped for the purposes of this article. (See article 7, Resolution of Nov. 19, 1934.)

REQUIREMENTS FOR CONSULAR VISA

ART. 4. Brazilian consuls in foreign countries will not legalize invoices for plants or parts of plants unless all the requirements of Brazilian phytosanitary legislation have been complied with.

ART. 5. Besides other measures that have been taken by the Ministry of Agriculture, consuls must observe the following:

(a) Require, for the legalization of invoices, that there be presented to him for visa the official certificate of origin and plant health issued by the competent authority of the Plant Protection Service of the country of origin.

(b) Require with the phytosanitary certificates the special declarations established by Orders of the Ministry of Agriculture for the importation of certain species and plant products.

CERTIFICATES NOT REQUIRED WITH PLANT PRODUCTS INTENDED FOR FOOD, MANUFACTURING, AND MEDICINAL PURPOSES

(c) Dispense with the phytosanitary certificate only when products intended for food, manufacturing, medicinal, and ornamental purposes are concerned, which in the terms of article 13 have unrestricted entry into Brazil, in virtue of Orders of the Ministry of Agriculture.

(d) Ascertain, in accordance with article 3, whether the products to be exported (to Brazil) are intended for a port or frontier station at which the Plant Protection Service is established.

(e) Determine whether or not the plants or parts of plants are included in prohibitions established by these regulations or by Orders of the Ministry of Agriculture.

(f) Grant invoices for products whose importation is prohibited only when authorized to do so by the Ministry of Agriculture, through the intermediary of Foreign Relations.

NOTICE OF ARRIVAL

ART. 6. For the purposes of these regulations, the Ministry of Finance, through its customhouses and stations, will immediately notify the technical official of the plant protection service having jurisdiction in the port or frontier station, of the arrival and foreign source of origin of any plants or parts of plants.

Identical notification will be made by the Ministry of Supervision and Public Works (Ministerio da Viação e Obras Publicas), through the Department of Posts and Telegraphs (Departamento dos Correios e Telegrafos), with respect to plants and parts of plants imported by mail.

NO RELEASE OF PLANT MATERIAL WITHOUT TECHNICAL AUTHORIZATION

ART. 7. In no case will the Departments referred to in the preceding article permit the clearance of plants or parts of plants without the respective authorization of the technical official of the Plant Protection Service.

(1) That authorization will be obtained through an application by the importer or his broker, who will furnish the following to that official:

(a) The certificate of origin and plant health of the country of origin, legalized by the Brazilian consul;

(b) Complete information on the products to be cleared, including that necessary to establish their identity.

CHARACTER OF PHYTOSANITARY CERTIFICATE³

(2) The certificate in question must be signed by the competent authority of the plant protection service of the exporting country and indicate:

(a) Quantity and kind of containers;

(b) Weight and marks;

(c) Vessel and date of sailing;

(d) Description of plants and parts of plants;

(e) Place where grown;

(f) Name of exporter;

(g) Name and address of consignee;

(h) Date of inspection;

(i) Attestation that the products exported are deemed free from diseases and pests injurious to crops.

CERTIFICATE NOT OBLIGATORY FOR SMALL MAIL OR BAGGAGE SHIPMENTS

ART. 8. The certification requirements of the preceding article may be dispensed with for small shipments of plants and parts of plants imported by mail, including mail orders, registered mail, samples without value, etc., or those carried in the baggage of passengers from foreign countries; meanwhile such products are not allowed to be disembarked without competent inspection by the Plant Protection Service. (Circular No. 51, of August 30, 1930, makes the provisions of this article applicable to shipments of plant products imported by air mail.)

(1) The Ministry of Agriculture can limit the quantity and establish conditions under which it will permit the certificate to be dispensed with under the terms of this article.

PASSENGERS MUST DECLARE PLANT MATERIAL IN BAGGAGE

(2) Passengers from foreign countries who carry plants, seeds, cuttings, rhizomes, tubers, fruits, etc., in their baggage are required to declare them to the customs authorities for the purpose of a phytosanitary inspection, holding such material until competent inspection and release have been effected by technical officials of the Plant Protection Service.

³The Brazilian phytosanitary certificate is identical with that approved by the International Convention for Plant Protection and a certificate based upon that is acceptable to the Brazilian Department of Agriculture. Only certificates issued by the United States Federal Department of Agriculture are acceptable. The essential part of the text of the certificate adopted by the Convention, as applicable to Brazil, is: "The undersigned (name and official title) certifies, in conformity with the results of the inspection of products included in the shipment, that the plants or parts of plants contained in the shipment described below are deemed free from injurious diseases and pests."

(3) In case of concealment or false declaration, the violators are subject to the confiscation of the products, in addition to other penalties provided by law.

ART. 9. The requirements of the preceding articles having been met, the technical official of the Plant Protection Service will proceed to inspect the imported products, authorizing their release on confirmation of compliance with the provisions of articles 1 and 2.

Live plants and plant products which rapidly deteriorate will have precedence in inspection on arrival.

DISPOSAL OF PROHIBITED PLANT MATERIAL

ART. 10. On inspection upon arrival, if it be found that the plants or parts of plants are included in the prohibition of articles 1 and 2, they will be at once put under the supervision of the Plant Protection Service in a place indicated by that Service.

(1) Such products will be reexported within 15 days, and if not exported within that period, they will be disinfected or destroyed.

(2) The expense involved by the requirements of this article shall be borne by the interested person without right of indemnity.

(3) If injurious pests or diseases, or those which are easily distributed, are concerned, the Plant Protection Service will immediately seize and destroy the condemned products.

(4) The disinfection, removal, and destruction of condemned products will be effected by the Plant Protection Service or, in ports where that Service is not represented, by the customs.

CONDITIONS UNDER WHICH DISINFECTION IS REQUIRED

ART. 11. Imported plant products, infected or infested with fungi, insects, or other parasites, or even suspected of being carriers of such parasites, which already exist or are distributed in Brazil and are regarded as of secondary importance, may be released after being disinfected or sterilized in accordance with conditions prescribed by the Ministry of Agriculture.

If the infection or infestation referred to in this article is of great intensity, the plants or parts of plants will be subject to the provisions of article 10.

PLANTS FROM SUSPECTED COUNTRIES TO BE HELD IN QUARANTINE

ART. 12. Plants or parts of plants from suspected countries or localities, or whose sanitary condition on arrival is doubtful, may be planted in quarantine in an official establishment, or in a place offering the necessary guarantees, in the judgment of the Plant Protection Service, which will keep them under supervision and will not permit their removal without previous authorization.

ART. 13. The Ministry of Agriculture will determine, by Order, which plant products intended for food, manufacturing, medicinal, or ornamental purposes, whose unrestricted entry into Brazil does not constitute a menace to the national cultures, may be exempted from some or all of the requirements of the present regulations.

DEFECTIVE CERTIFICATE INVOLVES BOND

ART. 14. For errors or imperfections in the phytosanitary certificates required by these regulations for the importation of plants or parts of plants, the importer may be allowed, at the discretion of the Ministry of Agriculture, to give a bond of responsibility and cash security under conditions to be fixed later and within a predetermined period and certified accordingly.

(1) The permission referred to in this article will be granted only for products which do not fall within the provisions of article 1 or within measures of exclusion in force.

(2) The conditions and fees required for the concession referred to in this article will be regulated by special orders.

ART. 15. Penalties.

SPECIAL QUARANTINES

The special quarantines of the Brazilian Ministry of Agriculture were codified by the Resolution of November 19, 1934, as follows:

IMPORTATION PROHIBITED

ARTICLE 1. The importation is prohibited from any country, into any part of the national territory, of the following plants and parts of plants:

(a) Cottonseed and seed cotton (*Gossypium* spp.); to prevent the introduction of the boll weevil, *Anthonomus grandis* Boh., and other pests.

(b) Banana (*Musa* spp.) seedlings and pseudo-bulbs (bits); to prevent the introduction of the Panama disease, *Fusarium cubense* E. F. Sm.

(c) Coffee (*Coffea* spp.): Stocks (seedlings), berries, seeds; seedlings of other Rubiaceae; to prevent the introduction of the rust, *Hemileia vastatrix* B. and Br. and *Hypothenemus* sp., a beetle.

(d) Stocks, fruits, and seeds of cocoa (*Theobroma cacao* L.); to prevent the introduction of witches' broom, *Eoascus theobromae* Ritz. Bos, and *Marasmius perniciosus* Stahel, etc.

(e) Seedlings, cuttings, and seeds of sugarcane (*Saccharum officinarum* L.); to prevent the introduction of virus diseases, the European corn borer, *Pyrausta nubilalis* Hbn., etc.

(f) Seeds, buds, and stocks of the genera *Citrus*, *Poncirus*, *Fortunella*, and other genera of the family Rutaceae, as well as of the genera *Evodia*, *Melicope*, *Casimiroa*, and *Toddalia*, also of the same family; to prevent the introduction of citrus canker, *Bacterium citri* Hasse.

(g) Seeds and stocks of *Eucalyptus* produced in Argentina, Australia, New Zealand, and the Union of South Africa.

PROHIBITED PLANTS MAY BE IMPORTED BY DEPARTMENT OF AGRICULTURE

(1) The Ministry of Agriculture reserves the right to import the plants and parts of plants mentioned in this article in small quantities, or to authorize State governments to import them for cultural experiments in their technico-experimental establishments, observing, however, protective measures prescribed by the Plant Protection Service (Serviço de Defesa Sanitaria Vegetal).

(2) The Ministry of Agriculture may import plant species mentioned in this article on the application and for the account of private persons, the importations being subject to conditions prescribed by the Plant Protection Service. Such plants will be grown in quarantine in official establishments of the Ministry, and only the respective progeny of the planting may be delivered to the interested person.

ALFALFA AND CLOVER SEEDS MUST BE FREE FROM DODDER

ART. 2. The importation is prohibited, under the provision of article 2 of Decree No. 24114, of April 12, 1934, of seeds of alfalfa (*Medicago sativa* L.) and of other leguminous forage-crop seeds if the required phytosanitary certificate does not include a declaration that such seeds are free from dodder (*Cuscuta* seeds).

CERTIFICATE REQUIRED FOR POTATOES

ART. 3. Under the terms of article 2 of the above-mentioned decree, importation is prohibited of potato tubers (*Solanum tuberosum* L.) that are not accompanied by a phytosanitary certificate affirming that they originated in a locality free from the following parasites: Potato wart, *Synchytrium endobioticum* (Schilb.) Perc.; powdery scab, *Spongospora subterranea* (Wahr.) Johnson; potato tuber worm (*Phthorimaea*) *Gnorimoschema operculella* Zell.; and the Colorado potato beetle, *Leptinotarsa decemlineata* Say.

SEED POTATOES MUST BE CERTIFIED AS FREE FROM VIRUS DISEASES

(1) Where seed potatoes are concerned, in addition to the above-mentioned phytosanitary certificate, they must be accompanied by a certificate issued by the Ministry of Agriculture of the producing country, declaring that they proceed from an establishment that grows seed potatoes, officially controlled (supervised) against the so-called degeneration or virus diseases. (See Decree No. 21734 of Aug. 16, 1932, pp. 15 and 16.)

PORT OF ENTRY FOR POTATOES FROM SPAIN AND PORTUGAL

(2) The importation of potatoes from Spain and Portugal exclusively for consumption will be permitted through the port of Rio de Janeiro alone.

(3) For the purposes of the preceding paragraph, in addition to the phytosanitary certificate, the presentation of a certificate of disinfection is indispensable; both certificates must be visaed by the Brazilian Consulate at the port of embarkation, to prevent the introduction of the potato tuber worm, *Gnorimoschema operculella*, and powdery scab, *Spongospora subterranea*.

EUROPEAN CORN BORER CERTIFICATE REQUIRED FOR SEED CORN

ART. 4. Under the terms of article 2 of Decree No. 24114 the importation of corn seed (*Zea mays* L.) is prohibited in the absence of a declaration on the required phytosanitary certificate that the corn included in the shipment originated in a region free from the European corn borer, *Pyrausta nubilalis* Hbn.

FUMIGATION CERTIFICATE REQUIRED WITH COTTON AND BROOMCORN

ART. 5. Under the terms of article 2 of the above-mentioned Decree No. 24114, the importation of raw cotton and cotton wastes, as well as of straw and panicles of broomcorn, *Andropogon sorghum* var. *technicus*, is prohibited, unless accompanied by a fumigation certificate.

In the absence of this certificate, or if the certificate does not offer the necessary guaranty, fumigation may be effected at the port of arrival if a properly equipped station or post exists at the port of arrival.

IMPORTATION OF CERTAIN PLANT PRODUCTS UNRESTRICTED

ART. 6. Under the terms of article 13 of the above-mentioned Decree No. 24114 a phytosanitary certificate is not required for the importation of the following products: Almonds (*Amygdalus communis* L.), anise (*Pimpinella anisum* L.), bird seeds, cloves, India (*Eugenia aromatica* (L.) O. Kze.), cumin (*Cuminum cyminum* L.), garlic (*Allium sativum* L.), millet (*Chaetochloa italica* (L.) Scribn.), nuts, hazel (*Corylus* spp.), onions (*Allium cepa* L.), pepper, black (*Piper nigrum* L.).

CEREALS FOR CONSUMPTION AND MANUFACTURE UNRESTRICTED

(1) The cereals, barley (*Hordeum vulgare* L.), oats (*Avena sativa* L.), rye (*Secale cereale* L.), wheat (*Triticum aestivum* L.), and flax seed (*Linum usitatissimum* L.), are included in the concession established by this article when imported for human consumption or for industrial purposes (stock feeds, industrial ferment products, etc.).

(2) Persons interested in the concession prescribed by the preceding paragraph shall sign an undertaking to the Plant Protection Service at the port through which entry is made that the grains and seeds above referred to will not be used for planting.

(3) The products mentioned in this article shall be released from the customs only on the authorization of the Plant Protection Service.

AUTHORIZED PORTS OF ENTRY

ART. 7. The importation, under the terms of article 3 of Decree No. 24114, of plants and parts of plants from abroad will be permitted only through the ports of Balem, Corumba, Manãos, Porto Alegre, Recife, Rio de Janeiro, Rio Grande, Santos, São Francisco, and São Salvador.

ART. 8. Quarantined areas of Brazil.

ART. 9. Approved form of certificate for plant material intended for export.

ART. 10. Prohibiting the maintenance within economic crops of plants which may serve as hosts of parasites of those crops.

BOND REQUIRED FOR PRODUCTION OF CERTIFICATES

ART. 11. In accordance with the provisions of the second paragraph of article 14 of Decree No. 24114, a bond is established in cases of the straying of, or irregularities in, phytosanitary certificates required for the importation of plants and parts of plants, under the following conditions:

(a) The period for the presentation of the certificate shall be 30 days for the preceding products proceeding from countries of the American continent, and 60 days for other countries, counting from the date of the signature of the bond.

INSPECTION ON ARRIVAL

(b) Imported products are subject, in addition to thorough inspection on arrival, to disinfection, fumigation, or quarantine, at the discretion of the Plant Protection Service.

RESTRICTIONS ON THE IMPORTATION OF SELECTED SEED POTATOES

(Decree No. 21734, Aug. 16, 1932)

ARTICLE 1. The importation of selected seed potatoes, with exemption from customs imports (in the terms of article 3, No. XIII-3, Law No. 1616 of Dec. 30, 1906) is subject to previous authorization by the Ministry of Agriculture.

(a) This authorization will be granted only to growers or syndicates and agricultural cooperatives registered in the Service of Inspection and Agricultural Protection (Serviço de Inspeção e Fomento Agrícolas), and to commercial firms regularly established and registered in Brazil for the seed business.

(b) Importation shall be made only through ports or localities where there is a representative of the Biological Institute of Agricultural Protection (Instituto Biológico de Defesa Agrícola) authorized to carry out phytosanitary inspection. (See article 7, Resolution of Nov. 19, 1934, p. 12.)

(c) The Ministry of Agriculture will publish the names of the authorized ports or localities through which importation will be permitted.

ART. 2. Seed potatoes may be imported into Brazil only from countries where technical experimental establishments specializing in the culture of this plant exist, according to the criterion of the Serviço de Inspeção e Fomento Agrícolas, in order to prevent the importation of unfit varieties into regions for which the tubers are intended, and to prevent the introduction of injurious or exotic diseases, and the importation will be subject to all the provisions and instructions concerning phytosanitary protection, applying to the case the judgment of the Superior Council of Agricultural Protection instituted by article 90 of the regulations approved by Decree No. 15189 of December 21, 1921.

(a) The phytosanitary certificate indicating origin referred to in article 2 of the resolution of May 26, 1928 (superseded by article 3 of the resolution of Nov. 19, 1934); shall affirm that the tubers proceed from regions free from the parasites *Synchytrium endobioticum* (Schilb.) Perc., *Spongospora subterranea* (Wahr.) Johnson, and (*Phthorimaea*) *Gnoringoschema operculella* Zell., and *Leptinotarsa decemlineata* Say, and that the imported tubers are free from those and other parasites.

(b) In addition to this certificate, each shipment must be accompanied by a statement of the Minister of Agriculture of the producing country affirming that selected seed potatoes are concerned.

(c) If, upon inspection on arrival, the tubers indicate need of disinfection by immersion in insecticidal and fungicidal solutions, this precaution will be required at the expense of the importer.

ART. 3. Tubers which may be deemed by the Serviço de Inspeção e Fomento Agrícolas unfit for planting may be used for consumption, provided that the competent sanitary authorities are not opposed, and that the importer pays the imposts required by law.

ART. 4. Tubers deemed by competent authorities unfit for planting or for food shall be destroyed under the supervision of the same at the expense of the importer.

ART. 5. Concerns the storage of imported seed potatoes.

ART. 6. Concerns the requirements to be met by the importer in applying for a permit to import seed potatoes.

ARTS. 7, 8, and 9. Concern importers of seed potatoes.

DISINFECTATION OF CHESTNUTS REQUIRED

(Resolution of Jan. 25, 1936; Diário Oficial, Jan. 29, 1936)

ARTICLE 1. The obligatory certification of the disinfection of chestnuts (*Castanea vulgaris*) imported from any source, is hereby established.

The presence of the lepidopteron *Laspeyresia* sp., and of the coleopteron *Balaninus* sp., in any stage of development, being verified by inspection in the port of destination, the Servicio de Defesa Sanitaria Vegetal, at the request and expense of the consignees, will subject the shipment to a new disinfection, providing that the infestation does not exceed 2 percent, the interested persons being subjected to other precautionary measures deemed necessary.

CERTIFICATE NOT REQUIRED FOR PROCESSED PLANT PRODUCTS

(Order of February 10, 1938; Diario Oficial, February 17, 1938)

ARTICLE 1. The certificate of origin and plant health for imported plants or parts of plants that have been processed, dried, manufactured, or which have undergone any treatment that devitalizes them, may, in the terms of the said regulations, be dispensed with.

SUBJECT TO INSPECTION ON ARRIVAL

ART. 2. The products included in the preceding article are subject to inspection on arrival in ports where phytosanitary inspection is provided for, and will be released by the customs only by authorization of the technical expert of the phytosanitary service.

The required inspection of products recognized as being incapable of harboring parasites may, at the discretion of the Director, Phytosanitary Service, be dispensed with.

B. E. P. Q. 404, revised, supplement No. 3.

PLANT-QUARANTINE IMPORT RESTRICTIONS, BRITISH INDIA

MARCH 3, 1941.

NOTIFICATION OF THE DEPARTMENT OF EDUCATION, HEALTH AND LANDS, No. 46-29/38-A, DATED UNDER AGRICULTURE, NEW DELHI, OCTOBER 9, 1940

This Notification advises that Port Blair should be substituted for Rangoon in clause (iii) of paragraph 1 of the Order published in Notification No. F. 320/35-A, dated July 20, 1936. Accordingly, the above substitution should be made in paragraph (c) of article 1 on page 5 of B. E. P. Q. 404, revised.

LEE A. STRONG,
Chief, Bureau of Entomology and Plant Quarantine.

B. E. P. Q. 444, revised, supplement No. 1.

PLANT-QUARANTINE IMPORT RESTRICTIONS, FRENCH ZONE OF MOROCCO

JANUARY 22, 1941.

Dahir of March 21, 1933; Bulletin Officiel No. 1069, April 21, 1933, p. 373.

FORM OF CERTIFICATE REQUIRED FOR IMPORTED PLANT MATERIAL

In addition to the regulations given on page 7 of B. E. P. Q. 444, revised, under the heading "Phytosanitary Control of Imported Plant Material," as to ports of entry and the required copy of a shipper's invoice, the Dahir of March 21, 1933, requires that all shipments into the French Zone of Morocco of seedlings, layers, cuttings, scions, grafts, cut flowers, pits of fruits, tubers, bulbs, rhizomes, roots, and seeds, must be accompanied by a certificate of sanitary inspection conforming to the model appended hereto.

LEE A. STRONG,
Chief, Bureau of Entomology and Plant Quarantine.

CERTIFICATE OF SANITARY INSPECTION

COUNTRY OF ORIGIN

Indication of Official Service of Plant Protection

I, the undersigned⁴ _____ certify, according to the results:⁵

Of the supervision of plants at origin;

Of the inspection of products comprising the shipment;

That the plants or parts of plants contained in the invoice described below, are deemed free from injurious insect pests and plant diseases, especially those enumerated hereafter:

 Description of the invoice:

 Number, weights, and nature of the packages:

 Marks on containers:

 Description of the plants or parts of plants and place where grown:

 Name and address of shipper:

 Name and address of consignee:

 Place and date:

SEAL

Signature: _____

B. E. P. Q. 409, supplement No. 1.

PLANT-QUARANTINE IMPORT RESTRICTIONS, FREE CITY OF DANZIG

MARCH 24, 1941.

The International Bulletin of Plant Protection, Year XIV, No. 12, December 1940.

ABROGATION OF PHYTOSANITARY MEASURES

"The former Free City of Danzig being, by virtue of the Law, dated September 1, 1939, incorporated into the Reich, all legislative regulations, including phytosanitary measures taken previous to this date, have been abrogated. (Nachrichtenblatt für den Deutschen Pflanzenschutzdienst, Berlin, Anfang September 1940, 20. Jahrg., Nr. 9, S. 56.)"

The above action apparently revokes the Plant-Quarantine Import Restrictions of the Free City of Danzig, as issued in B. E. P. Q. 409, July 20, 1936.

LEE A. STRONG,

Chief, Bureau of Entomology and Plant Quarantine.

⁴ Name, first name, and rank of official of the certifying service of the country of origin.

⁵ Strike out line which does not apply.

TERMINAL INSPECTION OF PLANTS AND PLANT PRODUCTS

MINNESOTA STATE PLANT QUARANTINES AND TERMINAL INSPECTION

THIRD ASSISTANT POSTMASTER GENERAL,
Washington, March 7, 1941.

(1) The State of Minnesota has established terminal plant inspection within the provisions of the law embodied in section 596, Postal Laws and Regulations, to prevent the introduction and dissemination of certain insects into Minnesota, such as San Jose scale, oyster-shell scale, root lice—such as strawberry root lice, and other plant pests of economic importance, with respect to the following plants and plant products:

All wild and cultivated trees, shrubs, and woody vines; perennial roots, such as peonies and iris; small-fruit plants, such as strawberries and raspberries; herbaceous perennials, such as hollyhocks and other hardy flowering plants; cuttings, buds, grafts, and scions for or capable of propagation.

(2) Facilities for terminal plant inspection are being provided and will be maintained at Saint Paul, Minnesota. Parcels containing articles subject to terminal inspection addressed for delivery in Minnesota, including those originating in Minnesota, are, therefore, to be accorded the treatment prescribed by section 596, Postal Laws and Regulations, and transmitted to the plant inspector at Saint Paul. However, the Minnesota arrangement permits the delivery of parcels containing the above-named plants and plant products to the addresses in all cases when accompanied with a valid certificate of inspection issued by a plant inspector of the State of origin certifying the articles contained in the individual packages are free of harmful diseases or insect infestation, with the exception that in case of shipments of materials restricted under the provisions of Minnesota State quarantines listed below, the nursery or premises inspection certificate (usually issued once a year) as required under paragraph 2, section 595, Postal Laws and Regulations, will not be satisfactory for such purpose. In such cases a special certificate indicating compliance with the restrictions of the quarantine involved is required.

(3) Packages containing any plants or plant products addressed to places in Minnesota may be accepted for mailing only when plainly marked so that the contents may be readily ascertained by an inspection of the outside. The law makes failure so to mark such parcels an offense punishable by a fine of not more than \$100.

(4) Pursuant to the act of June 4, 1936, embodied in amended section 596, Postal Laws and Regulations, the State of Minnesota has also issued State plant quarantines on account of the alfalfa weevil and on account of "orange rust" and "virus diseases" of the mosaic type affecting raspberry plants, prohibiting or regulating the entry into Minnesota of certain plants and plant products as follows:

(A) QUARANTINED ON ACCOUNT OF THE ALFALFA WEEVIL

California—Counties of Alameda, Alpine, Contra Costa, Lassen, Merced, Mono, Plumas, San Joaquin, Santa Clara, Sierra, Siskiyou, and Stanislaus.

Colorado—Counties of Delta, Garfield, Gunnison, Mesa, Moffat, Montrose, Ouray, Rio Blanco, Routt, and San Juan.

Idaho—All that part lying south and southeast of the south boundary of Idaho County.

Nevada—Entire State.

Oregon—Counties of Baker, Harney, Jackson, Josephine, Malheur, and Union.

Utah—Entire State.

Wyoming—Counties of Albany, Carbon, Converse, Fremont, Goshen, Hot Springs, Laramie, Lincoln, Natrona, Niobrara, Platt, Sweetwater, and Uinta.

Plant material affected: Alfalfa hay as such or other hay of any kind, cereal straw—acceptance for mailing entirely prohibited.

Alfalfa meal prohibited during April, May, June, July, August, September, and October.

Alfalfa meal accepted during January, February, March, November, and December, when accompanied with approved certificate.

(B) QUARANTINED ON ACCOUNT OF ORANGE RUST AND VIRUS DISEASES

All States.

Plants affected: Raspberry plants—accepted for mailing only when accompanied with approved certificate.

Under the provisions of paragraph 2 (b), amended section 596, Postal Laws and Regulations, postmasters should not accept such plants and plant products when presented for mailing in violation of these quarantine laws and regulations and should invite the attention of the mailers thereto.

Parcels inadvertently accepted in the mails in violation of these quarantines and quarantine regulations are subject to the treatment prescribed by paragraph 4 (b), section 596, Postal Laws and Regulations.

RAMSEY S. BLACK,

Third Assistant Postmaster General.

MODIFICATION OF MISSISSIPPI STATE PLANT QUARANTINES

(Amending Notices Issued April 7, 1937, and May 7, 1940)

THIRD ASSISTANT POSTMASTER GENERAL,

Washington, March 28, 1941.

Mississippi plant quarantines have been modified, effective at once, so as to prohibit entirely the entry into that State of sweetpotato seed and sweetpotato plants from the entire State of Tennessee. This is in addition to the restrictions previously imposed, set forth in notices published in the May 1937 and June 1940 Supplements to the Postal Guide.

Postmasters will, therefore, please make the proper correction and be governed accordingly.

RAMSEY S. BLACK,

Third Assistant Postmaster General.

PENALTIES IMPOSED FOR VIOLATIONS OF THE PLANT QUARANTINE ACT

According to reports received by the Bureau during the period January 1 to March 31, 1941, penalties have recently been imposed by the proper authorities for violations of the Plant Quarantine Act, as follows:

QUARANTINES AFFECTING MEXICAN PRODUCTS

In the case of the United States versus the persons listed below, for attempting to smuggle in contraband plant material, the penalties indicated were imposed by the United States customs officials at the following ports:

Name	Port	Contraband	Penalty
H. M. Yoder	Brownsville, Tex.	1 orange	\$1.00
Ignacio Gonzalez	do	2 oranges	1.00
Cesario Hernandez	do	6 avocados with seed	1.00
Marie Castillo	Del Rio, Tex.	4 avocados	1.00
Rosa Castaneda	do	1 orange	1.00
Maria Jimenez Garza	Eagle Pass, Tex.	1 apple and 1 orange	1.00
Juan Zuniga	do	2 oranges and 4 nodes sugarcane	1.00
Matilda E. Garcia	do	14 plants	1.00
Dimanthia Gonzales	do	2 avocados	1.00
Mrs. Maria Jesus de Coleman	El Paso, Tex.	2 guavas	.40
Mrs. Ramona Armendariz Moneida	do	4 ounces acorns	1.00
Felipe Galvis	do	2 plants in soil	1.00
Herminia Pena de Gutierrez	do	1 plant in soil and 1 plant cutting	1.00
Petra Delgado de Macias	do	17 gladiolus corms, 6 ounces tree seed, and 6 Mexican oranges.	1.00
Ascencio Mendez	Hidalgo, Tex.	5 plants	1.00
Tomas Vasquez	do	1 avocado	1.00
Juana Cavazes	do	do	1.00

Name	Port	Contraband	Penalty
Tomas Pena	Hidalgo, Tex	6 plants	\$1.00
Mrs. Antonio Rocha	Laredo, Tex	5 guavas	1.00
Mrs. F. Ramirez	do	10 plants	1.00
M. Cardona	do	do	1.00
Henry Rose	do	6 mamey seed and 3 nodes sugar-cane.	1.00
Ana M. Perigrina	do	2 oranges	1.00
Maria Delgado	do	5 avocado seed	1.00
Juana S. Aguirre	do	1 plant	1.00
David Moises Patino	do	1 orange	1.00
Louie J. Kalschmar	do	5 oranges	1.00
R. Gomez	do	6 oranges	1.00
Isidra Limon	do	6 guavas	1.00
Jose Refugio Sanchez	do	5 oranges	1.00
Mrs. Otto Ludeke	do	5 Irish potatoes	1.00
Mrs. Mercedes Mendoza	do	1 guava	1.00
Mrs. Alma Kujath	do	10 tangerines, 3 oranges, 1 apple, and 5 nodes sugarcane.	2.00
Juana Solis Vda. de Luna	do	2 avocado seed	1.00
Jose San Roman	do	4 avocados with seed, 2 sweet limes, 6 plants, 12 haw apples, and 2 pounds seed with pulp.	2.00
Juana Ontureras	do	6 plants	1.00
Mrs. Sarah Schapeno	do	2 oranges	1.00
M. F. Noack	do	3 oranges	1.00
E. R. Johnson	do	do	1.00
Mrs. Antolina Sadres	Laredo, Tex	4 plants with soil	1.00
Jose Ruiz Perez	do	2 oranges	1.00
Mrs. Ballema Ruiz	do	5 plants and 2 mamey seed	1.00
Felix Trevino	do	4 plants	1.00
Peter J. Dooley	do	6 oranges	1.00
Romona Gonzales	do	4 mameys and 9 nodes sugarcane.	2.00
Librada Sanchez	do	½ pound papaya seed	1.00
Elena Contreras	do	1 orange	1.00
J. E. Williams	do	1 mamey and 1 orange	1.00
A. R. Juarez	do	1 orange	1.00
Mrs. Fannie Carmin	do	4 oranges and 6 tangerines	1.00
Maria A. Varga	do	9 plants	1.00
Mrs. Jesse Ortiz	do	5 guavas and 2 sweet limes	1.00
Miss Conception Ortiz	do	5 guavas and 7 sweet limes	1.00
Jose T. Estrada	do	1 avocado with seed	1.00
Jose Estrada	do	do	1.00
Miss Josefina Perez	do	14 geranium cuttings	1.00
Alfonso Torres	do	4 oranges	1.00
Leonard Gonzales	do	4 cactus plants	1.00
Matilde Quinones	do	32 plants	1.00
Mrs. Garcia de Hernandez	do	3 plants with soil	1.00
Henry T. Danforth	do	4 avocados	1.00

ORGANIZATION OF THE BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

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AVERY S. HOYT, *Assistant Chief.*
P. N. ANNAND, *Assistant Chief.*
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E. G. BREWER, *in Field Charge, Japanese Beetle and Gypsy Moth and Brown-Tail Moth Quarantines, European Corn Borer Certification, and Dutch Elm Disease Eradication (headquarters, Bloomfield, N. J.).*
R. E. McDONALD, *in Field Charge, Pink Bollworm and Thurberia Weevil Quarantines (headquarters, San Antonio, Tex.).*
P. A. HOIDALE, *in Field Charge, Mexican Fruitfly Quarantine (headquarters, Harlingen, Tex.).*
A. C. BAKER, *in Field Charge, Fruitfly Investigations (headquarters, Mexico City, Mexico).*

United States Department of Agriculture

BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

SERVICE AND REGULATORY ANNOUNCEMENTS

APRIL—JUNE 1941

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QUARANTINE AND OTHER OFFICIAL ANNOUNCEMENTS

ANNOUNCEMENTS RELATING TO JAPANESE BEETLE QUARANTINE (NO. 48)

INSTRUCTIONS TO POSTMASTERS

POST OFFICE DEPARTMENT,
THIRD ASSISTANT POSTMASTER GENERAL,
Washington, June 23, 1941.

POSTMASTER:

MY DEAR SIR: Attention is invited to the inclosed copy of the latest revision of Federal Quarantine No. 48 on account of the Japanese beetle, issued by the United States Department of Agriculture, which became effective February 12, 1941, and which increases somewhat the area previously under quarantine and also modifies slightly the restrictions formerly imposed. You will please be governed accordingly. See paragraph 1, section 595, Postal Laws and Regulations.

Very truly yours,

RAMSEY S. BLACK,
Third Assistant Postmaster General.

B. E. P. Q. 499, Supplement No. 1, Third Revision.

APRIL 11, 1941.

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

JAPANESE BEETLE ADMINISTRATIVE INSTRUCTIONS MODIFIED

INTRODUCTORY NOTE

It has been found as a result of further experiments with treatments for freeing nursery stock and potted plants from the immature stages of the Japanese beetle, that 2½ pounds of methyl bromide per 1,000 cubic feet applied for a period of 3½ hours at a temperature of not less than 57° F., or for 3 hours at not less than 60° F., is sufficient to kill such larvae. These instructions are accordingly revised to authorize the use of such treatments in addition to the four schedules heretofore provided for in the second revision of supplement No. 1 to this circular.

§ 301.48-b *Administrative instructions to inspectors on the treatment of nursery products, fruits, vegetables, and soil, for the Japanese beetle. Treatment authorized.* Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by § 301.48-6, Chapter III, Title 7, Code of Federal Regulations [regulation 6 of the rules and regulations supplemental to Notice of Quarantine No. 48] subsection (1) (5) of § 301.48b¹ [on page 13 of the mimeographed edition of circular B. E. P. Q. 499, issued June 9, 1939] is hereby further modified to read as follows:

(5) *Methyl bromide fumigation*

Equipment.—An approved fumigation chamber equipped with vaporizing, air-circulating, and ventilating systems must be provided.

Application.—After the chamber is loaded, the methyl bromide must be vaporized within it. The air within the chamber must be kept in circulation during the period of fumigation. At the completion of the treatment, the chamber must be well ventilated before it is entered and the plants removed. The ventilating system should also be in continuous operation during the entire period of removal of the fumigated articles.

(i) Fumigation of plants, with or without soil

Temperatures, periods of treatment, and dosages.—The temperature of the soil (with bare root stock, the root spaces) and of the air for each type of treatment must remain throughout the entire period of treatment at the minimum specified in the following table, or higher:

Temperature at least	Period of treatment		Dosage (methyl bromide per 1,000 cubic feet)	Temperature at least	Period of treatment		Dosage (methyl bromide per 1,000 cubic feet)
	Hours	Pounds			Hours	Pounds	
1. 70° F.-----	2½	2	2	4. 57° F.-----	3½	2½	2½
2. 63° F.-----	2½	2½		5. 54° F.-----	4	2½	
3. 60° F.-----	3	2½	6. 50° F.-----	4½	2½		

The dosage shall be for each 1,000 cubic feet including the space occupied by the load.

Preparation of plants.—The treatment is to be applied to plants with bare roots or in 12-inch pots or smaller, or in soil balls not larger than 12 inches in diameter nor thicker than 12 inches when not spherical. The soil should not

¹ This section was originally issued as § 301.48a.

be puddled or saturated and must be in a condition which in the judgment of the inspector is suitable for fumigation. The plants should be stacked on racks or separated so that the gas can have access to both top and bottom surfaces of pots or soil balls. While not essential that the balls be completely separated from each other they should not be jammed tightly together. Treatments 1 and 2 may be employed in fumigating packaged plants prepared in a manner satisfactory to the inspector.

Varieties of plants.—The list of plants, including greenhouse, perennial, and nursery-stock types treated experimentally, is subject to continual expansion and, moreover, is too great to include in these instructions.

The schedule for the fumigation of strawberry plants as specified in subsection (1) (5) (ii) of § 301.48b [page 14 of the mimeographed edition of circular B. E. P. Q. 499] remains the same as heretofore.

This supplement supersedes Supplement No. 1—revised, dated September 27, 1940.

AVERY S. HOYT,
Acting Chief of Bureau.

[Filed with the Division of the Federal Register April 12, 1941, 11:12 a. m.; 6 F. R., 1919.]

B. E. P. Q. 499 (Supplement No. 4).

Effective May 1, 1941.

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

JAPANESE BEETLE ADMINISTRATIVE INSTRUCTIONS MODIFIED

Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by § 301.48—6, Chapter III, Title 7, Code of Federal Regulations [regulation 6 of the rules and regulations supplemental to Notice of Quarantine No. 48 on account of the Japanese beetle], subsections (i) (4), (k) (1), and (m) (2) of § 301.48b [see pages 6, 8, and 15, respectively, of the mimeographed edition of circular B. E. P. Q. 499, issued June 9, 1939], are hereby modified, effective May 1, 1941, to read as follows:

§ 301.48b. *Administrative instructions to inspectors on the treatment of nursery products, fruits, vegetables, and soil, for the Japanese beetle.*

(1) POTTING SOIL.

* * *

(4) *Lead arsenate treatment*

Season.—The treatment must be applied before August 1.

Condition and type of soil.—The soil must be friable. Wet soil must never be treated. The treatment is recommended only for soils that are slightly acid or neutral in reaction. Any type of soil may be treated provided it meets these requirements.

Dosage.—Two pounds to 1 cubic yard.

Application.—The lead arsenate must be thoroughly mixed with the soil.

Period of treatment.—Plants freed from soil and potted in soil treated in the above manner, by August 1, may be certified for shipment between the following October 1 and June 15, inclusive.

Handling of potted plants.—When plants potted in lead-arsenate-treated soil are plunged in beds or set in frames exposed to possible infestation, the soil of these beds or frames must previously have been treated with lead arsenate at the rate of 1,100 pounds per acre.

Treated plants carried after June 15.—When plants potted in soil treated as prescribed are carried after June 15, they may be again eligible for certification between October 1 and June 15, inclusive, of the second year if, on August 1 of the second year, analyses show the soil to contain lead arsenate at the rate of 2 pounds per cubic yard.

* * *

(K) SOIL IN AND AROUND COLDFRAMES, PLUNGING BEDS, AND HEELING-IN AREAS

* * *

(1) *Lead arsenate treatment*

Season.—The treatment must be applied before August 1 if the land is to be used in the fall.

Condition of soil.—The soil must be friable and in good tilth.

Dosage.—Twenty-six pounds to each 1,000 square feet, or 1,100 pounds per acre. For subsequent re-treatments, the quantity required to restore a concentration of 1,100 pounds per acre, as determined by chemical analyses, must be applied, except that determination by chemical analyses of a concentration of 1,000 pounds per acre will be acceptable without re-treatment.

Application.—The lead arsenate must be thoroughly mixed and incorporated with the upper 3 inches of soil.

Period of treatment.—Plants must not be placed on or in the soil thus treated until after October 1.

* * *

(M) TREATMENT OF PLANTS BEFORE DIGGING

* * *

(2) *Lead arsenate treatment*

Season.—Treatment must be applied by July 1. Plants may be certified when the period of treatment is completed, and until the following June 15.

Condition of soil.—The soil must be friable and in good tilth. This treatment is recommended only for soils that are slightly acid or neutral in reaction.

Dosage.—Twenty-six pounds to each 1,000 square feet, or 1,100 pounds per acre. For subsequent re-treatments, the quantity required to restore a concentration of 1,100 pounds per acre, as determined by chemical analyses, must be applied, except that determination by chemical analyses of a concentration of 1,000 pounds per acre will be acceptable without re-treatment.

Period of treatment.—Plants in plots treated initially must not be dug until October 1; those on re-treated plots may be dug on September 20.

Application.—Lead arsenate must be thoroughly mixed and incorporated with the upper 3 inches of soil. The ridge of soil between the plants in the rows and the soil about the base of the plants must be removed to a depth of 2 inches and placed in the space between the rows of plants. Lead arsenate may be applied with a suitable distributor, or broadcast by hand, before or after the hoeing operation is completed. Then the soil between the rows of plants must be cultivated three times. On the last cultivation, the cultivator is adjusted in such a manner that the treated soil is thrown toward the rows of plants. At least 3 inches of treated soil must be placed in the rows about the bases of the plants.

Varieties of plants.—The varieties of plants which have been treated successfully by this method are given in Bureau of Entomology and Plant Quarantine Circular E-418.

Safety zone.—Same as that prescribed in (k).

Marking.—Same as that prescribed in (k).

Done at Washington, D. C., this 25th day of April 1941.

[SEAL]

LEE A. STRONG,

Chief of Bureau.

[Filed with the Division of the Federal Register May 1, 1941, 11 : 17 a. m. ; 6 F. R. 2225.]

B. E. P. Q. 513.

Effective April 21, 1941.

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

ADMINISTRATIVE INSTRUCTIONS AMENDING THE RESTRICTIONS OF THE JAPANESE BEETLE QUARANTINE BY LIFTING CERTIFICATION REQUIREMENTS ON CERTAIN SHIPMENTS OF FRUITS AND VEGETABLES

Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by the fourth proviso of § 301.48, Chapter III, Title 7, Code of Federal Regulations [Japanese Beetle Quarantine (No. 48)], the first subparagraph of paragraph (1) of subsection (a) and paragraph (1) of subsection (b) of § 301.48-5 of said Chapter III, are hereby amended, effective April 21, 1941, to read as follows:

“§ 301.48-5. *Restrictions on the movement of fruits and vegetables* (a) *Control of movement*.—(1) Unless a certificate shall have been issued therefor, by an inspector, except as provided in subdivisions (i) to (iv), inclusive, of this section, no fruits or vegetables of any kind shall be moved interstate via refrigerator car or motortruck from any of the areas listed below to or through any point outside the regulated areas:

* * *

“(b) *Conditions of certification*.—(1) When the fruits and vegetables moving by motortruck have actually been inspected by the United States Department of Agriculture and found free from infestation. The number of inspection points for such certification will be limited and their location determined by shipping needs and further conditioned on the establishment at such points of provisions satisfactory to the inspector for the handling and safeguarding of such shipments during inspection. Such inspection may be discontinued and certification withheld by the inspector during periods of general or unusual flight of the beetles.”

The effect of the amendment is to waive all certification requirements on fruits and vegetables in lot shipments of three pieces or more by common carrier.

Done at Washington, D. C., this 15th day of April 1941.

AVERY S. HOYT,
Acting Chief of Bureau.

[Filed with the Division of the Federal Register April 21, 1941, 11:34 a. m.; 6 F. R. 2048.]

ANNOUNCEMENTS RELATING TO MEDITERRANEAN FRUITFLY AND MELONFLY QUARANTINE (NO. 13)

INSPECTION OF HAWAIIAN VESSELS AUTHORIZED DURING NIGHT HOURS

(Press notice)

MAY 13, 1941.

To aid emergency shipping needs, plant quarantine inspection for vessels arriving at mainland ports from Hawaii has been made possible during night as well as daylight hours, by a revision of Regulation 8 of Quarantine No. 13, the Department of Agriculture announced today. The change was effective May 12.

Heretofore boarding and inspection of these vessels at mainland ports was from sunrise to sunset, primarily because of the additional load which night inspections placed on a limited personnel.

Under the revised regulation, it will be possible to arrange for inspection between sunset and sunrise, provided the inspection service is notified sufficiently in advance, so that the required number of inspectors can be notified and assigned to this special duty.

Thorough inspection of vessels arriving from Hawaii is to prevent establishment in mainland fruit areas of the Mediterranean fruitfly and the melonfly, both of which are found in Hawaii. In this inspection the vessel itself, its cargo, and passengers' baggage are carefully examined to prevent the landing of any fruits or vegetables which might carry these pests from Hawaii. The frequent discovery in these vessels of Hawaiian products carrying these live insects emphasizes the importance of this inspection, the Department said.

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

MEDITERRANEAN FRUITFLY AND MELONFLY QUARANTINE

REVISION OF REGULATION 8

INTRODUCTORY NOTE

In regulation 8 of this quarantine, relating to the inspection of vessels, boarding and inspection of vessels arriving from Hawaii has heretofore been restricted to daylight hours, primarily because of limitations in inspection personnel. In order to expedite movement under existing emergency shipping conditions it is now considered desirable to modify this restriction, and the present revision permits boarding and inspection of vessels arriving from Hawaii during the night period, on condition that notice of the arrival of the vessel is given to the inspector far enough in advance to enable him to make the necessary arrangements for the inspection.

ORDER OF THE SECRETARY OF AGRICULTURE

Pursuant to the authority conferred upon the Secretary of Agriculture by Section 8 of the Plant Quarantine Act of August 20, 1912, as amended (7 U. S. C. 161), Section 301.13-8 of the subpart, entitled "Mediterranean Fruitfly and Melonfly" of Part 301, Chapter III, Title 7, Code of Federal Regulations [B. E. P. Q.-13] is hereby revised, effective May 12, 1941, to read as follows:

§ 301.13-8 *Inspection of vessels.*—Inspectors of the United States Department of Agriculture are authorized to enter upon ships or vessels from Hawaii at any time after they come within the territorial waters of any State, Territory, or District of the United States other than Hawaii, whether in the stream or at the dock, wharf, or mole, for the purpose of ascertaining by inspection whether any of the fruits or vegetables covered by the foregoing quarantine are contained in such ships or vessels as cargo or ships' stores, or whether there remains any infestation from such fruits or vegetables. All ships or vessels plying between Hawaii and any State, Territory, or District of the United States other than Hawaii, upon coming within the boundaries of any port within the United States other than Hawaii, must stop in the quarantine area of such port to permit boarding by inspectors of the United States Department of Agriculture for the purpose of making such inspection, and such ships or vessels must remain in the quarantine area until such inspection is completed. Such boarding shall be done only between the hours of sunrise and sunset, and any such ship or vessel arriving after sunset must remain at anchor in the quarantine area until boarded and released by an inspector of the United States Department of Agriculture the following morning: *Provided*, That boarding and inspection between the hours of sunset and sunrise may be done when notice in advance, giving the approximate hour of arrival and the number of passengers carried, if any, is furnished in time to permit satisfactory arrangements therefor by the inspector.

When such ship or vessel has been inspected in a manner satisfactory to the inspector making the inspection and is found to be apparently free from the articles enumerated in this quarantine, such inspector shall immediately issue and deliver to the person having charge or possession of such ship or vessel a certificate evidencing such inspection, which shall permit such ship or vessel to proceed from the quarantine area to anchorage or to dock, wharf, or mole.

Done at Washington, D. C., this 10th day of May 1941.

Witness my hand and the seal of the United States Department of Agriculture.

[SEAL]

CLAUDE R. WICKARD,
Secretary of Agriculture.

ANNOUNCEMENTS RELATING TO MEXICAN FRUITFLY QUARANTINE
(NO. 64)

TEXAS GRAPEFRUIT HARVEST EXTENDED THROUGH MAY 31

(Press notice)

APRIL 4, 1941.

Because of heavy rains which have greatly hindered the harvesting of grapefruit, regulations of the Mexican fruitfly quarantine have been modified to extend the harvesting season to the close of May in the Texas counties of Brooks, Cameron, Hidalgo, and Willacy—provided conditions of infestation do not necessitate an earlier closing—Dr. Lee A. Strong, Chief of the Bureau of Entomology and Plant Quarantine, announced today (circular B. E. P. Q. 512 revised).

The harvesting season normally closes, under the regulations, on April 30 except that in the counties of Dimmit, La Salle, and Webb, it closes on the last day of February, and no extension of the season was granted to these latter counties.

The season for harvesting Valencia oranges in the counties of Brooks, Cameron, Hidalgo, and Willacy was, last December, extended from April 30 to the close of May for the year 1941. Under the present order, no sterilization of the fruit is required. However, should conditions of infestation develop which would warrant the sterilization of citrus fruit shipped from the four counties, such action will be taken, Dr. Strong states.

The extension of the harvesting season for these fruits was announced after consultation with the Texas State Department of Agriculture.

B. E. P. Q. 512, revised.

April 2, 1941.

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

MEXICAN FRUITFLY REGULATIONS MODIFIED

INTRODUCTORY NOTE

Circular B. E. P. Q. 512, dated December 30, 1940, extended the harvesting season for Valencia oranges from April 30 to the close of May, for the year 1941, for the Texas counties of Brooks, Cameron, Hidalgo, and Willacy, provided conditions of infestation did not necessitate an earlier closing. This revision of the above circular extends the season on grapefruit also to May 31, 1941, for the above-named counties under the same provision as to conditions of infestation.

§ 301.64-5c *Administrative instructions modifying the restrictions of the Mexican fruitfly quarantine by extending the harvesting season on Valencia oranges and grapefruit from April 30 to May 31, 1941*—Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by the third proviso of § 301.64, Chapter III, Title 7, Code of Federal Regulations [Notice of Quarantine No. 64], it having been determined by me that a modification may be safely made without increasing the risk of spread of the Mexican fruitfly, § 301.64-5 (a) [subsection (a) of regulation 5 supplemental to this quarantine] is hereby modified to extend the harvesting season for Valencia oranges and grapefruit for the Texas Counties of Brooks, Willacy, Cameron, and Hidalgo to the close of May 31 for the year 1941, provided conditions of infestation do not necessitate an earlier closing date.

The host-free period for Valencia oranges and grapefruit, under this modification, will begin June 1 and continue through August 31, 1941, inclusive, in the above-named counties.

In the counties of Dimmit, La Salle, and Webb, the grapefruit harvesting season closed on February 28, 1941, under the regulations, and the orange har-

vesting season closes on April 30 as to these three counties and the portion of Jim Wells County which is under regulation. No modification is made as to the harvesting seasons in these counties.

AVERY S. HOYT,
Acting Chief of Bureau.

[Filed with the Division of the Federal Register April 3, 1941, 11:35 a. m.; 6 F. R. 1783.]

ANNOUNCEMENT RELATING TO WHITE-FRINGED BEETLE QUARANTINE (NO. 72)

B. E. P. Q. 485, Eighth Revision.

Effective May 1, 1941.

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

WHITE-FRINGED BEETLE REGULATIONS MODIFIED

§ 301.72a—*Administrative instructions; removal of certification requirements for specified articles.* (a) Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by the second proviso of § 301.72, Chapter III, Title 7, Code of Federal Regulations [Notice of Quarantine No. 72, on account of the white-fringed beetle], all certification requirements are hereby waived effective May 1, 1941, for the periods specified below, for the following articles enumerated in § 301.72-3.

(1) When moved interstate from any regulated area, certification requirements are waived throughout the year for the following articles when free from soil and when sanitation practices are maintained to the satisfaction of the inspector:

- Bird sand and bird gravel in packages of 5 pounds or less.
- Ground peat in amounts not to exceed 5 pounds per package.
- Orchid plants growing exclusively in *Osmunda* fiber.
- Osmunda* fiber (commonly known as *Osmundine*, or orchid peat).
- Unused lumber.
- Baled cotton lint and linters.
- Cottonseed when free from gin trash.

(2) When moved interstate from regulated parts of the following counties or parishes: In *Alabama*, Mobile County; in *Florida*, Escambia County; in *Louisiana*, East Baton Rouge, Jefferson, Orleans (including the city of New Orleans), Plaquemines, and Saint Bernard Parishes; in *Mississippi*, counties of Jackson, Hinds, and Pearl River; certification requirements are waived until February 1, 1942, for the following articles when free from soil and when sanitation practices are maintained to the satisfaction of the inspector:

- Potatoes and sweetpotatoes.
- Sweetpotato vines, draws, and cuttings.
- Cordwood, pulpwood, stump wood, and logs.
- Used or unused timbers, posts, poles, cross ties, and other building materials.
- Used lumber.
- Hay, roughage of all kinds, and straw.
- Peas, beans, and peanuts in shells, or the shells of any of these products.
- Seed cotton, and cottonseed when contaminated with gin trash.
- Used implements and machinery, scrap metal, junk, and utensils or containers coming in contact with the ground.
- Brick, tiling, stone, and concrete slabs and blocks.
- Nursery stock and other plants, which are free from soil.

It has been determined that the methods under which such articles and materials are produced and handled, the maintenance of sanitation practices, or the application of control measures and natural conditions, have so decreased the intensity of infestation in certain parts of the regulated areas as to eliminate risk of spread of the white-fringed beetle, thereby justifying the removal of certification requirements as set forth above.

(b) Except as specified above, all soil, earth, sand, clay, peat, compost, and manure, whether moved independent of, or in connection with or attached to nursery stock, plants, products, articles, or things, shall remain under the restrictions of § 301.72-3 throughout the year.

This revision supersedes all previous issues of circular B. E. P. Q. 485.

Done at Washington, D. C., this 21st day of April 1941.

[SEAL]

AVERY S. HOYT,
Acting Chief of Bureau.

[Filed with the Division of the Federal Register April 24, 1941, 11:41 a. m.; 6 F. R., 2119.]

MISCELLANEOUS ITEMS

LEE A. STRONG DIES IN ARIZONA

(Press notice)

JUNE 2, 1941.

The United States Department of Agriculture today (June 2) received word of the death this morning of Dr. Lee A. Strong, chief of the Bureau of Entomology and Plant Quarantine, in Tucson, Ariz. Doctor Strong had been chief of the Bureau from the time it was created, in 1934, by the consolidation of the Bureau of Entomology and the Bureau of Plant Quarantine. Previous to that he had been chief of the Bureau of Plant Quarantine and later chief of the Bureau of Entomology. For 30 years he fought the pests that attack plants and animals, and cause annual losses of many millions of dollars in the United States.

Informed of Doctor Strong's death, Secretary of Agriculture Claude R. Wickard said, "In the death of Lee Strong the Department has lost one of its best bureau chiefs. He was a natural leader, a good administrator, and a fine servant of the people of the United States."

Doctor Strong was born in Russell, Iowa, in 1886, but spent much of his early life in California. There he was connected with plant quarantine and inspection work for the State Department of Agriculture from 1910 to 1929, except for a year overseas, in 1918-19, with the 537th Engineers, U. S. Army, and for two years (1923-1925), when he was in charge of port inspection for the Federal Horticultural Board of the United States Department of Agriculture in Washington, D. C. From 1925 to 1929 he was Assistant Director of the California Department of Agriculture.

In 1929 Doctor Strong accepted an appointment as chief of the Plant Quarantine and Control Administration, later reorganized as the Bureau of Plant Quarantine, of the United States Department of Agriculture. In 1933, upon the retirement of C. L. Marlatt, he became chief of the Bureau of Entomology, and a year later, when the Bureau of Entomology and Plant Quarantine was set up, he was made chief of the consolidated bureau, a position which he held until his death.

Doctor Strong took a prominent part in the preliminary work that led to the organization of the National Plant Board and served as its chairman from 1924 to 1929. He was a member of the American Association of Economic Entomologists, being president in 1935; of the Entomological Society of Washington; and of the Cosmos Club. In 1938 he received the honorary degree of Doctor of Science from Louisiana State University.

Surviving Doctor Strong are his wife, Mrs. Edith Strong, and three children, Madeline, Lee A., Jr., and Helen.

Secretary Wickard said that A. S. Hoyt, who has been acting chief of the Bureau of Entomology and Plant Quarantine during Doctor Strong's illness, will continue in that capacity.

AMENDMENT OF CERTAIN ARMY REGULATIONS WITH RESPECT TO THE ENFORCEMENT OF PLANT QUARANTINE RESTRICTIONS OF THE UNITED STATES DEPARTMENT OF AGRICULTURE

Circular No. 83.

WAR DEPARTMENT,
Washington, April 28, 1941.

Changes in AR 30-1105, 30-1210, and 95-15.—Pending the revisions of AR 30-1105, July 30, 1932; AR 30-1210, July 23, 1932; and AR 95-15, April 21, 1930, the following changes in those regulations are published:

1. *AR 30-1105.*—Paragraph 7 is added as follows:

7. *Plant quarantine.*—*a.*—The entry into the United States of certain foreign-grown plants and plant products is controlled by quarantine or other restrictive orders issued by the Department of Agriculture to reduce the danger of introducing insect pests and plant diseases into the United States.

b. All surface vessels of the War Department arriving at a United States port from a port outside of the continental limits of the United States are subject to inspection by the Department of Agriculture. Port commanders will report all ship arrivals to the nearest Plant Quarantine Inspection Office of the Department of Agriculture.

2. *AR 30-1210.*—Paragraph 15 is rescinded and the following substituted therefor:

15. *Inspection of baggage and personal belongings of troop class passengers on Army transports.*—*a.*—Prior to arrival at a port in the United States, the commanding officer of troops on a transport from any port outside the continental limits of the United States will cause the baggage and other personal belongings of all troop class passengers to be inspected for prohibited fruits and vegetables which, if not consumed, must be destroyed before arrival.

b. The commanding officer of troops will certify in writing to the inspector of the Department of Agriculture who boards the vessel at quarantine that the inspection required by *a* above has been made and all prohibited fruits and vegetables disposed of as therein prescribed.

c. Baggage so inspected is exempt from further examination for the same purpose, but the foregoing requirements have no application to the baggage of first- and second-class passengers, which is always examined on the dock by the inspectors of the Department of Agriculture.

(A. G. 570 (2-20-41).)

3. *AR 95-15.*—Paragraph 3½ is added as follows:

3½. *Plant quarantine.*—*a.*—The entry into the United States of certain foreign-grown plants and plant products is controlled by quarantine or other restrictive orders issued by Department of Agriculture to reduce the danger of introducing insect pests and plant diseases into the United States.

b. No plant or plant product will be carried by any Army airplane into the continental limits of the United States unless a permit has been secured previously from the Department of Agriculture.

(A. G. 580.2 (2-20-41).)

BY ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL,
Chief of Staff.

Official:

E. S. ADAMS,
Major General,
The Adjutant General.

REVISION OF OREGON PLANT QUARANTINE RELATING TO GRAPEVINES AND CUTTINGS

THIRD ASSISTANT POSTMASTER GENERAL,
Washington, April 14, 1941.

Oregon Plant Quarantine Order No. 17 (A series) pertaining to grape phylloxera in other States has been modified effective March 24, 1941, so as to permit entry into Oregon from other States of grapevines or cuttings when accompanied with a certificate showing satisfactory disinfection treatment of the vines or cuttings under the supervision of a qualified plant inspector of the State of origin.

This modification will amend article 6, column III, of the instructions relating to Oregon State plant quarantines published in the Postal Bulletin of September 17, 1940, and on page 17 of the October 1940 Supplement to the Postal Guide, so that the same will read when revised:

"Grapevines and cuttings accepted with State of origin certificate that shipment is from an area or premises free of phylloxera, or certificate that shipment has been given an approved treatment under the supervision of a qualified inspector of State of origin."

Postmasters will, therefore, please make the necessary correction and be governed accordingly.

RAMSEY S. BLACK,
Third Assistant Postmaster General.

CUSTOMS REGULATIONS AMENDED—PLANT QUARANTINE

ARTICLE 580 (a) (2), CUSTOMS REGULATIONS OF 1937, RELATING TO THE TRANSMISSION TO COLLECTORS OF CUSTOMS BY IMPORTERS OF NOTICES OF ARRIVAL OF PLANTS OR PLANT PRODUCTS, AMENDED (T. D. 50394)

TREASURY DEPARTMENT,
OFFICE OF THE COMMISSIONER OF CUSTOMS,
Washington, D. C.

To Collectors of Customs and Others Concerned:

Article 580 (a) (2) [sec. 10.11 (b) (2)] of the Customs Regulations of 1937, is hereby amended to read as follows:

(2) The importer or his representative will submit to the collector at the port of first arrival for any type of entry, except rewarehouse and informal mail entries, a notice of arrival. The collector at the port of arrival will compare the notice which he receives from the importer or his representative with the shipping documents, certify to its agreement therewith, or note any discrepancies, and transmit it to the Secretary of Agriculture. The merchandise is not to be released until the said notice has been submitted. (R. S. 161, sec. 624, 46 Stat. 759; 5 U. S. C. 22, 19 U. S. C. 1624.)

