

Connecticut Agricultural Experiment Station
New Haven, Connecticut

The Japanese Beetle Quarantine

(Revision Effective May 1, 1927)

W. E. BRITTON, *State Entomologist*

Late in the summer of 1926, Federal scouts discovered a rather general infestation of the Japanese beetle, *Popillia japonica* Newman, on the western end of Long Island, and at several points in Westchester County, New York. One of these was at Port Chester near the Connecticut border. The scouts were then sent into the southwestern corner of Connecticut and proceeded as far as Norwalk. In the center of the city of Stamford, on Broad Street, several adult Japanese beetles were discovered on rose bushes and other shrubs and flowers, eighteen in all being taken over a period of about two weeks. On account of the spread of the Japanese beetle, not only in New York and Connecticut but also in Pennsylvania and New Jersey, it seemed necessary to revise the Federal quarantine, and a hearing was held in Washington September 25; a revised quarantine order was afterward issued, effective October 11. As the Federal quarantine applies only to interstate shipments, and as it seemed best to issue regulations governing possible shipments from Greenwich and Stamford to other points in Connecticut, notice of a hearing was distributed and published, as provided by law. The hearing was held at the Station October 19, and no one appearing in opposition, Quarantine Order No. 11, effective November 10, was issued. The Federal quarantine has since been further revised, effective April 1, 1927, and corresponding rules and regulations have been adopted in State Quarantine Order No. 12, as follows:

STATE OF CONNECTICUT
AGRICULTURAL EXPERIMENT STATION

NEW HAVEN, CONN.

QUARANTINE ORDER No. 12
JAPANESE BEETLE QUARANTINE

The fact has been established by the Agricultural Experiment Station that an injurious insect known as the Japanese beetle (*Popillia japonica*) exists in the town of Stamford, Conn., and in Port Chester, N. Y., and that certain rules and regulations seem necessary in addition to those established in Quarantine Order No. 10, effective November 10, 1926.

Now, therefore, I, Director of the Connecticut Agricultural Experiment Station, pursuant to the provisions of Chapter 107, Public Acts of 1925, do hereby proclaim the towns of Stamford and Greenwich to be under State quarantine, and that it shall be unlawful to move from these towns to other points within the State (1) farm, garden, and orchard products of all kinds; (2) grain and forage crops of all kinds; (3) nursery, ornamental, and greenhouse stock, and all other plants; and (4) sand, soil, earth, peat, compost, and manure, except under the conditions prescribed in the following rules and regulations supplemental to this quarantine.

RULES AND REGULATIONS

Regulation 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* Newman) in any stage of its life cycle.

(b) **REGULATED AREA:** Those portions of the State quarantined on account of the Japanese beetle and designated as being infested or immediately threatened with such infestation.

(c) **FARM PRODUCTS:** Farm, garden and orchard products of all kinds, and grain and forage crops of all kinds.

(d) **NURSERY AND ORNAMENTAL STOCK:** Nursery, ornamental and greenhouse stock and all other plants, plant roots, or portions of plants for ornamental use.

(e) **SAND, SOIL, EARTH, PEAT, COMPOST AND MANURE:** Sand, soil, earth, peat, compost and manure of any kind, and as to either bulk movement or in connection with farm products or nursery and ornamental stock.

(f) **INSPECTOR:** An inspector of the Connecticut Agricultural Experiment Station or the United States Department of Agriculture.

(g) **CERTIFIED SAND, SOIL, EARTH, PEAT, COMPOST AND MANURE:** Sand, soil, earth, peat, compost, or manure determined by the inspector as uninfested by the Japanese beetle, and so certified.

(h) **CERTIFIED GREENHOUSE:** A greenhouse which has complied to the satisfaction of the inspector with the conditions imposed in Regulation 6. This term may apply also to potting beds, heeling-in areas, hotbeds, cold-frames, or similar plots safeguarded and treated in manner and method satisfactory to the inspector.

Regulation 2.—Plants and Plant Products Subject to Restriction.

The restrictions on the movement of plants and plant products and other articles enumerated in the following regulations will be limited to such articles when originating in or moving from the areas now or hereafter designated by the Secretary of Agriculture as regulated or quarantined.

