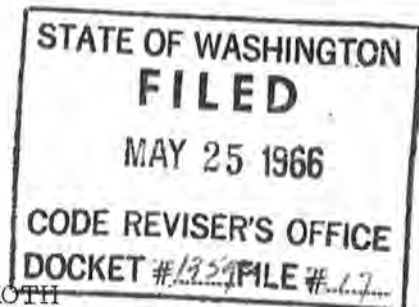


STATE OF WASHINGTON  
DEPARTMENT OF AGRICULTURE  
OLYMPIA

QUARANTINE ORDER NO. 1022  
(Superseding Order No. 967)



PERTAINING TO EUROPEAN PINE SHOOT MOTH

Effective June 24, 1966

WHEREAS, the fact has been determined that an insect pest known as the European Pine Shoot Moth (*Rhyacionia buoliana* Schiff), injurious to all *Pinus* species, is known to occur in certain counties or districts of the States of Connecticut, Delaware, Illinois, Indiana, Iowa, Maine, Maryland, Massachusetts, Michigan, Missouri, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Washington, West Virginia, and Wisconsin.

WHEREAS, it has been established that this insect pest threatens serious injury to all *Pinus* species within the state.

NOW, THEREFORE, I, Donald W. Moos, Director of the Department of Agriculture of the State of Washington, by virtue of the authority vested in me by Chapter 17.24 RCW relating to insect pests and plant diseases, after public hearing held in Olympia, Washington, on May 10, 1966, pursuant to Chapter 34.04 and 42.32 RCW do hereby proclaim and establish a quarantine to become effective June 24, 1966, setting forth the name of the insect pest for which the quarantine is established, the areas under quarantine, the noninfested areas, regulated articles, and the conditions governing the issuance of certificates or permits under which regulated articles may be shipped.

- (a) PEST: European Pine Shoot Moth (*Rhyacionia buoliana* Schiff).
- (b) AREA UNDER QUARANTINE: All states and districts of the United States, except Alaska and Hawaii.
- (b-1) INFESTED AREA. The entire states of Connecticut, Delaware, Illinois, Indiana, Iowa, Maine, Maryland, Massachusetts, Michigan, Missouri, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, West Virginia, Wisconsin, and Washington (counties of King, Kitsap, Mason, Pierce, Whatcom, Thurston, and that portion of Snohomish County south and west of the Snoqualmie and Snohomish Rivers).
- (b-2) NONINFESTED AREA. Any state or district of the United States under quarantine which is not described as "Infested Area" in subsection (b-1) is considered to be a noninfested state or district.

- (c) COMMODITIES COVERED: (Regulated Articles) All species and varieties of pine (*Pinus* spp.) trees (with or without roots) and any branches or twigs of pine bearing terminal buds, needles or shoots are hereby declared to be hosts and possible carriers of the European Pine Shoot Moth herein quarantined against.
- (d) RESTRICTIONS: Certificate of Origin or Treatment Required.
- (1) Except as hereinafter provided in paragraphs (2) and (3), commodities covered are prohibited entry into the state of Washington from the area under quarantine unless each lot or shipment is accompanied by a certificate signed by or bearing a facsimile signature of the authorized agricultural inspection official of the state of origin, affirming that the restricted articles accompanied thereby have been produced in and shipped from a noninfested state or district described in subsection (b-2), or that the restricted articles accompanied thereby have been treated under official supervision previous to shipment in a manner and by a method which has been approved and prescribed by the Director.
  - (2) Articles Exempt from Certification. No certificate is required on cut pine trees, branches or twigs for ornamental purposes during the period November 1 to December 31.
  - (3) Special Permits to Official Agencies. The Director may issue special permits to official State or Federal Departments of Forestry, authorizing the entry of seedling trees from the infested area without treatment for reforestation or scientific research providing such trees have been greenhouse grown under official supervision or otherwise produced and subsequently handled under conditions satisfactory to the Director to preclude infestation or exposure to infestation by the European Pine Shoot Moth.
- (e) APPROVED TREATMENT: The following methods and procedures are approved and prescribed in accordance with subsection (d) of the European Pine Shoot Moth Quarantine for treating pine trees and parts thereof produced in or shipped from infested areas described in subsection (b-1) as a condition of certification for shipment to Washington or within Washington.

Requirements for Chamber or Gastight Enclosure.

All methyl bromide fumigation of pine stock shall be performed in a chamber or gastight enclosure approved by the proper plant quarantine official of the State Department of Agriculture as being properly constructed, equipped and operated to assure correct dosage, temperature control and uniform distribution of fumigant. After an initial introduction of 4 pounds per 1,000 cubic feet, the chamber must be capable of maintaining a gas concentration of not less than 51 ounces per 1,000 cubic feet at the termination of the recommended fumigation period. All chambers and gastight enclosures used for fumigation of pine

stock with methyl bromide shall be tested at regular intervals, at least annually, by the certifying agency.

Load Arrangement.

Not over two-thirds of the chamber may be occupied by the commodity. Free air space must be left between the top, bottom and sides of the chamber. If the load is to be stacked, a minimum of 5 inches of air space shall be provided between layers. With the exception of baled stock, space between the top of the material and the top of the chamber shall be no less than 12 inches; space between the side of the material and the side of the chamber and between rows shall be no less than 6 inches. For baled stock these minimum distances shall be doubled.

Volatilizer.

Gas must be volatilized. A suitable volatilizer consists of 25 feet of 1/4" or 3/8" coiled copper tubing immersed in a container of hot water maintained at a minimum temperature of 180° F. The volatilizer must be in the introduction system between the methyl bromide dispenser and the chamber.

Safety Factors.

Maintenance of humidity of 75% or over is recommended to reduce hazard of plant injury. Also, recommend thorough aeration of plants after fumigation and protection from direct sun and wind for 48 hours.

Fumigation Schedule.

The treatment consists of methyl bromide fumigation under normal atmospheric pressure.

Methyl bromide shall be applied at the rate of 4 pounds for each 1,000 cubic feet of chamber space for the following periods according to chamber temperature:

Chamber Temperature Degrees F.	Treatment Period	
	Hours	Minutes
45 - 49	3	28
50 - 54	3	8
55 - 59	2	52
60 - 64	2	38
65 - 69	2	22
70 - 74	2	9

Temperatures above 65° F. may result in injury to stock.

Certificates.

Certificates shall affirm that no less than 4 pounds of methyl bromide was applied per 1,000 cubic feet of chamber space and set forth the chamber temperature and period of exposure.

Date: \_\_\_\_\_


\_\_\_\_\_  
Signature of Inspector


DISPOSITION OF MATERIAL SHIPPED IN VIOLATION OF THIS QUARANTINE:

Regulated commodities not meeting the requirements of this quarantine shall be returned to the point of origin, or destroyed at the option and expense of the owner or owners, his or their responsible agent or agents.

VIOLATION AND PENALTY: All violations of this order shall be dealt with according to the provisions of RCW 17.24.100.

EFFECTIVE DATE: This order shall take effect on and after June 24, 1966.

  
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Donald W. Moos  
Director of Agriculture  
State of Washington

APPROVED:   
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DANIEL J. EVANS, GOVERNOR

Signed at Olympia, Washington  
May 25, 1966