W. R. JOHNSON,
Commissioner of Customs.

Approved May 17, 1941:
HERBERT E. GASTON,
Acting Secretary of the Treasury.

B. E. P. Q. 514.

PLANT-QUARANTINE IMPORT RESTRICTIONS, DOMINION OF CANADA

MAY 12, 1941.

This summary of the plant-quarantine import restrictions of the Dominion of Canada has been prepared for the information of exporters of plants and plant products to that country and plant-quarantine officials.

The circular was prepared by Richard Faxon, District Supervisor, Certification for Export, Division of Foreign Plant Quarantines, from the Destructive Insect and Pest Act and Regulations Thereunder, Edition of 1936, Customs Memoranda, Series D, No. 37 with supplements, and No. 49, and the Fruit, Vegetables, and Honey Act and Regulations. It was reviewed by the Secretary of the Destructive Insect and Pest Act Advisory Board, Department of Agriculture, Ottawa, Canada.

The information contained in this circular is believed to be correct and sufficiently complete for its purpose up to the time of preparation, but it is not to be interpreted as legally authoritative.

LEE A. STRONG,
Chief, Bureau of Entomology and Plant Quarantine.

B. E. P. Q. 514.

PLANT-QUARANTINE IMPORT RESTRICTIONS, DOMINION OF CANADA

MAY 12, 1941.

BASIC LEGISLATION

[The Destructive Insect and Pest Act; Revised Statutes of 1927, Chapter 47 Amended; Statutes of 1932, Chapter 19 Amended; Statutes of 1934, Chapter 13, An Act to Prevent the Introduction or Spreading of Insects, Pests, and Diseases Destructive to Vegetation]

The General Regulations provide that no pest or disease, or plant infested with any pest or disease, shall be admitted into Canada. All plants are subject to inspection on arrival. Further provisions refer mainly to domestic matters relating to inspectors' authority, certification of nursery stock, and other plant products, methods of enforcing control measures, promulgation of Orders in Council, etc.

CONCISE SUMMARY

CERTIFICATE REQUIREMENTS

Certificates of inspection are required for the following:

- Nursery stock (based on inspection at time of packing).
- Alfalfa meal from States infested with alfalfa weevil.
- Shelled corn, cut flowers, and entire plants, certain vegetables, and oat and rye straw, from States infested with European corn borer.
- Hawaiian fruits and plants.
- Forest products, stone and quarry products from States infested with gypsy and brown-tail moths.
- Potatoes from California (fumigation certificate).
- Potatoes from Pennsylvania, West Virginia, and Maryland (wart certificate).
- The certificates of inspection may be issued by either Federal or State officials unless one or the other is specifically designated to do so in the regulations.
- Certain fruits and vegetables from the United States must be certified as meeting Canadian import requirements by the Agricultural Marketing Service.

PROHIBITED OR RESTRICTED SEEDS

The importation of seeds in general, seed potatoes, and mushroom spawn into Canada is not restricted as a rule. However, the importation of the following seeds into Canada is prohibited or restricted: Black currant, rust barberry and European buckthorn, corn on the cob, seed potatoes, and tobacco.

The importation of peach seeds into British Columbia from States in which the Oriental fruit moth and peach yellows occur, is prohibited.

PROHIBITED AND RESTRICTED PRODUCTS

The following products are prohibited entry into Canada or British Columbia, or are restricted:

- Alfalfa hay: Prohibited from States infested with alfalfa weevil.
- Barberry (rust-carrying) and European buckthorn: Prohibited.
- Black currants (except fresh fruit): Prohibited.
- Chestnut and chinquapin: Restricted.
- Conifers, Christmas trees and greens: Prohibited from States infested with gypsy and brown-tail moths.
- Corylus* sp.: Prohibited entry into British Columbia from States infected with filbert blight.
- Elm logs, wood, and burls: Prohibited.
- Living insects (except honeybees), pests, bacteria, and fungus diseases destructive to vegetation: Prohibited, except under permit from Ottawa.
- Nursery stock from brown-tail or gypsy moth infested States: Restricted.
- Peach and nectarine stock: Restricted.
- Peach stock and fresh peaches: Prohibited entry into British Columbia from States in which the Oriental fruit moth and peach yellows occur.
- Pines, 5-leaved: Prohibited.
- Potatoes from Maryland, Pennsylvania, and West Virginia: Restricted.
- Products liable to carry Japanese beetle: Restricted.

FOREIGN REGULATIONS (NURSERY STOCK)

[Regulation No. 1 (Foreign), 2nd Revision, Governing the Admission of Nursery Stock into the Dominion of Canada]

The term "nursery stock" includes all living plants or portions of plants imported for ornamental purposes, propagation, or cropping. Seeds, seed potatoes, and mushroom spawn are not included.

PERMIT NECESSARY TO IMPORT NURSERY STOCK

Importers of nursery stock in Canada are required to apply to the Department of Agriculture in Ottawa for a permit. Detailed information must be given in the application regarding the proposed importation. In case a permit is issued to the importer, he is required to send the number of his permit to the shipper of the stock in the foreign country. The permit is retained by the importer for use in connection with the arrival of the shipment.

CERTIFICATION OF INSPECTION

Every shipment of nursery stock originating in the United States and entering Canada either by freight, express, or mail, must be accompanied by a certificate of inspection issued at the time of packing by an authorized official, either State or Federal. So-called blanket certificates, issued by State inspectors, based on field inspection only and issued for varying periods of time, are not acceptable. The original certificate must accompany the waybill or bill of lading and be furnished to the inspector at the port of importation by the transportation company. A copy certificate of inspection must be attached to each container. In the case of mail shipments the original certificate may be attached to the container.

MARKING OF CONTAINERS

Each container of nursery stock, in addition to bearing a copy certificate of inspection, must be clearly marked with the name and address of both consignor and consignee, the permit number, the port of importation, and a declaration showing the kinds of nursery stock contained therein. The permit number may be written on the label giving the other required information and should also appear on the invoices.

PORTS OF IMPORTATION

Nursery stock may enter Canada only through one of the following Customs ports of importation:

Halifax, Nova Scotia.	Niagara Falls, Ontario.
Saint John, New Brunswick.	Windsor, Ontario.
Montreal, Province of Quebec.	Winnipeg, Manitoba.
Ottawa, Ontario.	Estevan, Saskatchewan.
Toronto, Ontario (parcel post only).	Vancouver, British Columbia.

INSPECTION ON ARRIVAL

Nursery stock entering Canada shall be subject to inspection before delivery to the consignee, preferably at the port of importation. If carrying any pest or disease it may be treated or destroyed as determined by the inspector. In some cases condemned nursery stock may be returned to the shipper with the expense involved borne by the importer or shipper.

IMPORTATION BY MAIL

Parcel-post importations of nursery stock must be routed via a port of importation for inspection. When granted a permit the importer is furnished with a mailing label, which he is required to forward to the shipper to affix to the package of stock. No other address is necessary on the outside of the package as the label will direct the package to the proper port for examination. The shipper should place the ultimate consignee's name and address on the inside of the package. After inspection a reforwarding label will be attached which will direct the package to the importer.

REGULATIONS GOVERNING THE IMPORTATION OF MISCELLANEOUS PLANTS AND PLANT PRODUCTS

Alfalfa hay.—The importation into Canada of alfalfa hay from California, Colorado, Idaho, Nevada, Oregon, Utah, and Wyoming is prohibited on account of the alfalfa weevil (*Phytonomus posticus* Gyll.). Shipments consigned on through bill of lading via above-listed States are not affected. All shipments consigned to Manitoba, Saskatchewan, Alberta, or British Columbia must be accompanied by a certificate of origin signed by the consignor. (Regulation No. 11 (Foreign) 4th Revision.)

Alfalfa meal.—Importations into Canada of alfalfa meal from the same above-listed seven States shall be accompanied by a certificate issued by an authorized official of the State in which the meal was ground, to the effect that the contents of the shipment were ground in and shipped from an area known to be free from the alfalfa weevil, and further that the alfalfa hay, from which the meal was prepared, was grown in an area free from the alfalfa weevil. (Regulation No. 11 (Foreign) 4th Revision.)

Barberry and European buckthorn.—Importations into Canada from all countries are prohibited of all species, hybrids, and horticultural varieties, including the seeds, of the following:

(a) European buckthorn, *Rhamnus cathartica* L.

(b) Barberry, genus *Berberis*, except in the case of species, hybrids, and horticultural varieties which have been determined as immune to black stem rust of wheat (*Puccinia graminis* Pers.). There is no restriction on the importation of Japanese barberry (*Berberis thunbergii* D. C.). (Regulation No. 9 (Foreign), 1st Revision.)

Black currants.—Importations into Canada of rooted plants, grafts, cuttings, or seeds of cultivated black currants from all countries are prohibited, as their presence is a serious obstacle to the control of white pine blister rust (*Cronartium ribicola* J. C. Fischer). However, there is no restriction on the importation of fresh fruit of black currants. (Regulation No. 8 (Foreign) 3d Revision.)

Chestnut and chinquapin.—The importation into Canada of all species, hybrids, and horticultural varieties of the genus *Castanea* from Asia and the United States is prohibited, unless each importation is accompanied by a certificate, issued and signed by an authorized officer of the country of origin, stating that the stock originated in a district which has been free from the chestnut bark disease (*Endothia parasitica* (Murr.) And. and And.) for the last 10 years, and has been inspected and found free from the disease. (Regulation No. 7 (Foreign) 1st Revision.)

Conifers, Christmas greens and greenery.—The importation into Canada of conifers, such as spruce, fir, hemlock, pine, juniper, and arborvitae or the foliage thereof, and decorative plants, such as holly, laurel, etc., known and described as "Christmas greens and greenery," is prohibited from Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut, on account of the gypsy moth (*Porthetria dispar* L.), and the brown-tail moth (*Nygmia phaeorrhoca* Don.). (Regulation No. 5 (Foreign) 1st Revision.)

Corn.—(a) *On the cob*.—The importation of corn on the cob into Canada is prohibited from Connecticut, Indiana, Kentucky, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia, and Wisconsin, on account of the European corn borer (*Pyrausta nubilalis* Hubn.).

Corn.—(b) *Shelled*.—The importation of shelled corn into Canada is prohibited from the above 17 States (a) unless accompanied by a certificate of inspection issued by an authorized officer of the United States Department of Agriculture, or a State Department of Agriculture, which states that the shipment is free from European corn borer.

Corn.—(c) *Broom*.—The importation of broomcorn, all sorghums, and Sudan grass into Canada is prohibited from the above 17 States (a). There is no restriction on importations from other States when shipped on a through bill of lading via the quarantine States or in case of a reshipment from a listed State when accompanied by a certificate of origin signed by an authorized State or Federal inspector. (Regulation No. 10 (Foreign) 7th Revision.)

Corylus spp.—The importation into British Columbia of plants or cuttings of all species, hybrids, and horticultural varieties of the genus *Corylus* (hazel, cob, or filbert) is prohibited from the States of Montana, Wyoming, Colorado, New Mexico, and all States east of these on account of the filbert blight (*Cryptosporella anomala* (Pk.) Sacc.). (Regulation No. 15 (Foreign).)

Cut flowers and vegetables.—During the period June 1 to December 31, the importation into Canada of cut flowers and entire plants of chrysanthemum, aster, cosmos, zinnia, hollyhock, gladiolus, and dahlia, and celery, green beans in the pod, beets with tops, and rhubarb, is prohibited from the States of Connecticut, Maine, Massachusetts, New Hampshire, and Rhode Island, unless accompanied by a certificate of inspection issued by a Federal or State inspector, declaring the shipment to be free from European corn borer. (Regulation No. 10 (Foreign) 7th Revision.)

Elm logs, elm wood, elm burls.—The importation into Canada of all species and varieties of the genera *Ulmus* and *Zelkova*, including elm logs and elm burls of any description, from all countries, is prohibited on account of the Dutch elm disease (*Ceratostomiella ulmi* (Schwarz) Buisman). (Regulation No. 17 (Foreign) 1st Revision.)

Forest products—logs, tan bark, cordwood, posts, poles, railway ties, lumber.—Importation into Canada from the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut, is prohibited, unless accompanied by a certificate issued by an officer of the United States Department of Agriculture, declaring the shipment free from brown-tail or gypsy moth, or both. (Regulation No. 5 (Foreign) 1st Revision.)

Hawaiian fruits and plants.—The importation into Canada of all noncanned fruits and plants from Hawaii is prohibited, except ginger root, taro, and the fruits of pineapple, banana, and cocout, which may be imported provided they have been inspected by an officer of the United States Department of Agriculture and have been certified to be free from infestation by the Mediterranean fruitfly (*Ceratitis capitata* Wied.). (Regulation No. 4 (Foreign) 3d Revision.)

Living insects (except honeybees), pests, bacteria, and fungus diseases destructive to vegetation.—Importation into Canada is prohibited from all countries unless a permit has been procured from the Department of Agriculture, Ottawa. (Regulation No. 21 (Foreign).)

Nursery stock from brown-tail and gypsy moth infested area.—The importation into Canada of nursery stock, including all plants for the purpose of propagation, except conifers, etc., and seeds and seed potatoes, is prohibited from Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut, unless accompanied by a certificate issued by an officer of the United States Department of Agriculture, showing that the stock has been inspected and found free from brown-tail or gypsy moth, or both. (Regulation No. 5 (Foreign) 1st Revision.)

Peach and nectarine stock.—The importation of peach and nectarine stock (trees and roots), and any tree or shrub grafted or budded on such stock, is prohibited from the United States, unless each importation is accompanied by a certificate issued and signed by an authorized Federal or State official, stating that the stock comes from a nursery on which the phony peach disease does not occur nor within 1 mile of its boundaries; and that each piece of stock has been examined by an authorized inspector and found free from the peach tree borer (*Aegeria eritiosa* Say). (Regulation No. 14 (Foreign) 5th Revision.)

Peaches—fresh, peach seeds, and peach nursery stock.—The importation of fresh peaches, peach nursery stock, and peach seeds or pits into British Columbia is prohibited from the States of Wisconsin, Illinois, Missouri, Arkansas, and Texas, and all States east thereof on account of the Oriental fruit moth (*Grapholitha molesta* Busck) and the peach yellows. A certificate of origin, signed by the consignor, must accompany these products into British Columbia from States west of, but not including, the five above-mentioned States. (Regulation No. 14 (Foreign) 5th Revision.)

Pines, 5-leaved.—The importation into Canada of all five-leaved species of the genus *Pinus* and their horticultural varieties is prohibited from all countries on account of the white pine blister rust (*Cronartium ribicola* J. C. Fischer). (Regulation No. 6 (Foreign) 2nd Revision.)

Potatoes.—The importation of potatoes into Canada is prohibited from Europe, Azores, Canary Islands, Newfoundland, St. Pierre, and Miquelon.

Importation from California is prohibited unless shipments are accompanied by a certificate of fumigation issued by the California Department of Agriculture. The following fumigation methods have been authorized:

Seventy-five minutes in not less than a 20-minute mercurial vacuum, with a dosage of not less than 28 pounds of carbon bisulphide and carbon dioxide in combination, per 1,000 cubic feet of space. (Regulation No. 3 (Foreign) 4th Revision.)

Vacuum fumigation in not less than a 27-minute mercurial vacuum with dosage schedule of not less than 2½ pounds of methyl bromide per 1,000 cubic feet for a period of 90 minutes. (Supplement No. 2, Customs Memorandum, August 11, 1936.)

Vacuum fumigation in not less than 27-minute mercurial vacuum with a dosage schedule of not less than 35 pounds of methyl bromide and carbon dioxide in combination per 1,000 cubic feet for a period of 90 minutes (not less than 7 percent of this mixture should be methyl bromide). (Supplement No. 2, Customs Memorandum, August 11, 1936.)

Potatoes fumigated as above must not be exposed to reinfestation by the potato tuber moth (*Phthorimaea operculella* Zeller).

Importations from Pennsylvania, West Virginia, and Maryland shall be accompanied by a Federal or State certificate declaring that the potatoes were grown outside any area quarantined on account of the potato wart disease (*Synchytrium endobioticum* (Schilb.) Perc.). (Regulation No. 3 (Foreign) 4th Revision.)

Certified seed potatoes.—Each bag or other container must have attached thereto a certified seed potatoes tag issued by the proper authority of the State or District in which the potatoes were grown, certifying that they have been grown and approved especially for use as seed, in accordance with the official rules and regulations of the Government of the country of production. (Customs Memorandum, Series D No. 49—T. M. R. 12.)

Stone and quarry products.—The importation of stone and quarry products into Canada is prohibited from the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut, unless certified to be free from gypsy and brown-tail moths by an officer of the United States Department of Agriculture. (Regulation No. 5 (Foreign) 1st Revision.)

Straw—oat and rye.—During the period June 1 to December 31, the importation of oat and rye straw into Canada is prohibited from the States of Connecticut, Maine, Massachusetts, New Hampshire, and Rhode Island, unless accompanied by a certificate of inspection issued by an authorized State or Federal officer declaring the shipment to be free from European corn borer. Shipments passing through these States from other States on a through bill of lading, or reshipments from the listed States when accompanied by a certificate of origin issued by an authorized State or Federal inspector, are not affected. (Regulation No. 10 (Foreign) 7th Revision.)

Tobacco seed.—The importation of tobacco seed (*Nicotiana tabacum* L.) including all hybrids and varieties, into Canada, is prohibited from Australia and the United States on account of the blue mold disease (*Peronospora hyoscyami* DeBy.). (Regulation No. 20 (Foreign).)

IMPORTS FROM AREAS IN THE UNITED STATES INFESTED WITH THE JAPANESE BEETLE

Although no special regulations have been established under the Destructive Insect and Pest Act governing the importation of products liable to carry the Japanese beetle from the infested areas in the United States, it is required that any importations of products affected by the Japanese Beetle Quarantine, maintained by the United States Department of Agriculture, conform with the provisions of that quarantine. Any importations which are not accompanied by the required certificate will be refused entry into Canada. Such action is in accordance with the provisions of the General Regulations under the Destructive Insect and Pest Act and also in conformity with the Japanese Beetle Quarantine as applying to cases where shipments involved are transported from a quarantined area through a nonregulated area en route to Canada.

CERTIFICATION BY AGRICULTURAL MARKETING SERVICE

Fruits and vegetables.—The following fruits and vegetables are required to be accompanied by a Government Inspection Certificate stating that at the place and time of direct shipment to Canada the produce "meets Canadian import requirements:" Apples, apricots, asparagus, beets or carrots without tops, cabbage, cantaloups, celery, cherries, grapes, head lettuce, onions without tops, parsnips, peaches, pears, plums, prunes, potatoes, rhubarb, rutabagas, and tomatoes. The above-noted "Government inspection certificate" is issued by the Agricultural Marketing Service; an export certificate (Form EQ-375) is not required.

(Regulations under the Fruit, Vegetables, and Honey Act, Acts, Orders and Regulations No. 35 Revised 1940, Administered by The Dominion Department of Agriculture, Marketing Service—Fruit and Vegetable Division.)

B. E. P. Q. 514, Supplement No. 1.

PLANT-QUARANTINE IMPORT RESTRICTIONS, DOMINION OF CANADA

JUNE 26, 1941.

[Customs Memorandum, Series D No. 37, Supplement No. 4, Ottawa, May 22, 1941;
Destructive Insect and Pest Act]

ADDITIONAL TREATMENT FOR CALIFORNIA POTATOES AUTHORIZED

Atmospheric fumigation with methyl bromide has been authorized for potatoes from California imported into Canada in addition to the vacuum fumigations previously authorized. (See "Potatoes," p. 8, B. E. P. Q. 514.) This addition to Regulation No. 3 (Foreign) provides that potatoes from California may be imported when accompanied by a certificate signed by an authorized inspector of either the United States or California Departments of Agriculture, indicating that the potatoes covered by the certificate have been subjected to atmospheric fumigation in an airtight fumigating chamber or refrigerator car with methyl bromide at one of the following dosages:

At not less than 65° F.—2 pounds methyl bromide per 1,000 cubic feet for not less than 3 hours.

At not less than 70° F.—2 pounds methyl bromide per 1,000 cubic feet for not less than 2 hours.

A recognized chemical test must be used to determine freedom from leaks of methyl bromide in the chamber or car used for fumigation.

The certificate is to include the dosage used, a statement that the chamber or car was found free from leaks of methyl bromide, the shipping point, date of fumigation, car name and number, the number of containers in the consignment, and the name and address of the shipper and consignee.

BROOMCORN ADMITTED UNDER CERTIFICATION

[Regulation No. 10 (Foreign) 7th Revision, Section II]

(a) Broomcorn for manufacturing, and clean seed of broomcorn, may be imported from the 17 States listed under "*Corn.*—(a)," page 6 of B. E. P. Q. 514, provided such shipments are accompanied by a certificate of inspection issued by an authorized officer of the Federal or State Departments of Agriculture, which states that the shipment is free from infestation by the European corn borer. (Add to "*Corn.*—(c) Broom," p. 6, B. E. P. Q. 514.)

AVERY S. HOYT,

Acting Chief, Bureau of Entomology and Plant Quarantine.

B. E. P. Q. 404, Revised, Supplement No. 4.

PLANT-QUARANTINE IMPORT RESTRICTIONS, BRITISH INDIA

JUNE 24, 1941.

[Department of Education, Health and Lands, Notification No. F. 193/40—A, Agriculture,
New Delhi, February 3, 1941]

IMPORTATION OF LIVE INSECTS

The following Order is for the purpose of prohibiting, regulating, and restricting the import of live insects into British India:

1. In this Order "insect" means a living insect, and includes eggs of an insect.
2. No insect shall be imported into British India unless it is accompanied by—

(a) A special permit authorizing such importation issued by the Central Government or by an Officer authorized by the Central Government in this behalf;

(b) A certificate of freedom from disease granted by an Entomologist of the Government of the country of origin.

3. The provisions of paragraph 2 of this Order shall not apply to—

(a) Bees and silkworms;

(b) Parasites and destroyers of injurious insects or other pests intended for the control of such insects or pests, when imported by the authorities of the institutions named below:

- The Imperial Agricultural Research Institute, New Delhi.
- The Imperial Veterinary Research Institute, Mukteswar.
- The Forest Research Institute and College, Dehra Dun.
- The Public Health Commissioner with the Government of India.
- The Indian Research Fund Association.
- The Departments of Agriculture, Madras, Bombay, Bengal, United Provinces, Punjab, Bihar, Central Provinces and Berar, Assam, North-West Frontier Province, Sind, Orissa, and Mysore.

[Notification No. F.-43-15 (16)/40-A, Agriculture, New Delhi, February 4, 1941. Further amends Notification No. F.-320/35-A, dated July 20, 1936]

IMPORTATION OF UNMANUFACTURED TOBACCO

Under the provisions of this Order (1) the words "unmanufactured tobacco imported from Burma" are to be inserted after "other than" in article 5 on page 6 of B. E. P. Q. 404, Revised. Article 5 should, therefore, now read as follows:

"No plants, other than *unmanufactured tobacco imported from Burma*, fruits and vegetables intended for consumption, and potatoes, shall be imported into British India by sea, unless accompanied by an official certificate in the form prescribed and unless they are free from injurious insects and diseases."

(2) In paragraph 8 B (see Supplement No. 1, February 16, 1940) insert the words "by sea" after "British India."

AVERY S. HOYT,

Acting Chief, Bureau of Entomology and Plant Quarantine.

PENALTIES IMPOSED FOR VIOLATIONS OF THE PLANT QUARANTINE ACT

According to reports received by the Bureau during the period April 1 to June 30, 1941, penalties have recently been imposed by the proper authorities for violations of the Plant Quarantine Act, as follows:

QUARANTINES AFFECTING MEXICAN PRODUCTS

In the case of the United States versus the persons listed below, for attempting to smuggle in contraband plant material, the penalties indicated were imposed by the United States customs officials at the following ports:

Name	Port	Contraband	Penalty
Josefa Cardero	Lemon Grove, Calif.	8 mangoes	\$1. 00
Mrs. Ma C. Cesena	do	3 mangoes	1. 00
Mrs. Guadalupe R. de Don	San Ysidro, Calif.	8 mangoes and 1 mango seed	1. 00
Mrs. Paula L. Reyna	do	2 mangoes and 2 mango seeds	1. 00
Milton Garcia	Brownsville, Tex.	2 mangoes	1. 00
Mrs. Isabel Perez	do	1 mango	1. 00
Mrs. Trinidad Hernandez	do	2 mangoes	1. 00
Josephina Zuniga	Del Rio, Tex.	3 avocados	1. 00
Eliza Lopez Vda. de Martinez	Eagle Pass, Tex.	1 orange	1. 00
Juana Sierra de Reyes	do	1 plant	1. 00
Lilia Guajardo	do	do	1. 00
Alicia Carbajal	do	2 plants	1. 00
Barbara Lucero	El Paso, Tex.	6 mangoes and 3 bulbs	1. 00
Mariano Almanza	do	2 avocados	. 30
Maria Stahel	do	4 plants with soil	1. 00
Jovita Doria De Clark	do	1 avocado with seed	1. 00
Albino Lopez	do	14 mangoes	1. 00
Mrs. Luciana Adolfo Baca	do	2 plants in soil	. 50
Andres Garza	Hidalgo, Tex.	10 plants, 5 avocados with seed	3. 50
Eloengie Villareal	do	6 plants	2. 00
Jesus Garza de Lopez	do	2 plants	1. 00
Tomas Auler	do	2 mangoes	1. 00
Estaban Ramos	do	do	1. 00
Françisco Almanza	do	3 avocados	1. 00
Felisa Chapa	do	2 avocado seed	1. 00

Name	Port	Contraband	Penalty
Enrique Vallejo	Hidalgo, Tex.	1 mango	\$1.00
Josefa Sierra	do	do	1.00
Melquiades Casares	do	2 avocados	1.00
Adelina Rodriguez	do	1 mango and 1 avocado seed	1.00
Manuela Tamez	do	3 mangoes, 1 peach, and 3 avocado seed.	1.00
Prajedes Rangel	do	5 avocados and 3 mangoes	1.00
Jesus Hueto	do	2 avocados	1.00
Mrs. Ellena Villarreal	Laredo, Tex.	1 avocado	1.00
Mrs. Jacob Ayala Motina	do	1 mango	1.00
Podolfo Cantu	do	1 avocado with seed	1.00
Juana Garcia	do	5 avocado seed	1.00
Sally Ann Williams	do	4 tulip bulbs and 1 avocado seed	1.00
Jesus Arredondo	do	11 plants	1.00
J. Soldana	do	3 oranges	1.00
Josephina Ale	do	3 sweetpotatoes	1.00
Geogaria Lozano	do	1 orange	1.00
Mrs. Felijax Ayala de Serna	do	2 oranges	1.00
Mannuel Escamilla	do	10 plants	1.00
Rouel Garza	do	2 oranges	1.00
Mrs. Paula Brisingo	do	1 mango	1.00
Mrs. Margarita Romero	do	2 mangoes	1.00
N. C. Collins	do	2 mangoes and 1 avocado	1.00
Maria A. Gutierrez	do	1 plant	1.00
Mrs. Elvira Garza de Sanchez	do	do	1.00
Miss Felicitas Banda	do	1 avocado with seed, 1/4 pound tree seed, and 13 plants.	3.00
Gabriel Ficazo Jimenez	do	2 manieys	1.00
Juana Dinos	do	1 apple, 2 mangoes, and 6 avocados.	3.00
Mrs. G. H. Jones	do	4 plants	1.00
Earvista Villegas	do	1 mango	1.00
Fred Shinn	do	2 mangoes	1.00
Mannuel Gutierrez	do	4 avocados	1.00
Delores Resendes de Lugo	do	3 mangoes	1.00
Elvida Caballero	do	1 mango	1.00
Alice L. Rastede	do	1 avocado seed and 1 maniey seed.	1.00
Longino Herrera	do	1 mango	1.00
Louis Pelano	do	2 avocados	1.00
L. J. Matula	do	1 plant	1.00
Laida Gonzalez	do	2 mangoes	1.00
Maria Montes	do	7 apricots	1.00
Russell Keller	do	1 mango	1.00
Mrs. Emma Keller	do	1 sweet lime and 7 plants	1.00
Alice Davis	do	3 mangoes	1.00
Mrs. Arthur Frankel	do	6 mangoes	1.00
Mrs. A. Martinez	do	2 plants	1.00
Elvira O. de Gonzalez	do	18 plants	1.00
Miss Dora Garza	do	7 plants	2.00
Margarita Smith	do	4 plants and 1/8 pound tree seed	1.00
Manuel Romero	do	2 mangoes	1.00
W. N. Blackwood	do	2 cacti plants	1.00
Roquel L. de Lay	do	1 sweet lime	1.00
Beatrice de la Rosa	do	1 plant	1.00
W. S. Stallings, Jr.	do	2 mangoes	1.00
Genaro Ybarra	do	1 avocado	1.00
Julio C. Rodriguez	do	6 plants	1.00

ORGANIZATION OF THE BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

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S. A. ROHWER, *Assistant Chief.*
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United States Department of Agriculture

BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

SERVICE AND REGULATORY ANNOUNCEMENTS

JULY—SEPTEMBER 1941

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QUARANTINE AND OTHER OFFICIAL ANNOUNCEMENTS

ANNOUNCEMENTS RELATING TO DUTCH ELM DISEASE QUARANTINE (NO. 71)

DUTCH ELM DISEASE QUARANTINE REVISED

[Press notice]

SEPTEMBER 25, 1941.

Revision of the Federal quarantine and regulations on Dutch elm disease was announced today by the Department of Agriculture to be effective October 1. This revision brings under regulation a few additional counties in New Jersey,

New York, and Connecticut, States included under the quarantine now current. It also places under Federal quarantine parts of Pennsylvania, where infection had been found but heretofore included under State quarantine only. Placing portions of Pennsylvania under Federal regulation will, it is believed, facilitate the movement of restricted articles within regulated areas of the quarantined States.

The revision provides for removing from the regulated area the town of Huntington in Suffolk County, N. Y., and for adding to the area under regulation parts of the counties of Berks, Bucks, Lehigh, Luzerne, Monroe, Montgomery, Northampton, Philadelphia, and Susquehanna in Pennsylvania; New London in Connecticut; Burlington and Ocean in New Jersey; and Albany, Broome, Chenango, Delaware, Greene, Otsego, and Sullivan in New York.

Provision is made in this revision whereby the Chief, Bureau of Entomology and Plant Quarantine, may modify restriction of the regulations by making them less stringent upon determination of safety as to pest risk.

B. E. P. Q. 71.

Revision of Quarantine and Regulations
effective October 1, 1941

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

DUTCH ELM DISEASE QUARANTINE

INTRODUCTORY NOTE

This revision of the quarantine and regulations extends the regulated areas to include parts of nine Pennsylvania counties and additional sections in Connecticut, New Jersey, and New York where the Dutch elm disease has been located, including parts of the following newly added counties: New London County, Conn., Burlington and Ocean Counties, N. J., and the New York counties of Albany, Broome, Chenango, Delaware, Greene, Otsego, and Sullivan. The town of Huntington, Suffolk County, N. Y., has been removed from the regulated area. The Chief of the Bureau of Entomology and Plant Quarantine, under authorization contained in the present revision of the quarantine notice, may modify, by making less stringent, the restrictions of the regulations.

SUMMARY

The areas covered by these regulations comprise parts of Connecticut, New Jersey, New York, and Pennsylvania as designated in § 301.71-3.

These regulations prohibit the interstate movement from the regulated areas of all parts of elms of all species, except that elm lumber or products manufactured from or containing elm wood, if entirely free from bark, are exempt from restriction.

No restrictions are placed on the interstate movement wholly within the regulated area.

Shipments originating outside the regulated area may be moved through the regulated area only on through billing. Restricted articles trucked through the regulated area in summer must be covered.

DETERMINATION OF THE SECRETARY OF AGRICULTURE

The Secretary of Agriculture, having given the public hearing required by law and having determined that it was necessary to quarantine the States of Connecticut, New Jersey, and New York, to prevent the spread of the Dutch elm disease (*Ceratostomella ulmi* Buisman (*Graphium ulmi* Schwarz)), a dangerous plant disease not theretofore widely prevalent or distributed within and throughout the United States, on February 20, 1935, promulgated Notice of Quarantine 301.71, Part 301, Chapter III, Title 7, Code of Federal Regulations, and the regulations supplemental thereto, governing the movement of elm plants or parts thereof of all species of the genus *Ulmus*, irrespective of whether nursery, forest, or privately grown, including (1) trees, plants, leaves,

twigs, branches, bark, roots, trunks, cuttings, and scions of such plants; (2) logs or cordwood of such plants; and (3) lumber, crates, boxes, barrels, packing cases, and other containers manufactured in whole or in part from such plants (unless the wood was entirely free from bark), from any of the above-named States into or through any other State or Territory or District of the United States, §§ 301.71-1-6, inclusive, Part 301, Chapter III, Title 7, Code of Federal Regulations [B. E. P. Q.—Q. 71, effective on and after February 25, 1935]. The Secretary of Agriculture, having given a further public hearing in the matter, has determined that it is necessary to revise the quarantine and regulations for the purpose of extending the regulated areas owing to the existence of substantial infections of the Dutch elm disease in Pennsylvania and in additional sections of Connecticut, New Jersey, and New York, and to make other modifications.

ORDER OF THE SECRETARY OF AGRICULTURE

Pursuant to the authority conferred upon the Secretary of Agriculture by section 8 of the Plant Quarantine Act of August 20, 1912, as amended (7 U. S. C. 161), the subpart entitled "DUTCH ELM DISEASE" of Part 301, Chapter III, Title 7, Code of Federal Regulations [B. E. P. Q.—Q. 71] is hereby amended effective October 1, 1941, to read as follows:

SUBPART—DUTCH ELM DISEASE

QUARANTINE

§ 301.71. *Notice of Quarantine.*—Under the authority conferred by section 8 of the Plant Quarantine Act of August 20, 1912, as amended (7 U. S. C. 161), the Secretary of Agriculture quarantines the States of Connecticut, New Jersey, New York, and Pennsylvania, to prevent the spread of the Dutch elm disease. Hereafter, elm plants or parts thereof of all species of the genus *Ulmus*, irrespective of whether nursery, forest, or privately grown, including (1) trees, plants, leaves, twigs, branches, bark, roots, trunks, cuttings, and scions of such plants; (2) logs or cordwood of such plants; and (3) lumber, crates, boxes, barrels, packing cases, and other containers manufactured in whole or in part from such plants (unless the wood is entirely free from bark) shall not be shipped, offered for shipment to a common carrier, received for transportation or transported by a common carrier, or carried, transported, moved, or allowed to be moved from any of said quarantined States into or through any other State or Territory or District of the United States in manner or method or under conditions other than those prescribed in the regulations hereinafter made and amendments thereto: *Provided*, That the restrictions of this quarantine and of the regulations supplemental thereto may be limited to the areas in a quarantined State now, or which may hereafter be, designated by the Secretary of Agriculture as regulated areas when, in the judgment of the Secretary, the enforcement of the aforesaid regulations as to such regulated areas shall be adequate to prevent the spread of the Dutch elm disease: *Provided further*, That such limitations shall be conditioned upon the said State providing for and enforcing such control measures with respect to such regulated areas as, in the judgment of the Secretary of Agriculture, shall be deemed adequate to prevent the spread of the Dutch elm disease therefrom to other parts of the State: *And provided further*, That certain articles classed as restricted herein may because of the nature of their growth or production or their manufactured or processed condition, be exempted by administrative instructions issued by the Chief of the Bureau of Entomology and Plant Quarantine when, in his judgment, such articles are considered innocuous as carriers of infection: *And provided further*, That whenever, in any year, the Chief of the Bureau of Entomology and Plant Quarantine shall find that facts exist as to the pest risk involved in the movement of one or more of the articles to which the regulations supplemental hereto apply, making it safe to modify, by making less stringent, the restrictions contained in any such regulations, he shall set forth and publish such finding in administrative instructions, specifying the manner in which the applicable regulation should be made less stringent, whereupon such modification shall become effective, for such period and for such regulated area or portion thereof as shall be specified in said administrative instructions, and every reasonable effort shall be made to give publicity to such administrative instructions throughout the affected areas.

REGULATIONS

§ 301.71-1. *Definitions.*—For the purpose of these regulations the following words, names, and terms shall be construed, respectively, to mean:

(a) *Dutch elm disease.*—The plant disease known as the Dutch elm disease (*Ceratostomella ulmi* Buisman (*Graphium ulmi* Schwarz)), in any stage of development.

(b) *Quarantined area.*—Any State quarantined by the Secretary of Agriculture to prevent the spread of the Dutch elm disease.

(c) *Regulated area.*—Any area in a quarantined State which is now, or which may hereafter be, designated as such by the Secretary of Agriculture in accordance with the provisos of § 301.71, as revised.

(d) *Moved interstate.*—Shipped, offered for shipment to a common carrier, received for transportation or transported by a common carrier, or carried, transported, moved, or allowed to be moved from one State or Territory or District of the United States into or through any other State or Territory or District.

(e) *Inspector.*—An inspector of the United States Department of Agriculture.

§ 301.71-2. *Limitation of restrictions to regulated areas.*—Conditioned upon the compliance on the part of the State concerned with the first and second provisos to § 301.71, the restrictions provided in these regulations on the interstate movement of plants and plant products and other articles enumerated in said § 301.71 will be limited to such movement from the areas in such State now or hereafter designated by the Secretary of Agriculture as regulated areas.

§ 301.71-3. *Regulated areas.*—In accordance with the first and second provisos to § 301.71, the Secretary of Agriculture designates as regulated areas for the purpose of these regulations the counties, townships, towns, and cities listed below, including all cities, towns, boroughs, or other political subdivisions within their limits:

Connecticut.—Fairfield County; towns of Bethlehem, Bridgewater, Harwinton, Litchfield, Morris, New Milford, Roxbury, Thomaston, Torrington, Washington, Watertown, and Woodbury, in *Litchfield County*; all of *New Haven County* except the towns of Cheshire, Madison, Prospect, and Wolcott; and the town of Preston, in *New London County*.

New Jersey.—Counties of Bergen, Essex, Hudson, Hunterdon, Mercer, Morris, Passaic, Somerset, Sussex, Union, and Warren; townships of Bordentown, Chesterfield, Mansfield, New Hanover, North Hanover, Pemberton, and Springfield, the city of Bordentown, and the boroughs of Fieldsboro and Pemberton, in *Burlington County*; all of *Middlesex County* except the townships of Cranbury and Monroe, and the boroughs of Helmetta, Jamesburg, and Spotswood; all of *Monmouth County* except the townships of Freehold, Millstone, Neptune, and Wall, and the boroughs of Avon-by-the-Sea, Belmar, Bradley Beach, Brielle, Freehold, Jersey Homestead, Manasquan, Neptune City, Sea Girt, South Belmar, Spring Lake, and Spring Lake Heights; and the township of Plumstead, in *Ocean County*.

New York.—Counties of Bronx, Dutchess, Kings, Nassau, New York, Orange, Putnam, Queens, Richmond, Rockland, and Westchester; town of Bethlehem, in *Albany County*; towns of Chenango, Colesville, Conklin, Fenton, Kirkwood, Sanford, and Windsor, in *Broome County*; towns of Afton, Bainbridge, Coventry, and Greene, in *Chenango County*; towns of Aneram, Claverack, Clermont, Copake, Galatin, Germantown, Ghent, Livingston, and Taghkanic, in *Columbia County*; town of Deposit in *Delaware County*; town of Catskill in *Greene County*; town of Unadilla, in *Osego County*; town of Mamakating, in *Sullivan County*; and all of *Ulster County* except the towns of Benning, Hardenbergh, Kingston, Olive, Shandaken, and Woodstock.

Pennsylvania.—Township of Amity, in *Berks County*; all of *Bucks County* except the townships of Lower Southampton and Upper Southampton; townships of Lower Milford, Salisbury, and Upper Saucon, and the borough of Coopersburg, in *Lehigh County*; townships of Hanover, Pittston, and Plains, city of Wilkes-Barre, and the boroughs of Ashley, Edwardsville, Forty Fort, Kingston, Larksville, Plymouth, Sugar Notch, Warrior Run, and Wyoming, in *Luzerne County*; townships of Middle Smithfield, Smithfield, and Stroud, and the boroughs of Delaware Water Gap, East Stroudsburg, and Stroudsburg, in *Monroe County*; townships of Franconia, Hatfield, Lower Merion, Lower Moieland, Marlboro, New Hanover, Perkiomen, Salford, Upper Hanover, Upper Merion, West Norriton, and that portion of Whitemarsh Township northeast of Stanton Avenue, and the boroughs of Bridgeport, Bryn Athyn, East Greenville, Greenlane, Hatfield, Nar-

berth, Pennsburg, Red Hill, Sonderton, West Conshohocken, and West Telford, in *Montgomery County*; townships of Bethlehem, Hanover, Lower Mount Bethel, Lower Saucon, Upper Mount Bethel, and Williams, the city of Easton, and the boroughs of Freemansburg, Glendon, Hellerown, Portland, West Easton, and Wilson, in *Northampton County*; ward 35, in the city of Philadelphia, in *Philadelphia County*; and the townships of Harmony and Jackson, and the borough of Lanesboro, in *Susquehanna County*.

§ 301.71-4. *Control of movement of elm plants and elm products.*—Elm plants or parts thereof of all species of the genus *Ulmus*, irrespective of whether nursery, forest, or privately grown, including (1) trees, plants, leaves, twigs, branches, bark, roots, trunks, cuttings, and scions of such plants; (2) logs or cordwood of such plants; and (3) lumber, crates, boxes, barrels, packing cases, and other containers manufactured in whole or in part from such plants, if the wood is not free from bark, shall not be moved interstate from any regulated area to or through any point outside thereof.

Plants and plant products enumerated in this regulation may be moved interstate from an area not under regulation through a regulated area to a nonregulated area only when such movement is on through billing: *Provided*, That such movement by truck or other road vehicle may not be made during the period from April 1 to October 31, inclusive, of any 12-month period unless the restricted products contained therein while passing through any regulated area are covered or otherwise protected, to the satisfaction of an inspector, from contamination by insect vectors of the Dutch elm disease.

§ 301.71-5. *Shipments for experimental and scientific purposes.*—Articles subject to restriction in these regulations may be moved interstate for experimental or scientific purposes, on such conditions and under such safeguards as may be prescribed by the Chief of the Bureau of Entomology and Plant Quarantine. The container of articles so moved shall bear, securely attached to the outside thereof, an identifying tag from the Bureau of Entomology and Plant Quarantine showing compliance with such conditions.

Done at Washington, D. C., this 20th day of September 1941.

Witness my hand and the seal of the United States Department of Agriculture.

[SEAL]

GROVER B. HILL,

Acting Secretary.

[Copies of foregoing quarantine sent to all common carriers doing business in or through the quarantined States.]

[Filed with the Division of the Federal Register September 22, 1941, 11:30 a. m.; 6 F. R. 4834.]

NOTICE TO GENERAL PUBLIC THROUGH NEWSPAPERS

UNITED STATES DEPARTMENT OF AGRICULTURE,
BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE,
Washington, D. C., September 20, 1941.

Notice is hereby given that the Secretary of Agriculture, under authority conferred by the Plant Quarantine Act of August 20, 1912, as amended (7 U. S. C. 161), has promulgated a revision, effective on and after October 1, 1941, of the Dutch elm disease quarantine (Notice of Quarantine No. 71) and rules and regulations supplemental thereto. The purpose of the revision is to bring under regulation parts of nine Pennsylvania counties, additional sections of Connecticut, New Jersey, and New York, where the Dutch elm disease has been located, and remove from regulation the town of Huntington, Suffolk County, New York. The quarantine has been further revised to authorize the Chief of the Bureau of Entomology and Plant Quarantine to modify, by making less stringent, the restrictions of the regulations.

Copies of the quarantine as revised may be obtained from the Bureau of Entomology and Plant Quarantine, Department of Agriculture, Washington, D. C.

GROVER B. HILL,

Acting Secretary.

[Published in the following newspapers: The New York Times, New York, N. Y., September 30, 1941; the Newark News, Newark, N. J., September 30, 1941; the Bulletin, Philadelphia, Pa., September 29, 1941; the Times, Hartford, Conn., September 29, 1941.]

ANNOUNCEMENTS RELATING TO JAPANESE BEETLE QUARANTINE (NO. 48)

B. E. P. Q. 499,
Supplement No. 1—Fourth revision.

August 6, 1941

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

JAPANESE BEETLE ADMINISTRATIVE INSTRUCTIONS MODIFIED

INTRODUCTORY NOTE

It has been found as a result of additional experiments with treatments for freeing nursery stock and potted plants from the immature stages of the Japanese beetle that the methyl bromide fumigation treatments may be further modified. Accordingly these instructions provide for a temperature of 67° F. instead of 70° as heretofore, for the 2½-hour treatment with a 2-pound dosage; and for 73° under a 2½-hour treatment with a 1½-pound dosage. The diameter of the soil balls in all treatments is placed at a maximum of 14 inches instead of 12 inches as heretofore.

§ 301.48-b. *Administrative instructions to inspectors on the treatment of nursery products, fruits, vegetables, and soil, for the Japanese beetle. Treatment authorized.* Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by § 301.48-6, Chapter III, Title 7, Code of Federal Regulations [regulation 6 of the rules and regulations supplemental to Notice of Quarantine No. 48] subsection (1) (5) of § 301.48b¹ [on page 13 of the mimeographed edition of circular B. E. P. Q. 499, issued June 9, 1939] is hereby further modified effective August 9, 1941, to read as follows:

(5) Methyl bromide fumigation

Equipment.—An approved fumigation chamber equipped with vaporizing, air-circulating, and ventilating systems must be provided.

Application.—After the chamber is loaded, the methyl bromide must be vaporized within it. The air within the chamber must be kept in circulation during the period of fumigation. At the completion of the treatment, the chamber must be well ventilated before it is entered and the plants removed. The ventilating system should also be in continuous operation during the entire period of removal of the fumigated articles.

(i) Fumigation of plants, with or without soil

Temperatures, periods of treatment, and dosages.—The temperature of the soil (with bare root stock, the root spaces) and of the air for each type of treatment must remain throughout the entire period of treatment at the minimum specified in the following table, or higher:

Temperature at least	Period of treatment	Dosage (methyl bromide per 1,000 cubic feet)	Temperature at least	Period of treatment	Dosage (methyl bromide per 1,000 cubic feet)
	<i>Hours</i>	<i>Pounds</i>		<i>Hours</i>	<i>Pounds</i>
1. 73° F.....	2½	1½	5. 57° F.....	3½	2½
2. 67° F.....	2½	2	6. 54° F.....	4	2½
3. 63° F.....	2½	2½	7. 50° F.....	4½	2½
4. 60° F.....	3	2½			

The dosage shall be for each 1,000 cubic feet including the space occupied by the load.

¹ This section was originally issued as § 301.48a.

Preparation of plants.—The treatment is to be applied to plants with bare roots or in 14-inch pots or smaller, or in soil balls not larger than 14 inches in diameter nor thicker than 14 inches when not spherical. The soil should not be puddled or saturated and must be in a condition which in the judgment of the inspector is suitable for fumigation. The plants should be stacked on racks or separated so that the gas can have access to both top and bottom surfaces of pots or soil balls. While not essential that the balls be completely separated from each other they should not be jammed tightly together. Treatments 2 and 3 may be employed in fumigating packaged plants prepared in a manner satisfactory to the inspector.

Varieties of plants.—The list of plants, including greenhouse, perennial, and nursery-stock types treated experimentally, is subject to continual expansion and, moreover, is too great to include in these instructions.

The schedule for the fumigation of strawberry plants as specified in subsection (1) (5) (ii) of § 301.48b [p. 14 of the mimeographed edition of circular B. E. P. Q. 499] remains the same as heretofore.

This supplement supersedes Supplement No. 1, revised, dated April 11, 1941. Done at Washington, D. C., this 6th day of August 1941.

AVERY S. HOYT,
Acting Chief.

[Filed with the Division of the Federal Register August 12, 1941, 1:24 p. m.; 6 F. R. 4055.]

BETTER RESTRICTIONS ON VEGETABLE AND FRUIT SHIPMENTS END FOR SEASON

[Press notice]

SEPTEMBER 8, 1941.

Restrictions on the movement of fruits and vegetables under the Japanese beetle quarantine regulations have been removed for the season by an order effective today, the Department of Agriculture announced. Restrictions on cut flowers, however, remain in force through October 15.

Under quarantine regulations, certificates showing freedom from Japanese beetle are required until October 16 on interstate shipments of fruits and vegetables of any kind moved via refrigerator car or motortruck from the areas of heavy beetle flight. The order, issued by the Bureau of Entomology and Plant Quarantine, releases the fruits and vegetables from this requirement nearly 5 weeks earlier than is provided in the regulations.

The areas of heavy flight include Delaware, the District of Columbia, and parts of Maryland, New Jersey, Pennsylvania, and Virginia.

Inspection of fruits and vegetables is necessary only during the period when the beetles are in active flight, and results of field surveys show that adults of the Japanese beetle have decreased to a point where it does not seem advisable to continue the fruit and vegetable inspection and certification requirement the rest of this season. There is no risk that such products will carry the Japanese beetle after the active period, which is now apparently over throughout the regulated areas.

There is still danger, however, that the beetles may be transported in cut flowers. Therefore, the restrictions on interstate movement of cut flowers will remain in full force through October 15.

Restrictions on the movement of nursery, ornamental, and greenhouse stock and all other plants (except cut flowers, soil-free aquatic plants, and portions of plants without roots and free from soil) are in force throughout the year and are not affected by this order.

B. E. P. Q. 516.

Effective September 8, 1941

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

ADMINISTRATIVE INSTRUCTIONS MODIFYING THE RESTRICTIONS OF THE JAPANESE BEETLE QUARANTINE BY ADVANCING THE DATE OF TERMINATION OF RESTRICTIONS ON FRUIT AND VEGETABLE SHIPMENTS UNDER § 301.48-5 OF THE JAPANESE BEETLE QUARANTINE TO SEPTEMBER 8 FOR THE YEAR 1941

It has been determined that the active period of the Japanese beetle in its relation to fruits and vegetables has already ceased for the present season and that it is therefore safe to permit the unrestricted movement of fruits

and vegetables from the regulated areas. Therefore, pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by the fourth proviso of § 301.48, Chapter III, Title 7, Code of Federal Regulations [Notice of Quarantine No. 48 on account of the Japanese beetle], it is ordered that the restrictions on the interstate movement of fruits and vegetables imposed by § 301.48-5 of Notice of Quarantine No. 48, revised effective February 12, 1941, be removed effective on and after September 8, 1941. This order advances the termination of the restrictions as to fruits and vegetables provided for in § 301.48-5 from October 16 to September 8, 1941, and applies to this season only.

Done at Washington, D. C., this 6th day of September 1941.

P. N. ANNAND,
Chief.

[Filed with the Division of the Federal Register September 9, 1941, 11:10 a. m.;
6 F. R. 4653.]

INSTRUCTIONS TO POSTMASTERS

POST OFFICE DEPARTMENT,
THIRD ASSISTANT POSTMASTER GENERAL,
Washington, September 22, 1941.

The United States Department of Agriculture advises it has been determined that the active period of the Japanese beetle in its relation to fruits and vegetables has already ceased for the present season and that it is, therefore, safe to permit the unrestricted movement of fruits and vegetables listed in regulation 301.48-5, rules and regulations, Notice of Quarantine BEPQ-48, on account of the Japanese beetle, from the entire regulated area defined in section 301.48-3 of the rules and regulations.

Postmasters may, therefore, until June 15, 1942, accept fully prepaid parcels of fruits and vegetables, when properly packed, without being accompanied with a certificate of inspection prescribed by that quarantine, except that the certificate exemption applies to interstate shipments of fruits and vegetables from Accomac and Northampton Counties in Virginia only until June 1, 1942.

The Department of Agriculture points out there is still danger, however, that the beetles may be transported in cut flowers. Therefore, the restrictions on interstate movement of cut flowers will remain in full force through October 15.

Restrictions on the movement of nursery, ornamental, and greenhouse stock and all other plants (except cut flowers, soil-free aquatic plants, and portions of plants without roots and free from soil) are in force throughout the year and are not affected by this order.

RAMSEY S. BLACK,
Third Assistant Postmaster General.

ANNOUNCEMENT RELATING TO GYPSY MOTH AND BROWN-TAIL MOTH QUARANTINE (NO. 45)

B. E. P. Q. 515.

July 8, 1941

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

GYPSY MOTH AND BROWN-TAIL MOTH

ADMINISTRATIVE INSTRUCTIONS MODIFYING THE RESTRICTIONS OF THE GYPSY MOTH AND BROWN-TAIL MOTH QUARANTINE BY AUTHORIZING THE ISSUANCE OF LIMITED PERMITS FOR CERTAIN RESTRICTED ARTICLES

Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by the second proviso of § 301.45, Chapter III, Title 7, Code of Federal Regulations [Notice of Quarantine No. 45 on account of the gypsy moth and brown-tail moth], § 301.45-4 is hereby amended, effective July 15, 1941, by the addition of the following sentence to subsection (d) :

§ 301.45-4 *Conditions governing the issuance of certificates of inspection.*

* * *

(d) *Forest products and stone and quarry products.*

* * *

Forest products such as shavings or sawdust may be authorized interstate movement to such processing or manufacturing plants in nonregulated areas as may be designated by authority of the Chief of the Bureau of Entomology and Plant Quarantine for manufacturing or processing or treatment under either of the following conditions: (1) Under a certificate of inspection issued by the inspector upon determination that the materials do not represent a hazard of spread of infestations; or (2) under a limited permit to the consignor, the issuance of which will be conditioned upon agreement that he will comply with such sanitation provisions with respect to methods of handling at point of origin and production, and conditions of shipment, as may be required by an inspector, and upon agreement by the consignee that he will comply with such sanitation provisions with respect to methods of handling at destination as may be required by an inspector.

* * *

Done at Washington, D. C., this 8th day of July 1941.

AVERY S. HOYT,
Acting Chief.

[Filed with the Division of the Federal Register July 16, 1941, 11:49 a. m.; 6 F. R. 3512.]

ANNOUNCEMENTS RELATING TO MEXICAN FRUITFLY QUARANTINE (NO. 64)

LOW-TEMPERATURE TREATMENT AUTHORIZED FOR MEXICAN FRUITFLY IN TEXAS COUNTIES

[Press notice]

SEPTEMBER 26, 1941.

The Mexican fruitfly Federal quarantine on grapefruit and oranges in the regulated area in Texas has been modified to allow treatment by a low-temperature process as a condition of certification for shipment out of the area, the United States Department of Agriculture said today. The area includes the counties of Brooks, Cameron, Dimmit, Hidalgo, LaSalle, Webb, Willacy, and portions of Jim Wells County.

Owing to the wide acceptance by the citrus-fruit industry in Texas of the vapor-heat method of treatment for the fruitfly there is little occasion for the use of the low-temperature method.

For those who desire to employ that treatment, however, the administrative instructions just issued by the chief of the Bureau of Entomology and Plant Quarantine provide for cooling the fruit until the approximate center reaches 33° F. and holding it at or below that temperature for 18 days, or cooling it to 34° for 20 days, or to 35° for 22 days.

The vapor-heat treatment method, authorization for which is continued in the current instructions issued as Circular B. E. P. Q. 472 revised, effective September 25, provides for heating the fruit for 14 hours, during which time the temperature shall be raised to 110° F. and maintained at or above that temperature for the last 6 hours of such treatment.

B. E. P. Q. 472 revised,
Superseding P. Q. C. A.'s 329 and 330.

Effective September 25, 1941

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

MEXICAN FRUITFLY

TREATMENTS AUTHORIZED

INTRODUCTORY NOTE

This revision of circular B. E. P. Q. 472 has the twofold purpose of bringing the citations of authority into line with the current regulations of the Mexican

fruitfly quarantine, and of providing authorization for the low-temperature method of sterilization for the Mexican fruitfly for those in the citrus-fruit industry in Texas who desire to employ that method. Of the two heat-treatment methods authorized in the previous issue of the circular, only one is in current use, and authorization for this treatment as specified below is therefore continued with no change in method, other than the recommendation that in the use of wax or paraffine, applications of such material be made only after sterilization.

§ 301.64-4a *Administrative instructions—Treatment of grapefruit and oranges for the Mexican fruitfly.* Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by subsection (e) of § 301.64-4, Chapter III, Title 7, Code of Federal Regulations [regulation 4 of the regulations (third revision) supplemental to Notice of Quarantine No. 64, the Mexican fruitfly quarantine], the methods of sterilization specified below are hereby authorized, effective September 25, 1941, as a condition of the issuance of permits for interstate movement of grapefruit and oranges.

(a) *Vapor-heat method.*—Heating the fruit for a period of not less than 14 hours during which time the fruit shall be raised to a temperature of 110° F. at the approximate center of the fruit and shall be maintained at or above that temperature for the last 6 hours of such treatment.

While no specifications as to the exact methods and equipment for obtaining these conditions are prescribed, the air within the room shall be maintained at the temperature and under the humidity conditions required by the supervising inspector. Available information clearly indicates that by the application of dry heat the required temperatures cannot be reached without injury to the fruit. To prevent such injury it is necessary to maintain a very high humidity throughout the period of treatment. In the tests where successful performance was obtained, live steam as the source of heat was applied in such a way as to secure as nearly as possible a uniform distribution of steam-heated air so directed as not to discharge directly on the fruit. The air temperature ranged from 110° to 112° F. and the air was very moist. The fruit was held in field boxes stacked four boxes high and without special means of separating the boxes in each stack. The experiments indicate that the fruit should be sterilized after coloring, if this is necessary, and before packing for shipment, and then cooled down to a temperature around 45° F. as soon as possible after sterilizing. Wax or paraffine, either dry or in solution, should not be applied to this fruit before sterilization.

(b) *Low-temperature method.*—(1) Cooling until the approximate center of the fruit reaches a temperature of 33° F. and holding the fruit at or below that temperature for a period of 18 days.

(2) Cooling until the approximate center of the fruit reaches a temperature of 34° F. and holding the fruit at or below that temperature for a period of 20 days.

(3) Cooling until the approximate center of the fruit reaches a temperature of 35° F. and holding the fruit at or below that temperature for a period of 22 days.

Such treatments as specified in (a) and (b) above are authorized in sterilization or refrigeration plants in the regulated area which are approved by the Bureau of Entomology and Plant Quarantine. The Bureau will approve only those plants which are adequately equipped to handle and sterilize the fruit. Such sterilization will be done under the supervision of inspectors of the Bureau. These inspectors should at all times be given access to fruit while in process of sterilization.

While the results of the experiments so far conducted have been successful, it should be emphasized that inexactness and carelessness in operation may result in injury to fruit. In authorizing the movement of fruit sterilized in accordance with the above requirements, it is understood that the Department does not accept responsibility for fruit injury.

Done at Washington, D. C., this 19th day of September 1941.

P. N. ANNAND,
Chief.

ANNOUNCEMENTS RELATING TO WHITE-FRINGED BEETLE QUARANTINE (NO. 72)

B. E. P. Q. 496, Revised.

SUGGESTIONS FOR CONSTRUCTION OF PLUNGING AND GROWING BEDS AND THEIR MAINTENANCE UNDER BEETLE-FREE CONDITIONS IN ACCORDANCE WITH REGULATIONS OF THE WHITE-FRINGED BEETLE QUARANTINE

AUGUST 25, 1941.

Nursery stock with soil attached is eligible for certification for movement from areas under quarantine on account of the white-fringed beetle, provided it has been grown and maintained under beetle-free conditions, or has been otherwise treated, as specified in paragraph (b) of regulation 5 of Quarantine No. 72.

The Bureau of Entomology and Plant Quarantine and cooperating State officials are attempting to reduce beetle populations as drastically as possible in all infested areas by the application of intensive control measures in the vicinity of nurseries and other establishments dealing in regulated products. However, unless or until eradication is accomplished, such suppressive measures within themselves do not and cannot adequately protect nurseries or other establishments within a generally infested area from being exposed to infestation, and additional action on the part of the nurserymen is necessary.