Regulation 3.—Regulated Area.

The towns of Stamford and Greenwich, in Fairfield County, and including any city or borough within their limits.

Regulation 4.—Extension or Reduction of Regulated Area.

The area designated in Regulation 3 may be extended or reduced, as found necessary by the Connecticut Agricultural Experiment Station. Due notice of any extension or reduction of the areas affected thereby will be given in writing to the transportation companies doing business in the areas, and by publication in newspapers selected by the Connecticut Agricultural Experiment Station.

Regulation 5.—Control of Movement of Farm Products and Cut Flowers.

No restrictions are placed by these regulations on the movement of farm products and cut flowers between October 16 and June 14 inclusive.

(a) **Farm Products and Cut Flowers for Which Certification Is Not Required between June 15 and October 15, inclusive.**

(1) No restrictions are placed by these regulations on the movement of Irish potatoes and sweet potatoes when free from soil, watermelons, dried fruits, dried vegetables, seeds, grains, and, when used for packing articles other than fruits and vegetables, hay and straw.

(b) **Farm Products and Cut Flowers for Which Certification Is Required between June 15 and October 15, inclusive.**

Between June 15 and October 15, inclusive, farm products and cut flowers shall not be moved to points outside the regulated area, except as provided in this and the following regulations.

(1) Farm products and cut flowers which have been handled or treated in manner and by method satisfactory to the inspector, to free them from any infestation, may be certified for movement to points outside the regulated area. 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 point of provisions satisfactory to the inspector for the handling and safeguarding of such shipments during inspection.

(2) Farm products and cut flowers originating outside of and concentrated within the regulated area may be certified by the inspector for reshipment to points outside the regulated area when such shipment is made directly from the freight yards or unloading docks, subject to compliance by the shipper with provisions satisfactory to the inspector for the handling and safeguarding of such shipments pending certification and reshipment.

(3) Farm products and cut flowers, when grown in districts where the fact has been established to the satisfaction of the inspector that no infestation exists, may be certified by such inspector for direct shipment from the farms where grown to points outside the regulated area.

(4) Certification of farm products and cut flowers, for movement from freight yards, docks or markets in the regulated area to points outside such area may be withheld by the inspector during the periods of general or unusual flight, resulting in large numbers of beetles in such freight yards, docks, or markets.

Regulation 6.—Control of Movement of Nursery and Ornamental Stock.

(a) No restrictions are placed on the movement of smooth bulbs of tulip, hyacinth, gladiolus, and narcissus from the regulated area to points outside thereof.

(b) No restrictions are placed on the movement of nursery and ornamental stock originating within the regulated area to points *within* such area, except as a condition of maintaining class rating of nurseries and greenhouses [see paragraph (d)].

(c) No restrictions are placed on the movement of nursery and ornamental stock imported under permit in accordance with the provisions of the "Rules and Regulations Supplemental to Notice of Quarantine No. 37, Governing the Importation of Nursery Stock and Other Plants and Seeds into the United States" which may be entered at a port within the regulated area, when reshipped directly from the docks or freighting yards of such port in the original container and marked as to each container as required in the aforesaid rules and regulations as a condition of shipment; namely, to show the general nature and quantity of the contents, the name and address of the consignee, and the country and locality where grown.

(d) Nursery and ornamental stock, other than cut flowers (see Regulation 5) shall not be moved from the regulated area to points outside of such area until certified by the inspector for such movement. For the purpose of such certification, nurseries and greenhouses within the regulated area will be classified as indicated below:

Class I.—Nurseries and greenhouses in districts included in the regulated area but in which districts neither grubs in the soil nor beetles have been found.

Class II.—Nurseries and greenhouses in districts recently or scantily infested by the beetle, but in which nurseries or greenhouses no beetles have been found and in which it has not been possible to determine any soil invasion.

Class III.—Nurseries and greenhouses in which either grubs in the soil or beetles occur, or located in districts known to be generally infested.