In order to establish and maintain an infestation-free status in nurseries or units of nurseries located within a generally infested area, approved beetle-proof barriers must be constructed by the nurserymen to protect plunging beds and growing areas, and adequate sanitary and protective measures must be taken to maintain such barriers in an effective status. Barriers must be supplemented by precautionary measures against the artificial introduction of beetles into such protected areas and insecticidal treatments as specified by authorized inspectors should be applied.

B. E. P. Q. 496, issued April 28, 1939, provided information on the construction of barriers approved at that time. Subsequent research indicates that barriers of a less expensive construction will furnish adequate protection. The following types of units and barriers are therefore suggested as a means of providing protection against natural infestation by the white-fringed beetle.

RAISED PLUNGING OR GROWING BEDS

Beds or benches, indoors or outside, must be used, which are at least 12, preferably 18 inches, above the ground, the legs or supports of which are protected by approved oil or other barriers, and which are maintained in a manner satisfactory to an authorized inspector. * * *

GROWING BEDS INCLUDING ENTIRE NURSERIES OR PORTIONS THEREOF

Heeling-in or growing areas should be enclosed within approved barriers. * * * The areas contained therein must, at the time of erection of barrier, be known to be free of infestation or must be treated in approved manner under the supervision of an inspector.

No plants with soil, and no soil or other materials restricted by the regulations of the white-fringed beetle quarantine which have not been produced under approved sanitation conditions or which have not been given approved treatment, may subsequently be placed in such protected areas.

P. N. ANNAND,
Chief.

B. E. P. Q. 503, Third Revision,
Superseding Circulars
B. E. P. Q. 486 and 489.

Effective September 11, 1941

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

WHITE-FRINGED BEETLE ADMINISTRATIVE INSTRUCTIONS MODIFIED

INTRODUCTORY NOTE

Instructions as to various methods of treatment of plants in pots, or in soil balls, and of potting soil, as previously authorized in Circulars B. E. P. Q.

486, 489, and 503, are brought together in the present revision of this circular. In addition, the instructions as to treatment of balled nursery stock by methyl bromide solution as specified in paragraph (ii) of subsection (b) are somewhat modified as to treatments within the regulated areas other than New Orleans and vicinity. All treatments apply to both species of white-fringed beetles, *Pantomorus leucoloma* Boh. and *P. peregrinus* Buch., and are uniformly applicable to all regulated areas except the methyl bromide solution treatment of balled nursery stock, the specifications of which vary for the New Orleans area because of the type of soil in that locality. This circular supersedes all instructions in Circulars B. E. P. Q. 486 and 489, and previous issue of 503.

§ 301.72-5c² *Administrative instructions—Treatments authorized.*—Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by subsection (a) of § 301.72-5, Chapter III, Title 7, Code of Federal Regulations [Regulation 5 of Notice of Quarantine No. 72 on account of the white-fringed beetle], the following methods of treatment for plants in pots, or with soil balls, and potted soil, are hereby authorized effective September 11, 1941, when carried out under the supervision of an authorized inspector of the United States Department of Agriculture.

(a) *Plants in pots or in soil balls.*—(1) *Methyl bromide fumigation at atmospheric pressures.*—(i) Fumigation must be done with methyl bromide at a dosage of 1 pound per 1,000 cubic feet, including the space occupied by the plants, for a period of 4 hours, the soil masses and the air in the fumigation chamber to be at a temperature of not less than 85° F.

(ii) Such fumigation shall apply only to those plants in 3-inch pots or smaller, or in soil balls not greater than 3 inches in diameter when spherical or thicker than 3 inches if not spherical, and the plants shall be stacked on racks so that the gas mixture can have access to all sides of the pots or the soil balls.

(iii) The fumigation shall be done in a tight chamber with gas-tight doors.

(iv) After the chamber is loaded and closed, the appropriate amount of methyl bromide shall be volatilized therein, and the air-gas mixture shall be circulated by means of a fan or blower throughout the entire 4-hour fumigation period.

(v) The use of a fumigation chamber, lined with sheet metal throughout and with a metal-covered door closing against gaskets and held tightly in place by refrigerator door fasteners, is recommended.

(2) *Methyl bromide fumigation under partial vacuum.*—(i) Fumigation under partial vacuum equivalent to at least 24.5 inches of mercury must be done with a dosage of 4 pounds of methyl bromide per 1,000 cubic feet of chamber space, including the space occupied by the commodity, with an exposure of 1½ hours, the vacuum to be maintained throughout the entire period.

(ii) The temperature of the soil balls shall be 75° F. or above, and the diameter of the soil balls shall be not greater than 11 inches if spherical, or thicker than 11 inches if not spherical.

(iii) The fumigant-air mixture shall be circulated in the fumigation chamber by means of a fan the first 15 minutes of the exposure period to mix the vaporized fumigant thoroughly with the air in the chamber and bring it in contact with the surface of the soil balls. The soil balls shall be washed with one or more changes of air at the end of the exposure period.

(iv) A standard vacuum fumigation chamber which can be closed tight and will withstand an external pressure of at least one atmosphere is required. A vacuum pump of sufficient capacity to reduce the pressure within the vacuum chamber to the equivalent of 3 inches of mercury (a 27-inch vacuum at sea level) in not more than 20 minutes is necessary.

(3) *Methyl bromide solution.*—(i) *Treatment method.*—(Applicable to all regulated areas.)

(a) The soil balls around the roots of plants must be buried in sand and plunged in boxes or trays which are watertight and approximately 1 foot deep.

(b) A 2-inch space filled with sand shall be provided between the soil balls, also above and beneath them.

(c) Such soil balls shall be treated with a solution of methyl bromide and alcohol at a concentration of 0.3 percent methyl bromide and 0.6 percent denatured ethyl alcohol by volume in water. The solution is to be prepared by first mixing the methyl bromide and alcohol together and then adding this mixture to the water and mixing thoroughly.

² Superseding §§ 301.72-5a and b.

(d) The aqueous solution of methyl bromide and alcohol shall then be applied evenly over the surface of the sand around the plants at the rate of 40 gallons per 100 square feet of surface area by means of a sprinkling can or sprayer.

(ii) *Type of material, exposure, and temperature.*—(a) In Orleans Parish, including the city of New Orleans, Saint Bernard Parish, and regulated parts of Jefferson and Plaquemines Parishes, La., the treatment shall be applied only to plants in soil balls not greater than 7 inches in diameter, nor greater than 7 inches in thickness when not spherical. After the required dosage has been applied, the soil balls shall remain embedded in the sand for a period of 8 hours. The temperature of the soil balls during the treatment shall not be lower than 65° F.

(b) In all regulated areas other than Orleans Parish, including the city of New Orleans, Saint Bernard Parish, and regulated parts of Jefferson and Plaquemines Parishes, La., the treatment shall be applied to soil balls not greater than 8 inches in diameter nor greater than 8 inches in thickness when not spherical. After the required dosage has been applied, the soil balls shall remain embedded in the sand for a period of 6 hours. The temperature of the soil balls during the treatment shall not be lower than 62° F.

(c) *Potting soil.*—(1) *Carbon disulphide fumigation.* (i) Potting soil shall be treated in a container with carbon disulphide at a dosage of 2 pounds per cubic yard of soil for a period of 48 hours.

(ii) The grade of carbon disulphide shall be comparable to U. S. P. grade having a specific gravity of 1.25 at 68° F.

(iii) The container shall be tight, preferably lined with sheet metal, and shall have a tight cover or be covered with a tarpaulin immediately after the fumigant is applied. The container shall not be more than 36 inches deep.

(iv) The soil shall be friable, and wet soil shall not be treated by this method. The fumigant shall be applied to the soil in holes 3 inches deep, the dosage to be evenly divided among holes 1 foot apart over the surface of the soil, and the fumigant shall be covered with soil as soon as it is applied.

(v) The temperature of the soil shall not be lower than 40° F. during the entire time of treatment.

(vi) The condition of the soil and the apparatus used and the method of application of the fumigant must meet with the approval of an authorized inspector of the United States Department of Agriculture.

(2) *Methyl bromide fumigation.*—(i) Potting soil must be treated in a container with methyl bromide in a dosage of 40 cubic centimeters of methyl bromide per cubic yard of soil for a period of 48 hours.

(ii) The sides, bottom, and seams of the container shall be tight, preferably lined with sheet metal, and shall have a tight cover or be covered with a tarpaulin immediately after the fumigant is applied.

(iii) The condition of the soil and the apparatus used and the method of application of the fumigant must meet the approval of an authorized inspector of the United States Department of Agriculture.

(3) *Heat treatment.* (i) Live steam, under pressure of 80 pounds or more per square inch, shall be applied through a grid of perforated pipes at the bottom of the sterilizing box or truck body containing the soil, for a period of 45 minutes or until all parts of the load reach a temperature of 200° F.

(ii) The grids shall be constructed of 1-inch pipes, perforated with holes 1/32 inch in diameter on the upper side and connecting at one end to a manifold into which the steam is introduced.

(iii) The layer of soil in the sterilizing box shall not be more than 2 feet, 6 inches deep.

(c) *Disclaimer.*—There has been opportunity to test these treatments on only relatively few varieties of plants and in authorizing the movement of potted plants, nursery stock, or potting soil fumigated according to the requirements stated above, it is understood that no liability shall attach either to the United States Department of Agriculture or to any of its employees in the event of injury to either plants or operators.

(d) *Caution.*—(1) *Methyl bromide.*—Methyl bromide is a gas at ordinary temperatures. It is colorless and practically odorless in concentrations used for fumigation of plants or potting soil. It is a poison and the operators should use approved gas masks when exposed to the gas in concentrations used in fumigation, or while preparing the solution. The plants in the fumigation chamber should be well aerated by blowing air through them, and the room

adequately ventilated before it is entered. After fumigating the potting soil by methyl bromide the cover should be removed and the soil allowed to become aerated.

(2) *Carbon disulphide*.—Carbon disulphide is a blood poison, but poisoning by this chemical is rare. Exposure to the vapor may cause giddiness and headache. When these symptoms develop, the individual should get into the open air.

Done at Washington, D. C., this 4th day of September 1941.

P. N. ANNAND,
Chief.

[Filed with the Division of the Federal Register September 9, 1941, 11:10 a. m.; 6 F. R. 4653.]

TERMINAL INSPECTION OF PLANTS AND PLANT PRODUCTS

REVOCATION OF OREGON PLANT QUARANTINE RELATING TO STRAWBERRY PLANTS FROM CALIFORNIA

POST OFFICE DEPARTMENT,
THIRD ASSISTANT POSTMASTER GENERAL,
Washington, August 18, 1941.

Oregon Plant Quarantine Orders No. 13 and 14 (A series) pertaining to Strawberry Yellows have been revoked, effective at once.

This amends the list of Oregon State Plant Quarantines dated September 11, 1940, published in the Postal Bulletin of September 17, 1940, and on page 16 of the October 1940 Supplement to the Postal Guide,³ and removes the Oregon restrictions on the acceptance of parcels containing strawberry plants in the State of California and Josephine County, Oreg.

Postmasters will please, therefore, make the necessary correction and be guided accordingly.

RAMSEY S. BLACK,
Third Assistant Postmaster General.

MODIFICATION OF MISSISSIPPI STATE PLANT QUARANTINES

POST OFFICE DEPARTMENT,
THIRD ASSISTANT POSTMASTER GENERAL,
Washington, September 24, 1941.

The State Plant Board of Mississippi has established a quarantine under the provisions of the law embodied in section 596, P. L. and R., designed to prevent the dissemination of black rot, stem rot, nematodes, sweetpotato weevil, and other injurious pests of the sweetpotato which restricts the shipment of the hosts of these diseases and pests from one point to another within the State of Mississippi.

Under the quarantine no shipments of sweetpotatoes, sweetpotato plants or vines may be accepted for mailing unless there is attached to each container a certificate tag and each bundle of one hundred plants is tied with a valid certificate tape issued by the Mississippi State Plant Board showing compliance with the State plant-quarantine laws or regulations pertaining to injurious pests.

You will please, therefore, take the necessary steps to prevent the acceptance of such material except when having the required certificate tag or certificate tape attached.

You are also reminded of the Mississippi State quarantine and regulations relating to the shipment of sweetpotatoes, sweetpotato plants, vines, cuttings, draws, and slips and morning-glory plants or parts thereof from other States into Mississippi as set forth in the notices of this Bureau dated April 7, 1937, May 7, 1940, and March 28, 1941, which have been published in the Supplements to the Postal Guide.

RAMSEY S. BLACK,
Third Assistant Postmaster General.

³ See S. R. A. No. 144, July-September 1940, pp. 73-76.

MISCELLANEOUS ITEMS

ANNAND NAMED CHIEF, HOYT ASSOCIATE CHIEF, OF ENTOMOLOGY AND PLANT QUARANTINE BUREAU

[Press notice]

AUGUST 15, 1941.

Secretary of Agriculture Claude R. Wickard today announced the appointment of P. N. Annand as Chief and Avery S. Hoyt as Associate Chief of the Bureau of Entomology and Plant Quarantine. Both appointments are effective August 16. Dr. Annand succeeds Lee A. Strong, who died June 2, 1941.

Dr. Annand, who has been one of the assistant chiefs of the Bureau, was born in Telluride, Colo., in 1898. He was graduated with a B. S. degree in 1920 from Colorado Agricultural College, where he specialized in entomology. He received an M. A. degree in entomology from Leland Stanford University in 1922, and a Ph. D. in zoology and botany from Stanford in 1928.

Before joining the Department of Agriculture staff in 1929, Dr. Annand did research work on sugar beet insects for a sugar company from 1920 to 1921, and was on the staff of San Mateo Junior College from 1922 to 1929. During the latter part of that time he was head of the college's department of biological sciences.

From 1934 until 1937 Dr. Annand was head of the Division of Cereal and Forage Insect Investigations of the Bureau of Entomology and Plant Quarantine. In 1937 he was appointed research assistant to the chief of the Bureau. In April 1939 he was named an assistant chief of the Bureau.

Dr. Annand is a member of the American Association for the Advancement of Science, the American Association of Economic Entomologists, the Entomological Society of America, and the Washington Entomological Society.

Mr. Hoyt also was an assistant chief of the Bureau. He was born in San Diego, Calif., on September 16, 1888. He graduated with the B. S. degree from Pomona College in 1910. He held various positions under the State Department of Agriculture of California and was made Assistant Director in 1929 and Director in 1931, in which year he severed his connection with the State Department of Agriculture and became assistant chief of the Plant Quarantine and Control Administration, of the United States Department of Agriculture, which position he held until the consolidation of that Bureau in 1934 with the former Bureau of Entomology into the present Bureau of Entomology and Plant Quarantine.

Memorandum No. 931.

August 19, 1941

DESIGNATING CHIEF AND ASSOCIATE CHIEF OF BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

Dr. P. N. Annand and Mr. Avery S. Hoyt have been appointed as Chief and Associate Chief, respectively, of the Bureau of Entomology and Plant Quarantine, effective August 16. Dr. Annand succeeds the late Dr. Lee A. Strong.

Dr. Annand, who has been one of the assistant chiefs of the Bureau since 1939, has been with the Bureau since 1929. He was born in Telluride, Colo., in 1898. He was graduated with a B. S. degree in 1920 from Colorado Agricultural College, specializing in entomology, and with M. A. and Ph. D. degrees from Leland Stanford university in 1922 and 1928. Before coming with the Department he was engaged in sugar beet insects research work and later was a member of the staff of the San Mateo Junior College.

Mr. Hoyt has been one of the assistant chiefs of the Bureau since 1934. He was born in San Diego, Calif., in 1888. He graduated with a B. S. degree from Pomona College in 1910. He held various positions in the State Department of Agriculture of California.

CLAUDE R. WICKARD,
Secretary.

B. E. P. Q. 382, Revised, Supplement No. 1.

PLANT-QUARANTINE IMPORT RESTRICTIONS, REPUBLIC OF URUGUAY

AUGUST 28, 1941.

RESTRICTIONS ON THE IMPORTATION OF SEED POTATOES

Decree No. 50:941, issued June 4, 1941, at Montevideo, and published in the *Diario Oficial* June 27, 1941, changes the decree of January 10, 1934, regulating the importation of seed potatoes, as follows:

Article 1. All shipments of potatoes which are imported into the country for seed purposes must be accompanied by certificates of origin and health, in which it shall be affirmed:

(a) That the tubers came from areas practically free from the following diseases and insects: *Synchytrium endobioticum* Schilb., *Spongospora subterranea* Johns., *Phthorimaea operculella* Zell., (Tina de la papa), and *Leptinotarsa decemlineata* Say.

(b) That the tubers must be free from other serious parasitic diseases, allowing a certain margin of tolerance for innocuous infections. In particular, with reference to scab and potato tuber moth, distinction should be made between:

(1) Powdery scab caused by *Spongospora subterranea* Johns., the presence of which will render the shipment useless for seed.

(2) Black scab, *Rhizoctonia violacea* Tul., the presence of which will require a previous disinfection of the tubers intended for seed.

(3) Common scab caused by *Oospora (Actinomyces) scabies* Thax., which may be allowed in a small proportion, no greater than 5 percent of the number of tubers, and not found infecting more than 10 percent of the surface.

(4) Potato tuber moth, *Phthorimaea operculella* Zell., may be admitted whenever on arrival in the country, the number of tubers infested is no greater than 1 percent, and in such cases the tubers must be subjected to disinfection.

No changes have been made in the texts of articles 2, 3, and 4 of the decree of January 10, 1934, and article 2 is again in force.

In accordance with the new decree, article 1 under "Regulations Governing the Importation of Seed Potatoes," on page 5 of B. E. P. Q. 382, Revised, should be replaced by the new article 1 as above, and the "Note" following article 2 on page 6 should be stricken out, as the temporary suspension of article 2 has been lifted.

P. N. ANNAND,

Chief, Bureau of Entomology and Plant Quarantine.

B. E. P. Q. 411, Supplement No. 3.

PLANT-QUARANTINE IMPORT RESTRICTIONS, REPUBLIC OF MEXICO

JULY 28, 1941.

EXTERIOR QUARANTINES No. 2 (COFFEE) AND No. 7 (BANANA) REVISED

In two orders of the Secretary of Agriculture and Development, dated March 19, 1941, Exterior Quarantine No. 2 of July 17, 1927, and Exterior Quarantine No. 7 of November 17, 1940, were repealed, and the following Exterior Quarantines were substituted.

Exterior Quarantine No. 2.—Coffee plants, etc., on account of the coffee berry borer, *Stephanoderes coffeae* Hag. (*S. hampei* Fen.).

ARTICLE 1. An absolute (prohibitory) quarantine is hereby established on coffee plants, their parts, organs, and natural products, coming from foreign countries.

ART. 2. Accordingly the entry of the aforesaid products is not permitted either for consumption or for transit.

ART. 3. Entry of such products is permitted only for the purpose of scientific investigation.

(Supersedes Exterior Quarantine No. 2—Coffee, page 13, B. E. P. Q. 411.)

Exterior Quarantine No. 7.—Banana plants, etc., on account of the Panama or wilt disease, *Fusarium cubense* E. F. Sm.

ARTICLE 1. An absolute (prohibitory) quarantine is hereby established on banana plants of any species, their parts, organs, and natural products, produced in foreign countries.

ART. 2. Accordingly the entry into Mexico is not permitted of the aforesaid products either for consumption or transit.

ART. 3. The above products are permitted entry into Mexico only for the purpose of scientific investigation.

(Supersedes Exterior Quarantine No. 7—Banana Plants, page 16, B. E. P. Q. 411.)

AVERY S. HOYT,

Acting Chief, Bureau of Entomology and Plant Quarantine.

B. E. P. Q. 442, Supplement No. 1.

PLANT-QUARANTINE IMPORT RESTRICTIONS, COLONY OF BRITISH GUIANA

SEPTEMBER 17, 1941.

IMPORTATION OF CITRUS FROM THE UNITED STATES PROHIBITED

[Order in Council No. 862]

The importation of citrus material (including fruit) from the United States of America is prohibited, due to the prevalence of citrus canker (*Phytophthora citri*) in that country. (Governor in Council, June 8, 1937.)

IMPORTATION OF RAW COFFEE SEVERELY RESTRICTED

[Order in Council No. 646]

The importation of raw coffee from all countries on the continent of South America is prohibited, and the importation of raw coffee from all other countries is likewise prohibited, provided that the Director of Agriculture may authorize the importation of any particular consignment from the latter countries, if he is satisfied that it is the produce of a country in which the coffee berry borer (*Stephanoderes hampei* Ferr.) is unknown. (Governor in Council, November 9, 1937.)

IMPORTATION OF PADDY RICE RESTRICTED

[Order in Council No. 422]

The importation of rice seed (padi) without written authorization of the Director of Agriculture is prohibited. (Governor in Council, August 17, 1938.)

IMPORTATION OF BROOMCORN RESTRICTED

[Order in Council No. 247]

Due to the presence of the European corn borer (*Pyrausta nubilalis*) in Canada and the United States of America, the importation of broomcorn therefrom is permitted only when accompanied by a fumigation certificate issued by an authority approved by the Director of Agriculture. (Governor in Council, August 14, 1939.)

P. N. ANNAND,

Chief, Bureau of Entomology and Plant Quarantine.

B. E. P. Q. 455, Revised, Supplement No. 1.

PLANT-QUARANTINE IMPORT RESTRICTIONS, BRITISH COLONY OF BERMUDA

AUGUST 14, 1941.

AMENDMENT OF BANANA PROHIBITION

An amendment of Bermuda bylaws regulating the control of plant diseases and pests ordered by the Board of Agriculture June 10, 1941, and approved by the Governor-in-Council July 9, 1941, changes the import status of bananas, plantains, etc., from restricted to prohibited.

Consequently, the line beginning "Bananas" under article 12 on page 2 of B. E. P. Q. 455, revised, should, in accordance with this amendment, be changed to read as follows:

"Bananas, plantains (*Musa* spp.): All parts including the fruit."

The other prohibited items remain unchanged.

The lines beginning "Banana fruit" under article 13 on the same page should be deleted in view of the amendment to article 12.

AVERY S. HOYT,

Acting Chief, Bureau of Entomology and Plant Quarantine.

B. E. P. Q. 471, Supplement No. 3.

PLANT-QUARANTINE IMPORT RESTRICTIONS, UNION OF SOUTH AFRICA

JULY 25, 1941.

REVISION OF REGULATIONS CONCERNING TOMATO SEED

By Proclamations No. 65 and No. 87, 1941, the Governor-General of the Union of South Africa has amended the Schedule of Proclamation No. 286 of 1936 to provide for the entry of tomato seed from areas not infected with the bacterial canker of tomato.

The paragraph entitled "Tomato Seeds" on page 8 of B. E. P. Q 471 should be amended to read as follows:

"Tomato seeds (*Lycopersicum esculentum* Mill.) from Germany, Italy, North America, or any country where bacterial canker of tomato (*Aplanobacter michiganense* E. F. Sm.) occurs: Import permit required; must be accompanied by an official certificate stating that the seed was produced by plants officially inspected in the field and found free from that disease, or that the seed was produced in an area where the said disease does not occur."

AVERY S. HOYT,

Acting Chief, Bureau of Entomology and Plant Quarantine.

PENALTIES IMPOSED FOR VIOLATIONS OF THE PLANT QUARANTINE ACT

According to reports received by the Bureau during the period July 1 to September 30, 1941, penalties have recently been imposed by the proper authorities for violations of the Plant Quarantine Act, as follows:

QUARANTINES AFFECTING MEXICAN PRODUCTS

In the case of the United States versus the persons listed below, for attempting to smuggle in contraband plant material, the penalties indicated were imposed by the United States customs officials at the following ports:

Name	Port	Contraband	Penalty
Ana Arvizu	Douglas, Ariz.	26 peaches	\$0. 50
Mrs. Guadalupe Bergan	Nogales, Ariz.	2 mangoes and 1 papaya	1. 00
Artemisa Arvizu de Gonzales	do	9 mango seeds, 5 miscellaneous plants, and 34 miscellaneous bulbs.	2. 00
Caolinia M. Lopez	Calexico, Calif.	2 avocados	1. 00
Mrs. J. S. de Merdez Juana	San Ysidro, Calif.	3 mangoes	1. 00
Francisco H. Olivo	do	10 mangoes	3. 00
Mrs. Dolores M. de Valenzuela	do	7 mangoes	2. 00
Teodoro Garza	Brownsville, Tex.	1 avocado with seed	1. 00
Agusto C. Mascono	do	2 avocados with seed	1. 00
Valeriono Silva	do	3 avocados with seed	1. 00
Ernesto Romero	do	12 mangoes	1. 00
Romona Bernal de Cano	do	2 oranges, 2 quinces, and 1 avocado with seed.	1. 00
Jose Martinez	do	14 lily bulbs	1. 00
Lorenzo Raiz	do	4 tuna fruit	1. 00
Ernesto Gonzales Salinas	do	5 avocados with seed	1. 00
Valentine Llamos	do	1 guava	1. 00
Gumercino Garcia	do	5 pears	1. 00

Name	Port	Contraband	Penalty
Sanjuana Castro de Garcia	Brownsville, Tex.	1 pomegranate	(¹)
Estaban Vela	do	2 avocados with seed	\$1.00
Matea Ramirez	Del Rio, Tex.	1 avocado	1.00
Catarino Arismendez	do	2 avocados	1.00
Nestora Martinez de Arreclano	do	13 peaches	1.00
Maria Torres de Castaneda	Eagle Pass, Tex.	1 plant	1.00
Maria de la Luz	do	do	1.00
Maria de Jesus Sanchez	do	10 plants	1.00
Luz Rivas de Elizondo	do	4 avocados and 8 peaches	1.00
Eulalia Gonzales	do	27 figs	1.00
Josefa Mata Garcia	do	6 pomegranates	1.00
E. S. Lozano	do	5 oranges	1.00
Josefa E. Zendeja-Avilis	do	25 pomegranates and 1 quince	1.00
Eduardo Porter	do	2 oranges and 2 guavas	1.00
Gilberto Flores Chapa	do	4 pomegranates, 2 pears, and 2 quinces.	1.00
Maria de Jesus Estran	do	6 avocado seed	1.00
Genara Sustaita	do	5 pears	1.00
Jesus Borrego	do	2 avocados	1.00
Francisca Garza de Cavazas	do	3 pomegranates	1.00
Arredondo Epigmenio	do	22 peaches	1.00
Siria Valdes Torres	do	5 avocados	1.00
Felis H. DeCastro	do	9 peaches	1.00
Maria L. Garcia	do	1 plant	1.00
Estella de la Rosa	do	2 avocados	1.00
Sacarro Renteris	do	2 quinces	1.00
Nicolassa Sanchez de Calderon	do	4 avocados	1.00
U. Pina Garcia	do	2 apples	1.00
Mauro Pedilla	do	1 quince	1.00
Manuel Jimenez	do	14 nodes sugarcane	1.00
Petra Castro de Dominguez	El Paso, Tex.	1 mango, 1 pomegranate, and 80 figs.	1.00
Carmen Medina Solis	do	2 plants in soil and 18 canna rootstocks.	1.00
Carmen Alvarez Arias	do	1 mango	.10
Mrs. L. H. Moore	Hidalgo, Tex.	4 mangoes	1.00
Claudio Robledo	do	1 avocado	1.00
Higurio Almenderrez	do	3 avocados	1.00
Marie Torrez	do	6 pomegranates and 3 quinces	1.00
Gumoro Verver	do	6 avocados	1.00
Eugenio Garza	do	4 avocados	1.00
Ignacia Moya	do	3 avocados	1.00
Gumecindo Zuniga	do	7 avocados	1.00
Aulallo Villareal	do	2 avocados	1.00
L. B. Rogers	do	3 avocados	1.00
Pablo Angiano	do	4 avocados	1.00
Noe Pena	do	5 avocados	1.00
Isabel Segura	do	6 quinces, 5 peaches, and 1 pomegranate.	1.00
Eulogio Gonzales	do	1 peach and 1 apple	1.00
Albina de Leon	do	1 avocado	1.00
Timotea Pena	do	4 avocados	1.00
Francisca Maldonado	do	4 peaches	1.00
Luz Garcia	do	1 avocado	1.00
Tomas Moroles	do	do	1.00
Herlinda Tovar	do	5 avocados	1.00
Maria de la Luz Gonzales	do	1 plant	1.00
Geneveva Herrera de Gonzalez	do	3 plants	1.00
Feliz Mazon	Laredo, Tex.	4 peaches	1.00
Josefina Robles	do	2 mangoes	1.00
Blanche Handy	do	1 mango	1.00
Petra Gonzales Regina	do	4 mangoes	1.00
Amelia Trevino de Villalobos	do	3 avocados	1.00
Maria Guadalupe Trevino	do	2 avocados	1.00
Dolores Miranda Villalobos	do	1 avocado	1.00
Carmen Villalobos	do	do	1.00
Guadalupe Zamora	do	1 mamey	1.00
Refugio Morales	do	4 plants	1.00
Guadalupe Juarez	do	14 plants	1.00
Mercer Clinton	do	2 oranges	1.00
Andrea G. de Galligos	do	1 orange	1.00
W. L. Esser	do	6 plants	1.00
Rosa S. Romeo	do	22 figs	1.00
E. M. Villareal	do	1 mango	1.00
G. M. Gilbert	do	1 orchid plant	1.00
Marley Wolf	do	4 mangoes and 1 cotton boll	1.00
Margarita Costello	do	10 plants	1.00
Mrs. Lydia G. Quinones	do	4 avocado seeds	1.00
Julio Martin	do	5 sweet limes, 1 orange, and 1 mango.	1.00
Juan Saenz	do	3 quinces	1.00
Rebecca A. de Arreola	do	2 plants	1.00

¹ Released without payment of fine because she had no money.

Name	Port	Contraband	Penalty
Mary Ramirez	Laredo, Tex.	3 plants	\$1.00
Aurelio Gonzalez	do	23 oranges and 34 avocados	2.00
Mrs. Petra Solis	do	3 avocados	1.00
Concepcion M. Marmoleto	do	2 plants	1.00
Carmela G. de Ramirez	do	do	1.00
Clotilde Martinez	do	1 mango and 2 avocados	1.00
Augustina Gonzalez	do	1 plant	1.00
Guadalupe Cisernos	do	2 oranges	1.00
Guadalupe Santos	do	2 avocados	1.00
Refugio Osuma	do	10 avocados	1.00
Mrs. Maria Villarreal	do	6 avocados	1.00
Mrs. Angel Villarreal	do	10 avocados	1.00
Mr. Crisoin Villarreal	do	13 avocados	1.00
Mrs. Dolores Belteron	do	3 avocados	1.00
Aurora Trevino	do	2 plants	1.00
Francisco Estrada	do	26 plants	1.00
Frederico Avila	do	1 mamey, 2 pears, and 1 mamey seed.	1.00
Celestina Hernandez	do	1 plant	1.00
Bibiana Pequerro	do	2 plants	1.00
Elise Flores	do	12 plants and 2 avocado seeds	1.00
Eduardo Enriquez	do	1 quince	1.00
Andrew Amaya	do	4 plants and 25 avocados	3.00
Augustine Gonzales	do	12 plants	1.00
Mrs. G. Gonzales	do	3 avocados	1.00
Cira Perez	do	1 plant	1.00
Maria O. de Mendoza	do	22 avocados	2.00
Mrs. Jessie Galvan	do	4 plants	1.00
Mrs. Severa Buena	do	4 sweet limes	1.00
D. A. Will	do	4 plants	2.00
Mrs. A. O. Sanchez	do	2 plants	1.00
Luis Deltoyos	do	1 avocado	1.00
Juana Yorra	do	7 plants	1.00
Arnulfo Aquirre	do	28 avocados	2.00
Ignacio Cruz	do	18 plants	1.00
Mrs. John N. Ogden	do	4 plants	1.00
Elvira Taddi	do	1 plant	1.00
Celia Cantu	do	3 avocados	1.00
Mrs. Pedro G. Gonzales	do	7 plants and 2 quinces	2.00
Mrs. Sofia Mata	do	8 plants	1.00
Salvador Frausto	do	6 pomegranates	1.00
A. M. Zepeda	do	3 plants	1.00
Maria Escorbar	do	2 plants	1.00
Beatriz Gorza de Uridales	do	1 apple and 6 plums	1.00
Mrs. J. M. Valez	do	3 pomegranates	1.00
Juan Bravo	do	3 bulbs	1.00
Alma Concepcion Allen	do	1 avocado	1.00
Juana Sandoval	do	2 plants	1.00
Louis Mayers	do	22 avocados	4.00
Oscar Gonzalez Lugo	do	23 avocados	1.00
Dolores Galacia Rodriguez	do	4 peaches	1.00
Roberto Sanchez	do	2 guavas	1.00
Mrs. Salas de Vasquez	do	9 Irish potatoes and 1 quince	1.00
Isabel M. Brenenna	do	2 guavas, 3 figs, 1 sweet lime, and 1 apple.	1.00
Navidad Ramirez	do	1 mango	1.00
Guadalupe F. Hernandez	do	2 plants	1.00
Candida Ruiz	do	22 plants	1.00
Jose Juarez	do	2 sweet limes	1.00
Dolores de Resendez	do	20 plants and 3 bulbs	1.00
Aurora Brava	do	3 plants and 8 cuttings	1.00
Beatrice Cuellar	do	7 plants	1.00
Mrs. J. V. Brava	do	5 plants	1.00
Anastacia Vasquez	do	4 avocados	1.00
M. Castro	Roma, Tex.	1 stalk of cotton with 3 green bolls, 2 sweet limes, and 6 pomegranates.	1.00
Jose Maria Chapa	do	18 avocados	1.00

ORGANIZATION OF THE BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

- P. N. ANNAND, *Chief.*
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S. A. ROHWER, *Assistant Chief.*
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F. H. SPENCER, *Business Manager.*
ROLLA P. CURRIE, *Editor.*
MABEL COLCORD, *Librarian.*
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B. M. GADDIS, *in Charge, Division of Domestic Plant Quarantines.*
E. R. SASSER, *in Charge, Division of Foreign Plant Quarantines.*
A. F. BURGESS, *in Field Charge, Gypsy Moth and Brown-Tail Moth Control (headquarters, Greenfield, Mass.).*
E. G. BREWER, *in Field Charge, Japanese Beetle and Gypsy Moth and Brown-Tail Moth Quarantines, European Corn Borer Certification, and Dutch Elm Disease Eradication (headquarters, Bloomfield, N. J.).*
R. E. McDONALD, *in Field Charge, Pink Bollworm and Thurberia Weevil Quarantines (headquarters, San Antonio, Tex.).*
P. A. HOIDALE, *in Field Charge, Mexican Fruitfly Quarantine (headquarters, Harlingen, Tex.).*
A. C. BAKER, *in Field Charge, Fruitfly Investigations (headquarters, Mexico City, Mexico).*

United States Department of Agriculture

BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

SERVICE AND REGULATORY ANNOUNCEMENTS

OCTOBER-DECEMBER 1941

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QUARANTINE AND OTHER OFFICIAL ANNOUNCEMENTS

ANNOUNCEMENTS RELATING TO DUTCH ELM DISEASE QUARANTINE (NO. 71)

INSTRUCTIONS TO POSTMASTERS

POST OFFICE DEPARTMENT,
THIRD ASSISTANT POSTMASTER GENERAL,
Washington, October 10, 1941.

POSTMASTER:

MY DEAR SIR: Your attention is invited to the inclosed copy of a revision of plant quarantine Order No. 71 of the United States Department of Agriculture on account of the Dutch elm disease, by which you will please be governed. This revision, effective October 1, 1941, removes from the regulated area the town of Huntington in Suffolk County, N. Y., but extends the regulated area to include parts of nine Pennsylvania counties and additional sections in Connecticut, New Jersey, and New York where the Dutch elm disease has been located. See paragraph 1. section 595, Postal Laws and Regulations.

Very truly yours,

RAMSEY S. BLACK,
Third Assistant Postmaster General.

B. E. P. Q. 517

Effective November 10, 1941

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

DUTCH ELM DISEASE

§301.71-4a ADMINISTRATIVE INSTRUCTIONS MODIFYING THE RESTRICTIONS OF THE DUTCH ELM DISEASE QUARANTINE BY AUTHORIZING THE RESHIPMENT FROM POINTS WITHIN THE REGULATED AREA OF ELM PLANTS RECEIVED FROM NONREGULATED AREA AND RESHIPPED DURING THE DORMANT PERIOD OF THE INSECT VECTORS OF THE DISEASE

Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by the fourth proviso of § 301.71, Chapter III, Title 7, Code of Federal Regulations [Notice of Quarantine No. 71 on account of the Dutch elm disease], § 301.71-4 is hereby modified, effective November 10, 1941, by providing that elm plants originating in nonregulated area and received within the regulated area during the period from November 1 to March 31, inclusive, of any 12-month period may be reshipped interstate to nonregulated area during the period specified above when such plants have been handled under conditions of sanitation and segregation as prescribed by the inspector to prevent attack or infestation by insect vectors of the Dutch elm disease or accidental or natural infection by the fungus causing the disease. Such shipments of elm plants shall bear an identifying tag issued by the Bureau of Entomology and Plant Quarantine showing compliance with these conditions. (7 C. F. R., § 301.71; sec. 8, 39 Stat. 1165, 44 Stat. 250; 7 U. S. C. 161.)

Done at Washington, D. C., this 8th day of November 1941.

P. N. ANNAND,
Chief.

[Filed with the Division of the Federal Register November 14, 1941, 11:35 a. m.; 6 F. R. 5799.]

INSTRUCTIONS TO POSTMASTERS

POST OFFICE DEPARTMENT,
THIRD ASSISTANT POSTMASTER GENERAL,
Washington, December 30, 1941.

POSTMASTER:

MY DEAR SIR: Your attention is invited to the inclosed circular relating to the modification of the restrictions of Plant Quarantine No. 71 of the United States Department of Agriculture on account of the Dutch elm disease.

The modification permits the acceptance of reshipment from points within the regulated area of parcels containing elm plants received from the nonregulated area provided the reshipped parcels are accompanied with a certificate or identification tag of the Bureau of Entomology and Plant Quarantine showing the plants have been handled under conditions of sanitation and segregation as prescribed by the Inspector. You should be governed accordingly. See paragraph 1, section 595, Postal Laws and Regulations.

Very truly yours,

RAMSEY S. BLACK,
Third Assistant Postmaster General.

ANNOUNCEMENTS RELATING TO GYPSY MOTH AND BROWN-TAIL MOTH QUARANTINE (NO. 45)

B. E. P. Q. 386 (6th revision)

Effective October 10, 1941

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

PART 301—DOMESTIC QUARANTINE NOTICES

GYPSY MOTH AND BROWN-TAIL MOTH QUARANTINE REGULATIONS MODIFIED

Introductory note.—This revision of circular B. E. P. Q. 386 adds to the list of articles exempted from certification requirements, box shooks, when newly manufactured; cuttings and branches (for ornamental use) of boxwood, of Cali-

fornia peppertree, and of eucalyptus; cuttings of greenhouse-grown woody plants when so labeled; and wood flour, pulverized wood, or ground wood sawdust when sifted through a screen of at least 30 meshes to the inch.

§ 301.45a. *Administrative instructions; articles exempted from restrictions.* Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by the second proviso of § 301.45, Chapter III, Title 7, Code of Federal Regulations [Notice of Quarantine No. 45, on account of the gypsy moth and brown-tail moth], the following articles, the interstate movement of which is not considered to constitute a risk of moth dissemination, are exempted from the restrictions of the regulations of this quarantine, effective October 10, 1941:

- Acacia cuttings (for ornamental use) (*Acacia* spp.).
- Banana stalks, when crushed, dried, and shredded.
- Birch slabs for use as post cards.
- Birch bark when waxed, polished, or otherwise treated to adequately eliminate all risk of transmitting infestation and when used in the manufacture of novelties.
- Box shooks, when newly manufactured and planed on four sides.
- Boxwood cuttings and branches (for ornamental use) (*Buxus sempervirens*).
- Cable reels, when newly manufactured and empty.
- California peppertree cuttings and branches (for ornamental use) (*Schinus molle*).
- Clubmoss (sometimes called "ground pine") (*Lycopodium* spp.).
- Cuttings of woody plants that have been grown in the greenhouse throughout the year, when labeled on the outside of the container to show that the contents were greenhouse grown.
- Eucalyptus cuttings and branches (for ornamental use) (*Eucalyptus globulus*).
- Evergreen smilax (*Smilax lanceolata*).
- Fuchsia (*Fuchsia* spp.).
- Galax (*Galax aphylla*).
- Geranium (*Pelargonium* spp.).
- Heather cuttings (for ornamental use) (*Erica* spp., *Calluna* spp.).
- Heliotrope (*Heliotropium* spp.).
- Herbarium specimens, when dried, pressed, and treated, and when so labeled on the outside of each container.
- Jerusalem-cherry (*Solanum capsicastrum*, *S. pseudocapsicum*, *S. hendersoni*).
- Leaves of deciduous or evergreen trees that have been treated or dyed.
- Mistletoe (*Phoradendron flavescens*, *Viscum album*, etc.).
- Oregon huckleberry (*Vaccinium ovatum*).
- Partridgeberry (*Mitchella repens*).
- Strawberry plants (*Fragaria* spp.).
- Trailing arbutus (*Epigaea repens*).
- Verbena (*Verbena* spp.).
- Wintergreen (*Gaultheria* spp., *Pyrola* spp.).
- Wood flour, pulverized wood, or ground wood sawdust, when processed by screening or sifting through a screen of at least 30 meshes per inch. (Issued under § 301.45.)

All previous lists of exempted articles are superseded by these instructions. Done at Washington, D. C., this 2d day of October 1941.

P. N. ANNAND, *Chief.*

[Filed with the Division of the Federal Register October 8, 1941, 11:04 a. m.; 6 F. R. 5131.]

INSTRUCTIONS TO POSTMASTERS

POST OFFICE DEPARTMENT,
THIRD ASSISTANT POSTMASTER GENERAL,
Washington, October 17, 1941.

Referring to notice of Quarantine No. 45 of the United States Department of Agriculture on account of the gypsy moth and brown-tail moth, notice is given to postmasters in the regulated area, which includes the entire State of Rhode Island and parts of Connecticut, Maine, Massachusetts, New Hampshire, and Vermont, that, effective October 10, 1941, the following articles, the interstate movement of which is not considered to constitute a risk of moth dissemination, are exempted from the restrictions of the regulations of this quarantine:

(For list of articles, see B. E. P. Q. 386 (6th revision), above.)

All previous lists of exempted articles are superseded by these instructions. (See Postal Bulletin of November 21, 1939, and page 10, December 1939 Supplement to the Postal Guide.)

RAMSEY S. BLACK,
Third Assistant Postmaster General.

ANNOUNCEMENT RELATING TO PUERTO RICAN FRUIT AND VEGETABLE QUARANTINE (NO. 58)

B. E. P. Q. 518.

Effective November 15, 1941

TITLE 7—AGRICULTURE

CHAPTER III—BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE PART 301—DOMESTIC QUARANTINE NOTICES

TREATMENT PRESCRIBED FOR CERTAIN PUERTO RICAN VEGETABLES

§301.58-3b. *Administrative instructions; treatment requirement for green string beans, lima beans, faba beans, and pigeonpeas, in the pod, moving from Puerto Rico.* Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by paragraph (a) of § 301.58-3, Chapter III, Title 7, Code of Federal Regulations [regulation 3 of the rules and regulations supplemental to the Fruit and Vegetable Quarantine of Puerto Rico (No. 58)], treatment is prescribed for green string beans, lima beans, faba beans, and pigeonpeas, in the pod, moving by freight or express from Puerto Rico to any other State, Territory, or District of the United States, effective November 15, 1941, as follows:

(a) *Vacuum fumigation.*—Treatment is to be given in a standard vacuum fumigation vault equipped with a blower, with a 15-inch vacuum maintained throughout the period, at any temperature above 34° F., with a dosage of 3 pounds of methyl bromide per 1,000 cubic feet of space, including the load, for 1½ hours.

(b) *Atmospheric fumigation.*—Treatment is to be given in an approved atmospheric fumigation vault provided with a circulating fan, for a period of 2 hours, with dosages of methyl bromide as follows: (1) If the mass temperature is between 50° and 70° F., the dosage shall be at the rate of 3 pounds per 1,000 cubic feet of space, including the load; (2) if the mass temperature is above 70° F., the dosage shall be at the rate of 1½ pounds per 1,000 cubic feet of space, including the load. (NOTE.—Atmospheric fumigation is not recommended at temperatures below 50° F.)

Treatment vaults and equipment will be approved for fumigation purposes by the Bureau of Entomology and Plant Quarantine through the local plant quarantine inspector only when reasonably accessible for supervision purposes and when properly constructed and equipped to carry out the treatment prescribed.

All costs of treatment other than the services of the supervising inspector shall be borne by the owner of the products, or his representative.

While the prescribed treatment is judged from experimental tests to be safe for use with these products the Department assumes no responsibility for any damage sustained through or in the course of treatment.

Shipments of small lots of these products may be certified for shipment by parcel post without fumigation when they have been examined by an inspector and found free from infestation. (7 C. F. R., § 301.58-3; § 8, 39 Stat. 1165, 44 Stat. 250; 7 U. S. C. 161.)

Done at Washington, D. C., this 12th day of November 1941.

P. N. ANNAND,
Chief.

[Filed with the Division of the Federal Register November 19, 1941, 11.14 a. m.; 6 F. R. 5891.]

TERMINAL INSPECTION OF PLANTS AND PLANT PRODUCTS

THIRD ASSISTANT POSTMASTER GENERAL,
Washington, November 10, 1941.

ARIZONA STATE PLANT QUARANTINES

(Revision of notice dated August 7, 1939)

Under plant quarantines and regulations issued by the State of Arizona, the shipment into that State of certain plants and plant materials, known to be hosts of injurious pests and plant diseases, is subject to certain requirements, or entirely prohibited.

The following table gives a summary of the Arizona quarantine laws and regulations, showing the quarantined areas, the plants and plant products affected, and the pests and diseases of which such plants are known hosts. Under the provisions of paragraph 2 (b), section 596, Postal Laws and Regulations, postmasters should not accept such plants and plant products when presented for mailing in violation of these quarantine laws and regulations, and should invite the attention of the mailers thereto.

Plants and plant products prohibited or regulated entry into Arizona

Area quarantined (Column I)	Plants and plant products affected		Plant pests and diseases (Column IV)
	Acceptance for mailing entirely prohibited (Column II)	Acceptance for mailing only when accompanied with approved certificate or Arizona permit (Column III)	
(1) Entire United States.....	-----	All grapevines and cuttings (rooted or otherwise) when accompanied by proper certificate of treatment from state of origin.	Grape mealybug and grape Phylloxera.
(2) Entire United States (except California).	Citrus fruits and plants and parts thereof, except seed.	Citrus seed admitted under Arizona permit. California citrus nursery stock admitted under Arizona permit.	Citrus canker and species of the fruitfly family Trypetidae.
(3) a. Alabama—Counties of Baldwin, Conecuh, and Mobile. Florida—Entire State. Georgia—Counties of Camden, Charlton, Glynn, and Thomas. Louisiana—Parishes of Acadia, Allen, Ascension, Assumption, Avoyelles, Beauregard, Calcasieu, Cameron, East Baton Rouge, East Feliciana, Evangeline, Iberia, Iberville, Jefferson, Jefferson Davis, Lafayette, LaFouche, Livingston, Orleans, Plaquemines, Pointe Coupee, Rapides, St. Bernard, St. Charles, St. Helena, St. James, St. John the Baptist, St. Landry, St. Martin, St. Mary, St. Tammany, Tangipahoa, Terrebonne, Vermilion, Vernon, Washington, West Baton Rouge, and West Feliciana. Mississippi—Counties of Amite, George, Hancock, Harrison, Jackson, Jefferson Davis, Jones, Lawrence, Pearl River, Pike, Stone, and Walthall. Texas—Counties of Angelina, Atascosa, Austin, Bandera, Bastrop, Bee, Bell, Bexar, Blanco, Bosque, Brazos, Brazoria, Brewster, Burlington, Burnet, Caldwell, Calhoun, Cameron, Chambers, Colorado, Comal, Conejo, Coryell, Crane, Crockett, DeWitt, Dimmit, Duval, Edwards, Falls, Fayette, Fort Bend, Frio, Galveston, Gillespie, Goliad, Gonzales, Grimes, Guadalupe, Hamilton, Hardin, Harris, Hays, Hidalgo, Hill, Irion, Jackson, Jasper, Jim Hogg, Jim Wells, Jefferson, Jeff Davis, Karnes, Kendall, Kerr, Kimble, Kinney, Kleberg, Lavaca, Llano, LaSalle, Lampasas, Lee, Liberty, Limestone, Live Oak, McCulloch, McLennan, McMullen, Madison, Mason, Matagorda, Maverick, Medina, Menard, Milam, Mills, Mont-	(a) Sweetpotato tubers and parts thereof; (b) sweetpotato plants, vines, cuttings, draws, slips, and morningglories; (c) yams including the tubers and plants and parts thereof.	-----	Sweet potato weevil.

Plants and plant products prohibited or regulated entry into Arizona—Continued

Area quarantined (Column I)	Plants and plant products affected		Plant pests and diseases (Column IV)
	Acceptance for mailing entirely prohibited (Column II)	Acceptance for mailing only when accompanied with approved certificate or Arizona permit (Column III)	
(3) Texas—Continued. gomery, Nacogdoches, Newton, Nueces, Orange, Pecos, Polk, Presidio, Real, Reagan, Refugio, Robertson, Sabine, San Augustine, San Jacinto, San Patricio, San Saba, Schleicher, Starr, Sutton, Terrell, Travis, Tyler, Upton, Uvalde, Val Verde, Victoria, Walker, Waller, Washington, Webb, Wharton, Willacy, Williamson, Wilson, Zavala, and Zavala.			
(3) b. All other parts of the United States.	-----	Plants and tubers admitted to Arizona when accompanied with certificate from State of origin showing same originated in area known to be free from sweet-potato weevil.	
(4) a. Alabama, Arkansas, Florida, Georgia, Kansas, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia.	Cotton, including all parts of the cotton plant either wild or cultivated; cotton lint, linters, samples of cotton, seed cotton, cottonseed, cottonseed hulls, and Spanish moss.	-----	Cotton boll weevil.
(4) b. Other parts of United States except California.	-----	Seed cotton, cottonseed, lint, linters, cotton samples, cottonseed hulls, and Spanish moss, admitted under Arizona permit or U. S. Department of Agriculture certification.	
(5) Alabama, Arkansas, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Kentucky, Maryland, Massachusetts, Michigan, Mississippi, Nevada, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Virginia, West Virginia, and District of Columbia.	All species, including the ornamental forms, of peach, apricot, almond, nectarine, and plum trees, cuttings, grafts, scions, or buds, or any trees budded or grafted on peach stock or peach roots.	-----	Peach yellows, peach rosette, and little peach.
(6) Arizona, California, Colorado, New Mexico, Oklahoma, Texas, and Utah.	Plum trees and parts thereof, except fruit pits.	Peach and nectarine trees, root stock, grafts, buds, or other parts capable of propagation, except fruit pits, admitted under proper certification from State of origin.	Peach mosaic disease.
(7) Entire United States.....	-----	Strawberry plants admitted if accompanied with certificate from State of origin stating same originated in area free from strawberry root weevils.	Strawberry root weevils.

Plants and plant products prohibited or regulated entry into Arizona—Continued

Area quarantined (Column I)	Plants and plant products affected		Plant pests and diseases (Column IV)
	Acceptance for mailing entirely prohibited (Column II)	Acceptance for mailing only when accompanied with approved certificate or Arizona permit (Column III)	
(8) Alabama, Arkansas, Connecticut, Delaware, District of Columbia, Florida, Georgia, Illinois, Indiana, Kansas, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Mississippi, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Virginia, and West Virginia.	All species and varieties, including the ornamental forms, of peach, nectarine, almond, apricot, plum, cherry, choke cherry, haw, or hawthorne (<i>Crataegus</i> sp.), quince, pear, and apple trees and plants or parts thereof, including the fresh fruits.	Budwood or scions and bare-rooted trees, if accompanied by certificate of fumigation, admitted under Arizona permit from Nov. 1 to Apr. 1.	Oriental fruit moth.
(9) Connecticut, Delaware, Illinois, Indiana, Kentucky, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia, and Wisconsin. ¹	Entry of the following articles into Arizona prohibited except under U. S. Department of Agriculture, or a duly authorized agricultural official of the State of origin, ¹ certification showing them free of infestation or adequately treated: Ears, stalks, cobs, or other parts or debris (except seed and shelled grain free from cob fragments and other plant debris) of corn, broomeorn, sorghums, and Sudan grass; cut flowers, or entire plants of <i>Chrysanthemum</i> , aster, dahlia, and gladiolus (except corms, bulbs, or tubers without stems); lima beans in the pod, green shell beans in the pod (of the variety known as Cranbury or Horticultural); beets with tops; and rhubarb.	-----	European corn borer.
(10) Entire United States except California.	All species and varieties of hickory, pecan, and walnut trees and parts thereof, except nuts.	Scions and budwood and bare-rooted trees admitted under Arizona permit.	Pecan leaf casebearer, pecan nut casebearer, pecan weevil.
(11) Connecticut, Maine, Massachusetts, New Hampshire, Oregon, Rhode Island, Vermont, and Washington.	All species and varieties of willow and poplar trees and parts thereof capable of propagation.	-----	Satin moth.

¹ As amended Dec. 31, 1941.

Shippers desiring Arizona permits must make application therefor direct to the State Entomologist, Phoenix, Ariz.

Postmasters at places in Arizona where State inspection of plants and plant products is maintained under the Terminal Inspection Act should take the action prescribed by paragraph 4 (b), section 596, Postal Laws and Regulations, if parcels sent to such offices for terminal inspection are found to be in violation of these plant quarantine laws or regulations.

RAMSEY S. BLACK,
Third Assistant Postmaster General.

INSTRUCTIONS TO POSTMASTERS—PLANT QUARANTINES AND TERMINAL INSPECTION REGULATIONS APPLICABLE TO FRUITS AND OTHER PLANT PRODUCTS SENT TO MILITARY CAMPS

NOVEMBER 21, 1941.

It has come to attention that parcels containing fruits and other plant products, which are not indorsed on the outside to show that fact, are being sent by relatives and friends to officers and men in military camps located in States which have established quarantines prohibiting or regulating the entry of certain plants or plant products or which require inspection of such articles under the terminal plant inspection regulations. For example, fruits, including apples, almonds, apricots, cherries, chokecherries, nectarines, peaches, pears, plums, and quinces, are not properly acceptable for mailing into Arizona, California, or Oregon from the quarantined areas and the entry into these States of oranges or other citrus fruits is also restricted or entirely prohibited.

Under the law embodied in paragraph 1 (b), section 596, Postal Laws and Regulations, a penalty is imposed for failure properly to indorse parcels containing any plants or plant products when addressed for delivery in any State maintaining terminal inspection. Failure to mark the parcels on the outside may lead to the dissemination of injurious plant diseases or insect enemies.

Postmasters and accepting employees should, therefore, be particularly careful when accepting parcels addressed to officers and men in military camps located in any State maintaining terminal plant inspection or which has established quarantine laws and regulations under the act of June 4, 1936, as listed on pages 20 and 24 of the current Postal Guide, to see that the parcels fully comply with the regulations. To this end they should question mailers and require parcels containing fruit or other plant products to be properly indorsed. Postmasters at the offices of address in terminal inspection States should also exercise care to see that all parcels containing such articles, whether or not so indorsed, are treated as provided by paragraphs 3 to 7, section 596, Postal Laws and Regulations.

RAMSEY S. BLACK,

Third Assistant Postmaster General.

MISCELLANEOUS ITEMS

BISHOPP AND SPENCER TO BE ASSISTANT CHIEFS IN BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

[Press notice]

NOVEMBER 8, 1941.

P. N. Annand, chief of the United States Department of Agriculture's Bureau of Entomology and Plant Quarantine, today announced appointment of Fred C. Bishopp as assistant chief of the Bureau in charge of research work, and Frank H. Spencer as assistant chief in charge of business administration. Avery S. Hoyt will continue as associate chief, and S. A. Rohwer as assistant chief.

Dr. Bishopp was born at Virginia Dale, Colo., on January 14, 1884. He received his B. S. degree in 1902 from Colorado Agricultural College, and his M. S. in 1903 from the same school. He received his Ph. D. degree from Ohio State University in 1932. From 1904 to 1905 he was assistant professor of entomology and assistant State entomologist in Maryland. He then joined the Federal Bureau of Entomology to work on cotton boll weevil investigations until 1910. The following 2 years he worked on tick investigations. He spent the next 5 years studying insects that affect the health of animals. Dr. Bishopp was made chief of the Division of Insects Affecting Man and Animals in 1927, and has continued in this capacity up to the present appointment.

Dr. Bishopp is a Fellow of the American Association for the Advancement of Science and the Entomological Society of America. He is a member of the American Association of Economic Entomologists and was president in 1937; a member of the Washington Entomological Society, president in 1932; member of the Washington Academy of Science; the Biological Society of Washington; the American Society of Parasitologists, president in 1938; the American Society of Tropical Medicine, the Texas Academy of Science, the National Malaria Committee; and the honorary societies Phi Kappa Phi and Sigma Xi.

Mr. Spencer was born in Burlington, N. J., January 2, 1899. He attended the Washington School of Accountancy, and graduated from LaSalle Extension University and Alexander Hamilton Institute. He joined the Government in

the Bureau of Animal Industry in 1917, as a personnel clerk. He served in the Bureau of Markets and the Division of Publications of the Department of Agriculture from 1919 to 1921. He then became secretary to the Director of the War Finance Corporation from 1921-22. In 1922 he became administrative assistant and secretary to the Secretary of Agriculture, which position he held until 1931 when he became business manager of the Bureau of Entomology, transferring in the same capacity when the present Bureau of Entomology and Plant Quarantine was formed in 1934.

CUSHING NAMED HEAD OF ENTOMOLOGY AND PLANT QUARANTINE DIVISION

[Press notice]

NOVEMBER 27, 1941.

P. N. Annand, chief of the Bureau of Entomology and Plant Quarantine, United States Department of Agriculture, announced today appointment of Emory C. Cushing to succeed F. C. Bishopp as chief of the Division of Insects Affecting Man and Animals.

Mr. Cushing was born in Grafton, Nebr., December 4, 1897, attended public schools in San Antonio, Tex., and graduated in 1918 from Texas Agricultural and Mechanical College. He pursued advanced work at that institution, the Liverpool School of Tropical Medicine, and Cornell University.

Mr. Cushing was on the staff of the Texas Agricultural Experiment Station before joining the Bureau of Entomology in 1928. His work with the Bureau has been largely devoted to investigations of insects affecting man and animals and for several years he was assistant division leader. It was due to his efforts that the true screwworm was identified, revolutionizing control of this very important pest.

ROHWER IN CHARGE OF ENTOMOLOGY AND PLANT QUARANTINE REGULATORY WORK, POPHAM NEW ASSISTANT CHIEF

[Press notice]

DECEMBER 4, 1941.

The United States Department of Agriculture announced today new assignments for two officers of the Bureau of Entomology and Plant Quarantine. Sievert A. Rohwer, an assistant chief of the Bureau, has been placed in charge of regulatory work, and William Lee Popham has been appointed an assistant chief in charge of control operations. P. N. Annand is Chief of the Bureau.

Mr. Rohwer was born in Telluride, Colo., on December 22, 1888. He was educated in Colorado and came to the Department in 1909 as a taxonomist. In 1923 he was placed in charge of the new division of Insect Identification of the Bureau of Entomology, and in 1927 was assigned to general administrative duties. When the Plant Quarantine and Control Administration was created in 1928 he was appointed assistant chief of that Bureau. In 1933, Mr. Rohwer was transferred to the Bureau of Entomology as assistant chief and continued as such when the Bureau of Entomology and Plant Quarantine was created in 1934.

Mr. Popham was born in Corvallis, Mont., on February 26, 1901. He received a B. S. degree in agriculture from Montana State College in 1923, and did 2 years' postgraduate work in botany and plant pathology at the same school. His first position was with the Montana State Horticultural Board, and he entered the Department of Agriculture's Bureau of Plant Industry in September 1924 as a State leader in black stem rust control. In 1928 he became regional leader for Montana and Wyoming and in 1930 a field supervisor for 13 North Central States. He came to Washington as assistant chief of the Division of Barberry Eradication in 1931, and when this work was taken over by consolidation with the Bureau of Entomology and Plant Quarantine in 1934 he was placed in charge of barberry eradication work.

UNITED STATES DEPARTMENT OF AGRICULTURE DISCONTINUES EUROPEAN CORN BORER CERTIFICATION

[Press notice]

DECEMBER 30, 1941.

The United States Department of Agriculture said today that on January 1 it will discontinue certification of products the movement of which is regulated by State quarantines on account of the European corn borer.

Since the Federal quarantine on the European corn borer was revoked on July 15, 1932, the Department has been inspecting and certifying products to meet requirements of various State quarantines on this pest. As a condition of movement into the State the various quarantines require inspection and certification of many kinds of products, such as corn, broomcorn, Sudan grass, chrysanthemums, asters, hollyhocks, dahlias, beets with tops, celery, beans, rhubarb, and oat and rye straw, which are likely to carry the corn borer from known infested areas.

The work of the Department has been carried on with funds provided through annual appropriations made to the Bureau of Entomology and Plant Quarantine for this purpose. Funds provided for the current fiscal year are less than one-half of the amount available during preceding years and are inadequate to provide inspection necessary to give service throughout the fiscal year. Since July of this year, the inspection and certification work have continued without reduction in efficiency, but available funds will be exhausted by December 31, 1941, when the work will be discontinued.

Officials of the States having quarantines requiring that restricted products from the area where the corn borer occurs be certified by employees of the Department have advised the Bureau of Entomology and Plant Quarantine that their quarantines will be modified to accept such products upon certification by State officials. With these modifications in State quarantines there should be no interruption in normal movement of restricted articles or increase in pest risk.

States or parts of States in the infested area are Connecticut, Delaware, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, Vermont, Virginia, and Wisconsin. States requiring Federal certification are Colorado, Nevada, Oregon, Texas, and Tennessee. Utah and Wyoming have embargoes against restricted materials.

B. E. P. Q. 382, Revised, Supplement No. 2.

PLANT-QUARANTINE IMPORT RESTRICTIONS, REPUBLIC OF URUGUAY

DECEMBER 26, 1941.

STANDARDS ESTABLISHED FOR CERTAIN SEEDS

Although not a plant quarantine order, the following information may be of interest to exporters of the seeds concerned to Uruguay. It is quoted from the Foreign Commerce Weekly for December 13, 1941.

VEGETABLE SEEDS: PURITY AND GERMINATION IMPORT STANDARDS ESTABLISHED

"Standards for purity and germination for certain vegetable seeds imported into Uruguay have been established by a decree of October 29, 1941, published in the *Diario Oficial*, November 14, 1941, Montevideo. The following are the required percentages of purity and germination, respectively: Chicory, endive, and carrots, 90 percent purity and 55 percent germination; onions, leeks, aniseed, celery, asparagus, peppers, watermelon, squash, artichoke, fennel, parsley, salsify, and spinach, 95 percent purity and 55 percent germination; beets, melon, cucumber, lettuce, cress, radishes, tomatoes, and eggplant, 95 percent purity and 70 percent germination; and cabbage, chickpeas, cauliflower, turnip, lentils, beans, peas, broad beans, and sweet corn, 95 percent purity and 80 percent germination."

P. N. ANNAND,
Chief, Bureau of Entomology and Plant Quarantine.

B. E. P. Q. 406, Revised, Supplement No. 3.

PLANT-QUARANTINE IMPORT RESTRICTIONS, BRITISH COLONY OF MALTA

NOVEMBER 19, 1941.

AREA QUARANTINED ON ACCOUNT OF COLORADO POTATO BEETLE INCREASED

The 35th Supplement to the List of Prohibited Articles as published in the Bulletin of the International Bureau of the Universal Postal Union, July 15,

1941, contains information upon which the second paragraph under "Importation Prohibited" in B. E. P. Q. 406, Revised, is amended to read as follows:

Trees, shrubs, cuttings, tubers, bulbs, bulbous roots of flowers, tomatoes, and fresh vegetables: Importation prohibited from Germany, North America, Belgium, Spain, France, Luxembourg, Holland, and Switzerland, to prevent the introduction of the Colorado potato beetle (*Leptinotarsa decemlineata* Say) and the San Jose scale (*Aspidiotus perniciosus* Comst.).

P. N. ANNAND,
Chief, Bureau of Entomology and Plant Quarantine.

B. E. P. Q. 426, Supplement No. 6.

PLANT-QUARANTINE IMPORT RESTRICTIONS, REPUBLIC OF ARGENTINA

NOVEMBER 22, 1941.

REGULATIONS GOVERNING IMPORTATION OF SUDAN GRASS

Executive Decree No. 87,028, January 16, 1941, creates a Service for the certification and inspection of domestic forage plant seeds. The following articles refer to the importation of seeds, including especially Sudan grass.

ARTICLE 20. Importers of seeds may not propagate them in the country without being previously registered and approved by the Seed Inspection Service.

ART. 21. The railroads, shipping companies, and other public carriers shall accept only certified and sealed shipments of Sudan grass.

ART. 22. New bags only shall be used. Each bag shall be sealed and labeled with the following information: Name of variety, origin, date of harvest, and grade.

P. N. ANNAND,
Chief, Bureau of Entomology and Plant Quarantine.

B. E. P. Q. 519. (Supersedes P. Q. C. A. 283, Revised, and all supplements).

PLANT-QUARANTINE IMPORT RESTRICTIONS, REPUBLIC OF CUBA

NOVEMBER 21, 1941.

This revision of the plant-quarantine import restrictions of the Republic of Cuba was made necessary by the combining of most Cuban regulations in a single decree. It has been prepared for the information of exporters of plants and plant products to that country, and plant quarantine officials.

The circular was prepared by Richard Faxon, District Supervisor, Export Certification, Division of Foreign Plant Quarantines, from a translation of Decree No. 2745 of October 4, 1940, and was reviewed by Ing. Jose M. Santos, Director of Agriculture, Havana, Cuba.

The information contained in this circular is believed to be correct and sufficiently complete for its purpose up to the time of preparation, but it is not intended to be used independently of, nor as a substitute for, the original text, and it is not to be interpreted as legally authoritative.

P. N. ANNAND,
Chief, Bureau of Entomology and Plant Quarantine.

B. E. P. Q. 519. (Supersedes P. Q. C. A. 283, Revised, and all supplements).

PLANT-QUARANTINE IMPORT RESTRICTIONS, REPUBLIC OF CUBA

NOVEMBER 21, 1941.

BASIC LEGISLATION

[Decree No. 2745, October 4, 1940; Department of Agriculture, Division of Plant Sanitation, Decree No. 1752, October 22, 1928; Decree No. 1201, August 26, 1932]

Decree No. 2745 quotes previous legislation delegating authority to the Department of Agriculture for plant protection. All Cuban regulations dealing with plant-quarantine matters have been compiled in this decree and previous regulations have been revoked with the exception of Decree No. 1752, which regulates

the importation of cheesecloth that has been used to cover tobacco fields, and Decree No. 1201, which restricts the importation of seed potatoes.

PERMIT REQUIRED

A permit to import fruits, vegetables, plants or parts thereof, including stocks and seeds, must be secured from the Division of Plant Sanitation 10 days previous to the date of shipment, unless such products are specifically excepted from this requirement in the regulations. (The list of exceptions will be found in article 3.)

PROHIBITED

- All classes of fruit from Texas. (Art. 4.)
- Corn on the cob from all countries. (Art. 5.)
- Citrus fruit with a few exceptions, such as Arizona, California, and Florida. (Art. 6.)
- Potatoes from most countries. United States excepted. (Art. 10.)
- Banana plants, *Musa* spp., from all countries. (Art. 11.)
- Tomato and pepper seed from all countries except the United States. (Art. 12.)

RESTRICTED

A phytosanitary inspection certificate is required in connection with the importation of:

- Garden seeds, papaya, and flower seeds. (Art. 3 (c).)
- Fruits coming from the Chilean province of Coquimbo and south of it. (Art. 3 (f).)
- Lily bulbs from Bermuda. (Art. 3 (h).)
- Sour lemons from Italy and Spain. (Art. 6 (b).)
- Broomcorn plants or parts thereof used in the manufacture of brooms. (Art. 7.)
- Zacaton roots used in the manufacture of brushes. (Art. 7.)
- Cottonseed, cottonseed hulls, raw cotton, and cloth which has been used to cover bales of any class of cotton coming from the areas in the United States infested with pink bollworm (*Pectinophora gossypiella*). (Art. 8.)
- Nursery stock, including dahlia bulbs, throughout the year, and fruits, vegetables, cut flowers, and plants from June 15 to October 15, coming from areas in the United States infested with the Japanese beetle. (Art. 9 (a) and (b).)
- Potatoes, sweetpotatoes, and other tubers, fresh peas, peanuts in the shell, seed cotton, raw cotton, cottonseed, and sod coming from areas in the United States infested with the white-fringed beetle (*Pantomorus leucoloma* and *Pantomorus peregrinus*). (Art. 13.)

UNRESTRICTED

Walnuts, pecans, hazelnuts, chestnuts, almonds, Brazil nuts, husked rice, beans, lima beans, chickpeas, peas, and edible grains of all kinds, and coffee beans coming from any country. (Art. 3 (c).)

Fruits and vegetables for consumption from the United States when free from pests and not specifically prohibited. (Art. 3 (b).)

GENERAL REGULATIONS

[Decree No. 2745, October 4, 1940]

The preamble cites the authority for vesting plant-quarantine measures, such as inspection of imported foreign plants and plant products, control of diseases and insects injurious to Cuban agriculture, and the control of the movement of infested plants and plant products, in the Department of Agriculture. It calls attention to the desirability of combining all regulations dealing with plant-quarantine problems in a single decree.

On the advice of the Secretary of Agriculture, the President of the Republic resolves to modify the Presidential Decree No. 740, dated May 10, 1929, so that it may read as follows:

PERMIT

ARTICLE 1. The importation of fruits, vegetables, and plants or parts thereof, including stocks and seeds, must be previously authorized by the Division of

Plant Sanitation of the Department of Agriculture, unless such importation is specifically authorized by these regulations without that requirement or with special ones, or is specifically prohibited. In every case, the imported products must be received free of earth, except those the importation of which is authorized without this requisite by resolution of the Plant Quarantine Board.

ART. 2. In order to import any plants or parts thereof not exempted from the above requirement, the required permit must be applied for not less than 10 days previous to the day of shipment, and shall not be issued without a previous favorable report from the Plant Quarantine Board.

EXCEPTIONS TO PERMIT REQUIREMENT

ART. 3. The following products may be imported without the restrictions of article 1 of these regulations:

(a) Plants or parts thereof, consigned to the Agricultural Experiment Station, under the Office of the Secretary of Agriculture, which shall remain subject to quarantine or other proper measures in order to prevent the introduction of dangerous pests, in accordance with the decision of the Department of Phytopathology and Entomology and the Department of Botany of said Agricultural Experiment Station.

(b) Fruits and vegetables for consumption coming from the United States of North America, provided their importation is not specifically prohibited from that country and that they are free from pests.

(c) Except when specifically prohibited, if clean and free from pests, garden seeds, papaya, and flower seeds, when accompanied by an official phytosanitary certificate.

Walnuts, pecans, hazelnuts, chestnuts, almonds, Brazil nuts, husked rice, beans, lima beans, chickpeas, peas, and edible grains of all kinds, and coffee beans.

(d) Onions coming from the Canary Islands, Egypt, and Chile.

(e) Garlic, artichoke, cabbage, and asparagus coming from Chile.

(f) Apples, pears, peaches, quinces, nectarines, plums, mazzard cherries, apricots, cherries, grapes, Japanese persimmons, and melons, coming from the province of Coquimbo and other Chilean provinces south of it, provided they are accompanied by an official phytosanitary certificate stating that these products originated in the above-mentioned provinces, and that they are free from *Pantomorus leucoloma*, *Pantomorus peregrinus*, and other pests, and that the importation is made exclusively through the port of Havana.

(g) Fruits and agricultural products authorized by exceptions in articles 6 and 13 of this decree.

(h) Lily bulbs from Bermuda, provided they are packed in clean coral sand and are accompanied by a certificate issued by an authorized officer of the country of origin, stating that they are free from pests or diseases injurious to agriculture.

(i) Preserved agricultural products.

(j) Agricultural products imported as raw material for industrial purposes, except those specifically regulated or prohibited.

(k) Agricultural products imported for medicinal purposes, in sufficient quantities for drug stores, pharmacies, and laboratories, with the same exceptions as stated under the above paragraph.

(l) Manufactured agricultural products, meaning, for this purpose, such manufacturing as will change the natural condition of the products, by means of any processes that include or produce their sterilization.

(m) Lumber and its manufactured products.

FRUIT FROM TEXAS

ART. 4. To prohibit the importation of all classes of fruit coming from the State of Texas, United States of America.

EUROPEAN CORN BORER AND CORN DISEASES

ART. 5. To prohibit the importation of corn on the cob from all countries, and of shelled corn from Australia and the Far East.

CITRUS PLANTS AND FRUIT

ART. 6. To prohibit the importation of plants, or parts thereof, and fruit of the genus *Citrus*, with the following exceptions:

(a) Citrus fruits coming from the United States of North America, except those from Louisiana and Texas, provided each fruit is individually wrapped in paper, and all the fruit is packed in crates.

(b) Sour lemons, that is, those so-called French lemons, coming from Italy and Spain, provided they comply with the above requirements, and, besides, are accompanied by a phytosanitary certificate issued by the official authorities stating that they are free from insects.

EUROPEAN CORN BORER

ART. 7. To prohibit the importation of broomcorn plants (*Holcus*) or parts thereof, raw material used for the manufacture of brooms, unless accompanied by an official certificate stating that they have been fumigated or treated with steam, or otherwise treated in an adequate manner so as to kill the insect known as *Pyrausta nubilalis* and other insects.

In the same manner, the importation of the roots of zacaton or broom grass, raw material used in the manufacture of brushes, is prohibited, unless it is dry, perfectly clean, and has been sulfured.

PINK BOLLWORM

ART. 8. To prohibit the importation of cottonseed, cottonseed hulls, raw cotton, and of cloth which has been used to cover bales of any class of cotton (*Gossypium*) unless coming from those areas in the United States of North America not infested with the insect known as the "pink bollworm" (*Pectinophora gossypiella*).

From the regulated areas of that country they will be allowed only when accompanied by a certificate of the United States Department of Agriculture, stating that they have complied with the requirements necessary for interstate movement. The importation of raw cotton from other countries is allowed only when accompanied by an authorized official certificate stating that it has been properly fumigated so as to kill the stages of said insect.

The products mentioned in the first paragraph of this article are not allowed into the Isle of Pines, even when coming from Cuba, without a permit issued by the Secretary of Agriculture; said permit will also be necessary to import into Cuba cottonseed coming from the Isle of Pines.

JAPANESE BEETLE

ART. 9. To prohibit the importation of the following products from the regulated areas of the United States of North America, infested with the Japanese beetle (*Popillia japonica*):

(a) During the period comprised between the 15th of June and the 15th of October: Fruits, vegetables, cut flowers, and plants.

(b) Permanently: Nursery stock, including dahlia bulbs, but no other classes of bulbs.

This prohibitive measure shall not apply to any of the enumerated products, when accompanied by an official phytosanitary certificate issued in accordance with the requirements of the United States Department of Agriculture for interstate movement.

POTATO RESTRICTIONS

ART. 10. To prohibit the importation of potatoes, except those coming from the United States of North America, Canada, Spain, Canary Islands, and Bermuda, which must be accompanied correspondingly by an official phytosanitary certificate issued by the proper authority of the country of origin. (See also Seed Potatoes, p. 11.)

BANANA PLANTS

ART. 11. To prohibit the importation, from all countries, of the banana plant, or portions thereof, and of all plants of the genus *Musa*.

TOMATO AND PEPPER SEED

ART. 12. To prohibit the importation of tomato and pepper seed, except that coming from the United States of North America if accompanied by an official phytosanitary certificate, stating that the seed has been properly disinfected by a process that will kill the organism causing "bacterial spot" (*Bacterium vesicatorium*) and "bacterial canker" (*Aplanobacter michiganense*).

WHITE-FRINGED BEETLE

ART. 13. To prohibit the importation of the following products, when coming from the regulated areas¹ of the United States of North America, because of the white-fringed beetle (*Pantomorus leucoloma* and *Pantomorus peregrinus*), except when accompanied by a certificate of the United States Department of Agriculture stating that they have complied with all the requirements for interstate movement: Potatoes, sweetpotatoes, and other tubers, fresh peas, and peanuts in the shell, seed cotton, raw cotton, cottonseed, and sod. At all events said products, upon their arrival in Cuba, shall be subject to inspection by the Bureau of Plant Quarantine of the Department of Agriculture.

If upon inspection these products are found to be infested they shall be destroyed immediately; if no infestation is detected, but they are not accompanied by a certificate, the material shall be destroyed unless reshipped within the time allowed by the Bureau of Plant Quarantine.

PORTS OF ENTRY

ART. 14. To order that the importation of fruits and vegetables, plants, and other agricultural products, other than those enumerated in this decree from (i) to (m), inclusive, shall take place only through the ports of Havana, Cienfuegos, and Santiago de Cuba, unless otherwise specifically disposed.

INSPECTORS' AUTHORITY

ART. 15. Authority is hereby conferred on the inspectors of the Division of Plant Sanitation to the effect that, in cooperation with the Customs Inspectors, they may inspect the baggage and possessions of passengers and crews of ships or other vehicles of transportation, as well as any imported cargo, when their inspection is deemed necessary in order to carry out the provisions of this decree.

Said inspectors shall prevent the landing of all articles capable of introducing injurious agricultural pests, when not imported under the provisions of this decree; or shall place them, if already landed, at the disposition of the Chief of Plant Sanitation, to whom they shall report with all speed, in either case.

If the introduction into the country has already taken place, or any other provision of this decree has been violated, whether by a civilian or by a public official, a report shall be made to the Court in accordance with the provisions of section 20, Article 578, of the Code for Social Defense, without damage to the administrative authority when a public official or employee is involved.

FRUIT IN SHIP'S STORES

ART. 16. The storerooms or ice boxes of ships containing fresh fruits and coming from Bermuda, Jamaica, Mexico, Central America, South America, Trinidad, Hawaiian Islands, Australia, Philippine Islands, Portugal, Spain, France, and Italy shall be sealed while they remain in Cuban ports, this function to be performed by the corresponding Customs inspector in those ports where no inspectors of the plant Sanitation service are located.

RESHIPPED FRUITS AND OTHER AGRICULTURAL PRODUCTS

ART. 17. Fruits and other agricultural products whose brands, labels, or other marks denote that they came from countries from which a certificate of origin is required, must be accompanied by said certificate, even when shipped from a different country.

CONSULAR VISA

ART. 18. All certificates required from foreign countries in accordance with this decree must be visaed by the Cuban consul, unless there is no consul in the country issuing it.

BENEFICIAL INSECTS AND FUNGI

ART. 19. In the case of the importation of insects and fungi beneficial to agriculture, the importer must apply for permission from the Chief of Plant Sanitation, which shall be given only after receiving a favorable report from the Plant Quarantine Board.

¹ The States quarantined by the white-fringed beetle quarantine (Quarantine No. 72) comprise Alabama, Florida, Louisiana, and Mississippi.

ART. 20. An Advisory Board of Plant Quarantine is hereby created, to be composed of the following members:

- (1) The Director of Agriculture as Chairman;
- (2) The Chief of the Division of Plant Sanitation;
- (3) The Chief of the Department of Phytopathology and Entomology of the Agricultural Experiment Station;
- (4) The Chief of the Department of Botany and Genetics of the same station;
- (5) The Chief of the Bureau of Plant Quarantine who shall act as Secretary;
- (6) The Professor of Plant Pathology and Entomology of the National University; and
- (7) A member, a specialist in this matter, of the "Felipe Poey" Society of Natural History.

Said Board shall perform the following functions:

- (a) To advise the Secretary of Agriculture, when he so desires, on matters pertaining to the regulation of plant products importations.
- (b) To answer all questions on such matters submitted to it by the Division of Plant Sanitation; and
- (c) To propose to the Secretary of Agriculture the adoption of quarantine measures that the Board may deem advisable.

SECRETARY'S AUTHORITY

ART. 21. The Secretary of Agriculture, being previously advised by the Plant Quarantine Board, shall have the power to revoke any of the prohibitions enacted in this decree as they affect the importation of plant products, or to enact new ones; and, in the same manner, shall have the power to issue such dispositions as he may consider necessary for the better enforcement of it.

REVOCATION OF PREVIOUS DECREES

ART. 22. All the decrees and resolutions pertaining to the importation of plant products, or to any other imports that may appear injurious to agriculture, with the exception of Decree No. 1752 of October 22, 1928, and Decree No. 1201 of August 26, 1932, are hereby revoked.

ENFORCEMENT OF DECREE

ART. 23. The Secretary of Communications, the Secretary of the Treasury, and the Secretary of Agriculture are hereby charged with the enforcement of such phases of this decree as come under their corresponding jurisdiction.

Done at the city of Havana, in the Presidential Palace, this 4th day of October 1940.

FEDERICO LAREDO,
President.

FRANCISCO GOMEZ,
Secretary of Communications and Acting Secretary of Agriculture.

[Decree No. 1752, October 22, 1928]

USED CHEESECLOTH

The Presidential Decree No. 1752 of October 22, 1928, prohibits the importation of used cheesecloth for covering tobacco plantations, unless it has been thoroughly fumigated in its country of origin. An accompanying certificate issued by the competent authority and endorsed by the Consul of Cuba will be accepted as evidence. The certificate shall also state that the goods do not contain the "escarabajo japonés" (Japanese beetle, *Popillia japonica* Newm.), or any other crop pest.

In default of this certificate the cloth shall, at the expense of the persons concerned, be fumigated on its arrival at Havana—the only port by which its importation is allowed—or receive such other treatment as is specified by the "Departamento de Sanidad Vegetal." (Revista de Agricultura, Comercio y Trabajo, Publicacion mensual, organo oficial de la Secretaria de Agricultura, Comercio y Trabajo, Habana, Cuba, 1928, ano XI, vol. 10, num. 5, pag. 47.)

[Decree No. 1201, August 26, 1932]

SEED POTATOES

The importation of seed potatoes is permitted from Canada, Bermuda, Canary Islands, and the United States of America, provided a certificate covering the

shipment is issued by appropriate official authorities with the Cuban consul visa verifying that they are certified seed potatoes in good sanitary condition. The Federal or State governments or grower's associations designated by colleges of agriculture, may issue such certificates, and the certificate must attest that the potatoes have been inspected twice in the field during the growing season and once at digging time by official inspectors. Each container must carry an official tag or label on which is indicated the place of origin, variety, number of certificate concerning quality, identity of grower, and net weight of contents.

PENALTIES IMPOSED FOR VIOLATIONS OF THE PLANT QUARANTINE ACT

According to reports received by the Bureau during the period October 1 to December 31, 1941, penalties have recently been imposed by the proper authorities for violations of the Plant Quarantine Act, as follows:

QUARANTINES AFFECTING MEXICAN PRODUCTS

In the case of the United States versus the persons listed below, for attempting to smuggle in contraband plant material, the penalties indicated were imposed by the United States customs officials at the following ports:

Name	Port	Contraband	Penalty
Edmund Alvarado	San Ysidro, Calif.	3 stalks sugarcane	\$1
Mauricia Velasquez	do.	15 nodes sugarcane	1
Alberto Cosico	do.	44 nodes sugarcane	1
Alvero Moro	do.	14 guavas	1
Dolores Gomez de Spencer	do.	45 nodes sugarcane	1
Maria Webb Martinez	Brownsville, Tex.	47 pods of okra	1
Mrs. Donald Orhsen	do.	1 apple	1
Florencia R. de Pohlamo	do.	10 plants	1
Jose Salinas	do.	8 oranges	1
William Wood	Eagle Pass, Tex.	1 apple	1
Maximian Fuentes	do.	16 haws	1
Maria M. de Moral	do.	2 apples and 5 oranges	1
Andres S. Rivera	do.	1 pomegranate	1
Isabel Guerrero	do.	1 avocado	1
Teresa Espinosa	do.	1 cherimoya and 1 orange	1
Manuel Gomez	do.	5 avocados	1
Cristina Arellano de Sepulveda	do.	5 plants	1
Maria Delgado	do.	1 orange	1
Maria Ninfa Verala	do.	4 guavas	1
Guadalupe Vasquez de Rubio	do.	7 plants, 5 guavas, 2 mango seeds, and 4 avocado seeds.	1
Edelia Ramon	do.	5 stalks sugarcane	1
Mannel Valero	do.	2 oranges	1
Felicitas Trevino de Villanueva	do.	3 pomegranates	1
Maria Maya Perez	El Paso, Tex.	25 guavas, 9 sapotes, 4 sapote seeds, and 4 ounces cherimoya seeds.	1
Juan Alvarez	Hidalgo, Tex.	1 avocado	1
Leonor S. Garza	do.	do	1
Concepcion Saenz	do.	2 quinces	1
Lupe Gonzalalez	do.	4 avocados	1
Barbara B de Riveda	do.	1 avocado	1
Juan Perez	do.	7 avocados	1
Cecila Herrera	do.	2 avocados	1
Delfina Luna	do.	3 avocados	1
Jose Vasquez	do.	do	1
Maria Luz Espinosa	do.	1 avocado	1
Nasaria Garza	do.	2 avocados	1
Gregoria Gonzales	do.	4 avocado seeds	1
Carmen de la Garza	do.	1 avocado	1
Jesus Maria Gonzales	do.	do	1
Marcellina P. Perez	do.	8 sweet potatoes	1
Manuela Perez	do.	7 plants	1
Evarieta Davila	do.	18 plants	1
A. B. Vela	do.	1 guava	1
Anselina Guerra	do.	1 plant	1
Maria Cantu	do.	4 avocados	1
Benito Vera	do.	2 apples	1
Manuel Garcia	do.	1 guava	1
E. Perez	do.	5 avocados	1
H. L. McIntire	do.	2 plants	1
Tomasa Tizerina	do.	2 avocados	1
Louisa Rivera	do.	2 plants and 8 ounces tree seed	1
Maria Molina	do.	2 avocados	1
Guillermo Perez	do.	do	1

Name	Port	Contraband	Penalty
Simona Buena	Laredo, Tex	8 avocados	\$1
Angelina M Cantu	do	26 plants	1
Paula Garcia	do	4 plants	1
Eva Garcia	do	1 plant	1
Maria Salas P.	do	3 plants	1
Mrs. R. Moreno	do	2 plants	1
Mrs. Rufina Herrera	do	1 avocado	1
Elodia Rodriguez	do	1 orange	1
Jose Quiros	do	4 avocados	1
Jaime Villalabos	do	4 avocados, 8 apples, and 1 orange	1
Edward J. Rivas	do	3 apples and 2 avocados	1
Maurice Santos	do	3 oranges	1
Delgado Ramirez	do	98 haws	1
Mike Jacaman	do	1 plant	1
Manuela Garcia	do	1 orange	1
Joe Medina	do	36 nodes sugarcane	1
Praxedis Balladolid	do	4 plants	1
Soledad A. Sanchez	do	4 oranges and 1 maypop	1
L. Deaba	do	13 maypops, 2 cherimoyas, and 2 apples.	2
Fred C. Wolff	do	3 ponderosa lemons	1
Mary Dry	do	1 cherimoya and 4 guavas	1
T. W. Beall	do	5 oranges	1
Rafaela P. Garcia	do	7 guavas	1
Francisco Cantu	do	5 sour limes and 3 plants	1
M. H. Quiroz	do	2 plants	1
Mrs. Juan Villa	do	3 plants and 2 avocados	1

ORGANIZATION OF THE BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

P. N. ANNAND, *Chief.*

AVERY S. HOYT, *Associate Chief.*

S. A. ROHWER, *Assistant Chief in Charge of Regulatory Work.*

F. C. BISHOPP, *Assistant Chief in Charge of Research Work.*

W. L. POPHAM, *Assistant Chief in Charge of Control Operations.*

F. H. SPENCER, *Assistant Chief in Charge of Business Administration.*

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E. R. SASSCER, *in Charge, Division of Foreign Plant Quarantines.*

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CLAUDE WAKELAND, *in Field Charge, Grasshopper Control (headquarters, Denver, Colo.).*

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United States Department of Agriculture

BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

SERVICE AND REGULATORY ANNOUNCEMENTS

LIST OF INTERCEPTED PLANT PESTS, 1941

(List of Pests Recorded During the Period July 1, 1940, to June 30, 1941, Inclusive, as Intercepted in, on, or with Plants and Plant Products Entering United States Territory.)

INTRODUCTION

This report covers the twenty-eighth year for which records of interceptions have been issued. The data in the main detailed table are arranged under alphabetical lists of the pests and pathogens, as was done last year for the first time, but three columns headed "Consumption," "Nonentry," and "Propagation" have been substituted for the five columns headed "Cargo," "Mail," "Baggage," "Quarters," and "Stores." Items in the "Consumption" column include pests and pathogens found in, on, or with material offered for entry for consumption, as food or feed, and for use in manufacturing or processing, as well as packing for these and other materials, whether or not their entry was permitted. Since such materials are often so distributed or so handled as to enable accompanying pests to become established, items in this column may represent considerable risk. Items in the "Nonentry" column include organisms found associated with non-entry material, e. g., in stores and quarters, or en route to other countries. Such findings usually represent a relatively smaller risk, as temporary safeguarding is all that is necessary, although flying insects, air-borne pathogens, and garbage may require prompt attention to eliminate danger. Items in the "Propagation" column include some of the insects, pathogens, and related or associated forms of interest found in, on, or with plant material offered for entry for propagation purposes and believed to be associated with that material. Insects and diseases found in, on, or with the packing materials and clearly not associated with the propagation material would be listed in the "Consumption" column, if listed at all. While the quantity of material offered for entry for propagation is relatively small, interceptions on such material are important because if the parasites were allowed to go forward they would be likely to become established and distributed with their hosts. Thus the three new groups have been adopted as giving a more accurate reflection of the relative pest risk represented by the items listed therein than did the five groups used heretofore.

It may be noted that a considerable proportion of the pests listed in the detailed table were found in, on, or with material for propagation in spite of the relatively small volume of such material. Among the factors contributing to this result are the more intensive inspection of such of this material as is entered in limited quantities under special permit, the fact that some of this material represents types not previously imported in such volume or over a long enough period of time to insure establishment of their pests, and the further fact that much of it comes directly or indirectly from relatively new or unusual points of origin.

While many of the plant materials entered in large quantities carry few new pests, there are, from time to time, initial shipments of new products as well as of old products from new areas. Then, too, faster transportation and refrigeration aid additional pests from various parts of the world in gaining a foothold in areas from which we have imported for many years. Many of our relatively common pests and diseases vary considerably on different hosts and under different environmental conditions. New foreign insects and, especially, new foreign plant diseases may so closely resemble variants of species already established here that extreme care is required to detect them. Any insect or disease record which has not been published sufficiently often to establish it as a more or less regular finding may be included in the detailed table as a matter of interest.

War conditions resulted in reduction or elimination of interceptions from some countries, but the number of interceptions listed in the detailed table shows less change than has resulted from other factors in times past.

NOTES ON INSECTS INTERCEPTED

FRUITFLIES

Anastrepha fraterculus was intercepted at Boston in grapefruit in stores from Argentina and Trinidad. The Mexican fruitfly (*Anastrepha ludens*) was intercepted 173 times in 9 different hosts in baggage, quarters, and stores from Mexico. *A. mombinpraeoptans* was taken 35 times in 3 different hosts in baggage, mail, quarters, and stores from 7 countries. The dark fruitfly (*A. serpentina*) was taken 13 times in 4 hosts in baggage, mail, and quarters from Colombia, Mexico, and Trinidad. *A. suspensa* (larva) was intercepted in grapefruit and guava in baggage and stores from Cuba, Haiti, and Puerto Rico and (puparium) in bag of guavas and genips in baggage from Puerto Rico. The Mediterranean fruitfly (*Ceratitis capitata*) was intercepted 10 times in 8 different hosts in baggage and stores from 6 countries. The melon fly (*Dacus cucurbitae*) was taken at San Diego in string beans in quarters from Hawaii. The celery fly (*Philophylla heraclei*) was intercepted at New York in celery in stores from England. The apple maggot (*Rhagoletis pomonella*) was intercepted 4 times at Laredo in red haw and apple in baggage from Mexico. The papaya fruitfly (*Toxotrypana curvicauda*) was taken only once during the year, in papaya in baggage from Mexico.

INSECTS OTHER THAN FRUITFLIES

In addition to the usual insects of major importance, such as the pink bollworm (*Pectinophora gossypiella*), the West Indian sweetpotato weevil (*Euscepes postfasciatus*), the Asiatic rice borer (*Chilo simplex*), the East Indian bean pod borer (*Maruca testulalis*), the yam weevil (*Palaeopis costicollis*), the citrus blackfly (*Aleurocanthus woglumi*), and the turnip gall weevil (*Ceutorhynchus pleurostigma*), many of the insects in the detailed table have been intercepted for the first time, or for the first time on the host indicated, or for the first time from the country indicated, or are of special interest for some other reason. References to "first record" in these notes refer to our interception records only. The insects fall in different groups, cover a wide host range, and come from many parts of the world, e. g., *Aonidiella comperei* (Coccidae) (first record on grape and first record from Haiti), *Xanthophthalma concinnum* (Coccidae) (first record for files), *Bruchidius incarnatus* (Bruchidae) (first record in broadbean and reported as seriously injurious to broadbeans in Egypt), *Eurytoma pistaciae* (Eurytomidae) (first record for files), *Euxesta annonae* (Otitidae) (first record in corn, also first record from Cuba and Bahamas), *Limothrips denticornis* (Thripidae) (first record on *Helleborus niger*), and *Mordellistena chapini* (Mordellidae) (first record from Peru).

NOTES ON PLANT DISEASES INTERCEPTED

The data regarding completely determined pathogens included in the main table are readily found. However, attention is called to the fact that citrus canker (*Bacterium citri*) was intercepted on several hosts and from several countries, the sweet orange scab (*Elsinoe australis*) continued to be found occasionally in citrus from South America, and that citrus black spot (*Phoma citricarpa*), long known in the orient, is now established in South Africa and was found on citrus fruit from there. Lima bean scab (*Elsinoe phaseoli*), which is so common on shipments from Cuba that it is listed among the common diseases, continued to be found more or less frequently. *Helminthosporium allii*, which occurs as dark mycelium and spores, especially on garlic from Mexico, is another pathogen which has been found so often that it is listed as a common disease. A fungus new to our interception lists is *Dendrodochium lycopersici*, heretofore known from Belgium, found on tomatoes from Mexico. One or more of the oriental strains of the lespedeza rust (*Uromyces lespedezae-procumbentis*) was intercepted again with seed from Japan. The so-called Dutch elm disease (*Ceratostomella ulmi*) was found again on several lots of elm crating from England. A new disease tentatively determined as caused by *Sclerotinia kerneri*, a fir pathogen described from Austria and not known to occur in North America, was found on Christmas trees from Newfoundland and on greens from Nova Scotia. An examination of the list of fungi found on orchids shows that they continue to furnish a variety of new records.

COMMON PESTS INTERCEPTED

Many pests and diseases known to occur in this country or found frequently on certain material offered for entry are recorded on tally sheets instead of on the more complete record forms. While many of the findings of these common forms never get recorded at all, enough are recorded to aid in giving a picture of the condition of material inspected, from the standpoint of pests present. It is recognized that foreign strains of some of these common pests and diseases might be destructive if established here, but inspectors would have no way of determining that point. In the following summary of these pest and disease records the numbers following the names of the organisms indicate the number of countries from which interceptions were made and the total number of records made during the year.

INSECTS

Common insects intercepted 10 or more times, and recorded, included *Acanthoscelides obtectus* (5-114), *Ahasverus advena* (18-42), *Anthonomus eugeniae* (3-5,353), *Aonidiella aurantii* (8-19), *Aphis gossypii* (14-218), *Araecerus fasciculatus* (14-43), *Aspidiotus camelliae* (10-15), *A. cyanophylli* (8-18), *A. hederæ* (15-89), *A. lataniae* (19-177), *A. perniciosus* (5-31), *Brevicoryne brassicae* (7-151), *Carpocapsa pomonella* (8-211), *Cathartus quadricollis* (3-53), *Cerataphis lataniae* (9-95), *Chrysomphalus aonidum* (14-69), *C. dictyospermi* (12-59), *Coccus hesperidum* (17-80), *Diaspis boisduvalii* (21-437), *D. bromeliae* (4-466), *Ephestia cautella* (4-20), *Etiella zinckenella* (7-143), *Frankliniella williamsi* (1-166), *Gnорimoschema operculella* (13-168), *Heliolithis armigera* (9-6,997), *H. virescens* (6-179), *Hippodamia convergens* (1-90), *Howardia biclavis* (8-37), *Laphygma frugiperda* (4-665), *Lasioderma serricorne* (8-30), *Lepidosaphes beekii* (29-162), *L. gloverii* (7-21), *Macrosiphum solanifolii* (5-230), *Myzus persicae* (9-396), *Necrobia rufipes* (7-31), *Oryzaephilus surinamensis* (7-89), *Parlatoria pergandii* (10-35), *P. proteus* (9-39), *Pinnaspis aspidistrae* (4-23), *P. minor* (5-127), *Plodia interpunctella* (8-90), *Pseudococcus adonidum* (9-17), *P. brevipes* (7-465), *P. citri* (12-54), *P. maritimus* (8-14), *Rhizoglyphus hyacinthi* (9-61), *Rhizopertha dominica* (3-69), *Rhopalosiphum pseudobrassicæ* (3-95), *Saissetia hemisphaerica* (19-160), *S. nigra* (7-32), *S. oleæ* (11-30), *Selenaspis articulatus* (12-23), *Sitophilus oryza* (13-68), *Sitotroga cerealella* (6-24), *Tenebroides mauritanicus* (7-26), *Thrips tabaci* (13-291), *Tribolium castaneum* (12-39), *T. confusum* (2-28), and *Typhaea stercorea* (6-70).

In addition to the listed species of common insects, there were 5,100 interceptions belonging to 678 different species which were not deemed to be of sufficient importance from the plant-quarantine viewpoint to warrant listing them by species. Total of insects included in this paragraph, 24,044.

DISEASES

Common plant diseases intercepted 10 or more times, and recorded, included *Actinomyces scabies* (32-203), *Albugo candida* (2-72), *Alternaria solani* (2-190), *A. tomato* (2-1,991), *Aplanobacter michiganense* (1-31), *Aspergillus niger* (27-383), *Bacillus carotovorus* (9-29), *Bacterium marginatum* (5-13), *B. phaseoli* (2-58), *B. punctilans* (1-199), *B. vesicatorium* (5-2,468), *Botrytis cinerea* (16-86), *B. tulipae* (1-16), *Capnodium citri* (8-13), *Cephalothecium roseum* (12-63), *Ceratostomella adiposum* (2-20), *C. fimbriata* (2-41), *C. paradoxa* (18-269), *Cercospora beticola* (3-774), *C. rosicola* (1-63), *Cladosporium cucumerinum* (1-13), *C. fulvum* (2-175), *Colletotrichum circinans* (3-256), *C. gloeosporioides* (13-668), *C. lindemuthianum* (10-148), *C. orchidcarum* (5-30), *C. phomoides* (1-25), *Cylindrosporium chrysanthemi* (1-12), *Diaporthe phaseolorum* (1-11), *Diplocarpon rosae* (4-37), *Diplodia natalensis* (21-49), *Elsinoe fawcettii* (13-45), *E. phaseoli* (2-387), *Erysiphe graminis* (3-45), *E. polygoni* (2-62), *Fusarium moniliforme* (2-10), *Gloeosporium limetticolum* (9-149), *G. musarum* (4-32), *Glomerella cingulata* (8-58), *Helminthosporium allii* (3-149), *H. sativum* (3-29), *Heterodera marioni* (15-17), *Mycosphaerella pinodes* (4-23), *Oospora lactis parasitica* (5-67), *Penicillium digitatum* (12-30), *P. italicum* (9-17), *Pestalozzia guepini* (4-15), *Phoma destructiva* (4-50), *Phomopsis citri* (21-138), *P. vexans* (5-427), *Phytophthora infestans* (6-80), *P. terrestris* (2-319), *Puccinia allii* (8-18), *P. chrysanthemi* (1-10), *P. graminis* (20-53), *P. porri* (4-19), *P. rubigo-vera* (13-53), *P. tageticola* (1-23), *Pucciniopsis caricæ* (3-55), *Pythium debaryanum* (1-24), *Rhizoctonia bataticola* (2-16), *R. solani* (18-706), *Rhizopus nigricans* (23-590), *Sclerotinia sclerotiorum* (8-17), *Sclerotium oryzae* (12-55), *S. rolfii* (3-17), *Septoria apii* (7-10), *Sphaceloma perscae* (3-418), *Spondylocladium atrovirens* (15-52), *Uromyces phaseoli typica* (2-51), *Ustilago zea* (2-16), *Venturia inaequalis* (16-41), *V. pyrina* (3-19), and *Verticillium cinnabarina* (12-41).

In addition to the listed species of common diseases, there were 212 interceptions belonging to 83 different species which were intercepted less than 10 times each. Total of diseases included in this paragraph, 13,071.

INCOMPLETELY DETERMINED PESTS

Many insects and pathogens are in such a condition that no accurate determination is possible. Others are new to science or belong in species not represented in the collections of authoritative material and are not described in sufficient detail to make positive determinations possible.

INSECTS

Among the incompletely determined insects were a number of fruitflies. *Anastrepha* sp., probably *fraterculus* (Wied.), was intercepted at Baltimore, Mobile, and New York in grapefruit, guava, mango, and orange in baggage, quarters, and stores from Argentina, Brazil, Trinidad, and Venezuela. *Anastrepha* sp., probably *ludens* (Lw.) was taken at Laredo in orange and corn in baggage from Mexico. *Anastrepha* sp., probably *mombinpraeoptans* Sein, was intercepted at New Orleans and New York in mango in baggage from Honduras and Puerto Rico. *Anastrepha* sp., probably *serpentina* (Wied.), was taken at Boston in grapefruit in stores from Argentina. *Anastrepha* sp. was intercepted at Boston, Brownsville, El Paso, Laredo, and New Orleans in grapefruit, guava, mango, sapote, and *Spondias mombin* in baggage and stores from Argentina, Canal Zone, Mexico, and Trinidad. *Ceratitis* sp. was taken at Boston and Philadelphia in grapefruit and orange in stores from the Union of South Africa. *Epochra* sp. was intercepted at El Paso in currant in baggage from Mexico. *Xanthaciura* sp. was intercepted at New York in *Ageratum* sp. in baggage from Jamaica. Four interceptions which could not be identified beyond family (Euribiidae) were made at Calexico, Calif., El Paso, Inspection House in Washington, D. C., and New Orleans in *Agaricus campestris*, *Elaeagnus* sp., and *Ribes* sp., and under box of fruit on deck of ship, from Cuba, Iran, and Mexico.

The following thrips could be identified to genus only: *Diceratothrips* sp. intercepted at Brownsville and Laredo on pineapple in cargo from Mexico; *Hoplandrothrips* sp. intercepted at Brownsville, Inspection House in Washington, D. C., Honolulu, and San Francisco on *Cattleya* spp., kapok, *Oncidium varicosum*, unnamed orchid, *Phalaenopsis leucorrhoda*, pineapple, *Prunus* sp., and *Vanda luzonica* in cargo and mail from Brazil, Canal Zone, Colombia, Japan, Mexico, and Philippines; *Isochaetothrips* sp. intercepted at Brownsville on Cape-jasmine in baggage and cargo from Mexico; *Karnyothrips* sp. intercepted at San Francisco on *Oncidium ornithorhynchum* in cargo from Guatemala; *Neurothrips* sp. intercepted at Brownsville on pineapple in cargo from Mexico.

The following whiteflies could be identified to genus only: *Aleurocanthus* sp. intercepted at New Orleans on dry leaves in mail from British Honduras; *Aleurodicus* sp. intercepted at Brownsville on orchid in baggage from Mexico; *Aleuroparadoxus* sp. intercepted at Inspection House in Washington, D. C., on *Eugenia cauliflora* in cargo from Brazil; *Aleurothrixus* sp. intercepted at Brownsville on Cape-jasmine in baggage from Guatemala; *Aleurotrachelus* sp. intercepted at Hoboken, New York, and San Francisco on bromeliad, *Laurus nobilis*, orchid, and *Tillandsia* sp. in cargo, mail, and stores from Brazil, Costa Rica, and Guatemala; *Tetralicia* sp. intercepted at Nogales on oak leaf in baggage from Mexico.

In addition to the foregoing incompletely identified insects, the following miscellaneous insects were intercepted: *Ambia* sp., probably *fulvitinctatis* Hamps. (Pyraustidae), was intercepted at Brownsville in an airplane from Guatemala. *Apsilcephala* sp. (Therevidae) (new to the Museum collection) was intercepted at El Paso in mustard in cargo from Mexico. *Aspidobothrys* sp. (Miridae) was intercepted at Hoboken and San Francisco on *Cattleya mossiae*, *Cattleya* sp., and unnamed orchid in cargo from Colombia and Venezuela. *Autographa* sp., probably *brassicae* Riley, was taken at Brownsville in string bean in baggage from Mexico. *Azimoqaster* sp. (Eurytomidae) was intercepted at Hoboken on orchid in cargo from Colombia and Venezuela. *Bruchus* sp., probably *flexicaulis* (Schaeffer) (Bruchidae), was intercepted at Brownsville in ebony bean in baggage from Mexico. *Bruchus* sp., probably *guttalis* Rey. (Bruchidae), was taken at New Orleans and New York in vetch seed in cargo from Brazil and Portugal. *Bythoscopus* sp., probably *rufoscutellatus* (Baker) (Cicadellidae), was intercepted at Laredo on feverfew in baggage from Mexico. *Calendra* sp., perhaps *phoeniciensis* Chttn. (Curculionidae), was intercepted at El Paso in radish in cargo from Mexico.

Ceutorhynchus sp., probably *quadridens* Panz. (Curculionidae), was taken at New York in cabbage in stores from England. *Chilo* sp. (Crambidae) was intercepted at Calexico, Calif., on lemon grass and sugarcane in baggage from Mexico. *Conotrachelus* sp., near *similis* Boh. (Curculionidae), was intercepted at Portland, Oreg., in sapote in quarters from Cuba. The termite *Coptotermes* sp. was taken at Portland, Oreg., in taro in cargo from China. *Curculio* sp., probably *elephas* (Gyll.) (Curculionidae), was intercepted at Philadelphia in chestnut in stores from Spain. *Cylas* sp., probably *femoralis* Faust (Curculionidae), was taken in sweetpotato at Baltimore in stores from Gold Coast, Africa. *Cylindrocopturus* sp., near *adpersus* (Lec.) (Curculionidae), was intercepted at Brownsville in *Agave* sp. in baggage from Mexico. *Gonatas* sp. (Lygaeidae) was taken at Hoboken with *Cattleya* sp. in cargo from Venezuela. *Heliodines* sp., probably *bella* (Chamb.) (Heliodinidae), was intercepted at El Paso and Nogales in pepper, purslane, and Swiss chard in baggage from Mexico. *Homoeosoma* sp., probably *electellum* (Hlst.) (Phycitidae), was intercepted at Brownsville on chrysanthemum in cargo from Mexico. *Marmara* sp. (Gracilariidae) was intercepted at Brownsville, Hidalgo, New York, and Nogales in avocado, grapefruit, orange, and pepper in baggage, cargo, and stores from Mexico and Trinidad. *Merodon* sp. (Syrphidae) was taken at Hoboken and San Francisco in *Gladiolus* sp. and narcissus bulb in baggage and mail from Canada and Turkey. *Neodryocetes* sp. (Scolytidae) was intercepted at New York in *Erythrina* sp. seed in cargo from Trinidad. *Neolecanium* sp. (Coccidae) was intercepted at Laredo on *Cereus* sp. in cargo from Mexico. *Neopithophorus* sp. (Scolytidae) was taken at New York in wood in cargo from Mexico. *Scolytus* sp. (Scolytidae) was intercepted at New York in elm in cargo from England. *Tinea* sp. (Tineidae) was intercepted at New York on mushroom in cargo from China.

In addition to the incompletely determined insects listed above, there were 6,275 interceptions which could be identified to genus only. These were distributed among 714 genera. A total of 198 could be determined to family, subfamily, or tribe only. Total of insects included in this paragraph, 6,773.

DISEASES

Of the partially determined plant disease interceptions which were recognized to be unusual more than half (mostly on orchids) were found on material offered for entry for propagation. Those on orchids included *Collectotrichum* sp., with spores too narrow for *C. orchidearum* All., on *Odontoglossum* hybrids from England; *Coniothyrium* sp., with spores larger than in any species reported on orchids, on *Epidendrum aurantiacum* from Guatemala; *Gloeosporium* sp., with spores longer than those on *G. cyripedii* Verpl. (the only species reported for the host genus), on *Cyripedium callosum* from Thailand; *Gloeosporium* sp., no species recorded on the host genus, on *Trichopilia tortilis* from Guatemala; *Microthyrium* sp., no previous reports found for orchids, on *Epidendrum* sp. from Mexico; *Mycogone* sp., no species reported on orchids, on *Cattleya* sp. from Brazil; *Phyllosticta* sp., unlike any species described on orchids, on *Cattleya* sp. from Brazil, *Cyripedium* sp. from England, *Dendrobium phalaenopsis* from the Philippines, and *Schomburgkia humboldtii* from Venezuela; *Scolecopeltidium* sp., or a related form in this imperfectly known group of fly-speck fungi, on orchids from Brazil; and *Uredo* sp. (no rust has been reported for the host genus) on *Miltonia vexilans* from Mexico.

Other partly determined pathogens on material for propagation included *Glomerella* sp. (no species reported on host genus) on *Stenospermation sessile* (a climber of the arum family) from Guatemala; *Phyllosticta* sp., unlike any described species, found on ash (*Frazinus ornus*) seed from Italy; *Pratylenchus* n. sp., a new nematode, found in a *Lilium longiflorum* bulb from Cuba; and *Pestalozzia* sp. (no species found reported on the genus) on *Marica coerulea grandiflora* (an iris relative) from Costa Rica.

While material entered for consumption does not represent such acute danger as propagation material, there is often a possibility that such material may be so handled as to permit escape and establishment of accompanying pests and diseases. Among the partially determined fungi found on material in the consumption entry class were *Cercospora* sp., possibly the same one found on this host in Florida, on avocados from Mexico; *Cercospora* sp. on husk tomato from Mexico; *Gloeosporium* sp., no species described for host genus, on cattails used to pack fish from Mexico; *Sphaeropsis* sp., closely resembling the apple black rot pathogen (*S. malorum*), on a pine cone from Mexico; *Sphaeropsis* sp., so determined although it did not have the characters of the genus, on *Citrus medica* from Palestine; *Ophiobolus* sp., not *O. graminis*, on grass from Liberia; *Rosellinia* sp. on wild grass

from Mexico; *Phoma* sp., a doubtful determination, on *Passiflora edulis* in air baggage from the Azores; *Puccinia* sp., unlike rusts reported for the host, on *Phragmites communis* from Mexico; *Phyllosticta* sp., spores apparently too small for *P. lagerstroemiae*, on crapemyrtle from Mexico; *Phyllosticta* sp., no species reported on host, on *Lawsonia inermis* (henna) from Anglo-Egyptian Sudan; and *Ceratophorum* sp., unlike *C. setosum* which causes a leaf disease of legumes, on *Erythroxylon coca* (cocaine tree) in several shipments from Peru.

A total of 6,564 partially determined pathogens from inspected materials were recorded during the year. These pathogens represented 113 genera.

ENTOMOGENOUS FUNGI

Collections of entomogenous fungi reported during the year included *Acrostoglagmus albus* on aphids on a radish in stores from Puerto Rico; *Aschersonia* sp. on unnamed host on a citrus leaf from Puerto Rico; *Cephalosporium lecanii* Zimm. on *Coccus acuminatus* on Cape-jasmine from Canal Zone and Cuba and on gardenia from Costa Rica and Panama, on *Coccus viridis* on Cape-jasmine from Cuba (13) and Venezuela and on gardenia from Cuba (2), and on *Protopulvinaria pyriformis* on gardenia from Costa Rica; *Myriangium duriae* Mont. & Berk. on *Lepidosaphes beckii* on citrus from Bahamas and Dominican Republic; and *Nectria diploa* on *Lepidosaphes beckii* on grapefruit from Bahamas, Cuba (2), Honduras (2) and Puerto Rico, on orange from Bahamas and Cuba (2), on sweet lemon from Cuba, on lime from Puerto Rico, and on citrus leaf from Cuba; on *L. gloverii* on citrus leaf from Cuba; on *Selenaspidus articulatus* on grapefruit from Honduras and Puerto Rico.

Geographic summary of interceptions listed in main table and interception totals

Country	Insects	Diseases	Country	Insects	Diseases
Africa:	<i>Number</i>	<i>Number</i>	Europe—Continued.	<i>Number</i>	<i>Number</i>
Africa.....	0	1	Turkey.....	0	1
Angola.....	1	0	Yugoslavia.....	0	1
British East Africa.....	1	0	North America:		
Canary Islands.....	1	0	Bermuda.....	3	4
Egypt.....	1	0	Canada.....	16	5
Ethiopia.....	1	0	British Columbia.....	1	1
Gold Coast.....	1	0	Nova Scotia.....	0	1
Kenya.....	0	2	Central America:		
Medeira Islands.....	1	1	British Honduras.....	1	0
Union of South Africa.....	6	7	Canal Zone.....	27	4
Asia:			Costa Rica.....	16	38
China.....	47	8	Guatemala.....	67	14
Chosen.....	2	0	Honduras.....	21	2
French Indo-China.....	2	0	Panama.....	7	1
India.....	9	2	Greenland.....	0	1
Iran.....	14	0	Mexico.....	8,622	498
Japan.....	137	42	Newfoundland.....	0	3
Malaya (British).....	1	0	West Indies.....	1	0
Palestine.....	1	0	American Virgin Is-		
Straits Settlements.....	2	0	lands.....	6	0
Thailand.....	10	4	Bahamas.....	35	2
Australasia:			Barbados.....	3	0
Australia.....	9	6	Cuba.....	399	74
Dutch East Indies.....	5	1	Dominica.....	1	0
Fiji Islands.....	1	0	Dominican Republic.....	7	0
Hawaii.....	60	1	Guadeloupe.....	1	1
Java.....	12	2	Haiti.....	14	25
New Zealand.....	0	1	Jamaica.....	19	18
Philippines.....	41	10	Martinique.....	0	1
Queensland.....	1	0	Puerto Rico.....	60	5
Sumatra.....	1	0	St. Lucia.....	1	0
Europe:			St. Vincent.....	2	0
Azores.....	7	3	Tahiti.....	2	0
Belgium.....	1	0	Trinidad.....	21	2
England.....	77	38	Virgin Islands.....	4	1
Europe.....	2	0	South America:		
France.....	6	3	Argentina.....	18	8
Greece.....	4	0	Brazil.....	72	12
Hungary.....	1	1	Chile.....	5	4
Ireland.....	1	2	Colombia.....	60	3
Italy.....	7	0	Dutch Guiana.....	0	1
Netherlands.....	1	0	Ecuador.....	6	0
Portugal.....	38	5	Peru.....	15	3
Rumania.....	4	0	Uruguay.....	1	1
Scotland.....	4	0	Venezuela.....	63	5
Spain.....	2	4	Unknown.....	0	1
Switzerland.....	1	0			

Geographic summary of interceptions listed in main table and interception totals—
Continued

Country	Insects	Diseases	Country	Insects	Diseases
Total:	Number	Number	Total—Continued.	Number	Number
Africa.....	13	11	Total (common pests, p. 3).....	24, 044	13, 071
Asia.....	225	56	Total (incompletely determined pests, p. 4).....	6, 773	6, 564
Australasia.....	130	21	Entomogenous fungi.....		30
Europe.....	156	58	Total insects.....	40, 938	
North America.....	9, 357	701	Total diseases.....		20, 550
South America.....	240	37	Grand total.....		61, 488
Unknown origin.....	0	1			
Total.....	10, 121	885			

NOTE.—In addition to the countries named above, interceptions including those of common pests (p. 3) and of incompletely determined pests (p. 4) were made from Afghanistan, Anglo-Egyptain Sudan, Arabia, Batavia, Bolivia, British Guiana, British West Indies, Cape Verde Islands, Cook Islands, East Indies, Guernsey, Kahatola Islet (near Philippines), Liberia, Manchuria, Midway, Mozambique, Nevis, Nigeria, St. Kitts, Salvador, Sierra Leone, Surinam, Tonga Island, Transvaal, and Wales.

List of pests collected and reported from July 1, 1940, to June 30, 1941, inclusive

[All findings marked with an asterisk indicate State inspection]

Insect and host	Country of origin	Number of interceptions in—			Collected in—
		Con- sump- tion	Non- entry	Prop- aga- tion	
<i>Acanthoderes circumflexa</i> Jac. Duv. (Cerambycidae):					
<i>Tabebuia donnell-smithii</i> (privamera)	Guatemala.....	4			N. Y.
<i>Acanthoscelides armitagei</i> (Pic.) (Bruchidae):					
<i>Cajanus indicus</i> (pigeonpea)	Venezuela.....			1	D. C.
<i>Acanthoscelides dominicanus</i> (Jekel) (Bruchidae):					
<i>Caesalpinia coriaria</i> (divi-divi)	Colombia.....	1			Mass.
<i>Acanthoscelides flexicaulis</i> (Schaeffer) (Bruchidae):					
<i>Pithecolobium flexicaule</i> (ebony bean).	Mexico.....	1			Tex.
<i>Acanthoscelides sallaei</i> (Sharp) (Bruchidae):					
<i>Acacia farnesiana</i>	do.....	1			Tex.
<i>Acroleucus tullus</i> (Stal) (Lygaeidae):	do.....	1			Tex.
<i>Gardenia florida</i> (Cape-jasmine):	do.....	1			Tex.
<i>Acroleucus vicinialis</i> Dist. (Lygaeidae):	do.....	1			Tex.
<i>Ananas sativus</i> (pineapple)	do.....	1			Tex.
Orchid.....	do.....	1			Tex.
<i>Aeolus dorsalis</i> (Say) (Elateridae):					
<i>Allium cepa</i> (onion)	do.....	1			Tex.
<i>Chrysanthemum</i> sp.	do.....	1			Tex.
<i>Aganactes indecora</i> Dyar (Galleriidae):					
<i>Cassia fistula</i> (golden-shower)	Dominica, Panama	2			Mass., N. Y.
<i>Agromyza salicis</i> Malloch (Agromyzidae):					
<i>Salix</i> sp. (willow)	Canada.....			1	N. J.
<i>Aleurocanthus woglumi</i> Ashby (Aleyrodidae):					
<i>Citrus aurantifolia</i> (lime)	Cuba.....	1			Fla.*
<i>Citrus aurantium</i> (sour orange)	Bahamas.....	1			Md.
<i>Aleuroplatus myricae</i> Q. & B. (?) (Aleyrodidae):					
<i>Pyrola</i> sp.	Canada.....			1	Mass.
<i>Aleurothrixus howardi</i> (Quaint.) (Aleyrodidae):					
<i>Citrus limonia</i> (lemon)	Cuba.....	1			Fla.*
<i>Aleyrododes spiracoides</i> (Quaint.) (Aleyrodidae):					
<i>Linum</i> sp. (flax)	Canada.....			1	Wash.
<i>Allocoris incognita</i> McA. & M. (Cydnidae):					
<i>Antirrhinum majus</i> (snapdragon)	Mexico.....	1			Ariz.
<i>Rosa</i> sp.	do.....	1			Ariz.
<i>Alpheias conspirata</i> Hem. (Galleriidae):					
<i>Ananas sativus</i> (pineapple)	do.....	24			Tex.

List of pests collected and reported from July 1, 1940, to June 30, 1941, inclusive—Con.