(e) Conditions necessary for the maintenance of the classification of nurseries and greenhouses. Nurserymen, florists, dealers, and others, in order to maintain the classified status of their nurseries and greenhouses, shall meet the following requirements governing sales and purchases:

(1) Report immediately in writing to the inspector all their sales or shipments of nursery and ornamental stock to points *outside* the regulated area, and similarly report all sales or shipments of such stock destined to other classified nurseries and greenhouses *within* the regulated area.

(2) Report immediately in writing all purchases of nursery and ornamental stock and of sand, soil, earth, peat, compost, or manure from nurserymen, florists, dealers, or others *within* the regulated area.

(3) Nurserymen, florists, dealers, or others shall restrict their purchases of nursery and ornamental stock within the regulated area to stock which is certified as to each purchase, by the inspector, as free from infestation, and the said certificate shall accompany the article when moved.

Forms for reporting sales and purchases will be supplied by the inspector and will provide for the following information: Name and address of the consignee; name and address of the consignor; date of shipment; kinds of plants and number of each kind; class and quantity of other restricted articles. The forms, when filled out, shall be sent immediately to the nearest local office of the Japanese beetle project.

(f) Control of movement from nurseries and greenhouses in Class I. Upon compliance with the requirements of Section (e) of this regulation, nursery and ornamental stock may be certified by the inspector for shipment from nurseries and greenhouses in Class I to points outside the regulated area without meeting the safeguards prescribed as a condition of shipment of plants originating in nurseries or greenhouses of Classes II and III.

(g) Control of movement from nurseries and greenhouses in Class II. Upon compliance with the requirements of Sections (e) and (i) of this regulation, nursery and ornamental stock may be certified by the inspector for shipment from nurseries and greenhouses of Class II to points outside the regulated area under the following safeguards:

(1) Outdoor-grown nursery and ornamental stock shall be examined by the inspector at the time of digging, as follows: Immediately before digging, surface soil to the depth of four inches shall be removed from about each plant and examined; the plants shall then be lifted and a careful examination made of the exterior of the soil ball and of the sides of the hole from which the plant is removed.

(2) Azaleas, rhododendrons, and other plants which are of such a nature that the removal of the soil may be harmful to the plants may, after October 10, be subjected to the following procedure in lieu of the requirements in paragraph (1): Intensive examination, by the inspector, of the

soil in the block concerned; entire removal of the soil from at least 5 per cent of the plants by the shipper or owner, and a careful examination, by the inspector, of the soil removed.

(h) Control of movement from nurseries and greenhouses in Class III. No movement of nursery and ornamental stock from nurseries and greenhouses of Class III to points *outside* the regulated area shall be allowed except upon compliance with the following restrictions:

(1) Plants with soil: Plants or classes of plants which shall be determined by the inspector as possible of effective treatment with carbon disulphide emulsion or other means may be certified by the inspector for shipment when such treatment is performed under the direction and supervision of, and in manner and method satisfactory to, such inspector.

(2) Plants without soil: Nursery and ornamental stock from which the soil has been entirely removed by washing or shaking may be certified by the inspector for shipment: *Provided*, That plants having roots of such a nature that the inspection thereof is impracticable, shall not be certified until such plants have been treated in accordance with the requirements of the previous paragraph (1).

(3) Removal of soil from plants: The removal of soil from plants offered for inspection and shipment must be performed by the persons, firms, or corporations, or others offering such stock for shipment or sale, under the direction and supervision of, and in manner and method satisfactory to, the inspector.

(i) Conditions governing the certification of stock from greenhouses, including hotbeds, potting beds, heeling-in areas, cold-frames, etc.

The issuance of permits for movement of stock from certified greenhouses, including potting beds, heeling-in areas, hotbeds, cold-frames, or similar plots, will be conditioned on compliance with the following requirements:

(1) Ventilators, doors and all other openings in greenhouses or cold-frames on premises in Class II or Class III shall be kept screened during the period of flight of the beetle, namely, between June 15 and October 15, inclusive, in manner satisfactory to the inspector.