Insect and host	Country of origin	Number of interceptions in—			Collected in—
		Con- sump- tion	Non- entry	Prop- aga- tion	
<i>Amorbia emigratella</i> Busck (Tortricidae):					
<i>Chrysanthemum</i> sp.	Mexico	1			Tex.
<i>Lycopersicum esculentum</i> (tomato)	do.	1			Ariz.
<i>Amphicerus cornutus</i> (Pallas) (Bostrichidae):					
Cactus	do.			1	Tex.
<i>Daucus carota</i> (carrot)	do.	1			Tex.
<i>Ficus carica</i> (fig)	do.	1			Tex.
Reed packing crate	do.	2			Ariz.
<i>Sambucus</i> sp.	do.	1			N. Y.
<i>Amphophora rhododendri</i> (Wlsm.) (Aphidiidae):					
<i>Rhododendron</i> sp.	Canada			2	Wash.
<i>Anacentrinus deplanatus</i> Csy. (Curculionidae):					
<i>Chrysanthemum</i> sp.	Mexico	2			Tex.
<i>Zinnia</i> sp.	do.	1			Tex.
<i>Anaphothrips orchidaceus</i> Bagn. (Thripidae):					
<i>Cymbidium</i> sp. (orchid)	England			2	Calif.*
<i>Dendrobium</i> sp. (orchid)	do.			1	N. J.
<i>Lycaste skinneri alba</i> (orchid)	Guatemala			1	N. J.
<i>Odontoglossum</i> sp. (orchid)	England			1	N. J.
Orchid	Venezuela	1			Tex.
<i>Anaphothrips orchidii</i> (Mit.) (Thripidae):					
<i>Amaryllis</i> sp.	Madeira Islands			1	N. Y.
<i>Anastrepha fraterculus</i> (Wied.) (Euribiidae):					
<i>Citrus grandis</i> (grapefruit)	Argentina, Trinidad		2		Mass.
<i>Anastrepha ludens</i> (Lw.) (Euribiidae):					
<i>Amygdalus persica</i> (peach)	Mexico	2			Tex.
<i>Casimiroa edulis</i> (white sapote)	do.	1			Tex.
<i>Citrus grandis</i> (grapefruit)	do.	8	2		N. Y., Tex.
<i>Citrus limetta</i> (sweet lime)	do.	6			Tex.
<i>Citrus sinensis</i> (orange)	do.	114	11		Tex.
<i>Cydonia oblonga</i> (quince)	do.	1			Tex.
<i>Malus sylvestris</i> (apple)	do.	2			Tex.
<i>Mangifera indica</i> (mango)	do.	15	1		Tex.
<i>Persea americana</i> (avocado)	do.	10			Tex.
<i>Anastrepha mombinpraoptans</i> Sein (Euribiidae):					
<i>Mangifera indica</i> (mango)	American Virgin Islands, Cuba, Dominican Republic, Haiti, Jamaica, Panama, Puerto Rico.	18	12		Fla., Md., N. Y., Pa., P. R., Tex., Va.
<i>Psidium guajara</i> (guava)	Puerto Rico	2			N. Y.
<i>Spondias cytherea</i> (golden-apple)	do.	3			N. Y.
<i>Anastrepha serpentina</i> (Wied.) (Euribiidae):					
<i>Citrus grandis</i> (grapefruit)	Trinidad		7		Ala., La.
<i>Mammea americana</i> (mamey)	Mexico	2			Tex.
<i>Mangifera indica</i> (mango)	Colombia		3		Pa.
Sapote	Mexico	1			Tex.
<i>Anastrepha suspensa</i> (Lw.) (Euribiidae):					
<i>Citrus grandis</i> (grapefruit)	Haiti		2		N. Y.
<i>Psidium guajara</i> (guava)	Cuba, Puerto Rico	7			Fla., N. Y.
In bag of guavas and genips	Puerto Rico	1			N. Y.
<i>Anoplium truncatum</i> (Hald.) (Cerambycidae):					
<i>Prosopis</i> sp. (mesquite)	Mexico	1			Tex.
<i>Anthonomus scutellaris</i> Lec. (Curculionidae):					
<i>Prunus domestica</i> (plum)	do.	1			Tex.
<i>Anthonomus varipes</i> Duval (Curculionidae):					
<i>Solanum melongena</i> (eggplant)	Cuba	3			N. Y.
<i>Antonina crawii</i> Ckll. (Coccidae):					
<i>Arundinaria</i> sp.	Japan			1	D. C.
<i>Bambusa tulda</i>	Puerto Rico			1	D. C.
<i>Indocalamus herklotsii</i>	China			1	D. C.
<i>Indocalamus nanunicus</i>	do.			1	D. C.
<i>Sinobambusa laeta</i>	do.			1	D. C.
<i>Sinobambusa tootsii</i>	do.			1	D. C.
<i>Antonina indica</i> Green (Coccidae):					
<i>Digitaria</i> sp.	Philippines			1	Hawaii.*
<i>Antonina tobai</i> Kuw. (Coccidae):					
<i>Arundinaria hindsi</i> (ramrod bamboo)	China			1	D. C.

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		Con-sump-tion	Non-en-try	Prop-aga-tion	
<i>Anuraphis apiifolia</i> Theo. (Aphiidae): <i>Apium graveolens</i> (celery)	Portugal		1		N. Y.
<i>Anuraphis tulipae</i> (Forsc.) (Aphiidae): <i>Tiaridi</i> sp.	Metherlands			1	D. C.
<i>Tulipa</i> sp.	Canada, England			5	N. Y., Wash.
<i>Anypsis pyla uniriella</i> Dyar (Phycitidae): <i>Samanea saman</i> (rain-tree)	Ecuador			1	D. C.
<i>Aonidia lauri</i> (Bouche) (Coccidae): <i>Laurus nobilis</i> (Grecian laurel)	Greece, Italy	3	1		N. Y.
<i>Aonidiella comperci</i> McK. (Coccidae): <i>Vitis</i> sp. (grape)	Haiti			1	N. J.
<i>Aonidiella eugeniae</i> (Hempel) (Coccidae): <i>Eugenia cauliflora</i> (jaboticaba)	Brazil			1	D. C.
<i>Aonidiella inornata</i> McK. (Coccidae): <i>Cordylone terminalis</i> (dracena)	Hawaii	1			Calif.*
<i>Apatides fortis</i> (Lec.) (Bostrichidae): <i>Prosopis</i> sp. (mesquite)	Mexico	1			Tex.
<i>Aphalaroida inermis</i> Crawford (Psyllidae): <i>Spinacia oleracea</i> (spinach)	do	1			Ariz.
<i>Aphis bambusae</i> Full. (Aphiidae): <i>Phyllostachys</i> sp.	China			1	D. C.
<i>Apion longirostre</i> Oliv. (Curculionidae): <i>Malva</i> sp.	Iran			3	D. C.
<i>Apion pomonae</i> (F.) (Curculionidae): <i>Vicia</i> sp. (vetch)	Argentina	1			Ala.
<i>Artipus floridanus</i> Horn (Curculionidae): <i>Medicago sativa</i> (alfalfa)	Bahamas	1			Fla.*
<i>Aspidiotus coryphae</i> Kll. & Rob. (Cocci- dae): <i>Dendrobium schuetzei</i> (orchid)	Philippines			1	Hawaii.*
<i>Aspidiotus degeneratus</i> (Leon) (Coccidae): <i>Camellia japonica</i> (camellia)	Japan			3	D. C., Wash.
<i>Aspidiotus destructor</i> Sign. (Coccidae): <i>Amygdalus communis</i> (almond)	Bahamas	1			Fla.*
<i>Annona reticulata</i> (custard-apple)	Puerto Rico	1			N. Y.
<i>Annona</i> sp.	do	1			N. Y.
<i>Aucuba</i> sp.	Japan		1		Calif.*
<i>Carica papaya</i> (papaya)	Mexico	1			La.
<i>Cocos nucifera</i> (coconut)	Cuba, Fiji Islands	2			Fla., Hawaii.*
<i>Cymbidium</i> sp. (orchid)	England			2	N. J.
<i>Musa</i> sp. (banana)	Cuba	2			Fla.*
<i>Palm</i>	do	1			Fla.*
<i>Persea americana</i> (avocado)	do	2			Fla.*
<i>Roystonea regia</i> (royal palm)	do	1	1	1	Fla.*
<i>Terminalia catappa</i> (tropical almond)	do	2			Fla.*
<i>Aspidiotus diffinis</i> Newst. (Coccidae): <i>Spondias mombin</i> (jobo)	Mexico	1			Tex.
<i>Aspidiotus howardi</i> Kll. (Coccidae): <i>Persea americana</i> (avocado)	do	1			Tex.
<i>Aspidiotus palmarum</i> Kll. (Coccidae): <i>Dendrobium</i> sp. (orchid)	Philippines			1	Calif.*
<i>Musa</i> sp. (banana)	Honduras	1			Fla.*
<i>Aspidiotus spinosus</i> Comst. (Coccidae): <i>Attalea cohune</i> (cohune palm)	do			1	D. C.
<i>Laurus nobilis</i> (Grecian laurel)	Brazil		1		N. Y.
<i>Mammea americana</i> (mamey)	Cuba	3	1		Fla.*
<i>Persea americana</i> (avocado)	do	1			Fla.*
<i>Roystonea regia</i> (royal palm)	Honduras			1	D. C.
<i>Aspidiotus tsugae</i> Marl. (Coccidae): <i>Tsuga</i> sp. (hemlock)	Japan		1		Wash.
<i>Asterolecanium aureum</i> (Bdv.) (Cocci- dae): <i>Cattleya dowiana</i> (orchid)	Canal Zone, Costa Rica			2	N. J.
<i>Cattleya</i> sp.	Brazil, Colombia, Costa Rica, Venezuela.			12	Calif., D. C., N. J.
<i>Epidendrum ciliare</i> (orchid)	Costa Rica		1		N. J.
<i>Epidendrum</i> sp.	Haiti		1		D. C.
<i>Oncidium kramerianum</i> (orchid)	Costa Rica		1		Calif.*
<i>Oncidium tigrinum</i>	Mexico		1		Calif.*
<i>Oncidium</i> sp.	Trinidad		1		Calif.*
<i>Oncidium</i> sp.	Brazil, Cuba, Venezuela		4		N. J.
<i>Trichopilia</i> sp. (orchid)	Costa Rica		1		N. J.
<i>Asterolecanium bambusae</i> (Bdv.) (Cocci- dae): <i>Bambusa tulda</i>	Puerto Rico			1	D. C.
<i>Bambusa</i> sp.	Cuba	2			N. Y.

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<i>Asterolecanium bambusicola</i> Kuw. (Coccidae): <i>Bambusa</i> sp.-----	China-----			1	D. C.
<i>Asterol canium miliaris</i> (Bdv.) (Coccidae): <i>Bambusa</i> sp.-----	Cuba-----	1			N. Y.
<i>Asterolecanium miliaris longum</i> (Green) (Coccidae): Bamboo-----	Guatemala-----	1			Mass.
<i>Asterolecanium pustulans</i> (Ckll.) (Coccidae): <i>Chrysomphyllum cainito</i> (star-apple)-----	Bahamas-----		1		Fla.*
<i>Eugenia alba</i> -----	Hawaii-----			1	Calif.*
<i>Hibiscus</i> sp.-----	do-----			3	Calif.*
<i>Nerium oleander</i> (oleander)-----	Bahamas-----		1		Fla.*
<i>Theobroma cacao</i> (cacao)-----	Cuba-----	1			Fla.*
<i>Ataenius abditus</i> Horn (Scarabaeidae): <i>Zea mays</i> (corn)-----	Mexico-----	1			Ariz.
<i>Ataenius cribrithorax</i> Bts. (Scarabaeidae): Soil-----	Cuba-----	1			N. Y.
<i>Ataxia hubbardi</i> Fisher (Cerambycidae): Vegetables-----	Mexico-----	1			Tex.
<i>Atheas fuscipes</i> Champ. (Tingitidae): <i>Lactuca sativa</i> (lettuce)-----	do-----	1			Tex.
<i>Aufeius impressicollis</i> Stal (Coreidae): <i>Lycopersicum esculentum</i> (tomato)-----	do-----	1			Ariz.
<i>Aulacaspis mangiferae</i> Newst. (Coccidae): <i>Mangifera indica</i> (mango)-----	Trinidad-----	1	1		Mass., N. Y.
<i>Aulonium bidentatum</i> (F.) (Colydiidae): <i>Swietenia mahogani</i> (mahogany)-----	Honduras-----	2			N. Y.
<i>Tabebuia donnell-smithii</i> (primavera)-----	Guatemala-----	1			N. Y.
<i>Baldulus climatus</i> (Ball) (Cicadellidae): <i>Lactuca sativa</i> (lettuce)-----	Mexico-----	1			Tex.
<i>Baldulus maidis</i> (DeL. & W.) (Cicadellidae): <i>Zea mays</i> (corn)-----	do-----	1			Tex.
<i>Barathra brassicae</i> (L.) (Phalaenidae): <i>Brassica oleracea capitata</i> (cabbage)-----	England-----		1		Pa.
<i>Brachyrhinus armadillo</i> Rossi (Curculionidae): <i>Fuchsia</i> sp.-----	Italy-----		1		N. Y.
<i>Brachyrhinus ovatus</i> L. (Curculionidae): <i>Dianthus</i> sp. (carnation)-----	Canada-----			1	Wash.
<i>Brachyrhinus rugosostriatus</i> Goeze (Curculionidae): Unidentified plant root-----	do-----			1	N. J.
<i>Brentus anchorago</i> L. (Brentidae): <i>Tabebuia donnell-smithii</i> (primavera)-----	Guatemala-----	2			N. Y.
<i>Brentus mexicanus</i> Boh. (Brentidae): <i>Cedrus</i> sp. (cedar)-----	Honduras-----	1			N. Y.
<i>Tabebuia donnell-smithii</i> (primavera)-----	Guatemala, Mexico-----	9			La., N. Y.
<i>Brochymena sulcata</i> Van D. (Pentatomidae): <i>Beta vulgaris</i> (beet)-----	Mexico-----	1			Calif.
<i>Daucus carota</i> (carrot)-----	do-----	1			Calif.
<i>Brontes australis</i> Er. (Cucujidae): <i>Juglans</i> sp. (walnut)-----	Australia-----	1			Va.
<i>Bruchidius incarnatus</i> (Boh.) (Bruchidae): <i>Vicia faba</i> (fava bean)-----	Egypt-----		1		N. Y.
<i>Bruchidius versicolor</i> (Boh.) (Bruchidae): <i>Podalyria argentea</i> -----	Union of South Africa-----			1	Calif.*
<i>Bruchus affinis</i> Froh. (Bruchidae): <i>Lathyrus latifolius</i> (perennial pea)-----	England-----			1	Ill.
<i>Bruchus dentipes</i> (Baudi) (Bruchidae): <i>Vicia faba</i> (fava bean)-----	Iran-----			5	D. C.
<i>Bruchus dentipes ochraceosignatus</i> Heyden (Bruchidae): <i>Vicia hybrida</i> (vetch)-----	do-----			1	D. C.
<i>Bruchus hamatus</i> Miller (Bruchidae): Unidentified seed (forage plant)-----	do-----			1	D. C.
<i>Bruchus lentis</i> Froh. (Bruchidae): <i>Lens</i> sp.-----	do-----			2	D. C.
<i>Bruchus luteicornis</i> Ill. (Bruchidae): <i>Vicia</i> sp.-----	France-----	3			Ill., La.
<i>Bruchus ramicornis</i> Er. (Bruchidae): <i>Vigna sinensis</i> (cowpea)-----	Brazil-----			1	D. C.

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<i>Bruchus rufipes</i> Hbst. (Bruchidae): <i>Vicia</i> sp.-----	France, Greece, Rumania	3		3	N. J., N. Y., Wash.
<i>Bruchus tristiculus</i> Fahr. (Bruchidae): <i>Lathyrus odoratus</i> (sweet pea)-----	Portugal	1			La.
<i>Cacoscelis scriptipennis</i> Jac. (Chrysomeli- dae): Orchid-----	Mexico			1	Tex.
<i>Callidium rufipenne</i> Motsch. (Cerambyci- dae): <i>Lilium auratum</i> (goldband lily)-----	Japan			1	Calif.*
On packing case-----	do.		1		Calif.*
<i>Callirhinus metallescens</i> Bl. (Scarabaeidae) In automobile-----	Mexico		1		Tex.
<i>Callosobruchus ademptus</i> (Sharp) (Bruchi- dae): <i>Pueraria thunbergiana</i> (kudzu)-----	Chosen, Japan	2		4	Ill., Md., N. Y., Wash.
<i>Callosobruchus analis</i> (F.) (Bruchidae): <i>Phaseolus aureus</i> (mung bean)-----	China		2		Ga.
<i>Phaseolus</i> sp. (string bean)-----	Japan		1		Wash.
<i>Vigna</i> sp.-----	Iran			1	D. C.
<i>Callosobruchus chinensis</i> (L.) (Bruchidae): Bean-----	Japan	2			Calif.*
<i>Cajanus indicus</i> (pigeon pea)-----	Puerto Rico	1			N. Y.
<i>Cicer arietinum</i> (chickpea)-----	India		1		N. Y.
<i>Phaseolus angularis</i> (adzuki)-----	China	1			N. Y.
<i>Phaseolus aureus</i> (mung bean)-----	Philippines		1		Ga.
<i>Phaseolus radiatus</i> -----	China	1			Wash.
<i>Callosobruchus maculatus</i> (F.) (Bruchidae): <i>Allium cepa</i> (onion)-----	Mexico	1			Ariz.
<i>Cicer arietinum</i> (chickpea)-----	do.	2			N. Y., Tex.
<i>Phaseolus aureus</i> (mung bean)-----	Philippines		1		Ga.
<i>Vigna sinensis</i> (cowpea)-----	Brazil, Venezuela			2	D. C.
<i>Vigna</i> sp.-----	Iran			1	D. C.
<i>Calymnaderus oblongus</i> (Gorh.) (Anobi- idae): <i>Cephalocereus senilis</i> (oldman cactus)-----	Mexico			1	N. J.
<i>Calymnus cucullatus</i> Pasc. (Tenebrionidae): <i>Cattleya</i> sp. (orchid)-----	Guatemala			1	N. J.
<i>Caryedon fuscus</i> (Goeze) (Bruchidae): <i>Tamarindus indica</i> (tamarind)-----	Hawaii	1			Calif.*
<i>Catorhintha guttula</i> (F.) (Coreiidae): <i>Brassica rapa</i> (turnip)-----	Mexico	1			Tex.
<i>Caulophilus latinasus</i> (Say) (Curculioni- dae): <i>Cicer arietinum</i> (garbanzo)-----	do.	1			Tex.
<i>Zingiber officinale</i> (ginger)-----	China	1			Ill.
<i>Caulotops agavis</i> Reut. (Miridae): <i>Beta vulgaris cicla</i> (Swiss chard)-----	Mexico	1			Tex.
<i>Celama sorghiella</i> (Riley) (Nolidae): <i>Zea mays</i> (corn)-----	do.	1			Tex.
<i>Centrinaspis picumnus</i> Hbst. (Curculioni- dae): <i>Dahlia</i> sp.-----	do.	1			Ariz.
<i>Ceratitis capitata</i> (Wied.) (Euribiidae): <i>Citrus nobilis deliciosa</i> (tangerine)-----	Portugal	2			N. Y.
<i>Citrus sinensis</i> (orange)-----	Brazil		1		La.
<i>Coffea</i> sp.-----	Hawaii		1		Calif.*
<i>Ficus carica</i> (fig)-----	Azores	1			N. Y.
<i>Malus sylvestris</i> (apple)-----	Portugal, Queensland		2		N. Y., Wash.
<i>Mangifera indica</i> (mango)-----	Hawaii	1			Calif.*
<i>Pyrus communis</i> (pear)-----	Canary Islands		1		Md.
<i>Vitis</i> sp. (grape)-----	Azores	1			N. Y.
<i>Ceratocapsus cubanus</i> Bergroth (Miridae): <i>Brassica chinensis</i> (white greens)-----	Cuba	1			N. Y.
<i>Ceratocapsus fuscognatus</i> Knigt. (Miri- dae): <i>Zea mays</i> (corn)-----	Mexico	1			Tex.
<i>Ceratocapsus punctulatus</i> (Reut.) (Miri- dae): <i>Brassica rapa</i> (turnip)-----	do.	1			Tex.
<i>Ceratopus bisignatus</i> Boh. (Curculionidae): <i>Musa</i> sp. (banana)-----	do.	1			La.
<i>Ceroplastes ceriferus</i> (And.) (Coccidae): <i>Camellia sasanqua</i> (sasanqua tea)-----	Japan			1	Calif.*

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<i>Ceroplastes floridensis</i> Comst. (Coccidae):					
<i>Camellia japonica</i> (camellia)	Japan			1	Wash.
<i>Gardenia florida</i> (Cape-jasmine)	Mexico	1			Tex.
<i>Ceroplastes rubens</i> Mask. (Coccidae):					
<i>Alyria olivaeformis</i>	Hawaii	1			Calif.*
<i>Anthurium</i> sp.	do	1			Calif.*
<i>Camellia japonica</i> (camellia)	Japan			2	Wash.
<i>Cocos nucifera</i> (coconut)	Hawaii			1	Calif.*
<i>Magnolia salicifolia</i>	Japan			1	Wash.
<i>Ceroplastes rusci</i> (L.) (Coccidae)					
<i>Ficus carica</i> (fig)	Portugal	1			N. Y.
<i>Ceutorhynchus pleurostigma</i> Marsh. (Cur-culionidae):					
<i>Brassica campestris</i> (rutabaga)	England		1		Pa.
<i>Brassica rapa</i> (turnip)	do		4		Ga., Pa., Va., Tex.
<i>Chaetococcus bambusae</i> (Mask.) (Cocci-dae):					
<i>Bambusa pertariabilis</i>	China			1	D. C.
<i>Bambusa textilis</i>	do			1	D. C.
<i>Lingnania chungii</i>	do			1	D. C.
<i>Chaetopsis fulvifrons</i> Macq. (Otitidae):					
<i>Chrysanthemum</i> sp.	Mexico	1			Ariz.
<i>Chalcopripidius webbi</i> Lec. (Elatерidae):					
<i>Salix</i> sp. (willow)	do			1	Tex.
<i>Chelinidea canyoni</i> Haml. (Coreidae):					
<i>Astrophytum</i> sp. (cactus)	do			1	Tex.
<i>Chelinidea vittiger aequoris</i> McA. (Core-idae):					
Cactus	do			1	Tex.
<i>Chermes nusslini</i> (Borner) (Aphiidae):					
<i>Abies</i> sp. (fir)	Canada	1			Wash.
<i>Chilo loftini</i> Dyar (Crambidae):					
<i>Saccharum officinarum</i> (sugarcane)	Mexico	1			Calif.
<i>Chilo simplex</i> (Butler) (Crambidae):					
<i>Oryza sativa</i> (rice)	China, Japan	5	7		Calif.*, La., Md., Tex., Wash.
<i>Chionaspis elongata</i> Green (Coccidae):					
<i>Arundinaria</i> sp.	China			4	D. C.
<i>Chionaspis pletani</i> Cooley (Coccidae):					
<i>Platanus occidentalis</i> (sycamore)	Mexico	1			Tex.
<i>Chionospis wistariae</i> Cooley (Coccidae):					
<i>Wisteria</i> sp.	Japan			1	Calif.*
<i>Chionaspis yanonensis</i> (Kuw.) (Coccidae):					
<i>Citrus nobilis deliciosa</i> (tangerine)	do	2	1		Calif.*, Wash.
<i>Citrus sinensis</i> (orange)	do		2		Calif.*
<i>Chrysomphalus elienus</i> (Newst.) (Coc-cidae):					
<i>Cattleya</i> sp. (orchid)	Venezuela			1	D. C.
<i>Chrysomphalus bifasciculatus</i> Ferris (Coc-cidae):					
<i>Citrus nobilis deliciosa</i> (Mandarin orange)	Japan	4			Wash.
<i>Chrysomphalus bififormis</i> (Ckll.) (Coc-cidae):					
Orchid	Cuba	1			Fla.*
<i>Chrysomphalus perseae</i> (Comst.) (Coc-cidae):					
Leaf	Colombia	1			Fla.*
<i>Chrysomphalus personatus</i> (Comst.) (Coc-cidae):					
<i>Citrus aurantifolia</i> (lime)	Mexico	1			Ariz.
<i>Citrus limonia</i> (lemon)	do	1			Ariz.
<i>Vriesia</i> sp.	Brazil			1	N. J.
<i>Chrysomphalus rossi</i> Mask. (Coccidae):					
<i>Dendrobium dearei</i> (orchid)	Philippines			1	Calif.*
<i>Eugenia smithii</i>	Australia			1	Calif.*
<i>Phalaenopsis amabilis</i> (orchid)	Philippines			1	Calif.*
<i>Phalaenopsis cypripodite</i> (orchid)	do			1	Calif.*
<i>Phalaenopsis grandiflora</i> (orchid)	do			2	Calif.*
<i>Phalaenopsis schilleriana</i> (orchid)	do			2	Calif.*
<i>Trichoglottis philippinensis</i> (orchid)	do			1	Calif.*
<i>Chrysomphalus umboniferus</i> Newst. (Coc-cidae):					
<i>Musa</i> sp. (banana)	Panama	1			Wash.

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<i>Cinora tuajafina</i> (DelG.) (Aphiidae): <i>Thuja</i> sp.	Japan		1		Calif.*
<i>Clerada apicicornis</i> Sign. (Lygaeidae): <i>Ananas sativus</i> (pineapple)	Cuba	1			La.
<i>Cattleya</i> sp. (orchid)	Colombia			4	N. J.
<i>Cligenes picturata</i> (Dist.) (Lygaeidae): <i>Cattleya</i> sp. (orchid)	Venezuela			1	N. J.
<i>Clytus arietis</i> L. (Cerambycidae): <i>Ulmus</i> sp. (elm)	England	2			N. Y.
<i>Coccotrypes dactyliperda</i> (F.) (Scolytidae): <i>Phoenix dactylifera</i> (date)	Mexico	1			Ariz.
<i>Phytelephas macrocarpa</i> (ivory nut)	Ecuador	3			N. Y.
<i>Coccotrypes rolliniae</i> Hopk. (Scolytidae): <i>Ptychosperma</i> sp. (palm)	Cuba			1	N. J.
<i>Coccus viridis</i> (Green) (Coccidae): <i>Achras sapota</i> (sapodilla)	Bahamas	1			Fla.*
<i>Citrus sinensis</i> (orange)	do.		1		Fla.*
<i>Coffea</i> sp.	Cuba, Puerto Rico	2			Fla.* N. Y.
<i>Gardenia florida</i> (Cape-jasmine)	Bahamas, Cuba, Hawaii, Honduras, Venezuela	45	15	6	Calif.* Fla.,*
<i>Plumeria</i> sp. (frangipani)	Bahamas	1			La.
<i>Sueteia mahoganyi</i> (mahogany)	Cuba	1			Fla.*
<i>Colaspis viridifincta</i> Schaeffer (Chryso- melidae): <i>Punica granatum</i> (pomegranate)	Mexico	1			Ariz.
<i>Colecerus marmoratus</i> Horn (Curculi- onidae): <i>Lactuca sativa</i> (lettuce)	do.	1			Tex.
<i>Proscopis</i> sp. (mesquite)	do.	1			Tex.
<i>Conchaspis agraei</i> Ckll. (Coccidae): <i>Maxillaria</i> sp. (orchid)	Guatemala			1	Calif.*
Orchid	Dominican Republic			1	P. R.
<i>Conoderus bifoveatus</i> Palis. (Elateridae): <i>Brassica</i> sp. (mustard greens)	Cuba	1			N. Y.
<i>Conotrachelus aguacatae</i> Bra. (Curculioni- dae): <i>Persea americana</i> (avocado)	Mexico	158			Tex.
<i>Conotrachelus flavangulus</i> Champ. (Cur- culionidae): Flowers	do.	1			Tex.
<i>Musa</i> sp. (banana)	Nicaragua	1			La.
<i>Conotrachelus leucophaeatus</i> Fahr. (Cur- culionidae): <i>Fragaria</i> sp. (strawberry)	Mexico	1			Tex.
<i>Conotrachelus nenuphar</i> (Herbst) (Cur- culionidae): <i>Amygdalus persica</i> (peach)	Bahamas		1		Fla.*
<i>Conotrachelus seniculus</i> Lcc. (Curculioni- dae): <i>Amygdalus persica</i> (peach)	Mexico	1			Tex.
<i>Beta vulgaris cicla</i> (Swiss chard)	do.	1			Tex.
<i>Pisum sativum</i> (pea)	do.	1			Ariz.
<i>Zea mays</i> (corn)	do.	1			Ariz.
<i>Corcyra cephalonica</i> (Staint.) (Galleriidae): <i>Calluna vulgaris</i> (heather)	Scotland	1			N. Y.
<i>Diospyros</i> sp. (persimmon)	Japan	1			Hawaii.*
<i>Gossypium</i> sp. (cottonseed)	Puerto Rico			1	D. C.
<i>Oryza sativa</i> (rice)	Japan	1			Hawaii.*
<i>Triticum aestivum</i> (wheat)	Brazil	2			Mass.
<i>Corizus pictipes</i> Stal (Corecidae): <i>Vitis</i> sp. (grape)	Argentina		1		N. Y.
<i>Corizus punctatus</i> Sign. (Corecidae): <i>Meutha</i> sp. (mint)	Mexico	1			Tex.
<i>Corythucha morrilli</i> O. & D. (Tingitidae): <i>Chrysanthemum</i> sp.	do.	5			Ariz., Tex.
<i>Daucus carota</i> (carrot)	do.	1			Tex.
<i>Lactuca sativa</i> (lettuce)	do.	1			Tex.*
<i>Zinnia</i> sp.	do.	1			Tex.
<i>Cosmotyce boeticus</i> (L.) (Lycanidae): <i>Canavalia</i> sp.	Hawaii	1			Calif.*
<i>Dioclea violacea</i> (Mauna loa)	do.	4			Calif.*
<i>Pisum sativum</i> (pea)	Japan		1		Wash.
<i>Cossonus canaliculatus</i> F. (Curculionidae): <i>Lycopersicum esculentum</i> (tomato)	Mexico	1			Tex.
<i>Tabebuia donnell-smithii</i> (primavera)	Guatemala	2			N. Y.
<i>Cossonus excurvatus</i> Boh. (Curculionidae): <i>Ananas sativus</i> (pineapple)	Mexico	1			Tex.

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<i>Creontiades rubrinervis</i> Stal (Miridae): <i>Spinacia oleracea</i> (spinach)	Mexico	1			Ariz.
<i>Crociosema plebeiana</i> Zell. (Olethreuti- dae): <i>Hibiscus esculentus</i> (okra)	do	1			Tex.
<i>Cylas formicarius</i> (F.) (Curculionidae): <i>Ipomoea batatas</i> (sweetpotato)	Bahamas, China, Cuba, Dominican Republic, Hawaii, India, Jamai- ca, Mexico, Phillip- pines, Puerto Rico.	31	34	3	Ala., Calif., Fla., Ga., Hawaii*, La., Md., Mass., N. Y., Pa., Tex., Va.
<i>Cylas puncticollis</i> Boh. (Curculionidae): <i>Ipomoea batatas</i> (sweetpotato)	Gold Coast		1		Md.
<i>Cylas turcippennis</i> Boh. (Curculionidae): <i>Ipomoea batatas</i> (sweetpotato)	Philippines		1		Ga.
<i>Cymoninus notabilis</i> (Dist.) (Lygaeidae): <i>Brassica</i> sp. (mustard)	Cuba	1			N. Y.
<i>Chrysanthemum coronarium</i> (crown daisy).	do	1			N. Y.
<i>Cyrtopeltis tenuis</i> Reut. (Miridae): <i>Antirrhinum majus</i> (snapdragon)	Jamaica	1			N. Y.
<i>Brassica chinensis</i> (white greens)	Cuba	12			N. Y.
<i>Brassica</i> sp. (mustard)	do	3			N. Y.
<i>Cyrtopeltis varians</i> (Dist.) (Miridae): <i>Brassica alba</i> (white mustard)	Mexico	1			Calif.
<i>Brassica rapa</i> (turnip)	do	1			Tex.
<i>Brassica</i> sp. (mustard)	do	1			Tex.
<i>Dactylosternum abdominale</i> F. (Hydro- philidae): <i>Brassica rapa</i> (turnip)	do	1			Tex.
<i>Cedrus</i> sp. (cedar)	Honduras	1			N. Y.
<i>Dactylosternum subdepressum</i> Lap. (Hy- drophilidae): <i>Tabebuia donnell-smithii</i> (primavera)	Guatemala	1			N. Y.
<i>Dacus cucurbitae</i> (Coq.) (Euriibiidae): <i>Phaseolus</i> sp. (string bean)	Hawaii		1		Calif.*
<i>Deloyala guttata</i> (Oliv.) (Chrysomelidae): <i>Musa</i> sp. (banana)	Mexico	1			Tex.
<i>Deloyala lecontei</i> (Cr.) (Chrysomelidae): <i>Brassica</i> sp. (mustard)	do	1			Tex.
<i>Delphacodes campestris</i> (Van D.) (Araeopi- dae): <i>Phaseolus</i> sp. (string bean)	do	1			Ariz.
<i>Delphacodes koebeleri</i> M. & G. (Araeopi- dae): <i>Lactuca sativa</i> (lettuce)	do	1			Tex.
<i>Dialeurodes chittendeni</i> Laing (Aleyrodi- dae): <i>Rhododendron</i> sp.	England			2	Wash.
<i>Dialeurodes citri</i> (Ashm.) (Aleyrodidae): <i>Citrus aurantium</i> (sour orange)	Bahamas	1			Md.
<i>Citrus sinensis</i> (orange)	Mexico	2			Tex.
<i>Dialeurodes citrifolii</i> (Morg.) (Aleyrodi- dae): <i>Citrus</i> sp.	Cuba	1			Fla.*
<i>Diaspis zamiae</i> Morg. (Coccidae): <i>Encephalartos woodii</i>	Union of South Africa			1	N. J.
<i>Encephalartos</i> sp.	do			1	N. J.
<i>Dikraneura kunzei</i> Gill. (Cicadellidae): <i>Capsicum annuum</i> (pepper)	Mexico	1			Ariz.
<i>Dinoderus bifoveolatus</i> Woll. (Bostrichi- dae): <i>Calamus</i> sp. (rattan)	Dutch East Indies	1			N. Y.
<i>Derris scandens</i> (Malay jewel vine)	Peru, Philippines	2			N. Y.
<i>Lonchocarpus</i> sp. (cube root)	Peru	1			N. Y.
<i>Serjania mexicana</i> (barbasco)	do	1			N. Y.
<i>Draeculacephala balli</i> Van D. (Cicadelli- dae): <i>Lactuca sativa</i> (lettuce)	Mexico	1			Tex.
<i>Draeculacephala minerva</i> Ball (Cicadelli- dae): <i>Allium cepa</i> (onion)	do	1			Tex.
<i>Brassica</i> sp. (mustard)	do	5			Ariz., Tex.
<i>Daucus carota</i> (carrot)	do	2			Tex.
<i>Lactuca sativa</i> (lettuce)	do	6			Tex.
<i>Petroselinum hortense</i> (parsley)	do	3			Tex.

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<i>Draeculacephala minerva</i> Ball (Cicadellidae)—Continued.					
<i>Pisum sativum</i> (pea)	Mexico	1			Ariz.
<i>Raphanus sativus</i> (radish)	do	1			Tex.
<i>Saccharum officinarum</i> (sugarcane)	do	1			Tex.
<i>Spinacia oleracea</i> (spinach)	do	1			Tex.
<i>Draeculacephala portola</i> Ball (Cicadellidae):					
<i>Capsicum annuum</i> (pepper)	do	1			Tex.
<i>Gardenia florida</i> (Cape-jasmine)	do	1			Tex.
<i>Lactuca sativa</i> (lettuce)	do	1			Tex.
<i>Drasterius cribratus</i> Lec. (Elateridae):					
<i>Ananas sativus</i> (pineapple)	do	1			Tex.
<i>Echinocnemus bipunctatus</i> Roel. (Curculionidae):					
<i>Larix</i> sp. (larch)	Japan			1	Wash.
<i>Empoasca abrupta</i> DeL. (Cicadellidae):					
<i>Beta vulgaris cicla</i> (Swiss chard)	Mexico	1			Tex.
<i>Chrysanthemum</i> sp	do	1			Tex.
<i>Daucus carota</i> (carrot)	do	1			Tex.
<i>Spinacia oleracea</i> (spinach)	do	1			Tex.
<i>Empoasca fabae</i> (Harr.) (Cicadellidae):					
<i>Lactuca sativa</i> (lettuce)	do	1			Tex.
<i>Empoasca phaseola</i> Oman (Cicadellidae):					
<i>Lactuca sativa</i> (lettuce)	do	1			Tex.
<i>Empoasca solana</i> DeL. (Cicadellidae):					
<i>Lactuca sativa</i>	do	2			Tex.
<i>Spinacia oleracea</i> (spinach)	do	2			Tex.
<i>Endrosis lacteella</i> (Schiff.) (Ooephoridae):					
<i>Aglaonema</i> sp	China			1	Wash.
<i>Amygdalus persica nectarina</i> (nectarine).	Chile	1			N. Y.
<i>Narcissus</i> sp	Ireland			1	N. J.
<i>Entylia sinuata</i> (F.) (Membracidae):					
<i>Chrysanthemum</i> sp	Mexico	1			Tex.
<i>Ephestia rileyella</i> Rag. (Phycitidae):					
<i>Yucca</i> sp	do	1			Tex.
<i>Epicaerus cognatus</i> Sharp (Curculionidae):					
<i>Solanum tuberosum</i> (potato)	do	8	2		Tex.
<i>Epicutia pardalis</i> Lec. (Meloidae):					
<i>Chenopodium</i> sp. (pigweed)	do	1			Ariz.
<i>Epidiaspis piricola</i> (DelGuer.) (Coccidae):					
<i>Malus sylvestris</i> (apple)	Italy, Portugal		2		Mass., N. Y.
<i>Pyrus communis</i> (pear)	Switzerland			1	D. C.
<i>Epilachna varivestis</i> Muls. (Coccinellidae):					
<i>Allium cepa</i> (onion)	Mexico	1			Tex.
<i>Beta vulgaris cicla</i> (Swiss chard)	do	3			Tex.
<i>Lactuca sativa</i> (lettuce)	do	1			Tex.
<i>Phaseolus</i> sp. (string bean)	do	3			Tex.
<i>Epinotia opposita</i> Hein. (Olethreutidae):					
<i>Phaseolus</i> sp. (string bean)	do	126	1		Ariz., Tex.
<i>Erynephala puncticollis</i> (Say) (Chrysomelidae):					
<i>Portulaca</i> sp. (purslane)	do	1			Tex.
<i>Eucalandra setulosa</i> Gyll. (Curculionidae):					
<i>Cattleya</i> sp. (orchid)	Colombia			1	N. J.
<i>Eucnocerus anthrenoides</i> Sharp (Dermestidae):					
<i>Tamarindus indica</i> (tamarind)	Mexico	1			Tex.
<i>Eudiagogus pulcher</i> Fahr. (Curculionidae):					
<i>Sesbania exaltata</i>	do	1			Calif.
<i>Eumecosomyia nubila</i> (Wd.) (Otitidae):					
<i>Brassica oleracea capitata</i> (cabbage)	do	3			Ariz., Tex.
<i>Cucurbita maxima</i> (squash)	do	1			Tex.
<i>Lactuca sativa</i> (lettuce)	do	1			Ariz.
<i>Portulaca</i> sp. (purslane)	do	1			Ariz.
<i>Zea mays</i> (corn)	Cuba, Mexico, Peru	154	3		Ariz., La., N. Y., Tex.
<i>Euphalerus nidifex</i> Schwarz (Psyllidae):					
<i>Gardenia florida</i> (Cape-jasmine)	Mexico	1			Tex.
<i>Euphoria leucographa</i> (G. & P.) (Scarabaeidae):					
<i>Zea mays</i> (corn)	do	1			Ariz.
<i>Euphytus parvicollis</i> Schaeff. (Chrysomelidae):					
<i>Brassica</i> sp. (mustard)	do	1			Ariz.

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		Con- sump- tion	Non- entry	Prop- aga- tion	
<i>Eurycippita vestitus</i> Dist. (Miridae):					
<i>Cattleya</i> spp. (orchid).....	Brazil, Costa Rica, Guatemala.....			3	Calif.*, N. J.
<i>Oncidium splendidum</i> (orchid).....	Guatemala.....			1	Calif.*
Orchid.....	Colombia, Mexico.....			2	Calif.*, Tex.
<i>Euryophthalmus bipustulatus</i> (Stal) (Pyr- rhocoridae):					
<i>Gardenia florida</i> (Cape-jasmine).....	Mexico.....	1			Tex.
<i>Malvariscus drummondii</i>	do.....	1			Tex.
<i>Eurytoma orchidearum</i> (Westw.) (Eury- tomidae):					
<i>Cattleya mossiae</i> (orchid).....	Colombia, Venezuela.....			2	Calif.*, N. J.
<i>Cattleya skinnerii</i>	Guatemala.....			1	Calif.*
<i>Cattleya trianae</i>	Colombia.....			1	Calif.*
<i>Cattleya</i> sp.....	Brazil, Colombia, Costa Rica, Guatemala, Venezuela.....			38	Calif.*, N. J., Wash.
Orchid.....	Colombia, Venezuela.....			2	N. J.
<i>Eurytoma pistaciae</i> Rond. (Eurytomidae):					
<i>Pistacia terebinthus</i>	Palestine.....			1	D. C.
<i>Eusepes postfasciatus</i> (Fairm.) (Curcu- lionidae):					
<i>Ipomoea batatas</i> (sweetpotato).....	American Virgin Is- lands, Brazil, Hawaii, Jamaica, Peru, Puerto Rico, Trinidad, Vir- gin Islands.....	3	50		Ala., Ga., La., Md., N. Y., Tex., Wash.
<i>Euspermophagus cardui</i> (Boh.) (Bru- chidae):					
<i>Vicia</i> sp. (vetch).....	Hungary.....			1	N. J.
<i>Euxesta annonae</i> (F.) (Otitidae):					
<i>Zea mays</i> (corn).....	Mexico.....	2			Tex.
<i>Euxesta notata</i> (Wied.) (Otitidae):					
<i>Ipomoea batatas</i> (sweetpotato).....	Argentina.....		1		La.
<i>Euxesta sororcula</i> (Wied.) (Otitidae):					
<i>Zea mays</i> (corn).....	Mexico.....	3			Tex.
<i>Euxesta stigmatias</i> Loew (Otitidae):					
<i>Capsicum annuum</i> (pepper).....	do.....	1			Ariz.
<i>Zea mays</i> (corn).....	do.....	1			Tex.
<i>Eritianus obscurinervis</i> (Stal) (Cicadelli- dae):					
<i>Phaseolus</i> sp. (string bean).....	do.....		1		Tex.
<i>Erptochiamera arizonensis</i> Barb. (Lygaei- dae):					
<i>Portulaca</i> sp. (purslane).....	do.....		1		Tex.
<i>Erptochiamera fuscicornis</i> Stal (Lygaei- dae):					
<i>Allium sativum</i> (garlic).....	do.....		1		Tex.
<i>Celosia</i> sp. (cockscorb).....	do.....		1		Tex.
<i>Erptochiamera minima</i> (Guer.) (Lygaei- dae):					
<i>Chrysanthemum</i> sp.....	do.....	3			Tex.
<i>Lycopersicum esculentum</i> (tomato).....	do.....	1			Ariz.
<i>Rosa</i> sp.....	do.....	1			Tex.
<i>Erptochiamera oblonga</i> (Stal) (Lygaeidae):					
<i>Cattleya</i> sp. (orchid).....	Venezuela.....			1	N. J.
<i>Fragaria</i> sp. (strawberry).....	Mexico.....	1			Tex.
<i>Faustinus cubae</i> (Boh.) (Curculionidae):					
<i>Capsicum annuum</i> (pepper).....	Cuba.....	1			N. Y.
<i>Feltia subterranea</i> (F.) (Phalaenidae):					
<i>Lactuca sativa</i> (lettuce).....	Mexico.....	1			Tex.
<i>Fiorinia nephelii</i> Mask. (Coccidae):					
<i>Litchi chinensis</i> (lychee).....	China.....			2	D. C.
<i>Forficula auricularia</i> L. (Forficulidae):					
Cut flowers.....	British Columbia.....		1		Oreg.
<i>Formosaspis formosanus</i> (Tak.) (Coc- cidae):					
Bamboo.....	China.....		1		Wash.
<i>Formosaspis nigra</i> (Tak.) (Coccidae):					
<i>Schizostachyum dumetorum</i>	do.....			1	D. C.
<i>Forsebia perlaeta</i> (Hy. Edw.) (Phalaeni- dae):					
<i>Lycopersicum esculentum</i> (tomato).....	Mexico.....	1			Ariz.
<i>Frankliniella cephalica</i> (Crawf.) (Thrip- idae):					
<i>Gardenia florida</i> (Cape-jasmine).....	do.....	1			Tex.
<i>Rosa</i> sp.....	do.....	1			Tex.

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		Con-sumption	Non-en-try	Prop-agation	
<i>Frankliniella cubensis</i> Hood (Thripidae):					
<i>Citrus</i> sp.	Cuba	1			Fla.*
<i>Jasminum sambac</i> (Arabian jasmine)	do		1		Fla.*
<i>Rosa</i> sp.	Bahamas, Cuba	8	6		Fla.*
<i>Frankliniella diffcilis</i> Hood (Thripidae):					
<i>Rosa</i> sp.	Bahamas, Cuba	2			Fla.*
<i>Frankliniella fortissima</i> Pr. (Thripidae):					
<i>Althaea rosea</i> (hollyhoek)	Mexico	1			Ariz.
<i>Antirrhinum majus</i> (snapdragon)	do	2			Ariz., Tex.
<i>Chrysanthemum</i> sp.	do	2			Tex.
Daisy	do	4			Ariz., Tex.
<i>Delphinium</i> sp. (larkspur)	do	1			Ariz.
<i>Dianthus</i> sp. (carnation)	Guatemala, Mexico	6			Tex.
<i>Gardenia florida</i> (Cape-jasmine)	Guatemala	1			Tex.
<i>Gladiolus</i> sp.	Mexico	2			Tex.
<i>Iris</i> sp.	do	1			Ariz.
<i>Lathyrus odoratus</i> (sweet pea)	Guatemala, Mexico	24			Ariz., Tex.
<i>Lilium</i> sp.	do	2			Tex.
<i>Lycopersicum esculentum</i> (tomato)	Mexico	1			Ariz.
<i>Medicago sativa</i> (alfalfa)	do	1			Tex.
<i>Nerium oleander</i> (oleander)	do	1			Ariz.
<i>Phaseolus</i> sp. (string bean)	do	2			Ariz.
<i>Polygonum tuberosa</i> (tuberose)	do	1			Tex.
<i>Rosa</i> sp.	do	7			Ariz., Tex.
<i>Viola</i> sp. (violet)	do	1			Tex.
<i>Frankliniella insularis</i> (Frankl.) (Thripidae):					
<i>Antirrhinum majus</i> (snapdragon)	Bahamas	1			N. Y.
Daisy	Brazil		1		Fla.*
<i>Gerberia</i> sp.	Dominican Republic	1			N. Y.
<i>Pentas lanceolata</i>	Bahamas	1			N. Y.
<i>Rosa</i> sp.	Cuba	1	3		Fla.*
<i>Frankliniella schultzei</i> Tryb. (Thripidae):					
<i>Ornithogalum thyrsoides</i> (chinkerichce)	Union of South Africa	1			Ill.
<i>Frankliniella williamsi</i> Hd. (Thripidae):					
<i>Zea mays</i> (corn)	Mexico	127	1		Ariz., Calif. Tex.
<i>Fulvius quadristillatus</i> (Stal) (Miridae):					
<i>Cattleya</i> sp. (orchid)	Colombia			3	N. J.
Orchid	Brazil			1	Calif.*
<i>Furcaspis biformis</i> (Ckll.) (Coccidae):					
<i>Brassarola nodosa</i> (orchid)	Canal Zone			2	Calif.*, N. J.
<i>Brassavola</i> sp.	do			3	N. J.
<i>Prassia caudata</i> (orchid)	do			1	N. J.
<i>Cattleya skinneri</i> (orchid)	Guatemala			1	Calif.*
<i>Cattleya</i> sp.	Colombia, Venezuela	1		5	Calif.*, N. J.
<i>Epidendrum atropurpureum</i> (orchid)	Canal Zone			6	Calif.*, N. J., P. R.
<i>Epidendrum</i> sp.	do			2	N. J.
<i>Oncidium</i> sp. (orchid)	Venezuela			2	N. J.
Orchid	Colombia, Hawaii, Trinidad, Venezuela	2		12	Calif.*, D. C., Fla., N. J., P. R.
<i>Schomburgkia</i> sp. (orchid)	Venezuela			1	N. J.
<i>Gastrodes pacificus</i> (Prov.) (Lygaeidae):					
<i>Pinus</i> sp. (pine)	Canada			1	Wash.
<i>Geocnethus nigrocinctus</i> (Sign.) (Cydnidae):					
<i>Cattleya</i> sp. (orchid)	Colombia			1	N. J.
<i>Vitis</i> sp. (grape)	Argentina	1			N. Y.
<i>Geocnethus semilevis</i> (Sign.) (Cydnidae):					
<i>Centaurea cyanus</i> (bachelors button)	Mexico	1			Tex.
<i>Chrysanthemum</i> sp.	do	1			Tex.
<i>Geocoris sonoraensis</i> Van D. (Lygaeidae):					
<i>Brassica</i> sp. (mustard)	do	1			Tex.
<i>Petroselinum hortense</i> (parsley)	do	1			Tex.
<i>Glyptina atriventris</i> Horn (Chrysomelidae):					
<i>Chenopodium album</i> (lamb's-quarters)	do	1			Ariz.
<i>Glyptina nivalis</i> Horn (Chrysomelidae):					
Cut flowers	do	1			Ariz.
<i>Gnathotrichus consentaneus</i> Bidfd. (Scolytidae):					
<i>Citrus aurantifolia</i> (lime)	do	1			Tex.

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<i>Gnathotrichus denticulatus</i> Blkm. (Scolytidae):					
<i>Lycopersicum esculentum</i> (tomato).....	Mexico.....	1			Ariz.
<i>Gnorimoschema gudmannella</i> (Wlsm.) (Gelechiidae):					
<i>Capsicum annuum</i> (pepper).....	Cuba, Mexico.....	54			Ariz., La., Tex.
<i>Gnorimoschema lavernella</i> (Chamb.) (Gelechiidae):					
<i>Physalis</i> sp. (husk tomato).....	Mexico.....	1			Tex.
<i>Gnorimoschema plaesiosema</i> (Turner) (Gelechiidae):					
<i>Solanum tuberosum</i> (potato).....	Peru.....		3		N. Y., Wash.
<i>Gracilaria azaleella</i> Brants (Graclarariidae):					
<i>Azalea indica</i> (azalea).....	Japan.....		1	1	Calif.,* Wash.
<i>Gracilia minuta</i> (F.) (Cerambycidae):					
Hoops around barrel.....	England.....	1			Mass.
<i>Grapholitha molesta</i> (Busck) (Olethreutidae):					
<i>Malus sylvestris</i> (apple).....	Japan.....		1		Calif.*
<i>Gymnaspis achmeae</i> Newst. (Coccidae):					
Bromeliad.....	Brazil.....			1	N. J.
<i>Gynaikothrips uzeli</i> Zimm. (Phlaeothripidae):					
<i>Ficus indica</i> (fig).....	Cuba.....		5		Fla.,* N. Y.
<i>Gypona angulata</i> Spbg. (Cicadellidae):					
<i>Zinnia</i> sp.....	Mexico.....	1			Ariz.
<i>Gypona delta</i> Ball (Cicadellidae):					
<i>Salvia</i> sp. (purple sage).....	do.....	1			Tex.
<i>Haltidota inexpectata</i> Roths. (Arecitidae):					
<i>Cattleya</i> sp. (orchid).....	Colombia.....			1	N. J.
<i>Haplothrips cottei</i> (Vuillet) (Phlaeothripidae):					
<i>Dianthus</i> sp. (carnation).....	Europe.....	1			N. Y.
<i>Haplothrips gowdeyi</i> (Frankl.) (Phlaeothripidae):					
<i>Aster</i> sp.....	Canal Zone.....	1			N. Y.
<i>Brassica</i> sp. (mustard).....	Cuba.....	1			N. Y.
<i>Chrysanthemum coronarium</i> (crown daisy).....	do.....	1			N. Y.
<i>Chrysanthemum</i> sp.....	Mexico.....	1			Tex.
<i>Citrus</i> sp.....	Puerto Rico.....	1			N. Y.
<i>Crinum</i> sp.....	Bahamas.....	1			N. Y.
Daisy.....	Mexico.....	1			Tex.
<i>Daucus carota</i> (carrot).....	Bahamas.....	1			N. Y.
<i>Gardenia florida</i> (Cape-jasmine).....	Mexico.....	1			Tex.
<i>Gerberia</i> sp.....	Canal Zone, Dominican Republic, Jamaica, Canal Zone.....	6			N. Y.
<i>Gladiolus</i> sp.....	Canal Zone.....	1			N. Y.
<i>Nerium oleander</i> (oleander).....	Bahamas.....		1	1	N. Y.
<i>Rosa</i> sp.....	Bahamas, Cuba.....	5	1		Fla.*
<i>Tagetes florida</i> (marigold).....	Mexico.....	1			Tex.
<i>Zinnia</i> sp.....	Bermuda.....	1			N. Y.
<i>Hellipus lauri</i> (Bob.) (Curculionidae):					
<i>Persea americana</i> (avocado).....	Mexico.....	2			Tex.
<i>Helichus productus</i> Lec. (Dryopidae):					
<i>Allium cepa</i> (onion).....	do.....	1			Ariz.
<i>Hellula phidilealis</i> (Wlk.) (Pyraustidae):					
<i>Brassica alba</i> (white mustard).....	do.....	31			Calif.
<i>Brassica chinensis</i> (white greens).....	Cuba.....	23			N. Y.
<i>Brassica oleracea acephala</i> (kale).....	do.....	2			N. Y.
<i>Brassica rapa</i> (turnip).....	do.....		1		N. Y.
<i>Brassica</i> sp. (mustard).....	Cuba, Mexico.....	44			Calif., N. Y.
<i>Raphanus sativus</i> (radish).....	Cuba.....	1			N. Y.
<i>Hellula undalis</i> (F.) (Pyraustidae):					
<i>Brassica alba</i> (white mustard).....	Mexico.....	1			Calif.
<i>Brassica oleracea capitata</i> (cabbage).....	do.....	1			Tex.
<i>Brassica</i> sp. (mustard).....	do.....	1			Tex.
<i>Raphanus sativus longipinnatus</i> (Chinese radish).....	Japan.....		1		Pa.
<i>Hercinothrips dimidiatus</i> Hd. (Thripidae):					
<i>Haworthia altissima</i>	Union of South Africa.....			1	Calif.*
<i>Hercinothrips errans</i> (Williams) (Thripidae):					
<i>Cypripedium</i> sp. (orchid).....	England.....			1	N. J.

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<i>Hercinothrips femoralis</i> (Reut.) (Thripidae):					
<i>Cypripedium</i> sp. (orchid)	England			1	D. C.
<i>Dendrobium nobile</i> (orchid)	Japan			1	Hawaii.*
<i>Phalaenopsis aphrodite</i> (orchid)	Philippines			1	Hawaii.*
<i>Phalaenopsis grandiflora</i>	do			1	Hawaii.*
<i>Phalaenopsis stuartiana</i>	do			1	Hawaii.*
<i>Heterostrychus aequalis</i> (Waterh.) (Bostri- trichidae):					
Bamboo dunnage	Java		1		Va.
Packing cases	India	1			Pa.
Wooden frame of tea chest	Dutch East Indies	2			N. Y.
Wooden cases containing mica	India	2			Mass.
<i>Homalodisca triquetra</i> (F.) (Cicadellidae):					
<i>Laurus nobilis</i> (Grecian laurel)	Mexico	1			Tex.
<i>Homona menciiana</i> (Wlk.) (Tortricidae):					
<i>Ginkgo biloba</i> (maidenhair tree)	Japan		1		N. Y.
<i>Hyalopteris atriplicis</i> (L.) (Aphididae):					
<i>Chenopodium album</i> (lambs-quarters)	Mexico		2		Ariz.
<i>Hyphantria texior</i> (Hart.) (Arctiidae):					
<i>Beta vulgaris</i> (beet)	do	1			Tex.
<i>Brassica rapa</i> (turnip)	do	1			Tex.
<i>Brassica</i> sp. (mustard)	do	1			Tex.
<i>Capsicum annuum</i> (pepper)	do	1			Tex.
<i>Daucus carota</i> (carrot)	do	1			Tex.
<i>Hypselonotus fulvus</i> (Deg.) (Coreidae):					
<i>Malvaiscus drummondii</i>	do		1		Tex.
<i>Hypsipyra grandella</i> (Zell.) (Phycitidae):					
<i>Cedrus</i> sp. (cedar)	Honduras		1		N. Y.
<i>Icerya seychellorum</i> (Westw.) (Coccidae):					
<i>Mangifera indica</i> (mango)	Tahiti		1		Hawaii.*
<i>Inglisia vitrea</i> (Ckll.) (Coccidae):					
<i>Laurus nobilis</i> (Grecian laurel)	Brazil		1		N. Y.
<i>Iridomyrmex humilis</i> Mayr. (Formicidae):					
<i>Ananas sativus</i> (pineapple)	Portugal	1			N. Y.
<i>Brassica</i> sp. (mustard)	Cuba	1			N. Y.
<i>Iridomyrmex iniquus nigella</i> Em. (Formi- cidae):					
<i>Cattleya</i> sp. (orchid)	Colombia, Venezuela			3	N. J.
<i>Iridomyrmex melleus</i> Whlr. (Formicidae):					
Packing of orchid plants	France		1		Hawaii.*
<i>Iridomyrmex melleus</i> Whlr. var. (Formi- cidae):					
Packing of orchid plants	do		1		Hawaii.*
<i>Iridomyrmex pruinosus</i> (Rog.) (Formi- cidae):					
<i>Chrysanthemum coronarium</i> (crown daisy).	Cuba		1		N. Y.
<i>Kaloterms marginipennis</i> Latr. (Termiti- tidae):					
<i>Prosopis</i> sp. (mesquite)	Mexico		1		Ariz.
<i>Kaloterms minor</i> Hagen (Termitidae):					
<i>Ananas sativus</i> (pineapple)	do		1		Tex.
<i>Kaloterms piceatus</i> Snyder (Termitidae):					
Lumber	Hawaii		1		Calif.*
<i>Keiferia lycopersicella</i> (Busek) (Gelechi- dae):					
<i>Lycopersicum esculentum</i> (tomato)	Cuba, Mexico	6,768			Ariz., Calif., N. Y., Tex., Vt.
<i>Phaseolus</i> sp. (string bean)	Mexico		1		Ariz.
<i>Kuwanaspis pseudoleucaspis</i> (Kuw.) (Coccidae):					
<i>Arundinaria</i> sp.	China			1	D. C.
<i>Phyllostachys</i> sp.	do			1	D. C.
<i>Semiarundinaria venusta</i>	do			1	D. C.
<i>Sinobambusa laeta</i>	do			1	D. C.
<i>Sinobambusa rubroligulata</i>	do			1	D. C.
<i>Sinobambusa tootsii</i>	do			1	D. C.
<i>Kuwanaspis vermiformis</i> (Tah.) (Cocci- dae):					
<i>Arundinaria</i> sp.	do			3	D. C.
<i>Phyllostachys</i> sp. (bamboo)	do			1	D. C.
<i>Sinobambusa humila</i>	do			1	D. C.

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<i>Laemophloeus iteratus</i> Sharp (Cucujidae): <i>Guaiacum officinale</i> (lignumvitae)	Guatemala	1			N. Y.
<i>Laemophloeus suturalis</i> Reitt. (Cucujidae): <i>Tabebuia donnell-smithii</i> (primavera)	Guatemala, Nicaragua	2			N. Y.
<i>Laematmetus rhizophagoides</i> (Walk.) (Cu- cujidae): Bamboo	Dutch East Indies, Java		6		N. Y., Va.
<i>Laspeyresia membrosea</i> Hein. (Olethreuti- dae): <i>Prosopis</i> sp. (mesquite)	Mexico	1	1		Tex.
<i>Laspeyresia splendana</i> (Hbn.) (Olethreu- tidae): <i>Castanea sativa</i> (Spanish chestnut)	Portugal	1			N. Y.
<i>Castanea</i> sp. (chestnut)	Japan, Portugal, Spain	26	1	1	Calif., N. Y. Pa., Wash.
<i>Lecaniodiaspis dendrobii</i> Dougl. (Cocci- dae): <i>Cattleya</i> sp. (orchid)	Venezuela			1	N. J.
<i>Lecanium coryli</i> (L.) (Coccidae): <i>Prunus</i> sp. (cherry)	Canada	1			Wash.
<i>Leperisinus fraxini</i> Panz. (Scolytidae): <i>Fraxinus</i> sp. (ash)	England	6			N. Y.
<i>Lepidosaphes camelliae</i> Hoke (Coccidae): <i>Camellia japonica</i> (camellia)	Cuba, Japan, Mexico	2		2	Fla., Tex., Wash.
<i>Lepidosaphes conchiformis</i> (Gmel.) (Cocci- dae): <i>Eriobotrya japonica</i> (loquat)	Japan		1		Wash.
<i>Malus</i> sp. (flowering crabapple)	do		1		N. Y.
<i>Pyrus communis</i> (pear)	do		1		Wash.
<i>Lepidosaphes lasianthi</i> (Green) (Coccidae): <i>Codiaeum</i> sp. (croton)	Colombia			1	N. J.
<i>Lepidosaphes pallida</i> (Green) (Coccidae): <i>Juniperus</i> sp. (juniper)	Chosen	1			N. Y.
<i>Lepidosaphes philococcus</i> (Ckll.) (Cocci- dae): Cactus	Mexico			3	Calif., Tex.
<i>Myrtillocactus</i> sp. (cactus)	do			2	D. C., Tex.
<i>Pachycereus marginatus</i> (cactus)	do			1	Tex.
<i>Lepidosaphes tuberculata</i> Malen. (Cocci- dae): <i>Cymbidium eburneum</i> (orchid)	England			1	N. J.
<i>Cymbidium</i> sp.	Belgium, England, Japan			20	Calif., D. C., Hawaii*, N. J., Wash.
Orchid	England			1	N. J.
<i>Leucaspis cockerelli</i> (deCharmoy) (Cocci- dae): <i>Vanda luzonica</i> (orchid)	Philippines			1	Hawaii*
<i>Vanda teres</i>	Jamaica			1	N. J.
<i>Leucaspis indica</i> Marlatt (Coccidae): <i>Mangifera indica</i> (mango)	Cuba			1	Fla.*
<i>Leucopocilla albofasciata</i> Reut. (Miridae): <i>Brassica</i> sp. (mustard)	Mexico	1			Tex.
<i>Lactuca sativa</i> (lettuce)	do	6			Ariz., Tex.
<i>Leucoptera coffeella</i> Guer. (Gracilariidae): <i>Coffea</i> sp.	Cuba	2			Fla.*
<i>Lichtensia lutea</i> (Ckll.) (Coccidae): Unidentified leaves	Mexico	1			Tex.
<i>Ligyrocoris abdominalis</i> (Guer.) (Lygaei- dae): <i>Cucurbita maxima</i> (squash)	do			1	Tex.
<i>Ligyrocoris aurivilliana</i> (Dist.) (Lygaei- dae): <i>Chrysanthemum parthenium</i> (fever- few)	do	1			Tex.
<i>Fragaria</i> sp. (strawberry)	do	1			Tex.
<i>Lactuca sativa</i> (lettuce)	do	1			Tex.
<i>Ligyrocoris litigiosus</i> (Stal) (Lygaeidae): <i>Ananas sativus</i> (pineapple)	Cuba, Mexico	3			La., Tex.
<i>Ligyrocoris nitidicollis</i> (Stal) (Lygaeidae): <i>Ananas sativus</i> (pineapple)	Mexico	1			Tex.
Cactus	do			1	Tex.
<i>Fragaria</i> sp. (strawberry)	do	1			Tex.
<i>Gypsophila paniculata</i> (babysbreath)	do	1			Tex.
Orchid	do			1	Tex.

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		Con- sump- tion	Non- entry	Prop- aga- tion	
<i>Ligyrocoris nitidulus</i> (Uhler) (Lygaeidae):					
<i>Allium sativum</i> (garlic).....	Mexico.....	1			Ariz.
<i>Lactuca sativa</i> (lettuce).....	do.....	1			Tex.
<i>Portulaca</i> sp. (purslane).....	do.....	1			Ariz.
<i>Zea mays</i> (corn).....	do.....	1			Ariz.
<i>Ligyrocoris rubricatus</i> Barb. (Lygaeidae):					
<i>Phaseolus</i> sp. (string bean).....	do.....	1			Tex.
<i>Ligyrocoris setosus</i> (Stal) (Lygaeidae):					
<i>Chrysanthemum maximum</i> (shasta daisy).....	do.....	1			Tex.
<i>Chrysanthemum</i> sp.....	do.....	1			Tex.
<i>Limothrips denticornis</i> Hal. (Thripidae):					
<i>Helleborus niger</i> (Christmas-rose).....	England.....			1	N. J.
<i>Lineodes integra</i> (Zell.) (Pyraustidae):					
<i>Lycopersicum esculentum</i> (tomato).....	Mexico.....	2			Ariz., Tex.
<i>Liosomaphis berberidis</i> (Kalt.) (Aphidae):					
<i>Berberis thunbergii</i> (Japanese barberry).....	Canada.....			1	D. C.
<i>Liothrips vaneekii</i> Pr. (Thripidae):					
<i>Lilium speciosum</i> (speciosum lily).....	Japan.....			1	Wash.
<i>Lilium</i> sp. (lily).....	England, Japan.....		3	3	Md., Mass., N. Y., Wash.
<i>Liriomyza flaveola</i> Fallen (Agromyzidae):					
<i>Brassica chinensis</i> (white greens).....	Cuba.....	9			N. Y.
<i>Brassica oleracea acephala</i> (kale).....	do.....	5			N. Y.
<i>Brassica</i> sp. (mustard).....	do.....	25			N. Y.
<i>Coriandrum sativum</i> (coriander).....	do.....	1			N. Y.
<i>Medicago sativa</i> (alfalfa).....	Mexico.....	1			Tex.
<i>Listroderes obliquus</i> Klug. (Curculionidae):					
In box of grapes.....	Argentina.....	1			N. Y.
<i>Vitis</i> sp. (grape).....	Chile.....	1			N. Y.
<i>Lophocateres pusillus</i> (Klug.) (Ostomidae):					
<i>Zea mays</i> (corn).....	Mexico.....	2			Tex.
<i>Lorita abornana chatka</i> Busck (Phalaeni- dae):					
<i>Capsicum annuum</i> (pepper).....	do.....	77			Ariz.
<i>Lycopersicum esculentum</i> (tomato).....	do.....	3			Ariz.
<i>Lycorylon japonum</i> Reitt. (Lyctidae):					
Bamboo.....	Java.....		1		Va.
<i>Lygaeus circumlitus</i> Stal (Lygaeidae):					
Cut flowers.....	Mexico.....	1			Tex.
<i>Lygaeus lateralis</i> Dall. (Lygaeidae):					
<i>Lactuca sativa</i> (lettuce).....	do.....	3			Tex.
<i>Lycopersicum esculentum</i> (tomato).....	do.....	1			Tex.
<i>Solanum tuberosum</i> (potato).....	do.....	1	1		Ariz., Pa.
<i>Lygaeus vutiscutis</i> Stal (Lygaeidae):					
On sack of bran.....	do.....	1			Tex.
<i>Lygus championi</i> Dist. (Miridae):					
<i>Lactuca sativa</i> (lettuce).....	do.....	1			Tex.
<i>Lygus distinctus</i> Knight (Miridae):					
<i>Spinacia oleracea</i> (spinach).....	do.....	1			Ariz.
<i>Lygus elisus</i> van D. (Miridae):					
<i>Brassica</i> sp. (mustard).....	do.....	2			Tex.
<i>Petroselinum hortense</i> (parsley).....	do.....	1			Tex.
<i>Zea mays</i> (Corn).....	do.....	1			Ariz.
<i>Lygus hesperius</i> Knegt. (Miridae):					
<i>Brassica</i> sp. (mustard).....	do.....	1			Tex.
<i>Lygus sallei</i> Stal (Miridae):					
<i>Lactuca sativa</i> (lettuce).....	do.....	1			Ariz.
<i>Macrostelus divinus</i> (Uhl.) (Cicadellidae):					
<i>Lactuca sativa</i> (lettuce).....	do.....	1			Tex.
<i>Raphanus sativus</i> (radish).....	do.....	1			Calif.
<i>Maruca testulalis</i> (Geyer) (Pyraustidae):					
<i>Dioclea viotacea</i> (mauua loa).....	Hawaii.....	4	1		Calif.*
<i>Phaseolus</i> sp. (string bean).....	Brazil, Haiti, Hawaii, Puerto Rico, Trini- dad, Virgin Islands.		13		Ala., Calif.,* La., Md., Mass., Pa.
<i>Matsucoccus matsumurae</i> (Kuw.) (Coc- cidae):					
<i>Pinus</i> sp. (pine).....	Japan.....			3	Wash.
<i>Metamasius sericeus</i> Ol. (Curculionidae):					
Banana debris.....	Honduras.....	1			Tex.
<i>Musa</i> sp. (banana).....	Ecuador, Honduras.....	4			Md., N. Y.
<i>Solanum melongena</i> (eggplant).....	Cuba.....	1			N. Y.
Under light in hold of banana boat.....	Colombia.....	1			Pa.

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<i>Metamasius sericeus carbonarius</i> Chev. (Curculionidae): Banana debris	Guatemala	1			S. C.
<i>Metronia erratica</i> (Boh.) (Chrysomelidae): <i>Gardenia florida</i> (Cape-jasmine)	Mexico	1			Tex.
<i>Metronia profligata</i> (Boh.) (Chrysomelidae): <i>Brassica oleracea capitata</i> (cabbage)	do.	1			Tex.
<i>Micrapate dinoderoides</i> (Horn) (Bostrichidae): Tree limbs used for erating	do.	2			Ariz.
<i>Micrapate scapularis</i> Gorh. (Bostrichidae): <i>Sambucus</i> sp. (elder)	do.	1			N. Y.
Wood erating	do.	7			Ariz., N. Y., Mass., Tex.
<i>Zea mays</i> (corn)	do.	1			Tex.
<i>Micrelus ericae</i> Gyll. (Curculionidae): <i>Calluna vulgaris</i> (heather)	Scotland	1		1	D. C., N. Y.
<i>Moodna bisinuella</i> Hamp. (Phycitidae): <i>Zea mays</i> (corn)	Mexico	54			Tex.
<i>Mordellistena cattleyana</i> Champ. (Mordellidae): <i>Cattleya</i> sp. (orchid)	Brazil, Colombia, Venezuela.			4	Calif.*, N. J.
<i>Mordellistena chapini</i> Ray (Mordellidae): <i>Cattleya</i> sp.	Peru			2	N. J.
Orchid	Colombia			1	N. J.
<i>Morganella longispina</i> (Morg.) (Coccidae): <i>Carica papaya</i> (papaya)	Brazil	1			N. Y.
<i>Nerium oleander</i> (oleander)	Bahamas		1		Fla.*
<i>Mormidea collaris</i> Dall. (Pentatomidae): Orchid	Mexico			1	Tex.
<i>Mozena lunato</i> (Burm.) (Coreidae): <i>Capsicum annuum</i> (pepper)	do.	1			Tex.
<i>Myocalandra discors</i> Faust (Curculionidae): Bamboo	Dutch East Indies		1		Va.
<i>Myochrous dentifollis</i> Say (Chrysomelidae): <i>Cattleya trianae</i> (orchid)	Colombia			1	Calif.*
<i>Nabis alternata</i> Parsh. (Nabidae): <i>Brassica rapa</i> (turnip)	Mexico	2			Tex.
<i>Brassica</i> sp. (mustard)	do.	2			Tex.
<i>Chrysanthemum</i> sp.	do.	1			Tex.
<i>Rophanus sativus</i> (radish)	do.	2			Tex.
<i>Nabis punctipennis</i> Blanch. (Nabidae): <i>Brassica oleracea capitata</i> (cabbage)	Chile		1		Va.
<i>Nasutitermes cornigera</i> Motsch (Termitidae): <i>Cattleya</i> sp. (orchid)	Colombia			1	N. J.
<i>Tabebuia donnell-smithii</i> (primavera)	Guatemala	1			N. Y.
<i>Nauclis pusio</i> (Lec.) (Mordellidae): <i>Lactuca sativa</i> (lettuce)	Mexico	1			Tex.
<i>Nemopogon granella</i> (L.) (Tineidae): <i>Agaricus campestris</i> (mushroom)	Japan	2			Hawaii.*
<i>Nemocephalus guatemalensis</i> Senna (Brentidae): <i>Tabebuia donnell-smithii</i> (primavera)	Guatemala	2			N. Y.
<i>Neoclytus cacticus</i> Chevrollet (Cerambycidae): <i>Eugenia aziliaris</i> (guayacan)	do.	1			Calif.*
<i>Guaiacum officinale</i> (lignum vitae)	Canal Zone, Guatemala, Honduras.	4			Calif.*, N. Y., Wash.
<i>Neolecanium cornuparvum</i> (Thro.) (Coccidae): <i>Magnolia liliflora</i>	Japan			1	Wash.
<i>Magnolia soulangeana</i>	do.			1	Wash.
<i>Magnolia stellata</i>	do.			1	Wash.
<i>Nesosteles neglectus</i> (DeL. & D.) (Cicadellidae): <i>Zinnia</i> sp.	Mexico	1			Tex.
<i>Neuroctenus simplex</i> (Uhler) (Aradidae): <i>Prosopis</i> sp. (mesquite)	do.		1		Tex.
<i>Nicobium castaneum</i> (Oliv.) (Anobiidae): Wicker hamper	Portugal	1			Pa.
<i>Nicobium hirtum</i> (Ill.) (Anobiidae): Wicker hamper	do.	1			Pa.

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<i>Nysius callifer</i> Stal (Lygaeidae): Mixed flowers	Venezuela	1			N. Y.
<i>Nysius expressus</i> Dist. (Lygaeidae): <i>Brassica chinensis</i> (Chinese cabbage)	Japan		1		Wash.
<i>Nysius minutus</i> Uhl. (Lygaeidae): <i>Brassica rapa</i> (turnip)	Mexico	1			Tex.
<i>Brassica</i> sp. (mustard)	do	1			Tex.
<i>Portulaca</i> sp. (purslane)	do	1			Tex.
<i>Zea mays</i> (corn)	do	1			Ariz.
<i>Nysius monticola</i> Dist. (Lygaeidae): <i>Brassica rapa</i> (turnip)	do	1			Tex.
<i>Spinacia oleracea</i> (spinach)	do	1			Tex.
<i>Nyssodryis haldemani</i> Lec. (Crambycidae): <i>Tamorindus indica</i> (tamarind)	do	1			Tex.
<i>Odonaspis graminis</i> Bremner (Coccidae): Wild grass	do	1			Ariz.
<i>Odonaspis greeni</i> Ckll. (Coccidae): <i>Bambusa dissemulator</i>	China			1	D. C.
<i>Bambusa parvariabilis</i>	do			1	D. C.
<i>Odonaspis penicillata</i> Ckll. (Coccidae): <i>Arundinaria hindii</i> (ramrod bamboo)	do			1	D. C.
<i>Bambusa parvariabilis</i>	do			1	D. C.
<i>Bambusa</i> sp.	do			1	D. C.
<i>Oedionychis durangoensis</i> Jac. (Chrysomelidae): <i>Zea mays</i> (corn)	Mexico	1			Ariz.
<i>Ollarianus strictus</i> (Ball) (Cicadellidae): <i>Chrysanthemum</i> sp.	do	2			Tex.
<i>Dahlia</i> sp.	do	1			Ariz.
<i>Onthophagus marginatus</i> Cast. (Scarabaeidae): <i>Gossypium</i> sp. (cotton)	Cuba	1			N. Y.
<i>Onychobaris ambigua</i> Csy. (Curculionidae): <i>Dahlia</i> sp.	Mexico	1			Ariz.
<i>Opsius stactogalus</i> Fieb. (Cicadellidae): <i>Delphinium</i> sp. (larkspur)	do	1			Ariz.
<i>Orchidophilus aterrimus</i> (Wthr.) (Curculionidae): <i>Dendrobium cerinum</i> (orchid)	Philippines			1	Calif.*
<i>Dendrobium chrysotozum</i>	Japan			1	Hawaii.*
Orchid	Thailand			1	Calif.*
<i>Phalaenopsis aphrodite</i> (orchid)	Philippines			1	Hawaii.*
<i>Phalaenopsis grandiflora</i>	do			1	Hawaii.*
<i>Phalaenopsis stuartiana</i>	do			1	Hawaii.*
<i>Vanda caerulea</i> (orchid)	Japan			1	Hawaii.*
<i>Vanda sanderiana</i>	Philippines			1	Hawaii.*
<i>Orthaea scutellata</i> (Dall.) (Lygaeidae): <i>Brassica chinensis</i> (white greens)	Cuba	3			N. Y.
<i>Fragaria</i> sp. (strawberry)	Mexico	3			Tex.
<i>Oryzctonia jucunda</i> (Fald.) (Scarabaeidae): <i>Pinus parviflora</i> (Japanese white pine)	Japan			1	Wash.
<i>Ozophora burmeisteri</i> (Guer.) (Lygaeidae): <i>Brassica chinensis</i> (white greens)	Cuba	1			N. Y.
<i>Ozophora gracilipes</i> (Stal) (Lygaeidae): <i>Cattleya</i> sp. (orchid)	Venezuela			1	N. J.
<i>Ozophora pallescens</i> (Dist.) (Lygaeidae): <i>Phaseolus</i> sp. (string bean)	Cuba		1		N. Y.
<i>Pachymerus olearius</i> Bridwell (Bruchidae): <i>Orbignyia barbosiana</i>	Brazil			1	P. R.
<i>Pachyzancla perusalis</i> (Wlk.) (Pyraustidae): <i>Solanum melongena</i> (eggplant)	Cuba	3			N. Y.
<i>Pagiocerus rimosus</i> Eiehh. (Scolytidae): <i>Zea mays</i> (corn)	Peru	3			Calif.*, N. Y.
<i>Palaeopus costicollis</i> Marsh. (Curculionidae): <i>Dioscorea</i> sp. (yam)	Jamaica	1			N. Y.
<i>Ipomoea batatas</i> (sweetpotato)	Guadeloupe, Jamaica	1	1		N. Y.
<i>Pantomorus xanthographus</i> Germ. (Curculionidae): <i>Vitis</i> sp. (grape)	Argentina	3			N. Y.
Packing for grapes	do	1			N. Y.
<i>Paragonatus divergens</i> (Dist.) (Lygaeidae): <i>Cattleya</i> sp. (orchid)	Colombia			1	D. C.

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<i>Parallelodiplosis cattleyae</i> Moll. (Cecidomyiidae):					
<i>Oncidium</i> sp. (orchid).....	Mexico.....	1			Tex.
<i>Parandra polita</i> Say (Cerambycidae):					
<i>Taheba donnel-smithii</i> (primavera):..	Guatemala.....	1			N. Y.
<i>Parlatoria camelliae</i> Comst. (Coccidae):					
<i>Camellia japonica</i> (camellia).....	Japan.....			10	Calif.* , D. C., Wash.
<i>Camellia sasanqua</i> (sasanqua tea).....	do.....			1	Calif.*
<i>Camellia</i> sp.....	do.....			2	Wash.
<i>Parlatoria cinerea</i> Hadden (Coccidae):					
<i>Citrus aurantifolia</i> (sour lime).....	Mexico.....	1			Tex.
<i>Citrus sinensis</i> (orange).....	Argentina, Brazil.....	1	1		Fla.*
<i>Citrus</i> sp.....	Brazil.....			1	D. C.
<i>Parlatoria crotonis</i> Doug. (Coccidae):					
<i>Codiaeum</i> sp. (croton).....	Hawaii.....	1		1	Calif.*
<i>Parlatoria oleae</i> (Colyee) (Coccidae):					
<i>Malus sylvestris</i> (apple).....	Italy.....	1			N. Y.
<i>Malus</i> sp.....	do.....			1	D. C.
<i>Prunus domestica</i> (plum).....	Argentina.....	6			N. Y.
<i>Prunus</i> sp.....	Italy.....			1	D. C.
<i>Ribes nigrum</i> (European black currant).	do.....	1			N. Y.
<i>Parlatoria pseudaspidiotus</i> Ldgr. (Coccidae):					
<i>Aerides</i> sp. (orchid).....	Philippines.....			1	N. J.
<i>Dendrobium nobile</i> (orchid).....	Thailand.....			1	Calif.*
<i>Dendrobium</i> sp.....	do.....			1	Calif.*
<i>Vanda purpurea</i> (orchid).....	do.....			1	Calif.*
<i>Vanda teres</i> (orchid).....	Jamaica, Japan, Philippines.			3	Hawaii.* N. J.
<i>Vanda teres alba</i>	Thailand.....			1	Calif.*
<i>Vanda teres andersoni</i>	Japan, Philippines, Thailand.			3	Calif.* , Hawaii.*
<i>Vanda teres aurea</i>	Philippines.....			1	Hawaii.*
<i>Vanda teres giganteum</i>	Japan.....			1	Hawaii.*
<i>Vanda teres grandiflora</i>	Japan, Philippines.....			2	Hawaii.*
<i>Vanda</i> sp.....	Philippines, Straits Settlements, Thailand.			5	Calif.* , N. J., Wash.
<i>Parlatoria theae</i> Ckll. (Coccidae):					
<i>Acer</i> sp. (maple).....	Japan.....		1	1	N. Y., Wash.
<i>Prunus</i> sp.....	do.....			1	Calif.*
<i>Parlatoria ziziphus</i> (Lucas) (Coccidae):					
<i>Citrus aurantifolia</i> (lime).....	Java.....		1		Mass.
<i>Citrus grandis</i> (grapefruit).....	China.....		1		Calif.*
<i>Citrus nobilis deliciosa</i> (tangerine).....	Java.....		1		N. Y.
<i>Paromius longulus</i> (Dall.) (Lygaeidae):					
<i>Pinus</i> sp. (pine).....	Mexico.....	1			Tex.
<i>Pealius hibisci</i> (Kot.) (Aleyrodidae):					
<i>Hibiscus</i> sp.....	Hawaii.....			3	Calif.*
<i>Pectinophora gossypiella</i> (Saund.) (Gelechiidae):					
<i>Gossypium</i> sp. (cottonseed).....	Bahamas, Brazil, Hawaii, India, Mexico, Puerto Rico.	5	3	5	Calif.* , D. C., Fla.* , La., Mass., N.Y., Pa., Tex.
<i>Gossypium</i> sp. (seed cotton).....	Cuba, Mexico.....	3	2		Fla.* , Tex.
<i>Gossypium</i> sp. (cotton) (boll).....	Argentina, Hawaii.....	2	3		Calif.* , Pa.
<i>Gossypium</i> sp. (cotton) (linter).....	Brazil.....	1			N. Y.
<i>Gossypium</i> sp. (cotton).....	Bahamas.....	1			Fla.*
<i>Hibiscus esculentus</i> (okra).....	Brazil, St. Vincent.....		2		Mass., N. Y.
<i>Penichroa fasciata</i> Steph. (Cerambycidae):					
Wooden hoops.....	Spain.....	1			N. Y.
<i>Phaedon incertum</i> Baly (Chrysomelidae):					
<i>Diospyros</i> sp. (persimmon).....	Japan.....		1		Mass.
<i>Phelomerus aberrans</i> (Sharp) (Bruchidae):					
<i>Cassia ferruginea</i>	Brazil.....			1	D. C.
<i>Cassia fistula</i> (golden-shower).....	Panama.....	4			N. Y.
<i>Cassia moschata</i>	Canal Zone.....			1	N. J.
<i>Phenacaspis eugeniae</i> (Mask.) (Coccidae):					
<i>Mangifera indica</i> (mango).....	Hawaii.....			3	Calif.*
<i>Tristania conferta</i> (Brsibane-box).....	Australia.....			1	Calif.*
<i>Phenacaspis fujicola</i> Kuw. (Coccidae):					
<i>Wisteria multijuga</i> (longcluster wisteria).	Japan.....			1	N. J.

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<i>Phenacoccus gossypii</i> Towns. & Ckll. (Coccidae):					
<i>Antirrhinum majus</i> (snapdragon).....	Mexico.....	1			Ariz.
<i>Chrysanthemum</i> sp.....	do.....	2			Ariz., Tex.
<i>Lilium</i> sp. (lily).....	Bermuda.....	1			D. C.
<i>Pelargonium</i> sp. (geranium).....	Mexico.....	1		2	Ariz., Tex.
<i>Verbena</i> sp.....	do.....	1			Ariz.
<i>Zinnia</i> sp.....	do.....	1			Tex.
<i>Philophylla heraclei</i> (L.) (Euribiidae):					
<i>Apium graveolens</i> (celery).....	England.....		1		N. Y.
<i>Phlepsius distinctus</i> Lathr. (Cicadellidae):					
<i>Brassica</i> sp. (mustard).....	Mexico.....	1			Tex.
<i>Lactuca sativa</i> (lettuce).....	do.....	1			Tex.
<i>Phormesium virgulatum</i> Bates (Cerambycidae):					
<i>Cassia fistula</i> (golden-shower).....	Honduras.....		1		La.
<i>Phyllotreta atra</i> (F.) (Chrysomelidae):					
<i>Helleborus niger</i> (Christmas-rose).....	England.....			1	N. J.
<i>Phyllotreta pusilla</i> Horn (Chrysomelidae):					
<i>Beta vulgaris cicla</i> (Swiss chard).....	Mexico.....	1			Tex.
<i>Brassica rapa</i> (turnip).....	do.....	4			Tex.
<i>Brassica</i> sp. (mustard).....	do.....	2			Tex.
<i>Daucus carota</i> (carrot).....	do.....	1			Calif.
<i>Raphanus sativus</i> (radish).....	do.....	1			Tex.
<i>Spinacia oleracea</i> (spinach).....	do.....	1			Tex.
<i>Phyllotreta vittata discedens</i> Weise (Chrysomelidae):					
<i>Brassica chinensis</i> (white greens).....	Cuba.....	9			N. Y.
<i>Brassica</i> sp. (mustard).....	do.....	8			N. Y.
<i>Coriandrum sativum</i> (coriander).....	do.....	1			N. Y.
<i>Raphanus sativus longipinnatus</i> (radish).....	do.....	2			N. Y.
<i>Pinnaspis buzi</i> (Bouche) (Coccidae):					
Palm.....	Japan.....		1		Calif.*
<i>Pinnaspis minor strachani</i> Cooley (Coccidae):					
<i>Dombeya</i> sp.....	Cuba.....			1	D. C.
<i>Euphoria longana</i> (longan).....	do.....	1			N. Y.
<i>Pinnaspis townsendi</i> (Ckll.) (Coccidae):					
<i>Cymbidium finlaysonianum</i> (orchid).....	Philippines.....			1	Calif.*
<i>Dendrobium</i> sp. (orchid).....	Straits Settlements.....			1	N. J.
<i>Vanda tricolor</i> (orchid).....	Australia.....			2	Hawaii.*
<i>Pionea forficatis</i> (L.) (Fyraustidae):					
<i>Brassica oleracea botrytis</i> (cauliflower).....	England.....		1		N. Y.
<i>Placosternum crinicornis</i> (Chevr.) (Cerambycidae):					
<i>Lactuca sativa</i> (lettuce).....	Mexico.....	1			Tex.
<i>Plagioderia thymaloides</i> Stal (Chrysomelidae):					
Orchid.....	do.....	1		1	Tex.
<i>Platynota rostrana</i> (Wlk.) (Tortricidae):					
<i>Capsicum annuum</i> (pepper).....	Cuba.....	4			N. Y.
<i>Coriandrum sativum</i> (coriander).....	do.....	1			N. Y.
<i>Musa paradisiaca</i> (plantain).....	do.....	1			N. Y.
<i>Solanum melongena</i> (eggplant).....	do.....	1			N. Y.
<i>Platynota stultana</i> (Wlsm.) (Tortricidae):					
<i>Brassica rapa</i> (turnip).....	Mexico.....	2			Tex.
<i>Capsicum annuum</i> (pepper).....	do.....	229			Ariz., Tex.
<i>Lycopersicon esculentum</i> (tomato).....	do.....	16			Ariz., Tex.
<i>Solanum melongena</i> (eggplant).....	do.....	1			Ariz.
<i>Platypus australis</i> Chap. (Platypodidae):					
<i>Juglans</i> sp. (walnut).....	Australia.....	2			Va.
<i>Platypus exaratus</i> Blandf. (Platypodidae):					
<i>Tabebuia donnell-smithii</i> (primavera).....	Guatemala.....	2			N. Y.
<i>Platypus poriferus</i> Chapuis (Platypodidae):					
<i>Guaiacum officinale</i> (lignumvitae).....	do.....	1			Wash.
<i>Tabebuia donnell-smithii</i> (primavera).....	do.....	1			N. Y.
<i>Platypus rugulosus</i> Chapuis (Platypodidae):					
<i>Tabebuia donnell-smithii</i> (primavera).....	Guatemala.....	3			La., N. Y.
<i>Podisus acutissimus</i> Stal (Pentatomidae):					
<i>Gardenia florida</i> (Cape-jasmine).....	Mexico.....	1			Tex.

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<i>Podisus rubromaculatus</i> Dist. (Pentatomidae):					
<i>Gardenia florida</i> (Cape-jasmine)-----	Mexico-----	1			Tex.
<i>Polymerus basalus</i> (Reut.) (Miridae):					
<i>Chrysanthemum mazimum</i> (shasta daisy)-----	do-----	1			Tex.
<i>Chrysanthemum</i> sp-----	do-----	1			Tex.
<i>Prairiana sidana</i> Ball (Cicadellidae):					
<i>Pisum sativum</i> (pea)-----	do-----	1			Ariz.
<i>Pronotacantha annulata</i> Uhl. (Neididae):					
<i>Capsicum annuum</i> (pepper)-----	do-----	1			Ariz.
<i>Zinnia</i> sp-----	do-----	1			Ariz.
<i>Protoperulnaria pyriformis</i> (Ckll.) (Coccidae):					
<i>Gardenia florida</i> (Cape-jasmine)-----	Mexico, Venezuela-----	2			N. Y., Tex.
<i>Pseudaonidia clavigera</i> Ckll. (Coccidae):					
<i>Eugenia alba</i> -----	Hawaii-----			1	Calif.*
<i>Eugenia dombeyi</i> (grumixameira-tree)-----	do-----			1	Calif.*
<i>Ilibiscus</i> sp-----	do-----			1	Calif.*
<i>Myricaria</i> sp-----	Canal Zone-----			1	D. C.
<i>Pseudaonidia duplex</i> (Ckll.) (Coccidae):					
<i>Azalea</i> sp-----	Japan-----			1	Wash.
<i>Camellia japonica</i> (camellia)-----	do-----			6	Wash.
<i>Citrus aurantium</i> (sour orange)-----	do-----		2		Calif.,* Fla.*
<i>Citrus nobilis deliciosa</i> (Mandarin orange)-----	do-----	2			Wash.
<i>Corylopsis</i> sp-----	do-----			1	Wash.
<i>Magnolia</i> sp-----	do-----			2	Wash.
<i>Rhododendron</i> sp-----	do-----			1	Wash.
<i>Styrax obassia</i> (fragrant snowball)-----	do-----			1	Calif.*
<i>Pseudaonidia paeoniae</i> (Ckll.) (Coccidae):					
<i>Azalea indica</i> (azalea)-----	do-----			3	Calif.,* Wash.
<i>Camellia japonica</i> (camellia)-----	do-----			2	Wash.
<i>Camellia sasanqua</i> (sasanqua tea)-----	do-----			1	Calif.*
<i>Pseudaonidia tesserata</i> (deCharm.) (Coccidae):					
<i>Ilibiscus</i> sp-----	Hawaii-----			2	Calif.*
<i>Panax</i> sp-----	do-----			1	Calif.*
<i>Vitis</i> sp. (grape)-----	Haiti-----			1	N. J.
<i>Pseudaonidia trilobitiformis</i> (Green) (Coccidae):					
<i>Laurus nobilis</i> (Grecian laurel)-----	Brazil-----		1		N. Y.
<i>Pseudischnaspis alienus</i> (Newst.) (Coccidae):					
<i>Annona cherimola</i> (Jamaica apple)-----	Cuba-----		1		Fla.*
<i>Cattleya skinneri</i> (orchid)-----	Costa Rica-----			3	Calif., N. J.
<i>Cattleya skinneri alba</i> -----	do-----			1	N. J.
<i>Epidendrum macrocarpum</i> (orchid)-----	Canal Zone-----			1	Calif.*
<i>Epidendrum radicans</i> -----	do-----			1	Calif.*
<i>Oncidium altissimum</i> (orchid)-----	Guatemala-----			1	Calif.*
Orchid-----	Costa Rica, Mexico-----			2	N. J., Tex.
<i>Pseudischnaspis bowreyi</i> (Ckll.) (Coccidae):					
<i>Annona</i> sp-----	Puerto Rico-----	1			N. Y.
<i>Epidendrum</i> sp. (orchid)-----	Guatemala-----			1	Calif.*
<i>Pseudococcus boninensis</i> (Kuw.) (Coccidae):					
<i>Iris</i> sp-----	Bermuda-----			1	N. Y.
<i>Saccharum officinarum</i> (sugarcane)-----	Bahamas, Cuba, Mexico, Portugal-----	6	1		Fla.,* N. Y., Tex.
<i>Pseudococcus gahani</i> (Green) (Coccidae):					
<i>Amygdalus persica nectarina</i> (nectarine)-----	Chile-----	2			N. Y.
<i>Pseudococcus lilacinus</i> Ckll. (Coccidae):					
<i>Phalaenopsis aphrodite</i> (orchid)-----	Philippines-----			1	Calif.*
<i>Phalaenopsis grandiflora</i> -----	do-----			1	Calif.*
<i>Phalaenopsis rosea</i> -----	do-----			1	Calif.*
<i>Renanthera storiei</i> (orchid)-----	do-----			1	Hawaii.*
<i>Vanda sanderiana</i> (orchid)-----	do-----			1	Hawaii.*
<i>Pseudococcus nipae</i> (Mask.) (Coccidae):					
<i>Odontoglossum</i> sp. (orchid)-----	Costa Rica-----			1	N. J.
<i>Pseudodiaspis yuccae</i> (Ckll.) (Coccidae):					
<i>Pachycereus pecten-aboriginum</i> (cactus)-----	Mexico-----			1	N. J.
<i>Pseudoparlatoria ostreata</i> (Ckll.) (Coccidae):					
<i>Carica papaya</i> (papaya)-----	Puerto Rico-----		1		Ga.

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<i>Psylliodes chrysocephala</i> L. (Chrysomelidae):					
<i>Brassica campestris</i> (rutabaga)	England		1		Pa.
<i>Brassica oleracea</i> (wild cabbage)	Portugal		1		N. Y.
<i>Brassica rapa</i> (turnip)	England		1		N. Y.
<i>Pteleobius vittatus</i> (F.) (Scolytidae):					
<i>Ulmus</i> sp. (elm)	do	1			N. Y.
<i>Ptinus huesanus</i> Fisher (Ptinidae):					
<i>Limonium</i> sp. (sea lavender)	Bahamas			1	N. Y.
<i>Ptinus tectus</i> Boisd. (Ptinidae):					
<i>Magnolia delavayi</i>	England			1	Wash.
<i>Magnolia soulangeana alba</i>	do			1	Wash.
<i>Ptychopoda bonifata</i> (Hlst.) (Geometridae):					
Medicinal herb	Mexico	1			Tex.
<i>Pulvinaria floccifera</i> (Westw.) (Coccidae):					
<i>Anthurium scherzerianum</i> (anthurium)	Japan			1	Hawaii.*
<i>Cymbidium</i> sp. (orchid)	England			3	D. C., N. J.
<i>Oncidium</i> sp. (orchid)	Costa Rica			2	N. J.
<i>Pulvinaria psidii</i> Mask. (Coccidae):					
<i>Chrysophyllum cainito</i> (star-apple)	Bahamas		1		Fla.*
<i>Gardenia florida</i> (Cape-jasmine)	Bahamas, Cuba	2			Fla.*
<i>Pitiosporum</i> sp.	Cuba		1		Fla.*
<i>Puto mexicanus</i> Ckll. (Coccidae):					
<i>Cephalocereus senilis</i> (old-man cactus)	Mexico			2	Tex.
Orchid	do			1	Tex.
<i>Puto yuccae</i> (Coq.) (Coccidae):					
<i>Cereus marginatus</i> (cactus)	do			1	Tex.
<i>Echinofossulocactus pentacantha</i> (cactus)	do			1	Tex.
<i>Pyrausta nubilalis</i> (Hbn.) (Pyraustidae):					
<i>Zea mays</i> (corn)	Japan		3		Wash.
<i>Pyropus sapphirinus</i> Gyll. (Curculionidae):					
<i>Brassica</i> sp. (mustard)	Cuba	1			N. Y.
<i>Renocis mexicanus</i> Blekm. (Scolytidae):					
Wooden frame of leather chairs	Mexico	1			Tex.
Wood crating	do	4			Ariz.
<i>Rhagoletis pomonella</i> (Walsh) (Euribiidae):					
<i>Crataegus</i> sp. (red haw)	do	2			Tex.
<i>Malus sylvestris</i> (apple)	do	2			Tex.
<i>Rhinochenus stigma</i> L. (Curculionidae):					
<i>Hymenaea courbaril</i> (West Indian locust)	Trinidad		1		Ala.
<i>Rhipiruchus picturatus</i> (Fahr.) (Bruchidae):					
<i>Prosopis nigra</i>	Uruguay			1	N. J.
<i>Rhopalosiphoninus tulipaellus</i> (Theob.) (Aphidiidae):					
<i>Tulipa</i> sp.	Canada, England			7	N. Y., Wash.
<i>Rhynchites mexicanus</i> Boh. (Curculionidae):					
<i>Lactuca sativa</i> (lettuce)	Mexico	1			Tex.
<i>Ribua invaria</i> Hein. (Phycitidae):					
<i>Ananas sativus</i> (pineapple)	Cuba	56	4		La., N. Y.
<i>Romaleum rufulum</i> (Hald.) (Cerambycidae):					
<i>Prosopis</i> sp. (mesquite)	Mexico	1			Tex.
<i>Schoenobius bipunctiferus</i> (Wlk.) (Schoenobiidae):					
<i>Oryza sativa</i> (rice)	China		1		Tex.
<i>Scelopostethus decoratus</i> (Hahn) (Lygaeidae):					
Moss packing	England			1	N. J.
<i>Scolytus multistriatus</i> (Marsh.) (Scolytidae):					
<i>Ulmus</i> sp. (elm)	do	3			N. Y.
<i>Scolytus scolytus</i> (F.) (Scolytidae):					
<i>Ulmus</i> sp. (elm)	do	5			N. Y.
<i>Setomorpha insectella</i> (F.) (Tineidae):					
<i>Allium sativum</i> (garlic)	Mexico	3			Tex.
<i>Cephalocereus</i> sp. (cactus)	do			1	N. J.
<i>Dioscorea</i> sp. (yam)	Virgin Islands	1			N. Y.
<i>Eucharis</i> sp.	Barbados			1	N. J.
<i>Mammillaria haageana</i> (cactus)	Mexico			1	Calif.*

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<i>Sinorylon anale</i> Lesne (Bostrichidae): <i>Derris scandens</i> (Malay jewel vine) ---	British Malaya, Philip- pines.	3			N. Y.
Wood used as crate -----	French Indo-China, India.	2			N. Y.
<i>Sinorylon conigerum</i> Gerst. (Bostrichidae): <i>Derris scandens</i> -----	Philippines	1			N. Y.
Wood -----	French Indo-China	1			N. Y.
<i>Sisamnes contractus</i> Dist. (Lygaeidae): <i>Ananas sativus</i> (pineapple) -----	Mexico -----	5			Tex.
<i>Sitona lineata</i> L. (Curculionidae): <i>Acer palmatum dissectum</i> -----	Canada -----			1	Wash.
<i>Sizeonotus areolatus</i> Kngt. (Miridae): <i>Lactuca sativa</i> (lettuce) -----	Mexico -----	1			Tex.
<i>Spragueia leo</i> (Gn.) (Phalaenidae): <i>Aralia chinensis mandshurica</i> -----	England -----			1	N. J.
<i>Stephanitis pyrioides</i> Scott (Tingitidae): <i>Azalea</i> sp. -----	Japan -----		1		Wash.
<i>Stephanoderes buscki</i> Hopk. (Scolytidae): <i>Bertholletia nobilis</i> (Brazil nut) -----	Brazil -----	1			N. Y.
<i>Stephanoderes guatemalensis</i> Hopk. (Scolytidae): <i>Moringa oleifera</i> (horseradish-tree) -----	Dominican Republic -----			1	P. R.
<i>Stephanoderes hampei</i> Ferr. (Scolytidae): <i>Coffea</i> sp. -----	Angola, British East Africa, Ethiopia, Por- tugal, Sumatra.	6			N. Y.
<i>Sternechus paludatus</i> Csy. (Curculioni- dae): <i>Phaseolus</i> sp. (string bean) -----	Mexico -----	1			Ariz.
<i>Sternochetus mangiferae</i> (F.) (Curculioni- dae): <i>Mangifera indica</i> (mango) -----	Hawaii, Philippines -----	2	2		Calif.*
<i>Stictocephala rotundata</i> Stal (Membraci- dae): <i>Brassica chinensis</i> (white greens) -----	Cuba -----	1			N. Y.
<i>Strategus simson</i> L. (Scarabaeidae): <i>Musa</i> sp. (banana) -----	Jamaica -----	1			Tex.
<i>Systema basalis</i> Duv. (Chrysomelidae): <i>Brassica chinensis</i> (white greens) -----	Cuba -----	3			N. Y.
<i>Brassica oleracea acephala</i> (kale) -----	do -----	1			N. Y.
<i>Brassica</i> sp. (mustard) -----	do -----	3			N. Y.
<i>Chrysanthemum coronarium</i> (crown daisy) -----	do -----	2			N. Y.
<i>Taeniothrips atratus</i> (Hal.) (Thripidae): <i>Dianthus</i> sp. (carnation) -----	Canada -----	1			Wash.
<i>Taeniothrips dianthi</i> Pr. (Thripidae): <i>Dianthus</i> sp. (carnation) -----	Europe -----	1			N. Y.
<i>Taeniothrips ericae</i> (Hal.) (Thripidae): <i>Calluna vulgaris</i> (heather) -----	Scotland -----			1	N. Y.
<i>Taeniothrips fumosa</i> Tryb. (Thripidae): <i>Ornithogalum thyrsoides</i> (chinkerichiee)	Union of South Africa -----	1			Ill.
<i>Taeniothrips gracilis</i> Mlt. (Thripidae): <i>Lycoris</i> sp. -----	Japan -----			1	Wash.
<i>Taeniothrips simplex</i> (Mor.) (Thripidae): <i>Dianthus</i> sp. (carnation) -----	Mexico -----	1			Tex.
<i>Gladiolus</i> sp. -----	do -----	11			Tex.
<i>Gypsophila paniculata</i> (babysbreath) -----	do -----	2			Tex.
Orchid -----	Venezuela -----	1			Fla.*
<i>Polianthes tuberosa</i> (tuberose) -----	Mexico -----	1			Tex.
<i>Rosa</i> sp. -----	Cuba -----	1			Fla.*
<i>Taeniothrips xanthius</i> Hood (Thripidae): <i>Anthurium scherzerianum</i> (anthuri- um) -----	Japan -----			1	Hawaii.*
<i>Targionia bromeliae</i> ("Newst." Leon.) (Coccidae): <i>Ananas bracteatus</i> -----	Brazil -----			1	Hawaii.*
<i>Ananas sativus</i> (pineapple) -----	Azores, Cuba -----	7			Fla., N. Y.
<i>Targionia hartii</i> (Ckll.) (Coccidae): <i>Dioscorea</i> sp. (yam) -----	American Virgin Islands, Barbados, Cuba, St. Vincent.	4	1		Fla., Mass., N. Y., P. R.
<i>Zingiber officinale</i> (ginger) -----	St. Lucia -----	1			N. Y.
<i>Targionia sacchari</i> (Ckll.) (Coccidae): <i>Saccharum officinarum</i> (sugarcane) -----	Bahamas, Cuba, Guate- mala, Puerto Rico, West Indies.	4	3		Fla., Mass., N. Y.

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<i>Teleonemia nigrina</i> Champ. (Tingitidae):					
<i>Chrysanthemum</i> sp.-----	Mexico-----	1-----			Tex.
<i>Nerium oleander</i> (oleander)-----	do-----	1-----			Tex.
<i>Teleonemia scrupulosa</i> Stal (Tingitidae):					
<i>Chrysanthemum</i> sp.-----	do-----	1-----			Tex.
<i>Rosa</i> sp.-----	do-----	1-----			Tex.
<i>Tenthecoris bicolor</i> Scott (Miridae):					
<i>Cattleya gigas</i> (orchid)-----	Colombia-----			1	Calif.*
<i>Cattleya lueddemanniana</i> -----	Venezuela-----			1	N. J.
<i>Cattleya</i> sp.-----	Brazil, Colombia, Ven- ezuela.			9	N. J.
<i>Oncidium</i> sp. (orchid)-----	Guatemala-----			1	N. J.
Orchid-----	Brazil, Colombia, Ven- ezuela.			6	N. J.
<i>Tesserocerus dejeani</i> Chapuis (Platypodi- dae):					
<i>Tabebuia donnell-smithii</i> (primavera)-----	Guatemala-----	2-----			N. Y.
<i>Tetraleurodes acaciae</i> (Q.) (Aleyrodidae):					
<i>Laurus nobilis</i> (Grecian laurel)-----	Mexico-----	1-----			Tex.
<i>Tetraleurodes mori</i> (Q.) (Aleyrodidae):					
<i>Citrus sinensis</i> (orange)-----	do-----	1-----			Ariz.
<i>Citrus</i> sp.-----	do-----	1-----			Ariz.
<i>Gardenia florida</i> (Cape-jasmine)-----	do-----	1-----			Tex.
<i>Hibiscus</i> sp.-----	do-----			1	Ariz.
<i>Lippia</i> sp.-----	do-----	1-----			Tex.
<i>Tetrapriocera longicornis</i> (Oliv.) (Bostri- chidae):					
<i>Cedrus</i> sp. (cedar)-----	Honduras-----	1-----			N. Y.
<i>Thrips nigropilosus</i> Uzel (Thripidae):					
<i>Chrysanthemum</i> sp.-----	Canada-----	1-----			Hawaii.*
<i>Thyanta accerra</i> McA. (Pentatomidae):					
<i>Lactuca sativa</i> (lettuce)-----	Mexico-----	1-----			Tex.
<i>Toxotrypana curvicauda</i> Gerst. (Euri- biidae):					
<i>Carica papaya</i> (papaya)-----	do-----	1-----			Tex.
<i>Trionymus sacchari</i> (Ckll.) (Coccidae):					
<i>Saccharum officinarum</i> (sugarcane)-----	American Virgin Is- lands, Canal Zone, Cuba, Mexico, Tahiti.	5-----		2	Calif.*, D. C., N. Y., Tex.
<i>Vinsonia stellifera</i> (Westw.) (Coccidae):					
<i>Epidendrum ciliare</i> (orchid)-----	Canal Zone-----			1	N. J.
<i>Izora</i> sp.-----	British Honduras-----	1-----			Fla.*
Orchid-----	Canal Zone, Dominican Republic, Jamaica, Trinidad.			4	D. C., P. R.
<i>Xanthophthalma concinnum</i> Ckll. & Par. (Coccidae):					
<i>Cocos nucifera</i> (coconut)-----	Honduras-----		1		La.
<i>Xestocoris collinus</i> (Dist.) (Lygaeidae):					
<i>Cattleya boweringiana</i> (orchid)-----	Guatemala-----			1	N. J.
<i>Xyleborus affinis</i> Eichh. (Scolytidae):					
<i>Cedrus</i> sp. (cedar)-----	Honduras-----	1-----			N. Y.
<i>Tabebuia donnell-smithii</i> (primavera)-----	Guatemala-----	1-----			La.
<i>Theobroma</i> sp.-----	Brazil-----		1		N. Y.
<i>Xyleborus confusus</i> Eichh. (Scolytidae):					
<i>Tabebuia donnell-smithii</i> (primavera)-----	Guatemala, Mexico-----	8-----			La., N. Y.
<i>Xyleborus fuscatus</i> Eichh. (Scolytidae):					
<i>Cedrus</i> sp. (cedar)-----	Honduras-----	2-----			N. Y.
<i>Guaiacum officinale</i> (lignum vitae)-----	Canal Zone-----		1		N. Y.
<i>Tabebuia donnell-smithii</i> (primavera)-----	Mexico-----	1-----			N. Y.
<i>Xyleborus macer</i> Bldfd. (Scolytidae):					
<i>Tabebuia donnell-smithii</i> -----	Guatemala-----	3-----			La., N. Y.
<i>Xyleborus monigerus</i> Bldfd. (Scolytidae):					
<i>Dendrobium phalaenopsis</i> (orchid)-----	Australia-----			1	Calif.*
<i>Dendrobium spectabile</i> -----	do-----			1	Calif.*
<i>Xyleborus propinquus</i> Eichh. (Scolytidae):					
<i>Cedrela</i> sp.-----	Colombia-----	1-----			N. Y.
<i>Cedrus</i> sp. (cedar)-----	Honduras-----	2-----			N. Y.
<i>Citrus aurantifolia</i> (lime)-----	Mexico-----	1-----			Tex.
<i>Iycopersicum esculentum</i> (tomato)-----	do-----	1-----			Tex.
<i>Swietenia mahogany</i> (mahogany)-----	Guatemala-----	1-----			La.
<i>Xylothrips flavipes</i> (Ill.) (Bostri- chidae):					
Wooden case with guttapercha-----	Java-----	3-----			Mass.

List of pests collected and reported from July 1, 1940, to June 30, 1941, inclusive—Con.

Insect and host	Country of origin	Number of inter-ceptions in—			Collected in—
		Con-sump-tion	Non-en-try	Prop-aga-tion	
<i>Zabrotes subfasciatus</i> (Boh.) (Bruchidae):					
<i>Ananas sativus</i> (pineapple)	Cuba	1			La.
Bean	Brazil, Honduras, Mex-ico.	79	4		La., N. Y., Tex.
<i>Chrysanthemum</i> sp.	Mexico	3			Tex.
<i>Lycopersicon esculentum</i> (tomato)	do	1			Tex.
<i>Oryza sativa</i> (rice)	do	1			Tex.
<i>Phaseolus lunatus macrocarpus</i> (Lima bean).	Cuba			3	Calif.*
<i>Phaseolus vulgaris</i>	Brazil			1	D. C.
<i>Phaseolus</i> sp. (string bean)	Mexico	1			Ariz.
<i>Tagetes</i> sp. (marigold)	do	1			Tex.
<i>Vigna sinensis</i> (cowpea)	Brazil			1	D. C.
<i>Zea mays</i> (corn)	Mexico	5			Tex.
<i>Zinnia</i> sp.	do	1			Tex.

Hosts and insects

ABIES:	ANTHURIUM:
<i>Chermes nusslini</i> (Homoptera)	<i>Ceroplastes rubens</i> (Homoptera)
ACACIA:	<i>Pulvinaria floccifera</i> (Homoptera)
<i>Acanthoscelides sallaei</i> (Coleoptera)	<i>Taeniothrips zanthus</i> (Thysanoptera)
ACER:	ANTIRRHINUM:
<i>Parlatoria theae</i> (Homoptera)	<i>Alloccoris incognita</i> (Hemiptera)
<i>Sitona lineata</i> (Coleoptera)	<i>Cyrtopeltis tenuis</i> (Hemiptera)
ACHRAS:	<i>Frankliniella fortissima</i> (Thysanoptera)
<i>Coccus viridis</i> (Homoptera)	<i>Frankliniella insularis</i> (Thysanoptera)
AGARICUS:	<i>Phenacoccus gossypii</i> (Homoptera)
<i>Nemapogon granella</i> (Lepidoptera)	APIUM:
AGLAONEMA:	<i>Anuraphis apiifolia</i> (Homoptera)
<i>Endrosis lacteella</i> (Lepidoptera)	<i>Philophylla heraclei</i> (Diptera)
ALLIUM CEPA:	ARALIA:
<i>Aeolus dorsalis</i> (Coleoptera)	<i>Spragueia leo</i> (Lepidoptera)
<i>Callosobruchus maculatus</i> (Coleoptera)	ARUNDINARIA:
<i>Draeculacephala minerva</i> (Hemiptera)	<i>Antonina crawii</i> (Homoptera)
<i>Epilachna varivestis</i> (Coleoptera)	<i>Antonina tobai</i> (Homoptera)
<i>Helichus productus</i> (Coleoptera)	<i>Chionaspis elongata</i> (Homoptera)
ALLIUM SATIVUM:	<i>Kuwanaspis pseudoleucaspis</i> (Homoptera)
<i>Ertprochiomera fuscicornis</i> (Hemiptera)	<i>Kuwanaspis vermiformis</i> (Homoptera)
<i>Ligyrocoris nitidulus</i> (Hemiptera)	<i>Odonaspis penicillata</i> (Homoptera)
<i>Setomorpha insectella</i> (Lepidoptera)	ASTER:
ALTHAEA:	<i>Haplothrips gowdeyi</i> (Thysanoptera)
<i>Frankliniella fortissima</i> (Thysanoptera)	ASTROPHYTUM —See Cactaceae
ALYXIA:	ATTALEA:
<i>Ceroplastes rubens</i> (Homoptera)	<i>Aspidiotus spinosus</i> (Homoptera)
MARYLLIS:	AUCUBA:
<i>Anaphothrips orchidii</i> (Thysanoptera)	<i>Aspidiotus destructor</i> (Homoptera)
AMYGDALUS COMMUNIS:	AZALEA:
<i>Aspidiotus destructor</i> (Homoptera)	<i>Gracilaria azaleella</i> (Lepidoptera)
AMYGDALUS PERSICA:	<i>Pseudaonidia duplex</i> (Homoptera)
<i>Anastrepha ludens</i> (Diptera)	<i>Pseudaonidia paoniae</i> (Homoptera)
<i>Conotrachelus nenuphar</i> (Coleoptera)	<i>Stephanitis pyrioides</i> (Hemiptera)
<i>Conotrachelus seniculus</i> (Coleoptera)	BAMBOO:
AMYGDALUS PERSICA NECTARINA:	<i>Asterolecanium mliaris longum</i> (Homoptera)
<i>Endrosis lacteella</i> (Lepidoptera)	<i>Formosaspis formosanus</i> (Homoptera)
<i>Pseudococcus gahani</i> (Homoptera)	<i>Heterobrotruchus aequalis</i> (Coleoptera)
ANANAS:	<i>Laemotmetus rhizophagoides</i> (Coleoptera)
<i>Acroleucus vicinalis</i> (Hemiptera)	<i>Lycotrylon japonum</i> (Coleoptera)
<i>Alpheias conspinata</i> (Lepidoptera)	<i>Myocalandra discors</i> (Coleoptera)
<i>Clerada apicicornis</i> (Hemiptera)	BAMBUSA:
<i>Cossonus excavatus</i> (Coleoptera)	<i>Antonina cravi</i> (Homoptera)
<i>Drasterius cribratus</i> (Coleoptera)	<i>Asterolecanium bambusae</i> (Homoptera)
<i>Iridomyrmex humilis</i> (Hymenoptera)	<i>Asterolecanium bambusicola</i> (Homoptera)
<i>Kaloterms minor</i> (Isoptera)	<i>Asterolecanium mliaris</i> (Homoptera)
<i>Ligyrocoris litigiosus</i> (Hemiptera)	<i>Chaetococcus bambusae</i> (Homoptera)
<i>Ligyrocoris nitidicollis</i> (Hemiptera)	<i>Odonaspis greeni</i> (Homoptera)
<i>Ritua innoxia</i> (Lepidoptera)	<i>Odonaspis penicillata</i> (Homoptera)
<i>Sisamnes contractus</i> (Hemiptera)	BANANA DEBRIS:
<i>Targionia bromeliae</i> (Homoptera)	<i>Metamasius sericeus</i> (Coleoptera)
<i>Zabrotes subfasciatus</i> (Coleoptera)	<i>Metamasius sericeus carbonarius</i> (Coleoptera)
ANNONA:	BEAN:
<i>Aspidiotus destructor</i> (Homoptera)	<i>Callosobruchus chinensis</i> (Coleoptera)
<i>Pseudischnaspis alienus</i> (Homoptera)	<i>Zabrotes subfasciatus</i> (Coleoptera)
<i>Pseudischnaspis boureyi</i> (Homoptera)	BERBERIS:
	<i>Liosomaphis berberidis</i> (Homoptera)

Hosts and insects—Continued

- BERTHOLLETTIA:**
Stephanoderes buscki (Coleoptera)
- BETA VULGARIS:**
Brochymena sulcata (Hemiptera)
Hyphantria textor (Lepidoptera)
- BETA VULGARIS CICLA:**
Caulotops agaris (Hemiptera)
Conotrachelus seniculus (Coleoptera)
Empoasca abrupta (Hemiptera)
Epilachna varitestis (Coleoptera)
Phyllotreta pusilla (Coleoptera)
- BRASSAYOLA**—See Orchidaceae
- BRASSICA**—See Orchidaceae
- BRASSICA ALBA:**
Cyrtopeltis varians (Hemiptera)
Hellula phidilealis (Lepidoptera)
- BRASSICA CAPESTRIS:**
Ceutorhynchus pleurostigma (Coleoptera)
Psylliodes chrysocephala (Coleoptera)
- BRASSICA CHINENSIS:**
Ceratocapsus cubanus (Hemiptera)
Cyrtopeltis tenuis (Hemiptera)
Hellula phidilealis (Lepidoptera)
Liriomyza flaveola (Diptera)
Nysius expressus (Hemiptera)
Orthaea scutellata (Hemiptera)
Ozophora burmeisteri (Hemiptera)
Phyllotreta vittata discedens (Coleoptera)
Stictocephala rotundata (Hemiptera)
Systena basalis (Coleoptera)
- BRASSICA OLERACEA:**
Psylliodes chrysocephala (Coleoptera)
- BRASSICA OLERACEA ACEPHALA:**
Hellula phidilealis (Lepidoptera)
Liriomyza flaveola (Diptera)
Systena basalis (Coleoptera)
- BRASSICA OLERACEA BOTRYTIS:**
Pionera forficatis (Lepidoptera)
- BRASSICA OLERACEA CAPITATA:**
Parathra brassicae (Lepidoptera)
Eumecosomyia nubila (Diptera)
Hellula undalis (Lepidoptera)
Metriana prostrigata (Coleoptera)
Nabis punctipennis (Hemiptera)
- BRASSICA RAPA:**
Catorhintha guttata (Hemiptera)
Ceratocapsus punctulatus (Hemiptera)
Ceutorhynchus pleurostigma (Coleoptera)
Cyrtopeltis varians (Hemiptera)
Dactylosternum abdominale (Coleoptera)
Hellula phidilealis (Lepidoptera)
Hyphantria textor (Lepidoptera)
Nabis alternata (Hemiptera)
Nysius minutus (Hemiptera)
Nysius monticola (Hemiptera)
Phyllotreta pusilla (Coleoptera)
Platynota stultana (Lepidoptera)
Psylliodes chrysocephala (Coleoptera)
- BRASSICA SP.** (mustard)
Conoderus bifoveolatus (Coleoptera)
Cymoninus notabilis (Hemiptera)
Cyrtopeltis tenuis (Hemiptera)
Cyrtopeltis varians (Hemiptera)
Deloyala lecontei (Coleoptera)
Draeculacephala minerva (Hemiptera)
Euphyryus parvicollis (Coleoptera)
Geocoris sonoraensis (Hemiptera)
Haplothrips gowdeyi (Thysanoptera)
Hellula phidilealis (Lepidoptera)
Hellula undalis (Lepidoptera)
Hyphantria textor (Lepidoptera)
Iridomyrmex humilis (Hymenoptera)
Leucopoeila albofasciata (Hemiptera)
Liriomyza flaveola (Coleoptera)
Lygus elisus (Hemiptera)
Lygus hesperius (Hemiptera)
Nabis alternatus (Hemiptera)
Nysius minutus (Hemiptera)
Phlepsius distinctus (Hemiptera)
Phyllotreta pusilla (Coleoptera)
Phyllotreta vittata discedens (Coleoptera)
Pyropus sapphirinus (Coleoptera)
Systena basalis (Coleoptera)
- BROMELIAD:**
Gymnaspis aechmeae (Homoptera)
- CACTACEAE:**
Amphicerus cornutus (Coleoptera)
Catymaderus oblongus (Coleoptera)
Chelinidea canyoni (Hemiptera)
Chelinidea rittiger aequoris (Hemiptera)
- CACTACEAE—Continued.**
Lepidosaphes philococcus (Homoptera)
Ligyrocoris nitidicollis (Hemiptera)
Pseudodiaspis yuccae (Homoptera)
Puto mericanus (Homoptera)
Puto yuccae (Homoptera)
Setomorpha insectella (Lepidoptera)
- CAESALPINIA CORIARIA:**
Acanthoscelides dominicanus (Coleoptera)
- CAJANUS:**
Acanthoscelides armitagei (Coleoptera)
Callosobruchus chinensis (Coleoptera)
- CALAMUS:**
Dinoderus bifoveolatus (Coleoptera)
- CALLUNA:**
Coreyra cephalonica (Lepidoptera)
Micrelus ericae (Coleoptera)
Taeniothrips ericae (Thysanoptera)
- CAMELLIA:**
Aspidiotus degeneratus (Homoptera)
Ceroplastes ceriferus (Homoptera)
Ceroplastes floridensis (Homoptera)
Ceroplastes rubens (Homoptera)
Lepidosaphes camelliae (Homoptera)
Parlatoria camelliae (Homoptera)
Pseudanidia duplex (Homoptera)
Pseudanidia paenonia (Homoptera)
- CANAVALLIA:**
Cosmolyce boeticus (Lepidoptera)
- CAPSICUM:**
Dikraneura kunzei (Hemiptera)
Draeculacephala portola (Hemiptera)
Euzesta stigmatias (Diptera)
Faustinus cubae (Coleoptera)
Gnoriomoschema gudmannella (Lepidoptera)
Hyphantria textor (Lepidoptera)
Lorita abornana chatka (Lepidoptera)
Mozena lunata (Hemiptera)
Platynota rostrana (Lepidoptera)
Platynota stultana (Lepidoptera)
Pronotacantha annulata (Hemiptera)
- CARICA:**
Aspidiotus destructor (Homoptera)
Morganella longispina (Homoptera)
Pseudoparlatoria ostreata (Homoptera)
Toxotrypana curvicauda (Diptera)
- CASIMIROA:**
Anastrepha ludens (Diptera)
- CASSIA:**
Aganactes indecora (Lepidoptera)
Phelometer aberrans (Coleoptera)
Phormesium virgulatum (Coleoptera)
- CASTANEA:**
Laspeyresia splendana (Lepidoptera)
- CATTLEY**—See Orchidaceae
- CEDELEA:**
Xyleborus propinquus (Coleoptera)
- CEDRUS:**
Brentus mericanus (Coleoptera)
Dactylosternum abdominale (Coleoptera)
Hypsipyla grandella (Lepidoptera)
Tetrapriocera longicornis (Coleoptera)
Xyleborus affinis (Coleoptera)
Xyleborus fuscatus (Coleoptera)
Xyleborus propinquus (Coleoptera)
- CELOSIA:**
Erptochiamera fuscicornis (Hemiptera)
- CENTAUREA:**
Geocnethus semilivis (Hemiptera)
- CEPHALOCEREUS**—See Cactaceae
- CHENOPODIUM:**
Epicauta pardalis (Coleoptera)
Glyptina atriventris (Coleoptera)
Hyalopteris atriplicis (Homoptera)
- CHRYSANTHEMUM:**
Aeolus dorsalis (Coleoptera)
Amorbia emigratella (Lepidoptera)
Anacetrinus deplanatus (Coleoptera)
Chaetopsis fulvifrons (Diptera)
Corythucha morrilli (Hemiptera)
Cymoninus notabilis (Hemiptera)
Empoasca abrupta (Hemiptera)
Entylia sinuata (Hemiptera)
Erptochiamera minima (Hemiptera)
Frankliniella fortissima (Thysanoptera)
Geocnethus semilivis (Hemiptera)
Haplothrips gowdeyi (Thysanoptera)
Iridomyrmex pruinosus (Hymenoptera)
Ligyrocoris aurivilliana (Hemiptera)
Ligyrocoris setosus (Hemiptera)

Hosts and insects—Continued

CHRYSANTHEMUM—Continued.