(2) Prior to introduction into nurseries or greenhouses, sand, soil, earth, peat, compost, or manure taken from areas in which Class II or Class III nurseries or greenhouses are located, or which may have been exposed to infestation, must be sterilized or fumigated under the direction and supervision of, and in manner and method satisfactory to, the inspector. If such treated sand, soil, earth, peat, compost, or manure is not to be immediately used in such greenhouses, it must be stored in a tightly closed building or container.

(3) Plants potted in certified soil (see Regulation 7) in nurseries or greenhouses of Class II or Class III and placed in outdoor screened frames during the period June 15 to October 15, inclusive, may be certified by the inspector for shipment to points *outside* the regulated area under the following conditions: A careful inspection shall be made of the soil from not less than 10 per cent of the pots. The soil in and including an area not less than 3 feet wide surrounding the frames shall be treated not later than the preceding October 1 with arsenate of lead powder, applied uniformly at the rate of 1,500 pounds to the acre. The soil examination and treatment shall be made under the direction and supervision of, and in manner and method satisfactory to, the inspector.

(4) Plants potted in certified soil (see Regulation 7) in nurseries or greenhouses of Class II or Class III and placed in beds in the open during the period October 16 to June 14 may be certified by the inspector for shipment to points outside the regulated area upon compliance with the following conditions performed under the direction and supervision of, and in manner and method satisfactory to, such inspector: A fine mesh screen must be placed in the bottom of each pot; the soil in beds on which

the pots are placed must have been treated, not less than three months previous to the time the pots are placed in the beds, with arsenate of lead powder applied uniformly at the rate of 1,500 pounds to the acre, under the direction and supervision of, and in manner and method satisfactory to, the inspector; no pots shall be placed within 3 feet of soil which has not been treated; before pots are placed on treated beds, careful soil examination shall be made of the beds and their freedom from infestation determined by the inspector.

(5) Nurserymen, florists, dealers, or others ordering for use in certified greenhouses, nursery and ornamental stock, or sand, soil, earth, peat, compost, or manure from other growers, dealers, or individuals within the regulated area, shall immediately report their orders to the inspector and obtain approval before such articles are received on their premises or placed in certified greenhouses.

(6) Nurserymen, florists, dealers, or others shall not move, or allow to be moved, plants from the open on their own premises into certified greenhouses until the approval for such movement has been obtained from the inspector.

Regulation 7.—Control of Movement of Sand, Soil, Earth, Peat, Compost and Manure.

(a) The movement of *fresh manure* to points outside the regulated area will be allowed without other requirements than inspection and certification by the inspector.

(b) Certification for movement of *sand, soil, earth, peat, compost, or manure (except fresh manure)* from the regulated area to points outside such area will not be allowed except upon compliance with the conditions hereinafter enumerated.

(1) The movement of the articles enumerated from districts included in the regulated area, but in which neither beetles nor grubs in soil have been found, to points outside the regulated area will be allowed without other requirement than certification by the inspector. This requirement shall apply throughout the year.

(2) The movement of the articles enumerated from districts included in the regulated area which are known to be generally infested, to points outside the regulated area, shall not be allowed except upon compliance with the following conditions:

(aa) Surface material of the articles enumerated, when removed from above a depth of 12 inches, shall be fumigated with carbon disulphide under the direction and supervision of, and in manner and method satisfactory to, the inspector before such shipments may be certified by the said inspector for such movement.

(bb) The articles enumerated, when removed under the supervision of the inspector from a depth of more than 12 inches below the exposed surface of the ground, may be so certified by the inspector without treatment for movement between October 16 and June 14, inclusive.

(cc) The articles enumerated, when removed, under the supervision of the inspector, from a depth of more than 12 inches below the exposed surface of the ground, may be certified by the inspector between June 15 and October 15, inclusive, as follows: (1) When the inspector shall determine that a general infestation of adult Japanese beetles exists at the loading and shipping points, certification shall be withheld until either the article which it is proposed to ship shall have been fumigated with carbon disulphide or until the cars and loading operations are protected by screening under the direction of, and in manner and method satisfactory to, the said inspector; (2) When the inspector shall determine that no such infestation of adult Japanese beetles exists in the vicinity of the loading and shipping points, the articles may be certified for movement without the requirement of fumigation or screening.