Nabis alternatus (Hemiptera)
Ollarianus strictus (Hemiptera)
Phenacoccus gossypii (Homoptera)
Polymerus basalis (Hemiptera)
Systema basalis (Coleoptera)
Teleonemia nigrina (Hemiptera)
Teleonemia scrupulosa (Hemiptera)
Thrips nigropilosus (Thysanoptera)
Zabrotes subfasciatus (Coleoptera)

CHRYSOPHYLLUM:

Asterolecanium pustulans (Homoptera)
Pultritaria psidii (Homoptera)

CICER:

Callosobruchus chinensis (Coleoptera)
Callosobruchus maculatus (Coleoptera)
Caulophilus latinasus (Coleoptera)

CITRUS AURANTIFOLIA:

Aleurocanthus woglumi (Homoptera)
Chrysomphalus personatus (Homoptera)
Gnathotrichus consentaneus (Coleoptera)
Parlatoria cinerea (Homoptera)
Parlatoria ziziphus (Homoptera)
Xyleborus propinquus (Coleoptera)

CITRUS AURANTIUM:

Aleurocanthus woglumi (Homoptera)
Dialeurodes citri (Homoptera)
Pseudoaulonia duplex (Homoptera)

CITRUS GRANDIS:

Anastrepha fraterculus (Diptera)
Anastrepha ludens (Diptera)
Anastrepha serpentina (Diptera)
Anastrepha suspensa (Diptera)
Parlatoria ziziphus (Homoptera)

CITRUS LIMETTA:

Anastrepha ludens (Diptera)

CITRUS LIMONIA:

Aleurothrixus howardi (Homoptera)
Chrysomphalus personatus (Homoptera)

CITRUS NOBILIS DELICIOSA:

Ceratitis capitata (Diptera)
Chionaspis yanonensis (Homoptera)
Chrysomphalus bifasciculatus (Homoptera)
Parlatoria ziziphus (Homoptera)
Pseudoaulonia duplex (Homoptera)

CITRUS SINENSIS:

Anastrepha ludens (Diptera)
Ceratitis capitata (Diptera)
Chionaspis yanonensis (Homoptera)
Coccus viridis (Homoptera)
Dialeurodes citri (Homoptera)
Parlatoria cinerea (Homoptera)
Tetraleurodes mori (Homoptera)

CITRUS SP.:

Dialeurodes citrifolii (Homoptera)
Frankliniella cubensis (Thysanoptera)
Haplothrips gowdeyi (Thysanoptera)
Parlatoria cinerea (Homoptera)
Tetraleurodes mori (Homoptera)

COCOS:

Aspidiotus destructor (Homoptera)
Ceroplastes rubens (Homoptera)
Xanthophthalma concinnum (Homoptera)

CODIAEUM:

Lepidosaphes lasianthi (Homoptera)
Parlatoria crotonis (Homoptera)

COFFEA:

Ceratitis capitata (Diptera)
Coccus viridis (Homoptera)
Leucoptera coffeella (Lepidoptera)
Stephanoderes hampei (Coleoptera)

CORDYLINE:

Aonidiella inornata (Homoptera)

CORIANDRUM:

Liriomyza flaveola (Diptera)
Platynota rostrana (Lepidoptera)
Phyllotreta vittata discedens (Coleoptera)

CORYLOPSIS:

Pseudoaulonia duplex (Homoptera)

CRATAEGUS:

Rhagoletis pomonella (Diptera)

CRINUM:

Haplothrips gowdeyi (Thysanoptera)

CUCURBITA:

Eumecosomyia nubila (Diptera)
Ligyrocoris abdominalis (Hemiptera)

CYDONIA:

Aastrepha ludens (Diptera)

CYMBIDIUM—See Orchidaceae

CYPRIPEDIUM—See Orchidaceae

DAHLIA:

Centrinaspis picumnus (Coleoptera)
Ollarianus strictus (Hemiptera)
Onychobaris ambigua (Coleoptera)

DAISY:

Frankliniella fortissima (Thysanoptera)
Frankliniella insularis (Thysanoptera)
Haplothrips gowdeyi (Thysanoptera)

DAUCUS:

Amphicerus cornutus (Coleoptera)
Brochymena sulcata (Hemiptera)
Corythucha morrilli (Hemiptera)
Draeculacephala minerva (Hemiptera)
Empoasca abrupta (Hemiptera)
Haplothrips gowdeyi (Thysanoptera)
Hyphantria testor (Lepidoptera)
Phyllotreta pusilla (Coleoptera)

DELPHINIUM:

Frankliniella fortissima (Thysanoptera)
Opsius stactogalus (Hemiptera)

DENDROBIUM—See Orchidaceae

DERRIS:

Dinoderus bifoveolatus (Coleoptera)
Smoxylon anale (Coleoptera)
Smoxylon conigerum (Coleoptera)

DIANTHUS:

Brachyrhinus ovatus (Coleoptera)
Frankliniella fortissima (Thysanoptera)
Haplothrips cottei (Thysanoptera)
Taeniothrips atratus (Thysanoptera)
Taeniothrips dianthi (Thysanoptera)
Taeniothrips simplex (Thysanoptera)

DIGITARIA:

Antonina indica (Homoptera)

DIOCLEA:

Cosmolyce boeticus (Lepidoptera)
Maruca testulalis (Lepidoptera)

DIOSCOREA:

Palaeopus costicollis (Coleoptera)
Setomorpha insectella (Lepidoptera)
Targionia hartii (Homoptera)

DIOSPYROS:

Coryca cephalonica (Lepidoptera)
Phaedon incertum (Coleoptera)

DOMBEYA:

Cinnaspis minor strachani (Homoptera)

ENCEPHALARTOS:

Diaspis zamiae (Homoptera)

EPIDENDRUM—See Orchidaceae

ERIOBOTRYA

Lepidosaphes conchiformis (Homoptera)

EUCHARIS:

Setomorpha insectella (Lepidoptera)

EUGENIA:

Aonidiella eugeniae (Homoptera)
Asterolecanium pustulans (Homoptera)
Chrysomphalus rossi (Homoptera)
Neoclytus cacticus (Coleoptera)
Pseudoaulonia clavifera (Homoptera)

EUPHORIA:

Pinnaspis minor strachani (Homoptera)

FICUS:

Amphicerus cornutus (Coleoptera)
Ceratitis capitata (Diptera)
Ceroplastes rusci (Homoptera)
Gynaikothrips uzeli (Thysanoptera)

FRAGARIA:

Conotrachelus leucophaeatus (Coleoptera)
Exptochiamera oblonga (Hemiptera)
Ligyrocoris aurivilliana (Hemiptera)
Ligyrocoris nitidicollis (Hemiptera)
Orthaea scutellata (Hemiptera)

FRAXINUS:

Leperisinus frazini (Coleoptera)

FUCHSIA:

Brachyrhinus armadillo (Coleoptera)

GARDENIA:

Acroleucus tullus (Hemiptera)
Ceroplastes floridensis (Homoptera)
Coccus viridis (Homoptera)
Draeculacephala portola (Hemiptera)
Euphalerus nidifer (Hemiptera)
Euryophthalmus bipustulatus (Hemiptera)
Frankliniella cephalica (Thysanoptera)
Frankliniella fortissima (Thysanoptera)
Haplothrips gowdeyi (Thysanoptera)
Metriona erratica (Coleoptera)
Podisus acutissimus (Hemiptera)
Podisus rubromaculatus (Hemiptera)
Protospulvinaria pyriformis (Homoptera)

Hosts and insects—Continued

- GARDENIA**—Continued.
Pulvinaria psidii (Homoptera)
Tetraleurodes mori (Homoptera)
- GERBERIA**:
Frankliniella insularis (Thysanoptera)
Haplothrips gowdeyi (Thysanoptera)
- GINKGO**:
Homona menciiana (Lepidoptera)
- GLADIOLUS**:
Frankliniella fortissima (Thysanoptera)
Haplothrips gowdeyi (Thysanoptera)
Taeniothrips simplex (Thysanoptera)
- GOSSYPIUM**:
Corcyra cephalonica (Lepidoptera)
Onthophagus marginatus (Coleoptera)
Pectinophora gossypiella (Lepidoptera)
- GUAIACUM**:
Laemophloeus iteratus (Coleoptera)
Neoclytus cacticus (Coleoptera)
Platypus poriferus (Coleoptera)
Xylchorus fuscatus (Coleoptera)
- GYPSOPHILA**:
Lignycoris nitidicollis (Hemiptera)
Taeniothrips simplex (Thysanoptera)
- HA WORTHIA**:
Hercinothrips dimidiatus (Thysanoptera)
- HELLEBORUS**:
Limothrips denticornis (Thysanoptera)
Phyllotreta atra (Coleoptera)
- HIBISCUS**:
Asterolecanium pustulans (Homoptera)
Crocidosema plbeiana (Lepidoptera)
Pealius hibisci (Homoptera)
Pectinophora gossypiella (Lepidoptera)
Pseudaonidia clavigera (Homoptera)
Pseudaonidia tessarota (Homoptera)
Tetraleurodes mori (Homoptera)
- HYMENAEA**:
Rhinocerus stiama (Coleoptera)
- INDOCALAMUS**:
Antonina cravi (Homoptera)
- IPOMOEA**:
Cylas formicarius (Coleoptera)
Cylas puncticollis (Coleoptera)
Cylas turcippennis (Coleoptera)
Eusepes postfasciatus (Coleoptera)
Euzesta notata (Diptera)
Palaeopus costicollis (Coleoptera)
- IRIS**:
Frankliniella fortissima (Thysanoptera)
Pseudococcus boninsis (Homoptera)
- IXORA**:
Vinsonia stullifera (Homoptera)
- JASMINUM**:
Frankliniella cubensis (Thysanoptera)
- JUGLANS**:
Brontes australis (Coleoptera)
Platypus australis (Coleoptera)
- JUNIPERUS**:
Lepidosaphes pallida (Homoptera)
- LACTUCA**:
Atheas fuscipes (Hemiptera)
Baldulus eliminatus (Hemiptera)
Colecerus marmoratus (Coleoptera)
Corythucha morrilli (Hemiptera)
Delphacodes koeheli (Hemiptera)
Draeculacephala balli (Hemiptera)
Draeculacephala minima (Hemiptera)
Draeculacephala portola (Hemiptera)
Empoasca fabae (Hemiptera)
Empoasca phaseola (Hemiptera)
Empoasca solana (Hemiptera)
Epilachna varivestis (Coleoptera)
Eumecosomyia nubila (Diptera)
Feltia subterranea (Lepidoptera)
Leucopocila albofasciata (Hemiptera)
Lignycoris aurivilliana (Hemiptera)
Lignycoris nitidicollis (Hemiptera)
Lygaeus lateralis (Hemiptera)
Lygus champi (Hemiptera)
Lygus sallei (Hemiptera)
Macrosteles dirivus (Hemiptera)
Nauces pusio (Coleoptera)
Phlepsius distinctus (Hemiptera)
Placosternus crinicornis (Coleoptera)
Rhynchites mexicanus (Coleoptera)
Sirex motus areolatus (Hemiptera)
Thyanta accerra (Hemiptera)
- LARIX**:
Echinocnemus bipunctatus (Coleoptera)
- LATHYRUS**:
Bruchus affinis (Coleoptera)
Bruchus tristiculus (Coleoptera)
Frankliniella fortissima (Thysanoptera)
- LAURUS**:
Aonidia lauri (Homoptera)
Aspidiotus spinosus (Homoptera)
Homalodisca triquetra (Hemiptera)
Inglisia vitrea (Homoptera)
Pseudaonidia triloitiformis (Homoptera)
Tetraleurodes acaciae (Homoptera)
- LENS**:
Bruchus lentis (Coleoptera)
- LILIU**:
Callidium rufipenne (Coleoptera)
Frankliniella fortissima (Thysanoptera)
Liothrips raneckeii (Thysanoptera)
Phenacoccus gossypii (Homoptera)
- LIMONIUM**:
Ptinus huezani (Coleoptera)
- LINGNANIA**:
Chaetococcus bambusae (Homoptera)
- LINUM**:
Aleyrodes spiraeoides (Homoptera)
- LIPPIA**:
Tetraleurodes mori (Homoptera)
- LITCHEE**:
Florinia nephelii (Homoptera)
- LONCHOCARPUS**:
Dinoderus bifoveolatus (Coleoptera)
- LYCASTE**—See Orchidaceae
- LYCOPERSICUM**:
Amorbia emigratula (Lepidoptera)
Auficus impressicollis (Hemiptera)
Cossonus canaliculatus (Coleoptera)
Ezptochiamera minima (Hemiptera)
Forsebia perlaeta (Lepidoptera)
Frankliniella fortissima (Thysanoptera)
Gnathotrichus denticulatus (Coleoptera)
Keiferia lycopersicella (Lepidoptera)
Lineodes integra (Lepidoptera)
Lorita abornana chaska (Lepidoptera)
Lygaeus lateralis (Hemiptera)
Platynota stullana (Lepidoptera)
Xyleborus propinquus (Coleoptera)
Zabrotes subfasciatus (Coleoptera)
- LYCORIS**:
Taeniothrips gracilis (Thysanoptera)
- MAGNOLIA**:
Ceroplastes rubens (Homoptera)
Neolecanium cornu parvum (Homoptera)
Pseudaonidia duplex (Homoptera)
Ptinus tectus (Coleoptera)
- MALUS**:
Anastrepha ludens (Diptera)
Ceratitis capitata (Diptera)
Epidiaspis piricola (Homoptera)
Grapholthia molesta (Lepidoptera)
Lepidosaphes concoloriformis (Homoptera)
Parlatoria oleae (Homoptera)
Rhagoletis pomonella (Diptera)
- MALVA**:
Apion longirostre (Coleoptera)
- MALVA VISCUS**:
Euryophthalmus bipustulatus (Hemiptera)
Hypselonotus fulvus (Hemiptera)
- MAMMEA**:
Anastrepha serpentina (Diptera)
Aspidiotus spinosus (Homoptera)
- MANGIFERA**:
Anastrepha ludens (Diptera)
Anastrepha mombinpraecipitans (Diptera)
Anastrepha serpentina (Diptera)
Anulacaspis mangiferae (Homoptera)
Ceratitis capitata (Diptera)
Icerya seychellarum (Homoptera)
Leucaspis indica (Homoptera)
Phenacaspis eugeniae (Homoptera)
Sternonchetus mangiferae (Coleoptera)
- MAXILLARIA**—See Orchidaceae.
- MEDICAGO**:
Artipus floridanus (Coleoptera)
Frankliniella fortissima (Thysanoptera)
Lirionyma staeola (Diptera)
- MENTHA**:
Corizus punctatus (Hemiptera)

Hosts and insects—Continued

- MORINGA:
Stephanoderes guatemalensis (Coleoptera)
- MYRICARIA:
Pseudonidia clarigera (Homoptera)
- MYRTILLOCACTUS—See Cactaceae
- MUSA PARADISIACA:
Platynota rostrana (Lepidoptera)
- MUSA:
Aspidiotus destructor (Homoptera)
Aspidiotus palmae (Homoptera)
Ceratopus bisignatus (Coleoptera)
Chrysomphalus umboniferus (Homoptera)
Conotrachelus flavangulus (Coleoptera)
Deloyala guttata (Coleoptera)
Metamasius sericeus (Coleoptera)
Strategus simson (Coleoptera)
- NARCISSUS:
Enarosis lacteella (Lepidoptera)
- NERIUM:
Asterolecanium pustulans (Homoptera)
Frankliniella fortissima (Thysanoptera)
Haplothrips gowaei (Thysanoptera)
Morganella longispina (Homoptera)
Teleonemia nigrina (Hemiptera)
- ODONTOGLOSSUM—See Orchidaceae
- ONCIDIUM—See Orchidaceae
- ORBIGNYA:
Pachymerus olearius (Coleoptera)
- ORCHIDACEAE:
Acroleucus ricinialis (Hemiptera)
Anaphothrips orchidaceus (Thysanoptera)
Aspidiotus coryphae (Homoptera)
Aspidiotus destructor (Homoptera)
Aspidiotus palmae (Homoptera)
Asterolecanium aureum (Homoptera)
Cacoscelis scriptipennis (Coleoptera)
Calymmus cucullatus (Coleoptera)
Chrysomphalus alienus (Homoptera)
Chrysomphalus biformis (Homoptera)
Chrysomphalus rossi (Homoptera)
Clerada apicicornis (Hemiptera)
Cligenes picturata (Hemiptera)
Conchaspis araei (Homoptera)
Eucalandra stultosa (Coleoptera)
Eurycipitia vestitus (Hemiptera)
Eurytoma orchidearum (Hymenoptera)
Euphiochomera oblonga (Hemiptera)
Fulvius quadrifidellatus (Hemiptera)
Furcaspis biformis (Homoptera)
Geocnethus nigrocinctus (Hemiptera)
Halkisjota inexpectata (Lepidoptera)
Hercinohrips errans (Thysanoptera)
Hercinohrips femoralis (Thysanoptera)
Iridomyrmex iniquus nicella (Hymenoptera)
Iridomyrmex melleus (Hymenoptera)
Iridomyrmex melleus var. (Hymenoptera)
Lecaniodiaspis dendrobii (Homoptera)
Lepidosaphes tuberculata (Homoptera)
Leucaspis cockerelli (Homoptera)
Ligyrocoris nitidicollis (Hemiptera)
Mordellistena cattleyana (Coleoptera)
Mordellistena chapini (Coleoptera)
Mormidea collaris (Hemiptera)
Myochrous denticollis (Coleoptera)
Nasutitermes cornigera (Isoptera)
Orchidophilus aterrimus (Coleoptera)
Ozophora gracilipes (Hemiptera)
Paragonatus divergens (Hemiptera)
Parallotoplosis cattleyae (Diptera)
Parlatoria pseudaspidiifera (Homoptera)
Pinnaspis tourensi (Homoptera)
Plagiodesa thymaloidea (Coleoptera)
Pseudischnaspis alienus (Homoptera)
Pseudischnaspis boureyi (Homoptera)
Pseudococcus lilacinus (Homoptera)
Pseudococcus nipa (Homoptera)
Pulvinaria floccifera (Homoptera)
Puto mexicanus (Homoptera)
Taeniothrips simplex (Thysanoptera)
Tentecoris bicolor (Hemiptera)
Vinsonia stellifera (Homoptera)
Xestocoris collinus (Hemiptera)
Xyleborus monigerus (Coleoptera)
- ORNITHOGALUM:
Frankliniella schultzei (Thysanoptera)
Taeniothrips fumosa (Thysanoptera)
- ORYZA:
Chilo simplex (Lepidoptera)
Coryca cephalonica (Lepidoptera)
Schoenobius bipunctiferus (Lepidoptera)
Zabrotes subfasciatus (Coleoptera)
- PACHYCEREUS—See Cactaceae
- PANAX:
Pseudonidia tessarata (Homoptera)
- PELAGONIUM:
Phenacoccus gossypii (Homoptera)
- PENTAS:
Frankliniella insularis (Thysanoptera)
- PERSEA:
Anastrepha ludens (Diptera)
Aspidiotus destructor (Homoptera)
Aspidiotus howardi (Homoptera)
Aspidiotus spinosus (Homoptera)
Conotrachelus aguacatae (Coleoptera)
Heilipus lauri (Coleoptera)
- PETROLESELINUM:
Draculacephala minera (Hemiptera)
Geocoris sonoraensis (Hemiptera)
Lygus elisus (Hemiptera)
- PHALAEANOPSIS—See Orchidaceae
- PHASEOLUS ANGULARIS:
Callosobruchus chinensis (Coleoptera)
- PHASEOLUS AUREUS:
Callosobruchus analis (Coleoptera)
Callosobruchus chinensis (Coleoptera)
Callosobruchus maculatus (Coleoptera)
- PHASEOLUS LUNATUS MACROCARPUS:
Zabrotes subfasciatus (Coleoptera)
- PHASEOLUS RADIATUS:
Callosobruchus chinensis (Coleoptera)
- PHASEOLUS VULGARIS:
Zabrotes subfasciatus (Coleoptera)
- PHASEOLUS SP. (string bean):
Callosobruchus analis (Coleoptera)
Dacus cucurbitae (Diptera)
Delphacodes ca mepstris (Hemiptera)
Epilachna varivestis (Coleoptera)
Epinodia opposita (Lepidoptera)
Ectianus obscurinervis (Hemiptera)
Frankliniella fortissima (Thysanoptera)
Keifeia lycopersicella (Lepidoptera)
Ligyrocoris rubricollis (Hemiptera)
Maruca testulalis (Lepidoptera)
Ozophora pallescens (Hemiptera)
Sternechus paludatus (Coleoptera)
Zabrotes subfasciatus (Coleoptera)
- PHOENIX:
Coccotrypes dactyliperda (Coleoptera)
- PHYLLOSTACHYS:
Aphis bambusae (Homoptera)
Kuwanaspis pseudoleucaspis (Homoptera)
Kuwanaspis vermiformis (Homoptera)
- PHYSALIS:
Gnorimoschea laternella (Lepidoptera)
- PHYTELAPHAS:
Coccotrypes dactyliperda (Coleoptera)
- PINUS:
Gastrodes pacificus (Hemiptera)
Matsucoccus matsumurae (Homoptera)
Oryctonia jucunda (Coleoptera)
Paronius longulus (Hemiptera)
- PISTACIA:
Eurytoma pistaciae (Hymenoptera)
- PISUM:
Conotrachelus seniculus (Coleoptera)
Cosmolyce boeticus (Lepidoptera)
Draculacephala minera (Hemiptera)
Prairiana sidana (Hemiptera)
- PITHECOLOBIUM:
Acanthoscelides fexicaulis (Coleoptera)
- PITTOSPORUM:
Pulvinaria psidii (Homoptera)
- PLATANUS:
Chionaspis platanii (Homoptera)
- PLUMERIA:
Coccus viridis (Homoptera)
- PODALYRIA:
Bruchidius versicolor (Coleoptera)
- POLIANTHES:
Frankliniella fortissima (Thysanoptera)
Taeniothrips simplex (Thysanoptera)
- PORTULACA:
Erynephalia puncticollis (Coleoptera)
Eumecosomyia nubila (Diptera)
Eryptochiomera arizonensis (Hemiptera)
Ligyrocoris nitidulus (Hemiptera)
Nysius minutus (Hemiptera)
- PROSOPIS:
Anoplium truncatum (Coleoptera)
Apatides fortis (Coleoptera)
Colecerus marmoratus (Coleoptera)
Kaloterme marginipennis (Isoptera)

Hosts and insects—Continued

PROSOPIS—Continued.

Laspeyresia membra (Lepidoptera)
Neurotenus simplex (Hemiptera)
Rhipibruchus picturatus (Coleoptera)
Romaleum rufulum (Coleoptera)

PRUNUS DOMESTICA:

Anthonomus scutellaris (Coleoptera)
Parlatoria oleae (Homoptera)

PRUNUS SP. (cherry):

Lecanium coryli (Homoptera)

PRUNUS SP.:

Parlatoria oleae (Homoptera)
Parlatoria theae (Homoptera)

PSIDIUM:

Anastrepha mombinpraeoptans (Diptera)
Anastrepha suspensa (Diptera)

PTYCHOSPERMA:

Coccotrypes rolliniae (Coleoptera)

PUERARIA:

Callosobruchus ademptus (Coleoptera)

PUNICA:

Colaspis viriditincta (Coleoptera)

PYROLA:

Aleuroplatus myricae (Homoptera)

PYRUS:

Ceratitis capitata (Diptera)
Epidiaspis piricola (Homoptera)
Lepidosaphes conchiformis (Homoptera)

RAPHANUS:

Draeculacephala minerva (Hemiptera)
Hellula phidilealis (Lepidoptera)
Hellula undulata (Lepidoptera)
Macrosteles divinus (Hemiptera)
Nabis alternatus (Hemiptera)
Phyllotreta pusilla (Coleoptera)
Phyllotreta vittata discedens (Coleoptera)

RHODODENDRON:

Amphorophora rhododendri (Homoptera)
Dialeurodes chittendeni (Homoptera)
Pseudonidia duplex (Homoptera)

RIBES:

Parlatoria oleae (Homoptera)

ROSA:

Allocoris incognita (Hemiptera)
Ezpechiomera minima (Hemiptera)
Frankliniella cephalica (Thysanoptera)
Frankliniella cubensis (Thysanoptera)
Frankliniella difficilis (Thysanoptera)
Frankliniella fortissima (Thysanoptera)
Frankliniella insularis (Thysanoptera)
Haplothrips gowdeyi (Thysanoptera)
Taeniothrips simplex (Thysanoptera)
Teleonemia scrupulosa (Hemiptera)

ROYSTONEA:

Aspidiotus aestructor (Homoptera)
Aspidiotus spinosus (Homoptera)

SACCHARUM:

Chilo loftini (Lepidoptera)
Draeculacephala minerva (Hemiptera)
Pseudococcus boninensis (Homoptera)
Targionia sacchari (Homoptera)
Trionymus sacchari (Homoptera)

SALIX:

Agromyza salicis (Diptera)
Chalcolepidius webbi (Coleoptera)
Gypona delta (Hemiptera)

SAMANEA:

Anypsisipyla univittella (Lepidoptera)

SAMBUCUS:

Amphicercus cornutus (Coleoptera)
Micrapate scapularis (Coleoptera)

SAPOTE:

Anastrepha serpentina (Diptera)

SCHIZOSTACHYUM:

Formosaspis nigra (Homoptera)

SCHOMBURGKIA—See Orchidaceae

SEMIARUNDINARIA:

Kuwanaspis pseudoleucaspis (Homoptera)

SERJANIA:

Dinoderus bifoveolatus (Coleoptera)

SESBANIA:

Eudiagogus pulcher (Coleoptera)

SINOBAMBUSA:

Antonina crawi (Homoptera)
Kuwanaspis pseudoleucaspis (Homoptera)
Kuwanaspis vermiformis (Homoptera)

SOIL:

Ataenius cribrithorax (Coleoptera)

SOLANUM MELONGENA:

Anthonomus varipes (Coleoptera)
Metamasium sericeus (Coleoptera)
Pachyzancla perisialis (Lepidoptera)
Platynota rostrata (Lepidoptera)
Platynota stultana (Coleoptera)

SOLANUM TUBEROSUM:

Epicerus cognatus (Coleoptera)
Gnorimoschema plaesiosema (Lepidoptera)
Lygaeus lateralis (Hemiptera)

SPINACIA:

Aphalaroida inermis (Hemiptera)
Creontiades rubrinervis (Hemiptera)
Draeculacephala minerva (Hemiptera)
Empoasca abrupta (Hemiptera)
Empoasca solana (Hemiptera)
Lygus distinctus (Hemiptera)
Nysius monticola (Hemiptera)
Phyllotreta pusilla (Coleoptera)

SPONDIAS:

Anastrepha mombinpraeoptans (Diptera)
Aspidiotus diffinis (Homoptera)

STYRAX:

Pseudonidia duplex (Homoptera)

SWIETENIA:

Aulonium bidentatum (Coleoptera)
Coccus irididis (Homoptera)
Xyleborus propinquus (Coleoptera)

TABEBUIA:

Acanthoderes circumflera (Coleoptera)
Aulonium bidentatum (Coleoptera)
Brentus unchorago (Coleoptera)
Brentus mexicanus (Coleoptera)
Cossonus canaliculatus (Coleoptera)
Dactylosternum subdepressum (Coleoptera)
Laemophloeus suturalis (Coleoptera)
Nasutitermes cornigera (Isoptera)
Nemophthalpus guatemalensis (Coleoptera)

Parandra polita (Coleoptera)
Platypus exaratus (Coleoptera)
Platypus poriferus (Coleoptera)
Platypus rugulosus (Coleoptera)
Tesserocerus dejeani (Coleoptera)
Xyleborus affinis (Coleoptera)
Xyleborus confusus (Coleoptera)
Xyleborus fuscatus (Coleoptera)
Xyleborus mazer (Coleoptera)

TAGETES:

Haplothrips gowdeyi (Thysanoptera)
Zabrotes subfasciatus (Coleoptera)

TAMARINDUS:

Caryedon fuscus (Coleoptera)
Eucnocerus anthrenoides (Coleoptera)
Nyssodrys haldemani (Coleoptera)

TERMINALIA:

Aspidiotus destructor (Homoptera)
Asterolecanium pustulans (Homoptera)

THEOBROMA:

Xyleborus affinis (Coleoptera)

THUJA:

Cynara tujaefilina (Homoptera)

TIGRIDIA:

Anuraphis tulipae (Homoptera)

TRICHOPILIA—See Orchidaceae

TRICOGLOTIS—See Orchidaceae

TRISTANIA:

Phenacaspis eugeniae (Homoptera)

TRITICUM:

Cercyra cephalonica (Lepidoptera)

TSUGA:

Aspidiotus tsugae (Homoptera)

TULIP A:

Anuraphis tulipae (Homoptera)
Rhopalosiphonium tulipaellus (Homoptera)

ULMIUS:

Clytus aridus (Coleoptera)
Pteleobius vittatus (Coleoptera)
Scolytus multistriatus (Coleoptera)
Scolytus scolytus (Coleoptera)

VANDA—See Orchidaceae

VERBENA:

Phenacoccus gossypii (Homoptera)

VICIA:

Apion pannonae (Coleoptera)
Bruchidius incarnatus (Coleoptera)
Bruchus dentipes (Coleoptera)
Bruchus luteicornis (Coleoptera)
Bruchus rufipes (Coleoptera)
Euspermophagus cardui (Coleoptera)

Hosts and insects—Continued

VIGNA:

Bruchus ramicornis (Coleoptera)
Callosobruchus analis (Coleoptera)
Callosobruchus maculatus (Coleoptera)
Zabrotes subfasciatus (Coleoptera)

VIOLA:

Frankliniella fortissima (Thysanoptera)

VITIS:

Aonidiella comperei (Homoptera)
Ceratitis capitata (Diptera)
Corizus pictipes (Hemiptera)
Geonethus nigrocinctus (Hemiptera)
Listroderes obliquus (Coleoptera)
Pantomorus ranthographus (Coleoptera)
Pseudoanidia tessarata (Homoptera)

VRIESIA:

Chrysomphalus personatus (Homoptera)

WISTERIA:

Chionaspis wisteriae (Homoptera)
Phenacaspis fujicola (Homoptera)

YUCCA:

Ephesfir rileyella (Lepidoptera)

ZEA:

Ataenius abditus (Coleoptera)
Baldulus vidis (Hemiptera)
Celama sorghiella (Lepidoptera)
Ceratocapsus fuscicornis (Hemiptera)
Conotrachelus seniculus (Coleoptera)

ZEA—Continued.

Eumecosomyia nubila (Diptera)
Euphoria leucographa (Coleoptera)
Euxesta annonae (Diptera)
Euxesta sororcula (Diptera)
Euxesta stigmatias (Diptera)
Frankliniella williamsi (Thysanoptera)
Ligyrocoris nitidulus (Hemiptera)
Lophocateres pusillus (Coleoptera)
Lygus elisus (Hemiptera)
Micrapate scapularis (Coleoptera)
Moodna bisinuella (Lepidoptera)
Nysius minutus (Hemiptera)
Oedionychis durangoensis (Coleoptera)
Pagiocerus rimosus (Coleoptera)
Pyrausta nubilalis (Lepidoptera)
Zabrotes subfasciatus (Coleoptera)

ZINGIBER:

Caulophilus latinasus (Coleoptera)
Targionia hartii (Homoptera)

ZINNIA:

Anacetrinus deplanatus (Coleoptera)
Corythucha morrilli (Hemiptera)
Gypona angulata (Hemiptera)
Haplothrips gowdeyi (Thysanoptera)
Nesoteles neglectus (Hemiptera)
Phenacoccus gossypii (Homoptera)
Pronotocantha annulata (Hemiptera)
Zabrotes subfasciatus (Coleoptera)

Hosts unknown

FLOWERS:

Conotrachelus flavangulus (Coleoptera)
Forficula auricularia (Orthoptera)
Glyptina nivalis (Coleoptera)
Lygaeus circumlilis (Hemiptera)
Nysius callifer (Hemiptera)

HERB:

Psychopoda bonifata (Lepidoptera)

HOOPS:

Gracilia minuta (Coleoptera)

IN AUTOMOBILE:

Callirhinus metallescens (Coleoptera)

IN BAG OF GUAVAS AND GENIPS:

Anastrepha suspensa (Diptera)

IN BOX OF GRAPES:

Listroderes obliquus (Coleoptera)

LEAF:

Chrysomphalus perseae (Homoptera)
Lichtensia lutea (Homoptera)

MOSS PACKING:

Scolopostethus decoratus (Hemiptera)

ON PACKING CASE:

Callidium rufipenne (Coleoptera)

ON SACK OF BRAN:

Lygaeus vitlicutis (Hemiptera)

PALM:

Aspidiotus destructor (Homoptera)
Pinnaspis burzi (Homoptera)

REED:

Amphicerus cornutus (Coleoptera)

ROOT:

Brachyrhinus rugosostriatus (Coleoptera)

SEED:

Bruchus hamatus (Coleoptera)

VEGETABLES:

Atara hubbardi (Coleoptera)

WICKER HAMPER:

Nicobium castaneum (Coleoptera)
Nicobium hirtum (Coleoptera)

WILD GRASS:

Odonaspis graminis (Homoptera)

WOOD:

Heterobostrychus aequalis (Coleoptera)
Kaloterme piceatus (Isoptera)
Micrapate dinoderoides (Coleoptera)
Micrapate scapularis (Coleoptera)
Penicbroa fasciata (Coleoptera)
Renocis mexicanus (Coleoptera)
Sinoxylon anale (Coleoptera)
Sinoxylon conigerum (Coleoptera)
Xylothrips flavipes (Coleoptera)

Country of origin and insects

AMERICAN VIRGIN ISLANDS:

Anastrepha mombinpraeoptans
Euseceps postfasciatus
Targionia hartii
Trionymus sacchari

ANGOLA:

Stephanoderes hampei

ARGENTINA:

Anastrepha fraterculus
Apion pomonae
Corizus pictipes
Euxesta notata
Geonethus nigrocinctus
Listroderes obliquus
Pantomorus ranthographus
Pariatoria cinerea
Pariatoria oleae
Pectinophora gossypiella

AUSTRALIA:

Brontes australis
Chrysomphalus rossii
Phenacaspis eugeniae
Pinnaspis townsendi
Platypus australis
Xyleborus monigerus

AZORES:

Ceratitis capitata
Targionia bromeliae

BAHAMAS:

Aleurocanthus woglumi
Artipus floridanus
Aspidiotus destructor
Asterolecanium pustulans
Coccus viridis
Conotrachelus nenuphar
Cylas formicarius
Dialeurodes citri
Frankliniella cubensis
Frankliniella difficilis
Frankliniella insularis
Haplothrips gowaei
Morganella longispina
Pectinophora gossypiella
Pseudococcus boninsis
Ptinus huesanus
Pulvinaria psidii
Targionia sacchari

BARBADOS:

Setomorpha insectella
Targionia hartii

Country of origin and insects—Continued

- BELGIUM:**
Lepidosaphes tuberculata
- BERMUDA:**
Haplothrips gowdeyi
Phenacoccus gossypii
Pseudococcus boninsis
- BRAZIL:**
Aonidiella eugeniae
Aspidiotus spinosus
Asterolecanium aureum
Bruchus ramicornis
Callosobruchus maculatus
Ceratitis capitata
Chrysomphalus personatus
Corcyra cephalonica
Eurycipita vestitus
Eurytoma orchidearum
Euseceps posifasciatus
Frankliniella insularis
Fulvius quadristillatus
Gymnaspiis aechmeae
Inglisia vitrea
Maruca testulalis
Mordellistena catterlyana
Morganella longispina
Pachymerus olearius
Parlatoria cinerea
Pectinophora gossypiella
Phelomerus aberrans
Pseudonidia trilobitiformis
Stephanoderes buscki
Targionia bromeliae
Tenthercoris bicolor
Xyleborus affinis
Zabrotes subfasciatus
- BRITISH COLUMBIA:**
Forficula auricularia
- BRITISH EAST AFRICA:**
Stephanoderes hampei
- BRITISH HONDURAS:**
Vinsonia stellifera
- CANADA:**
Agromyza salicis
Aleuroplatus myricae
Aleyrodes spiraeoides
Amphorophora rhododendri
Anuraphis tulipae
Brachyrhinus oratus
Brachyrhinus rugosistriatus
Chermes nusslini
Gastrodes pacificus
Lecanium coryli
Liosomaphis berberidis
Rhopalosiphoninus tulipaellus
Sitona lineata
Taeniothrips atratus
Thrips nigropilosus
- CANAL ZONE:**
Asterolecanium aureum
Furcaspis biformis
Haplothrips gowdeyi
Neoclytus cacicus
Phelomerus aberrans
Pseudonidia clavigera
Pseudischnaspis alienus
Trionymus sacchari
Vinsonia stellifera
Xyleborus fuscatus
- CANARY ISLANDS:**
Ceratitis capitata
- CHILE:**
Endrosia lacteella
Listroderes obliquus
Nabis punctipennis
Pseudococcus gahani
- CHINA:**
Antonina crawi
Antonina tobai
Aphis bambusae
Asterolecanium bambusicola
Callosobruchus analis
Callosobruchus chinensis
Caulophilus latinasus
Chaetococcus bambusae
Chilo simplex
Chionaspis elongata
Cylas formicarius
Endrosia lacteella
Fiorinia nephelii
Formosaspis formosanus
- CHINA—Continued.**
Formosaspis nigra
Kuwanaspis pseudolucaspis
Kuwanaspis termitiformis
Odonaspis greeni
Odonaspis penicillata
Parlatoria sziphus
Schoenobius bipunctiferus
- CHOSEN:**
Callosobruchus ademptus
Lepidosaphes pallida
- COLOMBIA:**
Acanthoscelides dominicanus
Anastrepha serpentina
Asterolecanium aureum
Chrysomphalus perseae
Clerada apicicornis
Eucalandra setulosa
Eurycipita vestitus
Eurytoma orchidearum
Fulvius quadristillatus
Furcaspis biformis
Geocnethus nigrocinctus
Halisidota inexpectata
Iridomyrmez iniquus nigella
Lepidosaphes lasianthi
Metamasius sericeus
Mordellistena catterlyana
Mordellistena chapini
Myochrous denticollis
Nasutitermes cornigera
Paragonatus divergens
Tenthercoris bicolor
Xyleborus propinquus
- COSTA RICA:**
Asterolecanium aureum
Eurytoma orchidearum
Pseudischnaspis alienus
Pseudococcus nipae
Pulvinaria floccifera
- CUBA:**
Aleurocanthus woglumi
Aleurothrix howardi
Anastrepha monoinfraeoptans
Anastrepha suspensa
Anthonomus varipes
Aspidiotus destructor
Aspidiotus spinosus
Asterolecanium aureum
Asterolecanium bambusae
Asterolecanium miliaris
Asterolecanium pustulans
Ataenius cribrithorax
Ceralocapsus cubanus
Chrysomphalus biformis
Clerada apicicornis
Coccotrypes rolliniae
Coccus viridis
Conoderus biforeatus
Cylas formicarius
Cymonius notabilis
Cyrtopeltis tenuis
Dialeurodes citrifolii
Eumecosomyia nubila
Faustinus cubae
Frankliniella cubensis
Frankliniella difficilis
Frankliniella insularis
Gnorimoschema gudmannella
Gynaikothrips uzeli
Haplothrips gowdeyi
Helicula phidilealis
Iridomyrmez humilis
Iridomyrmez pruinosis
Keiferia lycopersicella
Lepidosaphes camelliae
Leucaspis indica
Leucoptera coffeella
Ligyrocotis litigiosus
Liriomyza flaeola
Metamasius sericeus
Outhophaqus marginatus
Orthaea scutellata
Ozophora hurmeisteri
Ozophora pallescens
Pachyzancla perisulalis
Pectinophora gossypiella
Phyllotreta vittata discendens
Pinnaspis minor strachani
Platynota rostrana

Country of origin and insects—Continued

- CUBA—Continued.
Pseudischnaspis alienus
Pseudococcus boninsis
Pulvinaria psidii
Pyropus sapphirinus
Pibua innoxia
Stictocephala rotundata
Sustena basalis
Taeniothrips simplex
Targionia bromeliae
Targionia hartii
Targionia sacchari
Trionymus sacchari
Zabrotes subsaccharius
- DOMINICA:
Aganactesis indecora
- DOMINICAN REPUBLIC:
Anastrepha mombinpraeoptans
Conchaspis angraeci
Cylas formicarius
Frankliniella insularis
Haplothrips gowdeyi
Stephanoderes guatemalensis
Vinsonia stellifera
- DUTCH EAST INDIES:
Dinoderus bifoveolatus
Heterobostrychus aequalis
Laemotmetus rhizophagoides
Myocalandra discors
- ECUADOR:
Anypsiopyla univittella
Coccotrypes dactyliperda
Metamasius sericeus
- EGYPT:
Bruchidius incarnatus
- ENGLAND:
Anaphothrips orchidaceus
Anuraphis tulipae
Aspidiotus destructor
Barathra brassicae
Bruchus affinis
Ceutorhynchus pleurostigma
Clytus arietis
Dialeurodes chittendeni
Gracilia minuta
Hercinotrips errans
Hercinotrips femoralis
Leperisinus frazini
Lepidosaphes tuberculata
Limothrips denticornis
Liothrips vaneckei
Philophylla heraclei
Phyllotreta atra
Pionea forficalis
Psylliodes chrysocephala
Pteleobius vittatus
Pinus tectus
Pulvinaria floccifera
Rhopalosiphoninus tulipaellus
Scotopostethus decoratus
Scolytus multistriatus
Scolytus scolytus
Spragueia leo
- ETHIOPIA:
Stephanoderes hampei
- EUROPE:
Haplothrips cotei
Taeniothrips dianthi
- FIJI ISLANDS:
Aspidiotus destructor
- FRANCE:
Bruchus luteicornis
Bruchus rufipes
Iridomyrmer melleus
Iridomyrmer melleus var.
- FRENCH INDO-CHINA:
Sinoxylon anale
Sinoxylon conigerum
- GOLD COAST:
Cylas puncticollis
- GREECE:
Aonidia lauri
Bruchus rufipes
- GUADELOUPE:
Palaeopus costicollis
- GUATEMALA:
Acanthoderes circumflexa
Anaphothrips orchidaceus
Asterolecanium miliariis longum
Aulonium bidentatum
Brentus anchorago
- GUATEMALA—Continued.
Brentus mexicanus
Calymmus cucullatus
Conchaspis agraei
Cossonus canaliculatus
Dactylosternum subdepressum
Eurycyptia vestitus
Eurytoma orchidearum
Frankliniella fortissima
Furcaspis biformis
Laemophloeus iteratus
Laemophloeus suturalis
Metamasius sericeus carbonarius
Nasutitermes cornigera
Nemocephalus guatemalensis
Neoclytus cacticus
Parandra polita
Platypus exaratus
Platypus poriferus
Platypus rugulosus
Pseudischnaspis alienus
Pseudischnaspis bowreyi
Targionia sacchari
Tenthercoris bicolor
Tesserocerus dejani
Xestocoris collinus
Xyleborus affinis
Xyleborus confusus
Xyleborus macer
Xyleborus propinquus
- HAITI:
Anastrepha mombinpraeoptans
Anastrepha suspensa
Aonidiella comperi
Asterolecanium aureum
Maruca testulalis
Pseudoaonidia tesserata
- HAWAII:
Aonidiella inornata
Asterolecanium pustulans
Caryedon fuscus
Ceratitis capitata
Ceroplastes rubens
Coccus viridis
Cosmolyce botticus
Cylas formicarius
Dacus cucurbitae
Eusecepes postfasciatus
Furcaspis biformis
Kaloterms piceatus
Maruca testulalis
Parlatoria erotonis
Pealius hibisci
Pectinophora gossypiella
Phenacaspis eugeniae
Pseudoaonidia clarivaga
Pseudoaonidia tesserata
Sternochetus mangiferae
- HONDURAS:
Aspidiotus palmae
Aspidiotus spinosus
Aulonium bidentatum
Brentus mexicanus
Coccus viridis
Dactylosternum abdominale
Hypsiopyla grandella
Metamasius sericeus
Neoclytus cacticus
Phormesium virgulatum
Tetrapriocera longicornis
Xanthophthalma concinnum
Xyleborus affinis
Xyleborus fusaratus
Xyleborus propinquus
Zabrotes subsaccharius
- HUNGARY:
Euspermophagus cardui
- INDIA:
Callosobruchus chinensis
Cylas formicarius
Heterobostrychus aequalis
Sinoxylon anale
- IRAN:
Apion longirostre
Bruchus dentipes
Bruchus dentipes ochraceosignatus
Bruchus hamatus
Bruchus lentis
Callosobruchus analis
Callosobruchus maculatus

Country of origin and insects—Continued

IRELAND:

Endrosis lacteella

ITALY:

*Aonidia lauri**Brachyrhinus armadillo**Epidiaspis piricola**Parlatoria oleae*

JAMAICA:

*Anastrepha mombinpraeoptans**Cylas formicarius**Cyrtopeltis tenuis**Euscapes postfasciatus**Haplothrips gowdeyi**Leucaspis cockerelli**Palaeopus costicollis**Parlatoria pseudaspidotus**Strategus simson**Vinsonia stellifera*

JAPAN:

*Antonina crawii**Aspidiotus degeneratus**Aspidiotus destructor**Aspidiotus tsugae**Callidium rufipenne**Callosobruchus ademptus**Callosobruchus analis**Callosobruchus chinensis**Ceroplastes ceriferus**Ceroplastes floridensis**Ceroplastes rubens**Chilo simplex**Chionaspis wistariae**Chionaspis yanonenis**Chrysomphalus bifasciculatus**Cinara tujafilina**Corcyra cephalonica**Cosmolyce boeufi**Echinocnemus bipunctatus**Gracilaria azalella**Grapholitha molesta**Hellula undalis**Hercinothrips femoralis**Homone menciiana**Laspeyresia splendana**Lepidosaphes camelliae**Lepidosaphes conchiformis**Lepidosaphes tuberculata**Liothrips raneckei**Matsucoccus matsumurae**Nemapogon granella**Neolecanium cornuparvum**Nysius expressus**Orchidophilus aterrimus**Orycestonia jucunda**Parlatoria camelliae**Parlatoria pseudaspidotus**Parlatoria theae**Phaedon incertum**Phenacaspis fujicola**Pinnaspis buxi**Pseudonidia duplex**Pseudonidia paeoniae**Putrinaria floccuera**Pyrausta nubilalis**Stephanitis pyrioides**Taeniothrips gracilis**Taeniothrips ranthius*

JAVA:

*Heterobostrychus aequalis**Laemotmetus rhizophagoides**Lycotrylon japonum**Parlatoria ziziphus**Xylothrips flavipes*

MADEIRA ISLANDS:

Anaphothrips orchidii

MALAYA (British):

Sinozylon anale

MEXICO:

*Acanthoscelides fericaulis**Acanthoscelides sallaei**Acroleucus tullus**Acroleucus vicinalis**Acolus dorsalis**Allocoris incognita**Alpheius conspirata**Amorbia emigratella**Amphicerus cornutus**Anacentrinus deplanatus**Anastrepha ludens**Anastrepha serpentina*

MEXICO—Continued.

*Anopium truncatum**Anthonomus scutellaris**Apatides fortis**Aphalaroida inermis**Aspidiotus destructor**Aspidiotus diffinis**Aspidiotus howardi**Asterolecanium aureum**Ataenius abditus**Atazia hubbardi**Atheas fuscipes**Aufeius impressicollis**Baldulus elimatus**Baldulus maidis**Brentus mexicanus**Brochymena sulcata**Cacoscolis scriptipennis**Callirhinus metallescens**Callosobruchus maculatus**Calymnaderus oblongus**Catorhintha guttula**Caulophilus latinus**Caulotops agavis**Celama sorghilla**Centrinaspis picumnus**Ceratocapsus fuscognignus**Ceratocapsus punctulatus**Ceratopus bisignatus**Ceroplastes floridensis**Chaetopsis sulcifrons**Chalcolepidius webbi**Chelinidea canyonis**Chelinidea vittiger aequoris**Chilo loftini**Chionaspis platani**Chrysomphalus personatus**Coccotrypes dactyloperda**Colaspis viriditincta**Colecerus marmoratus**Conotrachelus aguacatae**Conotrachelus flavangulus**Conotrachelus leucophaeatus**Conotrachelus seniculus**Corizus punctatus**Corythucha morrilli**Cossonus canaliculatus**Cossonus exaratus**Creontiades rubrinervis**Crociosema plebeiana**Cylas formicarius**Cyrtopeltis varians**Dactylosternum abdominale**Deloayata guttata**Deloayata lecontei**Delphacodes campestris**Delphacodes koebele**Dialeurades citri**Dikraneura kunzei**Draculacephala balli**Draculacephala miera**Draculacephala portola**Dransterius cribratus**Empoasca abrupta**Empoasca fabae**Empoasca phaseola**Empoasca solana**Entylia sinuata**Ephestia rileyella**Epicaerus cognatus**Epicauta pardalis**Epilachna varicostis**Epinotia opposita**Erynephala puncticollis**Eucnocerus anthrenoides**Euidiaojanus pulcher**Eumecosomyia nubila**Euphaterus nidifer**Euphoria leucographa**Euphratus parvicollis**Eurycipitia vestitus**Euryophthalmus bipustulatus**Euresta annonae**Euresta sororcula**Euresta stigmatalis**Excitatus obscurinervis**Exptochiomeria arizonensis**Exptochiomeria fuscicornis**Exptochiomeria minima**Exptochiomeria oblonga*

Country of origin and insects—Continued

MEXICO—Continued.

Feltia subterranea
Forsebia perlaeta
Frankliniella cephalica
Frankliniella fortissima
Frankliniella williamsi
Geocnethus semilevis
Geocoris sonoraensis
Glyptina atriventris
Glyptina nivalis
Gnathotrichus consentaneus
Gnathotrichus denticulatus
Gnori moschema gudmannella
Gnori moschema lavrenella
Gypona angulata
Gypona delta
Haplothrips gowdeyi
Helipus lauri
Helichus productus
Hellula phidolealis
Hellula undalis
Homalodisca triquetra
Hyalopterus atriplicis
Hyphantria textor
Hypselonotus fulvus
Kaloterms maroinipennis
Kaloterms minor
Keiferia lycopersicella
Laspeyresia membrosa
Lepidosaphes camelliae
Lepidosaphes philococcus
Leucopoezia albofasciata
Lichtensteinia lutea
Ligyrocoris abdominalis
Ligyrocoris aurivilliana
Ligyrocoris litigiosus
Ligyrocoris nitidicollis
Ligyrocoris nitidulus
Ligyrocoris rubricatus
Ligyrocoris setosus
Lineodes integra
Liriomyza flavola
Lophocateres pusillus
Lorita abornana chatka
Lygaeus circumlitus
Lygaeus lateralis
Lygaeus vittiscutis
Lygus championi
Lygus distinctus
Lygus elisus
Lygus hesperius
Lygus sallei
Macrosteles divinus
Metriona craticata
Metriona profligata
Micrapate dinoderoides
Micrapate scapularis
Moodna bisinuella
Mormidea collaris
Mozema lunata
Nabis alternata
Naucles pusio
Nesosteles neglectus
Neuroctenus simplex
Nysius minutus
Nysius monticola
Nyssodrys haldemani
Odonaspis graminis
Oedionychis durangoensis
Ollarianus strictus
Onychobaris ambigua
Opstus stactogalus
Orthaea scutellata
Parallopiplosis cattleyae
Parlatoria cinerea
Paromius longulus
Pectinophora gossypiella
Phenacoccus gossypii
Phlepsius distinctus
Phyllotreta pusilla
Placosternus crinicornis
Plagioderia thymaloidea
Platynota stultana
Podisus acutissimus
Podisus rubromaculatus
Polymerus basalis
Prairiana sidana
Pronotacantha annulata
Protospulvinaria pyrifomis
Pseudischnaspis alienus

MEXICO—Continued.

Pseudococcus boninsis
Pseudodiaspis yuccae
Ptychopoda bonifata
Puto mexicanus
Puto yuccae
Renocis mexicanus
Rhagoletis pomonella
Rhynchites mexicanus
Romaleum rufulum
Setomorpha insectella
Sisamnes contractus
Sizeonotus areolatus
Sternachus paludatus
Taeniothrips simplex
Teleonemia nigra
Teleonemia scrupulosa
Tetraleurodes acaciae
Tetraleurodes mori
Thyanta accera
Toxotrypana curvicauda
Trionymus sacchari
Xyleborus confusus
Xyleborus fuscatus
Xyleborus propinquus
Zabrotes subsacatus

NETHERLANDS:

Anuraphis tulipae

NICARAGUA:

Conotrachelus flavangulus

Laemophloeus suturatis

PALESTINE:

Eurytoma pistaciae

PANAMA:

Aganactesis indecora

Anastrepha mombinpraeoptans

Chrysomphalus umboniferus

Phelomerus aberrans

PERU:

Dinoderus bifoveolatus

Eumecosomyia nubila

Eusepes postfasciatus

Gnori moschema plaesiosema

Mordellistena chapini

Pagiocerus rimosus

PHILIPPINES:

Antonina indica

Aspidiotus coryphae

Aspidiotus palmae

Callosobruchus chinensis

Callosobruchus maculatus

Chrysomphalus rossi

Cylas formicarius

Cylas turcippennis

Dinoderus bifoveolatus

Hercinothrips femoralis

Leucaspis cockerelli

Orchidophilus aterrimus

Parlatoria pseudaspidiotus

Pinnaspis townsendi

Pseudococcus lilacinus

Sinoxylon anale

Sinoxylon conigerum

Sternochetus mangiferae

PORTUGAL:

Anuraphis apifolia

Bruchus tristiculus

Ceratitis capitata

Ceroplastes rusci

Epidiaspis piricola

Iridomyrmex humilis

Laspeyresia splendana

Nicobium castaneum

Nicobium hirtum

Pseudococcus boninsis

Psylliodes chrysocephala

Stephanoderes hampei

PUERTO RICO:

Anastrepha mombinpraeoptans

Anastrepha suspensa

Antonina cravi

Aspidiotus destructor

Asterolecanium bambusae

Callosobruchus chinensis

Coccus viridis

Corcyra cephalonica

Cylas formicarius

Eusepes postfasciatus

Haplothrips gowdeyi

Maruca testulalis

Country of origin and insects—Continued

PUERTO RICO—Continued.

- Pectinophora gossypiella*
- Pseudischnaspis boureyi*
- Pseudoparlatoria ostreata*
- Targionia sacchari*

QUEENSLAND:

- Ceratitis capitata*

RUMANIA:

- Bruchus rufipes*

ST. LUCIA:

- Targionia hartii*

ST. VINCENT:

- Pectinophora gossypiella*
- Targionia hartii*

SCOTLAND:

- Corcyra cephalonica*
- Micrelus ericae*
- Taeniothrips ericae*

SPAIN:

- Laspeyresia splendana*
- Penicbroa fasciata*

STRAITS SETTLEMENTS:

- Parlatoria pseudaspidiotus*
- Pinnaspis townsendi*

SUMATRA:

- Stephanoderes hampei*

SWITZERLAND:

- Epidiaspis piricola*

TAHITI:

- Icerya seychellarum*
- Trionymus sacchari*

THAILAND:

- Orchidophilus aterrimus*
- Parlatoria pseudaspidiotus*

TRINIDAD:

- Anastrepha fraterculus*
- Anastrepha serpentina*
- Asterolecanium aureum*
- Aulacaspis mangiferae*

TRINIDAD—Continued.

- Euseceps postfasciatus*
- Furcaspis biformis*
- Maruca testulalis*
- Rhinochenus stigma*
- Vinsonia stellifera*

UNION OF SOUTH AFRICA:

- Bruchidius versicolor*
- Diaspis zamiae*
- Frankliniella schultzei*
- Hercinothrips dimidiatus*
- Taeniothrips fumosa*

URUGUAY:

- Rhipibruchus picturatus*

VENEZUELA:

- Acanthoscelides armitagei*
- Anaphothrips orchidaceus*
- Asterolecanium aureum*
- Callosobruchus maculatus*
- Chrysomphalus alienus*
- Cligenes picturata*
- Coccus viridis*
- Eurytoma orchidearum*
- Erptochiomera oblonga*
- Furcaspis biformis*
- Iridomyrmex iniquus nigella*
- Lecanodiaspis dendrobii*
- Mordellistena cattlejana*
- Nysius callifer*
- Ozophora gracilipes*
- Protopulvinaria pyriformis*
- Taeniothrips simplex*
- Tenthecoris bicolor*

VIRGIN ISLANDS:

- Euseceps postfasciatus*
- Maruca testulalis*
- Setomorpha insectella*

WEST INDIES:

- Targionia sacchari*

List of pests collected and reported from July 1, 1940, to June 30, 1941, inclusive

[All findings marked with an asterisk indicate State inspection]

Disease and host	Country of origin	Number of inter-ceptions in—			Collected in—
		Con-sump-tion	Non-en-try	Prop-aga-tion	
<i>Acrospira macrosporoidea</i> (Berk.) Wilt.:					
<i>Gladiolus</i> sp.	New Zealand			1	N. J.
<i>Albugo bliti</i> (Biv.) O. Kuntze:					
<i>Amaranthus</i> sp.	Mexico	1			Tex.
<i>Alternaria dianthi</i> Stevens & Hall:					
<i>Dianthus</i> sp. (carnation)	Bermuda	1			N. Y.
<i>Aphelenchoides coffeae</i> (Zimm.) Steiner:					
<i>Cattleya</i> sp. (orchid)	Colombia			1	N. Y.
<i>Aphelenchoides parietinus</i> (Bastian) Steiner:					
<i>Ananas sativus</i> (pineapple)	Cuba			1	N. Y.
<i>Colocasia esculenta</i> (taro)	Azores, Japan	1	1		N. Y., Pa.
<i>Lilium longiflorum eximium</i>	Bermuda			1	N. Y.
<i>Lycopersicum esculentum</i> (tomato)	Mexico	1			Tex.
<i>Zingiber officinale</i> (ginger)	China	1			N. Y.
<i>Aphelenchus avenae</i> Bast.:					
<i>Ficus carica</i> (fig)	Portugal			1	N. Y.
<i>Ilyacinthus</i> sp.	England			1	N. Y.
<i>Lilium longiflorum eximium</i>	Bermuda			2	N. Y.
<i>Salvia officinalis</i> (garden sage)	Spain	1			N. Y.
Soil around banana plants	Costa Rica			1	N. Y.
<i>Xanthosoma</i> sp.	Cuba	1			N. Y.
<i>Ascochyta caricae</i> Pat.:					
<i>Carica papaya</i> (papaya)	Brazil	1			N. Y.
<i>Aspergillus ochraceus</i> Wilhelm:					
<i>Gladiolus</i> sp.	Turkey			1	N. J.
<i>Asterina delitescens</i> Ell. & Mart.:					
<i>Persea borbonia</i> (red bay)	Mexico	2			Tex.
<i>Asterina mexicana</i> Ell. & Ev.:					
<i>Agave americana</i> (maguey)	do.	1			Tex.
<i>Bacterium citri</i> (Hasse) Doidge:					
<i>Citrus aurantifolia</i> (lime)	Dutch East Indies, India, Java, Philippines.		5		Md., Mass., Pa.
<i>Citrus grandis</i> (grapefruit)	China		1		Calif.*
<i>Citrus sinensis</i> (orange)	China, Japan		2		Calif., Wash.
<i>Citrus</i> sp.	Japan		1		Calif.*

List of pests collected and reported from July 1, 1940, to June 30, 1941, inclusive—Con.

Disease and host	Country of origin	Number of inter-ceptions in—			Collected in—
		Con- sump- tion	Non- entry	Prop- aga- tion	
<i>Bacterium syringae</i> (Van Hall) E. F. S.: <i>Citrus sinensis</i>	Mexico.....	1			Tex.
<i>Bacterium tabacum</i> Wolf & A. C. Foster: <i>Nicotiana tabacum</i> (tobacco).....	Canada.....	1			Mass.
<i>Bacterium tonellianum</i> Ferraris: <i>Nerium oleander</i> (oleander).....	Mexico.....	1			Tex.
<i>Botrytis allii</i> Munn: <i>Allium cepa</i> (onion).....	Chile, Mexico.....	21	1		Ariz., N. Y., Tex.
<i>Bremia lactucae</i> E. Regel: <i>Lactuca sativa</i> (lettuce).....	Mexico.....	1			Tex.
<i>Cephalosporium pammellii purpurascens</i> Buchanan: <i>Malus sylvestris</i> (apple).....	Japan.....		1		La.
<i>Ceratostomella fimbriata</i> (E. & H.) Elliott: <i>Daucus carota</i> (carrot).....	England.....		1		La.
<i>Ceratostomella ips</i> Rumbold: <i>Pinus</i> sp. (pine).....	do.....	8			N. J.
<i>Ceratostomella ulmi</i> (Schwarz) Buis.: <i>Ulmus</i> sp. (elm).....	do.....	10			N. Y.
<i>Cercospora angreci</i> Feuill & Roum.: <i>Laelia</i> sp. (orchid).....	Mexico.....			1	Tex.
<i>Odontoglossum</i> sp. (orchid).....	England.....			4	N. J.
<i>Cercospora coffeicola</i> Berk. & C.: <i>Coffea</i> sp.....	Mexico.....			1	N. J.
<i>Cercospora musae</i> Zimm.: <i>Musa</i> sp. (banana).....	Costa Rica, Cuba, Gua- temala, Haiti, Jamai- ca, Mexico, Puerto Rico.	38	2		La., Mass., N. Y., Tex.
<i>Cercospora odontoglossi</i> Prill. & Del.: <i>Odontioda</i> sp. (orchid).....	England.....			1	Calif.*
<i>Odontoglossum</i> sp. (orchid).....	do.....			2	Calif.*, D. C.
<i>Cercospora roscicola</i> Pass.: <i>Rosa</i> sp.....	Argentina, Cuba, Puer- to Rico.	1		2	N. Y.
<i>Cercosporina rhododendri</i> (Ferr.) Sacc.: <i>Rhododendron</i> sp.....	Canada.....			2	Wash.
<i>Cerebella andropogonis</i> Ces.: <i>Paspalum dilatatum</i> (dallis grass).....	Australia.....			1	Md.
<i>Paspalum</i> sp.....	do.....			1	N. Y.
<i>Claviceps microcephala</i> (Wallr.) L. Tul.: <i>Cynodon plestostachyum</i>	Union of South Africa.....			1	D. C.
<i>Claviceps paspali</i> (Schw.) Stevens & Hall: <i>Paspalum</i> sp.....	Canal Zone, Costa Rica.....			8	N. Y.
<i>Coleosporium solidaginis</i> (Schw.) Thum.: <i>Callistephus chinensis</i> (China-aster).....	Cuba.....	1			Fla.*
<i>Colletotrichum graminicolum</i> (Ces.) Wils.: <i>Triticum aestivum</i> (wheat).....	Argentina.....	1			La.
<i>Colletotrichum incarnatum</i> Zimm.: <i>Theobroma cacao</i> (cacao).....	Cuba.....	1			Fla.*
<i>Colletotrichum orchidearum</i> Allesch: <i>Ansellia africana</i> (orchid).....	England.....			1	N. J.
<i>Cattleya</i> sp. (orchid).....	Venezuela.....			1	P. R.
<i>Cymbidium</i> sp. (orchid).....	India, Japan.....			2	Calif.*, D. C.
<i>Dendrobium chrystotozum</i> (orchid).....	Thailand.....			1	Calif.
<i>Epidendrum</i> sp. (orchid).....	Guadeloupe.....			1	P. R.
<i>Laelia</i> sp. (orchid).....	Mexico.....			1	Tex.
<i>Lochneria</i> sp. (orchid).....	Guatemala.....			1	Calif.*
<i>Odontoglossum schlieperianum</i> (or- chid).....	Costa Rica.....			1	Calif.*
<i>Orehid</i>	Mexico, Venezuela.....	1		2	N. Y., P. R., Tex.
<i>Phalaenopsis grandiflora</i> (orchid).....	Philippines.....			1	Calif.*
<i>Phalaenopsis schilleriana</i> (orchid).....	do.....			1	Calif.*
<i>Phalaenopsis</i> sp. (orchid).....	England.....			1	N. J.
<i>Schomburgkia</i> sp. (orchid).....	Mexico.....			1	Tex.
<i>Stanhopea</i> sp. (orchid).....	Costa Rica, Mexico.....			2	N. Y., Tex.
<i>Trichopilia tortilis</i> (orchid).....	Mexico.....			2	Calif.*
<i>Vanda sanderiana</i> (orchid).....	Philippines.....			1	Calif.*
<i>Vanda</i> sp. (orchid).....	do.....			1	N. J.
<i>Vanilla</i> sp. (orchid).....	Honduras.....			1	Calif.*
<i>Colletotrichum orchidearum odontoglossi</i> Verpl. & Cl.: <i>Odontoglossum</i> sp. (orchid).....	England.....			1	N. J.
<i>Coniosporium shiraianum</i> (Syd.) Bub.: <i>Bambusa</i> sp.....	Unknown (via England).....			1	Wash.

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<i>Coryneopsis microsticta</i> Grove: <i>Rhododendron</i> sp.-----	England-----			1	Wash.
<i>Coryneum beijerinckii</i> Oud.: <i>Amygdalus persica</i> (peach)-----	Mexico-----	1			Tex.
<i>Coryneum microstictoides</i> Sacc. & Panz.: <i>Paeonia moutan</i> var.-----	France, Japan-----			2	Calif.*
<i>Cumminsella sanguinea</i> (Pk.) Arth.: <i>Mahonia aquifolium</i> (?)-----	British Columbia-----			1	N. J.
<i>Cylindrosporium colchici</i> Sacc. (?): <i>Colchicum autumnale</i> (autumn crocus)-----	Hungary, Yugoslavia-----			2	N. Y.
<i>Cytospora ambiens</i> Sacc.: <i>Salix</i> sp. (willow)-----	England-----	1			N. Y.
<i>Dendrodochium lycopersici</i> March.: <i>Lycopersicon esculentum</i> (tomato)-----	Mexico-----	2			Tex.
<i>Diaporthe phaseolorum</i> (Cke. & Ell.) Sacc.: <i>Phaseolus</i> sp. (string bean)-----	Brazil, Mexico, Virgin Islands.	11	2		Ariz., Mass., Pa., Tex.
<i>Diaporthe phaseolorum</i> (Cke. & Ell.) Sacc. (?): <i>Phaseolus lunatus macrocarpus</i> (lima bean).-----	Bahamas-----		1		Fla.*
<i>Didymellina iridis</i> (Desm.) Hoehn.: <i>Iris</i> sp.-----	Mexico-----			1	Ariz.
<i>Diplodia henriquesiana</i> Trav. & Spessa.: <i>Cattleya</i> sp.-----	Peru-----			1	N. J.
Orchid-----	Chile, Colombia-----		1	1	N. Y.
<i>Diplodia paraphysaria</i> Sacc.: Orchid-----	Guatemala, Venezuela-----			2	P. R.
<i>Diplodia tubericola</i> (E. & E.) Taub.: <i>Ipomoea batatas</i> (sweetpotato)-----	Argentina, Brazil, Cuba, Hawaii, Mex- ico, Philippines, Trin- idad.		10		Ga., La., Pa., Tex.
<i>Ditylenchus dipsaci</i> (Kuhn) Filipjev: <i>Narcissus</i> sp.-----	Japan-----			1	N. Y.
<i>Elsinoe australis</i> Bitancourt & Jenkins: <i>Citrus sinensis</i> (orange)-----	Argentina, Brazil-----			3	Mass., N. Y., Tex.
<i>Elsinoe sawcettii</i> Bitancourt & Jenkins: <i>Citrus limona</i> (lemon)-----	Uruguay-----			1	Tex.
<i>Epicoccum nigrum</i> Link: <i>Capsicum annuum</i> (pepper)-----	Mexico-----	8			Ariz.
<i>Lycopersicon esculentum</i> (tomato)-----	do-----	1			Tex.
<i>Erinella longispora</i> (Karst.) Sacc.: Decayed wood-----	Brazil-----	1			N. J.
<i>Erysiphe cichoracearum</i> DC.: <i>Cucurbita maxima</i> (squash)-----	Mexico-----	3			Tex.
<i>Zinnia</i> sp.-----	do-----	2			Tex.
<i>Eutypella cocos</i> Ferd. & Winge: <i>Cocos nucifera</i> (coconut)-----	Canal Zone-----	1			N. Y.
<i>Fusarium heterosporum</i> Nees: <i>Paspalum</i> sp.-----	Australia-----			1	N. Y.
<i>Fusarium moniliforme</i> Sheld.: <i>Zea mays</i> (corn)-----	Union of South Africa-----	1			Wash.
<i>Fusarium niveum</i> EFS. <i>Cucumis sativus</i> (cucumber)-----	Mexico-----	1			Tex.
<i>Gloeosporium affine</i> Sacc.: <i>Dendrobium chrysotozum</i> (orchid)-----	Thailand-----			2	Calif.*
<i>Epidendrum</i> sp. (orchid)-----	Costa Rica-----			1	Wash.
<i>Gloeosporium cattleyae</i> Sacc.: <i>Cattleya mendelii</i> (orchid)-----	Colombia-----			1	P. R.
<i>Cattleya</i> sp. (orchid)-----	Mexico-----			1	Tex.
<i>Gloeosporium cinctum</i> B. & C.: <i>Dendrobium atroviolaceum</i> (orchid)-----	Australia-----			1	Calif.*
<i>Dendrobium spectabile</i> -----	do-----			1	Calif.*
<i>Odontoglossum</i> sp. (orchid)-----	Mexico-----			1	Tex.
<i>Gloeosporium cymbidii</i> Verpl.: <i>Cymbidium pauwelsii multicolor</i> (or- chid).-----	Japan-----			1	Wash.
<i>Cymbidium</i> sp.-----	do-----			2	Wash.
<i>Gloeosporium laetiae</i> Henn.: <i>Laelia purpurata</i> (orchid)-----	Brazil-----			1	Calif.*
<i>Gloeosporium lebbeck</i> Syd.: <i>Albizia lebbeck</i> -----	Honduras-----			1	La.
<i>Gloeosporium orchidearum</i> Karst. & Har.: Orchid-----	Venezuela-----			1	N. Y.

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<i>Glomerella cingulata</i> (Stonem.) Spauld. & Schrenk:					
<i>Hibiscus esculentus</i> (okra)	Puerto Rico		1		Tex.
<i>Gymnosporangium globosum</i> Farl.:					
<i>Crataegus</i> sp.	Mexico	1			Tex.
<i>Helicoma olivaceum</i> (Karsten):					
<i>Paeonia moutan</i>	Japan			1	N. J.
<i>Helminthosporium turcicum</i> Pass.:					
<i>Saccharum officinarum</i> (sugarcane)	Mexico	1			Tex.
<i>Hendersonia camelliae</i> Pass.:					
<i>Camellia japonica</i> (camellia)	do			1	N. J.
<i>Heterosporium ornithogali</i> Klotzsch.:					
<i>Ornithogalum thyrsoides</i> (chinkeri- chee)	Union of South Africa	1			Ill.
Jonathan spot:					
<i>Malus sylvestris</i> (apple)	Japan		1		Wash.
<i>Kuehneola malvicola</i> (Speg.) Arth.:					
<i>Hibiscus cardiophyllus</i>	Mexico			1	Tex.
<i>Hibiscus syriacus</i> (shrub-althea)	do	1			Tex.
<i>Leptosphaeria eustoma</i> (Fr.) Sacc.:					
<i>Musa</i> sp. (banana)	Cuba		1		N. Y.
<i>Leptothyrium macrothectum</i> Fekl.:					
<i>Paeonia moutan</i>	Japan			1	N. J.
<i>Macrophoma oncidii</i> P. Henn.:					
<i>Cattleya</i> sp. (orchid)	Mexico			1	Tex.
<i>Cypripedium callosum</i> (orchid)	Thailand			1	Calif.*
<i>Cypripedium haynaldianum</i> (orchid)	Philippines			1	Calif.*
<i>Macrosporium cucumerinum</i> E. & E.:					
<i>Cucurbita maxima</i> (squash)	Mexico	1			Tex.
<i>Marsonia juglandis</i> (Lib.) Sacc.:					
<i>Juglans</i> sp. (walnut)	do	1			Tex.
<i>Melampsora medusae</i> Thuem.:					
<i>Populus</i> sp. (cottonwood)	do	1			Tex.
<i>Melanconium betulinum</i> (Pers.) Kleb.:					
<i>Betula</i> sp. (birch)	England	1			N. Y.
<i>Melanconium sacchari</i> Mass.:					
<i>Saccharum officinarum</i> (sugarcane)	Mexico, Philippines	1	1		Pa., Tex.
<i>Meliola citricola</i> Syd.:					
<i>Citrus nobilis deliciosa</i> (tangerine)	China	2			Wash.
<i>Microdiplodia wistariae</i> Grove:					
<i>Wisteria</i> sp.	Japan			2	Calif.*
<i>Monilochaetes infuscans</i> Ell. & Hals.:					
<i>Ipomoea batatas</i> (sweetpotato)	Mexico	4			Ariz., Tex.
<i>Mycosphaerella brassicicola</i> (Fr.) Lindau:					
<i>Brassica oleracea capitata</i> (cabbage)	Ireland		1		Tex.
<i>Mycosphaerella citrullina</i> (Smith) Gross.:					
<i>Citrullus vulgaris</i> (watermelon)	Cuba	1			N. Y.
<i>Cucumis anguria</i> (West Indian gher- kin)	Haiti	1			N. Y.
<i>Cucumis sativus</i> (cucumber)	Cuba	22	1		N. Y., Tex.
<i>Cucurbita maxima</i> (squash)	Cuba, Japan, Union of South Africa	1	2		N. Y.
<i>Luffa cylindrica</i> (dish clout)	Cuba	1			N. Y.
<i>Momordica charantia</i> (balsam-pear)	do	3			N. Y.
<i>Momordica</i> sp.	do	1			N. Y.
<i>Sechium edule</i> (chayote)	Cuba, Jamaica	10	2		N. Y.
<i>Mycosphaerella pinodes</i> (Berk. & Blox) R. E. Stone:					
<i>Pisum sativum</i> (pea)	Portugal	1			Pa.
<i>Vicia faba</i> (fava bean)	do		1		N. Y.
<i>Oidium euonymi-japonici</i> (Arcang.) Sacc.:					
<i>Euonymus japonica</i>	Mexico	1			Tex.
<i>Euonymus japonica variegata</i>	Japan		1		Wash.
<i>Oospora citri-aurantii</i> C. O. Smith:					
<i>Citrus aurantifolia</i> (lime)	Cuba, Haiti, Mexico, Puerto Rico	2	5		Pa., Tex.
<i>Citrus grandis</i> (grapefruit)	Argentina, Puerto Rico		2		Pa.
<i>Citrus sinensis</i> (orange)	Haiti		1		Pa.
<i>Fortunella japonica</i> (kumquat)	Philippines		1		Tex.
<i>Panagrolaimus rigidus</i> (Schneider) Thorne:					
Soil around banana plant	Costa Rica			1	N. Y.
<i>Paraphelenchus pseudoparietinus</i> Mic.:					
<i>Salvia officinalis</i> (sage)	Spain	1			N. Y.
<i>Peronospora effusa</i> (Grev.) Ces.:					
<i>Chenopodium album</i> (lambs-quarters)	Mexico	1			Ariz.
<i>Spinacia oleracea</i> (spinach)	do	101			Ariz., Tex.

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<i>Peronospora pisi</i> (DeBy.) Syd.: <i>Pisum sativum</i> (pea).....	Chile, Portugal.....		3		N. Y.
<i>Pestalozzia guepini</i> Desm.: <i>Ananas sativus</i> (pineapple).....	Mexico.....	1			Tex.
<i>Pestalozzia palmarum</i> Cke.: <i>Cocos nucifera</i> (coconut).....	Canal Zone.....	1			N. Y.
Palm.....	Brazil.....		1		N. Y.
<i>Pestalozzia rhododendri</i> (D. Sacc.) Guba: <i>Azalea indica</i>	Japan.....			4	Calif.*
<i>Pezizella lythri</i> (Desm.) Shear & Dodge: <i>Acer argutum</i>	do.....			1	Wash.
<i>Acer carpinifolium</i> (hornbeam maple).....	do.....			2	Wash.
<i>Paeonia moutan</i>	France, Japan.....			3	Calif.*, Wash.
<i>Paeonia</i> sp.....	Japan.....			1	N. J.
<i>Thuja</i> sp.....	Canada (?).....			1	Wash.
<i>Trachycarpus excelsa</i> (windmill palm).....	Japan.....			1	Wash.
<i>Phleospora multumaculans</i> Heald. & Wolf.: <i>Juglans</i> sp. (walnut).....	Mexico.....	1			Tex.
<i>Phoma bakeriana</i> Sacc.: <i>Vigna sinensis</i> (cowpea).....	Dutch Guiana.....		1		La.
<i>Phoma betae</i> (Oud.) Frank: <i>Beta vulgaris cicla</i> (Swiss chard).....	Cuba.....	1			N. Y.
<i>Phoma camelliae</i> Pass.: <i>Camellia japonica</i> (camellia).....	Japan.....			1	Wash.
<i>Phoma citricarpa</i> MeAlp.: <i>Citrus grandis</i> (grapefruit).....	Union of South Africa.....		1		N. Y.
<i>Citrus nobilis deliciosa</i> (tangerine).....	China.....	1			Wash.
<i>Citrus sinensis</i> (orange).....	Union of South Africa.....		1		N. Y.
<i>Phomopsis magnolicola</i> Died.: <i>Magnolia</i> sp.....	Japan.....			1	Wash.
<i>Phomopsis vexans</i> (Facc. & Syd.) Harter: <i>Solanum melongena</i> (eggplant).....	Martinique.....		1		Tex.
<i>Phyllachora maydis</i> Maubl.: <i>Zea mays</i> (corn).....	Guatemala.....	1			N. Y.
<i>Phyllosticta berolinensis</i> Henn.: <i>Rhododendron</i> sp.....	England.....			1	Wash.
<i>Phyllosticta erythroxyli</i> Graz.: <i>Erythroxyylon coca</i> (cocaine-tree).....	Peru.....	1			N. Y.
<i>Phyllosticta galactis</i> (Cooke) E. & E.: <i>Galax aphylla</i> (galax).....	England.....		1		N. Y.
<i>Phyllosticta gardeniae</i> Cke.: <i>Gardenia florida</i> (Cape-jasmine).....	Cuba.....	1			Fla.*
<i>Phyllosticta laeliae</i> Keissler: <i>Cattleya</i> sp. (orchid).....	Costa Rica.....			1	Wash.
<i>Physalospora cattleyae</i> Maubl. & Lasn.: Orchid.....	Guatemala.....			1	P. R.
<i>Physalospora japonica</i> Togasbi: <i>Camellia japonica</i> var.....	Japan.....			1	Calif.*
<i>Physalospora orchidearum</i> P. Henn.: <i>Stanhopea</i> sp. (orchid).....	Mexico.....			1	Calif.*
<i>Trichopitia tortilis</i> (orchid).....	do.....			1	Calif.*
<i>Pleosphaerulina briosiana</i> Pollacci: <i>Medicago sativa</i> (alfalfa).....	Kenya.....		1		N. Y.
<i>Puccinia allii</i> (DC.) Rud.: <i>Allium cepa</i> (onion).....	Spain.....		1		N. Y.
<i>Allium sativum</i> (garlic).....	Argentina, Madeira Is-lands, Spain.....		3		N. Y.
<i>Puccinia coronata</i> Cda.: <i>Avena sativa</i> (oats).....	Bahamas.....	1			Fla.*
<i>Puccinia menthae</i> Pers.: <i>Mentha</i> sp. (mint).....	Mexico.....		1		Tex.
<i>Puccinia ornithogali-thyrsoides</i> Diet.: <i>Ornithogalum</i> sp.....	Union of South Africa.....	1			Wash.
<i>Puccinia polygoni-amphibii persicariae</i> (Str.) Arth.: <i>Polygonum</i> sp.....	Canada.....	1			N. Y.
<i>Pucciniopsis caricae</i> Earle: <i>Carica papaya</i> (papaya).....	Brazil, Cuba, Jamaica.....	10	8		N. Y.
<i>Pyrenochaeta penicillata</i> Fekl.: <i>Medicago sativa</i> (alfalfa).....	Kenya.....		1		N. Y.
<i>Pyrenopeziza medicaginis</i> Fekl.: <i>Medicago sativa</i>	Mexico.....			1	N. J.
<i>Rhabdospora kirghisorum</i> (Thum.) Sacc.: <i>Ephedra vulgaris</i>	China.....	1			N. Y.

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<i>Rotylenchus bradys</i> (Steiner & LeHew.) Filipjev:					
<i>Dioscorea</i> sp. (yam).....	Jamaica.....	1			N. Y.
<i>Schizophyllum commune</i> Fr.:					
<i>Anisoptera thurifera</i>	Philippines.....	1			Wash.
Hardwood log.....	Africa.....	1			N. Y.
<i>Sclerotinia gladioli</i> Drayt.:					
<i>Gladiolus</i> sp.....	Azores, Japan.....			5	Calif.*
<i>Sclerotinia kernerii</i> Wettstein:					
<i>Abies balsamea</i> (balsam fir).....	Newfoundland.....	3			N. Y.
<i>Abies</i> sp.....	Nova Scotia.....	1			N. Y.
<i>Sclerotinia trifoliorum</i> Erikss.:					
<i>Trifolium</i> sp.....	Ireland.....	1			N. Y.
<i>Sclerotium orchidearum</i> P. Henn.:					
Orchid.....	Costa Rica.....			1	Calif.*
<i>Septobasidium prunophilum</i> Couch.:					
<i>Prunus</i> sp.....	Japan.....		1		Calif.*
<i>Septoria apii</i> Chester:					
<i>Apium graveolens</i> (celery).....	Panama.....		1		Tex.
<i>Septoria fructigena</i> Berk. & Curt.:					
<i>Passiflora</i> sp.....	Azores.....		1		Pa.
<i>Septoria hydrangeae</i> Bizz.:					
<i>Hydrangea</i> sp.....	Mexico.....	1			Tex.
<i>Septoria musiva</i> Pk.:					
<i>Populus</i> sp. (cottonwood).....	do.....	1			Tex.
<i>Septoria pisi</i> West.:					
<i>Pisum sativum</i> (pea).....	Chile, Mexico.....	1	1		N. Y., Tex.
<i>Sphaceloma fawcettii</i> scabiosa (McAlp. & Trvon) Jenkins:					
<i>Citrus limonia</i> (lemon).....	Australia.....		1		N. Y.
<i>Sphacelotheca sorghicola</i> (Speg.) Zundel:					
<i>Holcus sorghum</i> var. (broomcorn).....	Argentina.....		1		N. Y.
<i>Sphaerotheca humuli</i> (DC.) Burr.:					
<i>Rosa</i> sp.....	Cuba.....	1			Fla.*
Spindle tuber:					
<i>Solanum tuberosum</i> (potato).....	Peru.....		1		Fla.*
<i>Stachylidium theobromae</i> Turc.:					
<i>Musa paradisiaca</i> (plantain).....	Cuba.....	6			N. Y.
<i>Thecaphora pustulata</i> Clinton:					
<i>Bidens pilosa</i> (?).....	Mexico.....	1			Ariz.
<i>Trochita ilicis</i> (Chev.) Cronan:					
<i>Ilex aquifolium</i> (English holly).....	England.....	1			N. Y.
<i>Trullula olivascens</i> Sacc.:					
<i>Paeonia moulan</i> var.....	France.....			1	Calif.*
<i>Uredo behnickiana</i> P. Henn.:					
<i>Epidendrum</i> sp. (orchid).....	Costa Rica.....			1	N. J.
<i>Oncidium</i> sp. (orchid).....	Costa Rica, Trinidad.....			2	N. J.
<i>Uredo epidendri</i> P. Henn.:					
<i>Epidendrum</i> sp. (orchid).....	Costa Rica.....			1	N. J.
<i>Uredo guacae</i> Mayor:					
<i>Epidendrum</i> sp.....	Venezuela.....			1	N. J.
<i>Uredo incomposita</i> Kern:					
<i>Eleocharis interstincta</i>	Haiti.....	1			N. Y.
<i>Uredo jucunda</i> Syd.:					
<i>Philodendron</i> sp.....	Costa Rica.....			1	N. J.
<i>Uredo oncidii</i> P. Henn.:					
<i>Oncidium lanceanum</i> (orchid).....	England.....			1	Calif.*
<i>Oncidium</i> sp.....	Brazil, England, Guate-mala.....			3	N. J.
<i>Uromyces lespedezae-procumbentis</i> (Schw.) Curt.:					
<i>Lespedeza formosa albiflora</i> (Japanese bushclover).....	Japan.....			2	Wash.
<i>Ustilago nuda</i> (Jens.) Kell. & Sw.:					
<i>Hordeum vulgare</i> (barley).....	Mexico.....	2			Tex.
<i>Ustilago sphaerogena</i> Burr.:					
<i>Echinochloa crus-galli</i>	Japan.....	1			Wash.
<i>Valsa massariana</i> DeNot.:					
<i>Sorbus aucuparia</i>	Greenland.....		1		Pa.
<i>Vermicularia capsici</i> Syd.:					
<i>Capsicum annuum</i> (pepper).....	Haiti, Mexico.....	1		1	N. Y., Tex.
Virus, mosaic:					
<i>Capsicum annuum</i> (pepper).....	Mexico.....	256			Ariz., Tex.
<i>Lycopersicum esculentum</i> (tomato).....	do.....	1			Ariz.
Virus, spotted wilt:					
<i>Lycopersicum esculentum</i>	Cuba, Mexico.....	31			Ariz., Md.

Hosts and diseases

- ABIES:**
Sclerotinia kernerii (Ascomycetes)
- ACER:**
Pezizella lythri (Ascomycetes)
- AGAVE:**
Asterino mexicana (Ascomycetes)
- ALBIZZIA:**
Gloeosporium lebec (Deuteromycetes)
- ALLIUM CEPA:**
Botrytis allii (Deuteromycetes)
Puccinia allii (Promycetes)
- ALLIUM SATIVUM:**
Puccinia allii (Promycetes)
- AMARANTHUS:**
Albugo bliti (Phycmycetes)
- AMYGDALUS PERSICA:**
Coryneum beijerinckii (Deuteromycetes)
- ANANAS:**
Aphelenchoides parietinus (Nematoda)
Pestalozzia guepini (Deuteromycetes)
- ANISOPTERA:**
Schizophyllum commune (Basidiomycetes)
- ANSELLIA—See Orchidaceae**
- APIUM:**
Septoria apii (Deuteromycetes)
- AVENA:**
Puccinia coronata (Promycetes)
- AZALEA:**
Pestalozzia rhododendri (Deuteromycetes)
- BAMBUS:**
Coniosporium shiraianum (Deuteromycetes)
- BETA:**
Phoma betae (Deuteromycetes)
- BETULA:**
Melanconium betulinum (Deuteromycetes)
- BIDENS:**
Thecaphora pustulata (Promycetes)
- BRASSIA—See Orchidaceae**
- BRASSICA OLERACEA CAPITATA:**
Mycosphaerella brassicicola (Ascomycetes)
- CALLISTEPHUS:**
Coleosporium solidaginis (Promycetes)
- CAMELLIA:**
Hendersonia camelliae (Deuteromycetes)
Phoma camelliae (Deuteromycetes)
Physalospora japonica (Ascomycetes)
- CAPSICUM:**
Epicoccum nigrum (Deuteromycetes)
Vermicularia capsici (Deuteromycetes)
 Virus (mosaic)
- CARICA:**
Ascochyta caricae (Deuteromycetes)
Pucciniopsis caricae (Deuteromycetes)
- CATTLEYEA—See Orchidaceae**
- CHENOPODIUM:**
Peronospora effusa (Phycmycetes)
- CITRULLUS:**
Mycosphaerella citrullina (Ascomycetes)
- CITRUS AURANTIFOLIA:**
Bacterium citri (Schizomycetes)
Oospora citri-aurantii (Deuteromycetes)
- CITRUS GRANDIS:**
Bacterium citri (Schizomycetes)
Oospora citri-aurantii (Deuteromycetes)
Phoma citricarpa (Deuteromycetes)
- CITRUS LIMONIA:**
Elsinoe fawcettii (Ascomycetes)
Elsinoe fawcettii scabiosa (Ascomycetes)
- CITRUS NOBILIS DELICIOSA:**
Meliola citricola (Ascomycetes)
Phoma citricarpa (Deuteromycetes)
- CITRUS SINENSIS:**
Bacterium citri (Schizomycetes)
Bacterium syriacae (Schizomycetes)
Elsinoe australis (Ascomycetes)
Oospora citri-aurantii (Deuteromycetes)
Phoma citricarpa (Deuteromycetes)
- CITRUS SP.:**
Bacterium citri (Schizomycetes)
- COCOS:**
Eutypella cocos (Ascomycetes)
Pestalozzia palmarum (Deuteromycetes)
- COFFEA:**
Cercospora coffeicola (Deuteromycetes)
- COLCHICUM:**
Cylindrosporium colchici (Deuteromycetes)
- COLOCASIA:**
Aphelenchoides parietinus (Nematoda)
- CRATAEGUS:**
Gymnosporangium globosum (Promycetes)
- CUCUMIS:**
Mycosphaerella citrullina (Ascomycetes)
Fusarium nivium (Deuteromycetes)
Mycosphaerella citrullina (Ascomycetes)
- CUCURBITA:**
Erysiphe cichoracearum (Ascomycetes)
Macrosporium cucumerinum (Deuteromycetes)
Mycosphaerella citrullina (Ascomycetes)
- CYMBIDIUM—See Orchidaceae**
- CYNODON:**
Claviceps microcephala (Ascomycetes)
- CYPRIPEDIUM—See Orchidaceae**
- DAUCUS:**
Ceratostomella fimbriata (Ascomycetes)
- DENDROBIUM—See Orchidaceae**
- DIOSCOREA:**
Rotylenchus bradys (Nematoda)
- DIANTHUS:**
Alternaria dianthi (Deuteromycetes)
- ECHINOCHLOA:**
Ustilago sphaerogena (Promycetes)
- ELEOCHARIS:**
Uredo incomposita (Promycetes)
- EPHEDRA:**
Rhabdospora kirghisorum (Ascomycetes)
- EPIDENDRUM—See Orchidaceae**
- ERYTHROYLON:**
Phyllosticta erythrolyli (Basidiomycetes)
- EUONYMUS:**
Oidium euonymi japonici (Deuteromycetes)
- FICUS:**
Aphelenchus avenae (Nematoda)
- FORTUNELLA:**
Oospora citri-aurantii (Deuteromycetes)
- GALAX:**
Phyllosticta galactis (Deuteromycetes)
- GARDENIA:**
Phyllosticta gardeniae (Deuteromycetes)
- GLADIOLUS:**
Acrospeira macrosporoidea (Deuteromycetes)
Aspergillus ochraceus (Deuteromycetes)
Sclerotinia gladioli (Ascomycetes)
- HIBISCUS:**
Glomerella cingulata (Ascomycetes)
Kuehneola malvicola (Promycetes)
- HOLCUS:**
Sphacelotheca sorghicola (Promycetes)
- HORDEUM:**
Ustilago nuda (Promycetes)
- HYACINTHUS:**
Aphelenchus avenae (Nematoda)
- HYDRANGEA:**
Septoria hydrangeae (Deuteromycetes)
- ILEX:**
Trochila ilicis (Ascomycetes)
- IPOMOEA:**
Diplodia tubericola (Deuteromycetes)
Monilochaetes infuscans (Deuteromycetes)
- IRIS:**
Didymella iris (Ascomycetes)
- JUGLANS:**
Marsonia juglandis (Deuteromycetes)
Phloeospora multimaculans (Deuteromycetes)
- LACTUCA:**
Bremia lactucae (Phycmycetes)
- LAELIA—See Orchidaceae**
- LESPEDEZA:**
Uromyces lespedezae-procumbentis (Promycetes)
- LOG:**
Schizophyllum commune (Basidiomycetes)
- LILIUM:**
Aphelenchoides parietinus (Nematoda)
Aphelenchus avenae (Nematoda)
- LOCKHARTIA—See Orchidaceae**
- LUFFA:**
Mycosphaerella citrullina (Ascomycetes)
- LYCOPERSICUM:**
Aphelenchoides parietinus (Nematoda)
Dendrodochium lycopersici (Deuteromycetes)
Epicoccum nigrum (Deuteromycetes)
 Virus (mosaic)
 Virus (spotted wilt)
- MAGNOLIA:**
Phomopsis magnolicola (Deuteromycetes)
- MAHONIA:**
Cumminsia sanguinea (Promycetes)

Hosts and diseases—Continued

- MALUS:**
Cephalosporium pammellii purpurascens (Deuteromycetes)
 Jonathan spot
- MEDICAGO:**
Pleosphaerulina briosiana (Ascomycetes)
Pyrenochaeta penicillata (Deuteromycetes)
Pyrenopeziza medicaginis (Ascomycetes)
- MENTHA:**
Puccinia menthae (Promycetes)
- MOMORDICA:**
Mycosphaerella citrullina (Ascomycetes)
- MUSA PARADISIACA:**
Stachyliidium theobromae (Deuteromycetes)
- MUSA SP.:**
Cercospora musae (Deuteromycetes)
Leptosphaeria eustoma (Ascomycetes)
- NARCISSUS:**
Ditylenchus dipsaci (Nematoda)
- NERIUM:**
Bacterium tonellianum (Schizomycetes)
- NICOTIANA:**
Bacterium tabacum (Schizomycetes)
- ODONTIODA**—See Orchidaceae
- ODONTOGLOSSUM**—See Orchidaceae
- ONCIDIUM**—See Orchidaceae
- ORCHIDACEAE:**
Aphelenchoides coffeae (Nematoda)
Cercospora angrei (Deuteromycetes)
Cercospora odontoglossi (Deuteromycetes)
Colletotrichum orchidearum (Deuteromycetes)
Diplodia henriquesiana (Deuteromycetes)
Diplodia paraphysaria (Deuteromycetes)
Gloeosporium affine (Deuteromycetes)
Gloeosporium cattleyae (Deuteromycetes)
Gloeosporium cinctum (Deuteromycetes)
Gloeosporium cymbidii (Deuteromycetes)
Gloeosporium laeliae (Deuteromycetes)
Gloeosporium orchidearum (Deuteromycetes)
Macrophoma oncidii (Deuteromycetes)
Phyllosticta laeliae (Deuteromycetes)
Phyaslopora cattleyae (Ascomycetes)
Phyaslopora orchidearum (Ascomycetes)
Sclerotium orchidearum (Deuteromycetes)
Uredo behnickiana (Promycetes)
Uredo epidendri (Promycetes)
Uredo guavae (Promycetes)
Uredo oncidii (Promycetes)
- ORNITHOGALUM:**
Heterosporium ornithogali (Deuteromycetes)
Puccinia ornithogali-thyrsoides (Promycetes)
- PAEONIA:**
Coryneum microstictoides (Deuteromycetes)
Helicoma olivaceum (Deuteromycetes)
Leptothyrium macrothecium (Deuteromycetes)
Peziella lythri (Ascomycetes)
Trullula olivascens (Deuteromycetes)
- PALM:**
Pestalozzia palmarum (Deuteromycetes)
- PASPALUM:**
Cerebella andropogonis (Deuteromycetes)
Claviceps paspali (Ascomycetes)
Fusarium heterosporum (Deuteromycetes)
- PASSIFLORA:**
Septoria fructigena (Deuteromycetes)
- PERSEA:**
Asterina delitescens (Ascomycetes)
- PHASEOLUS LUNATUS MACROCARPUS:**
Diaporthe phaseolorum (Ascomycetes)
- PHASEOLUS SP.** (string bean):
Diaporthe phaseolorum (Ascomycetes)
- PHALAENOPSIS**—See Orchidaceae
- PHILODENDRON:**
Uredo jucunda (Promycetes)
- PINUS:**
Ceratostomella ips (Ascomycetes)
- PISUM:**
Mycosphaerella pinodes (Ascomycetes)
Peronospora pisi (Phycomyces)
Septoria pisi (Deuteromycetes)
- POLYGONUM:**
Puccinia polygoni-amphibii persicariae (Promycetes)
- POPULUS:**
Melampsora medusae (Promycetes)
Septoria musiva (Deuteromycetes)
- PRUNUS:**
Septobasidium prunophilum (Basidiomycetes)
- RHODODENDRON:**
Cercospora rhododendri (Deuteromycetes)
Corynepopsis microsticta (Deuteromycetes)
Phyllosticta berolinensis (Deuteromycetes)
- ROSA:**
Cercospora rosicola (Deuteromycetes)
Sphaerotheca humuli (Ascomycetes)
- SACCHARUM:**
Helminthosporium turcicum (Deuteromycetes)
Melanconium sacchari (Deuteromycetes)
- SALIX:**
Cytospora ambiens (Deuteromycetes)
- SALVIA:**
Aphelenchus avenae (Nematoda)
Paraphelenchus pseudoparietinus (Nematoda)
- SCHOMBURGKIA**—See Orchidaceae
- SECHIUM:**
Mycosphaerella citrullina (Ascomycetes)
- SOIL:**
Aphelenchus avenae (Nematoda)
Panagrolaimus rigidus (Nematoda)
- SOLANUM MELONGENA:**
Phomopsis vexans (Deuteromycetes)
- SOLANUM TUBEROSUM:**
 Spindle tuber
- SORBUS:**
Valsa massarina (Ascomycetes)
- SPINACIA:**
Peronospora effusa (Phycomyces)
- STANHOPEA**—See Orchidaceae
- THEOBROMA:**
Colletotrichum incarnatum (Deuteromycetes)
- THUYA:**
Peziella lythri (Ascomycetes)
- TRACHYCARPUS:**
Peziella lythri (Ascomycetes)
- TRICHOPILIA**—See Orchidaceae
- TRIFOLIUM SP.:**
Sclerotinia trifoliorum (Ascomycetes)
- TRITICUM:**
Colletotrichum graminicolum (Deuteromycetes)
- THEOBROMA:**
Colletotrichum incarnatum (Deuteromycetes)
- ULMUS:**
Ceratostomella ulmi (Ascomycetes)
- VANILLA**—See Orchidaceae
- VICIA:**
Mycosphaerella pinodes (Ascomycetes)
- VIGNA:**
Phoma bakeriana (Deuteromycetes)
- WISTERIA:**
Microdiplodia wistariae (Deuteromycetes)
- WOOD:**
Erinella longispora (Ascomycetes)
- XANTHOSOMA:**
Aphelenchus avenae (Nematoda)
- ZEA:**
Fusarium moniliforme (Deuteromycetes)
Phyllachora maydis (Ascomycetes)
- ZINGIBER:**
Aphelenchoides parietinus (Nematoda)
- ZINNIA:**
Erysiphe cichoracearum (Ascomycetes)

Country of origin and diseases

- AFRICA:**
Schizophyllum commune
- ARGENTINA:**
Cercospora rosicola
Colletotrichum graminicolum
Diplodia tubericola
Elsinoe australis
Oospora citri-aurantii
Puccinia allii
Sphaelotheca sorghicola
- AUSTRALIA:**
Cerebella andropogonis
Fusarium heterosporum
Gloeosporium cinctum
Sphaceloma faucentii scabiosa
- AZORES:**
Aphelenchoides parietinus
Sclerotinia gladioli
Septoria fructigena

Country of origin and diseases—Continued

- BAHAMAS:**
Diaporthe phaseolorum
Puccinia coronata
- BERMUDA:**
Alternaria dianthi
Aphelenchoides parietinus
Aphelenchus avenae
- BRAZIL:**
Ascochyta caricac
Diaporthe phaseolorum
Diplodia tubericola
Elsinoe australis
Erinella longispora
Gloeosporium laeliae
Pestalozzia palmarum
Pucciniopsis caricac
Uredo oncidii
- BRITISH COLUMBIA:**
Cumminsia sanguinea
- CANADA:**
Bacterium tabacum
Cercosporina rhododendri
Peizizella lythri
Puccinia polygoni-amphibii persicariae
- CANAL ZONE**
Claviceps paspali
Eutypella cocos
Pestalozzia palmarum
- CHILE:**
Botrytis allii
Diplodia henriquesiana
Peronospora pisi
Septoria pisi
- CHINA:**
Aphelenchoides parietinus
Bacterium citri
Meliola citricola
Phoma citricarpa
Rhabdospora kirghisorum
- COLOMBIA:**
Aphelenchoides coffeae
Diplodia henriquesiana
Gloeosporium cattleyae
- COSTA RICA:**
Aphelenchus avenae
Cercospora musae
Claviceps paspali
Colletotrichum orchidearum
Gloeosporium affine
Panagrolaimus rigidus
Phyllosticta laeliae
Sclerotium orchidearum
Uredo behnickiana
Uredo epidendri
Uredo jucunda
- CUBA:**
Aphelenchoides parietinus
Aphelenchus avenae
Cercospora rosicola
Coleosporium solidaginis
Colletotrichum incarnatum
Diplodia tubericola
Mycosphaerella citrullina
Oospora citri-aurantii
Phoma betae
Phyllosticta gardeniae
Pucciniopsis caricac
Sphaerotheca humuli
Stachylidium theobromae
Virus (spotted wilt)
- DUTCH EAST INDIES:**
Bacterium citri
- DUTCH GUIANA:**
Phoma hateriana
- ENGLAND:**
Aphelenchus avenae
Ceratostomella fimbriata
Ceratostomella ips
Ceratostomella ulmi
Cercospora angreci
Cercospora odontoglossi
Colletotrichum orchidearum
Coryneopsis microsticta
Cytospora ambiens
Melanconium betulinum
Phyllosticta berolinensis
Phyllosticta galactis
Trochila ilicis
Uredo oncidii
- FRANCE:**
Coryneum microstictoides
Peizizella lythri
Trullula olivascens
- GREENLAND:**
Valsa massariana
- GUADELOUPE:**
Colletotrichum orchidearum
- GUATEMALA:**
Cercospora musae
Colletotrichum orchidearum
Diplodia paraphysaria
Phyllachora maydis
Physolepora cattleyae
Uredo oncidii
- HAITI:**
Cercospora musae
Mycosphaerella citrullina
Oospora citri-aurantii
Uredo incomposita
Vermicularia capsici
- HAWAII:**
Diplodia tubericola
- HONDURAS:**
Colletotrichum orchidearum
Gloeosporium lebec
- HUNGARY:**
Cylindrosporium colchici
- INDIA:**
Bacterium citri
Colletotrichum orchidearum
- IRELAND:**
Mycosphaerella brassicicola
Sclerotinia trifoliorum
- JAMAICA:**
Cercospora musae
Mycosphaerella citrullina
Pucciniopsis caricac
Rotylenchus bradyi
- JAPAN:**
Aphelenchoides parietinus
Bacterium citri
Cephalosporium pammellii purpurascens
Colletotrichum orchidearum
Coryneum microstictoides
Ditylenchus dipsaci
Gloeosporium cymbidii
Helicoma olivaceum
Jonathan spot
Leptothyrium macrothecium
Microdipodia ustariae
Mycosphaerella citrullina
Oidium euonymi japonici
Pestalozzia rhododendri
Peizizella lythri
Phoma camelliae
Phonopsis magnoliicola
Physolepora japonica
Sclerotinia gladioli
Septobasidium prunophilum
Uromyces lespedezae-procumbentis
Ustilago sphaerogena
- JAVA:**
Bacterium citri
- KENYA:**
Pleosphaerulina briosiana
Pyrenochaeta peacillota
- MADEIRA ISLANDS:**
Puccinia allii
- MARTINIQUE:**
Phomopsis vezans
- MEXICO:**
Albugo bliti
Aphelenchoides parietinus
Asterina delitescens
Asterina mexicana
Bacterium syringae
Bacterium tonellianum
Botrytis allii
Bremia lactucae
Cercospora ungrei
Cercospora coffeicola
Cercospora musae
Colletotrichum orchidearum
Coryneum beijerinckii
Dendrodochium lycopersici
Diaporthe phaseolorum
Didymella iridis
Diplodia tubericola
Epicoccum nigrum

Country of origin and diseases—Continued

MEXICO—Continued.

Erysiphe cichoracearum
Fusarium niveum
Gloeosporium cattleae
Gloeosporium cinctum
Gymnosporangium globosum
Helminthosporium turcicum
Hendersonia camelliae
Kuehneola mulvicola
Leptosphaeria eustoma
Macrophoma oncidii
Macrosporium cucumerinum
Marsonia juglandis
Melampsora medusae
Melanconium sacchari
Monilochaetes infuscans
Oidium euonymi-japonici
Oospora citri-aurantii
Peronospora effusa
Pestalozzia guepini
Phleospora multimaculans
Phyalospora orchidearum
Puccinia menthae
Pyrenopeziza medicaginis
Septoria hydrangeae
Septoria musiva
Septoria pisi
Thecaphora pustulata
Ustilago nuda
Vermicularia capsici
 Virus (mosaic)
 Virus (spotted wilt)

NEWFOUNDLAND:

Sclerotinia kernerii

NEW ZEALAND:

Acrospira macrosporoidea

NOVA SCOTIA:

Sclerotinia kernerii

PANAMA:

Septoria apii

PERU:

Diplodia henriquesiana
Phyllosticta erythrcyili
 Spindle tuber

PHILIPPINES:

Bacterium citri
Colletotrichum orchidearum

PHILIPPINES—Continued.

Diplodia tubericola
Macrophoma oncidii
Melanconium sacchari
Oospora citri-aurantii
Schizophyllum commune

PORTUGAL:

Aphelenchus avenae
Mycosphaerella pinodes
Peronospora pisi

PUERTO RICO:

Cercospora rosicola
Glomerella cingulata
Oospora citri-aurantii

SPAIN:

Aphelenchus avenae
Paraphelenchus pseudoparietinus
Puccinia allii

THAILAND:

Colletotrichum orchidearum
Gloeosporium affine
Macrophoma oncidii

TRINIDAD:

Diplodia tubericola
Uredo behnickiana

TURKEY:

Aspergillus ochraceus

UNION OF SOUTH AFRICA:

Claviceps microcephala
Fusarium moniliforme
Heterosporium ornithogali
Mycosphaerella citrullina
Phoma citricarpa
Puccinia ornithogali-thyrsoides

UNKNOWN (via England):

Contosporium shiraianum

URUGUAY:

Elsinoe fawcettii

VENEZUELA:

Colletotrichum orchidearum
Diplodia paraphysaria
Gloeosporium orchidearum
Uredo guacae

VIRGIN ISLANDS:

Diaporthe phaseolorum

YUGOSLAVIA:

Cylindrosporium colchici

United States Department of Agriculture

BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

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United States Department of Agriculture
Bureau of Entomology and Plant Quarantine

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Compiled by Maude A. Thompson, Assistant
Division of Domestic Plant Quarantines
Bureau of Entomology and Plant Quarantine



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ORGANIZATION OF THE BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

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E. R. SASSER, *in Charge, Division of Foreign Plant Quarantines.*
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(headquarters, Greenfield, Mass.).
E. G. BREWER, *in Field Charge, Japanese Beetle and Gypsy Moth and Brown-Tail*
Moth Quarantines, and Dutch Elm Disease Eradication (headquarters, Bloomfield,
N. J.).
R. E. McDONALD, *in Field Charge, Pink Bollworm and Thurberia Weevil Quar-*
antines (headquarters, San Antonio, Tex.).
P. A. HOIDALE, *in Field Charge, Mexican Fruitfly Quarantine (headquarters,*
Harlingen, Tex.).
CLAUDE WAKELAND, *in Field Charge, Grasshopper Control (headquarters, Denver,*
Col.).
A. C. BAKER, *in Field Charge, Fruitfly Investigations (headquarters, Mexico*
City, Mexico).

CUMULATIVE INDEX TO SERVICE AND REGULATORY ANNOUNCEMENTS

Nos. 1 to 149, inclusive (1914-41),¹ Bureau of Entomology and Plant Quarantine

Compiled by MAUDE A. THOMPSON, *assistant, Division of Domestic Plant Quarantines, Bureau of Entomology and Plant Quarantine,*

FOREWORD

The Service and Regulatory Announcements, first published monthly in 1914 and later quarterly, constitute a permanent record of the quarantine and regulatory orders issued under the Plant Quarantine Act of 1912 and certain related acts, including the text of the quarantines and regulations thereunder, the more important circulars, decisions, press notices, and administrative instructions, explanatory of, or bearing on, such quarantines. In addition, items of practical value and historic interest may be traced through reports of public conferences, such as the status of early infestations of a given pest of economic importance even though no Federal quarantine was promulgated. The organization of the present Bureau and of the preceding Bureau, Administration, and Board charged with administering the act are recorded in the announcements as far back as 1927. Press notices of the more important personnel appointments will also be found.

Some State quarantine matters published in the announcements include citations to the Supreme Court decision concerning the validity of State quarantines in relation to the Federal Plant Quarantine Act. Summaries of the State quarantines that are enforced under the provisions of the terminal inspection procedure will also be found.

The cumulative index of these announcements as originally compiled in 1934 by Horace S. Dean to cover the years 1914-33, inclusive, has proved to be extremely valuable. Plant quarantine inspectors and administrative officers have found in it a ready reference to requirements of the plant quarantines of this Department, as promulgated in the above 20-year period, as well as the import restrictions of a number of foreign countries. The present compilation, which brings the former work forward and includes material through 1941 classified under similar subjects from various angles of approach, is the result of a demand on the part of the administrative officers and inspectors for a complete cumulative index. There will be found as heretofore several lists valuable in themselves because of their completeness. For example, each quarantine is listed with all title changes, revisions, amendments, and administrative instructions pertinent thereto that have been issued, together with their effective dates.

In a few instances items which were not published in the announcement series have been listed, including for the most part notices and circulars issued by the Federal Horticultural Board before publication of the series was begun.

Anyone using this index will usually find it more expedient to refer directly to the major quarantine topic concerned; e. g., should he wish to find reference to a circular dealing with the importation of nursery stock by mail, he would turn to Nursery stock, plant and seed quarantine (No. 37) and locate the desired information under "mail, importation by." For information as to treatment requirements for a given pest, he would turn to the quarantine pertaining to that pest.

The abbreviations "H. B.," "P. Q. C. A.," "B. P. Q.," and "B. E. P. Q." are used to designate circulars in the numbered series published by the Federal Horticultural Board, the Plant Quarantine and Control Administration, the Bureau of Plant Quarantine, and the Bureau of Entomology and Plant Quarantine, respectively, of which a complete numerical list will be found. "S. R. A." as used in the index is an abbreviation for Service and Regulatory Announcements.

Mr. Dean has been freely consulted in the work of compiling the present index, and his experience and advice have been of real value.

¹ This index brings forward, with some revisions, the "Cumulative Index to Service and Regulatory Announcements Nos. 1 to 117, inclusive (1914-33)" compiled by Horace S. Dean, Plant Quarantine Inspector, Division of Foreign Plant Quarantines, Bureau of Plant Quarantine.

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P. Q. C. A. 282, effective June 21, 1930. Administrative instructions. Extension of production and harvesting period of Florida grapes and host vegetables. (Modifies P. Q. C. A. 272; superseded by P. Q. C. A. 288)	1930-70
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B. E. P. Q. 390, March 19, 1936. Plant-quarantine import restrictions, British colony and protectorate of Sierra Leone		1936-36
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B. E. P. Q. 394, June 1, 1936. List of true bulbs, corms, and tubers. (Supersedes P. Q. C. A. 274)		1936-43
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B. E. P. Q. 396, June 1, 1936. Plant-quarantine import restrictions, Dominican Republic		1936-53
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B. E. P. Q. 412, September 16, 1936. Information for prospective importers regarding the entry of foreign narcissus bulbs on and after December 15, 1936. (Supersedes H. B.'s 193, 195, 197, 198, 202, 207, 210, 213; P. Q. C. A.'s 223, 277; B. P. Q. 354, B. E. P. Q. 376. (Modified by B. E. P. Q. 482).	1936-101
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 No. 5, Mexican fruitfly, effective January 15, 1913. Lifted December 1, 1936. (Not in S. R. A.
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 No. 23, Hawaiian cotton, effective July 1, 1915. (Superseded by quarantine No. 47. See
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- No. 35, Quarantine on account of the Japanese beetle, effective June 1, 1919. (Superseded by quarantine No. 40. *See* Japanese beetle quarantines.)
- No. 36, Quarantine on account of the European corn borer, effective October 1, 1918. (Superseded by quarantine No. 43. *See* European corn borer, domestic.)
- No. 37, Nursery stock, plant, and seed quarantine, effective June 1, 1919. (Supersedes the nursery stock regulations. *See* Nursery stock, plant, and seed quarantine (No. 37).)
- No. 38, Black stem rust quarantine, effective May 1, 1919. (*See* Black stem rust quarantine (No. 38).)
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- No. 40, Quarantine on account of the Japanese beetle, effective April 1, 1920. (Supersedes quarantine No. 35; superseded by quarantine No. 48. *See* Japanese beetle quarantines.)
- No. 41, Quarantine on account of the European corn borer and other dangerous insects and plant diseases, effective February 21, 1920. (Quarantine No. 41, revised, superseded quarantine No. 42. *See* European corn borer, foreign.)
- No. 42, Quarantine against Indian corn or maize from Mexico, effective February 21, 1920. (Superseded by quarantine No. 41, revised. *See* Mexican corn quarantine (No. 42).)
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- No. 47, Quarantine against Hawaiian and Puerto Rican cotton, cottonseed, and cottonseed products, effective August 15, 1920. (Supersedes quarantine No. 9 and quarantine No. 23. *See* Hawaiian and Puerto Rican cotton, cottonseed, and cottonseed products quarantine (No. 47).)
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- No. 50, Quarantine on account of the Mexican bean beetle, effective May 1, 1921; lifted July 23, 1921. (*See* Mexican bean beetle quarantine (No. 50).)
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- No. 52, Quarantine on account of the pink bollworm, effective September 10, 1921. (Supersedes quarantine No. 46. *See* Pink bollworm, domestic.)
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- No. 55, Seed or paddy rice quarantine, effective September 1, 1923. (*See* Rice, seed or paddy, quarantine (No. 55).)
- No. 56, Fruit and vegetable quarantine, effective November 1, 1923. (Supersedes quarantine No. 49. *See* Fruit and vegetable quarantine (No. 56).)
- No. 57, Quarantine against Canadian Christmas trees and greens, effective July 1, 1924; lifted July 1, 1928. (*See* Canadian Christmas trees and greens quarantine (No. 57).)
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- No. 59, Quarantine on account of the flag smut disease, effective February 1, 1926. (Supersedes quarantine No. 39. *See* Flag smut quarantine (No. 59).)
- No. 60, Hawaiian and Puerto Rican quarantine covering sand, soil, or earth, with plants, effective March 1, 1926. (*See* Hawaiian and Puerto Rican quarantine covering sand, soil, or earth, with plants, quarantine No. 60.)
- No. 61, Quarantine on account of the *Thurberia* weevil, effective July 15, 1926. (*See* *Thurberia* weevil quarantine (No. 61).)
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- No. 64, Quarantine on account of the Mexican fruitfly, effective August 15, 1927. (*See* Mexican fruitfly quarantine (No. 64).)
- No. 65, Quarantine on account of Woodgate rust, effective November 1, 1928; lifted effective July 31, 1939. (*See* Woodgate rust quarantine (No. 65).)
- No. 66, Quarantine on account of the Asiatic beetle and the Asiatic garden beetle, effective March 15, 1929; lifted March 1, 1930. (*See* Asiatic beetle and Asiatic garden beetle quarantine (No. 66).)
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- No. 70, Quarantine on account of the Dutch elm disease, effective October 21, 1933. (*See* Dutch elm disease, foreign.)
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