Regulation 8.—Conditions Governing the Protection of Restricted Articles from Japanese Beetles While in Transit.

Farm products, nursery and ornamental stock, and sand, soil, earth, peat, compost, and manure, moving between June 15 and October 15, inclusive, shall be screened, covered, or otherwise protected in manner or method determined by the inspector as necessary to prevent infestation by adult Japanese beetles of the articles listed. This requirement shall apply to each automobile, truck, wagon, car, and boat, hauling such articles from the regulated area to points outside thereof.

Regulation 9.—Marking and Certification a Condition of Transportation.

Every car, vehicle, box, basket or other container of the articles listed, the movement of which is restricted in Regulations 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 bear a certificate stating that the contents have been examined by the inspector and found to be apparently free from the Japanese beetle.

The inspection certificate in the case of carload and other bulk shipments shall accompany the waybill, conductor's manifest, memorandum, or bill of lading, pertaining to such shipment, or in the case of truck or other road vehicle, the certificate shall accompany the vehicle.

Misuse or transfer of certificates or use of void certificates is prohibited and may result in the refusal of further certification to the grower or shipper concerned.

Regulation 10.—Conditions Governing Inspection and Issuance of Certificates.

Persons intending to move or allow to be moved any of the articles the movement of which is restricted in Regulations 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.

Applicants for inspection will be required to assemble the articles at such points as the inspector shall designate and to so 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.

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

Regulation 11.—Inspection of Restricted Articles in Transit.

Any car, vehicle, basket, box, or other container of articles moved or offered for movement which contains or may contain articles the movement of which is prohibited or restricted by Federal Quarantine No. 48 and these regulations, shall be subject to inspection by duly authorized inspectors at place of shipment or destination or at any point en route.

Regulation 12.—Thorough Cleaning Required of Trucks, Wagons, Cars, Boats and Other Vehicles Before Moving.

Trucks, wagons, cars, boats, and other vehicles, which have been used in transporting any article covered by Federal Quarantine No. 48 within the regulated area shall not thereafter be moved or allowed to be moved until they have been thoroughly swept and cleaned by the carrier at the point of unloading or destination.

Regulation 13.—Shipments by the Connecticut Agricultural Experiment Station of the United States Department of Agriculture.

Plants and plant products and other articles, the movement of which is restricted by these rules and regulations may be moved by the Connecticut Agricultural Experiment Station or the United States Department of Agriculture, when intended for experimental or scientific purposes, on such conditions and under such safeguards as may be prescribed by the Federal Horticultural Board.

Regulation 14.—Moving or Receiving Articles in Violation of Regulations.

No person shall move or direct any other person to move any article in violation of these regulations. No person shall receive or direct any other person to receive any article moved in violation of these regulations.

Regulation 15.—Carrying or Transporting Living Japanese Beetles Outside the Regulated Area.

No person shall move or carry, or direct any other person to move or carry a living Japanese beetle to any point outside the regulated area.

These rules and regulations shall take effect May 1, 1927, shall supersede all previous rules and regulations issued in connection with Quarantine Order No. 11, effective November 10, 1926, and shall be in force until further notice.

WILLIAM L. SLATE,

*Director, Connecticut Agricultural
Experiment Station*

Approved:

JOHN H. TRUMBULL,
Governor.

PENALTY

Chapter 107, Public Acts of 1925, provides that "Any person interfering with the performance of such duty or violating the quarantine regulations established under this act shall be fined not less than ten nor more than fifty dollars."

PUBLISHED RULES AND REGULATIONS

Copies of the revised rules and regulations connected with the quarantines established on account of the Japanese Beetle may be obtained from any of the following sources:

Connecticut Agricultural Experiment Station, New Haven, Conn.

Japanese Beetle Office, 2000 Bronx Street, West Farms, New York City.

Japanese Beetle Laboratory, Riverton, New Jersey.

Federal Horticultural Board, Washington, D. C.

APPLICATIONS FOR INSPECTIONS

Applications for inspections and certificates or permits to move nursery or ornamental stock, sand, soil, manure, etc., should be made to the Japanese Beetle Office, 2000 Bronx Street, West Farms, New York City.