



**Michigan Department of Agriculture and Rural Development
Pesticide and Plant Pest Management Division**

THOUSAND CANKERS DISEASE OF WALNUT QUARANTINE

WHEREAS, the Director of the Michigan Department of Agriculture and Rural Development, having found that a destructive pest complex, commonly known as Thousand Cankers Disease of Walnut, consisting of an insect pest, the walnut twig beetle, *Pityophthorus juglandis*, and a fungal pathogen, *Geosmithia morbida*, is injurious to black walnut trees, and,

WHEREAS, Thousand Cankers Disease of Walnut has become established in parts of the United States; and,

WHEREAS, this pest complex is not known to exist in Michigan; and

WHEREAS, black walnut trees are an economically important source of lumber and veneer, used in the wood product industry; and,

WHEREAS, the Secretary of Agriculture of the United States has not determined that a federal quarantine is necessary;

NOW, THEREFORE, the Director of the Michigan Department of Agriculture and Rural Development, by authority of Section 23 of Act No. 189, P.A. of 1931, as amended, (Section 286.223, Compiled Laws of 1948) and Section 20 (2) and (3) of Act No. 189, (Section 286.220(2)(3), Compiled Laws of 1948, and Regulation No. 620, does establish a quarantine to prevent the introduction into Michigan of the causal agents of Thousand Cankers Disease of Walnut and sets forth: regulated areas, regulated articles, shipping restrictions, and violations.

I. DEFINITIONS

1. **BARK** means the natural bark of a tree, including the ingrown bark around the knots and bark pockets between rings of annual growth and an additional one-half inch of wood, including the vascular cambium.
2. **CERTIFICATE** means a State Phytosanitary Certificate or Certificate of Quarantine Compliance or equivalent certification document issued by an authorized state, federal or county agricultural official.
3. **COMPLIANCE AGREEMENT** means a written agreement between the Director and a person moving or receiving regulated articles.
4. **DEPARTMENT** means the Michigan Department of Agriculture and Rural Development.
5. **DIRECTOR** means the Director of the Michigan Department of Agriculture and Rural Development or her/his authorized representative.
6. **FIREWOOD** for the purposes of this quarantine means wood, either split or unsplit, in sections less than 1.22 meters (4 feet) in length.
7. **PERSON** means an individual, firm, association, partnership, corporation, governmental entity, or other legal entity.

8. **THOUSAND CANKERS DISEASE (TCD)** means the disease complex consisting of the insect pest, walnut twig beetle, *Pityophthorus juglandis*, and the fungal pathogen, *Geosmithia morbida*.

II. PESTS

The walnut twig beetle, *Pityophthorus juglandis*, or any other insect determined to be a vector of *Geosmithia morbida*

The fungal pathogen *Geosmithia morbida*.

III. REGULATED AREAS

The entire states of Arizona, California, Colorado, Idaho, Maryland, Nevada, New Mexico, North Carolina, Ohio, Oregon, Pennsylvania, Tennessee, Utah, Virginia, Washington, and any other areas where Thousand Cankers Disease of Walnut may become established, as determined by the Director (or listed on the Thousand Cankers Disease web page <http://thousandcankers.com>).

IV. REGULATED ARTICLES

1. The walnut twig beetle, *Pityophthorus juglandis*, in any living stage of development
2. The fungal pathogen *Geosmithia morbida*.
3. Firewood or fuel wood of any non-coniferous (hardwood) species
4. All plants and plant parts of the genus *Juglans* or *Pterocarya* including but not limited to nursery stock, budwood, scionwood, green (non-kiln dried) lumber, and other material living, dead, cut, or fallen, including logs, boards, slab wood, firewood, stumps, burls, roots, branches, bark, mulch, composted and uncomposted chips, and lumber for wood packing material.
5. Any other article, product, or means of conveyance when it is determined by the Director to pose a risk of spreading any vector of *Geosmithia morbida*, or the fungal pathogen itself.

V. EXEMPTIONS

Juglans and *Pterocarya* species plant parts and processed plant products as follows are exempt from the provisions of this quarantine:

1. Nuts, nut meats and hulls.
2. Processed lumber that is 100% bark-free and kiln-dried.
3. Walnut veneer.
4. Finished wood products without bark, including walnut furniture, instruments, and gun stocks.
5. Firewood that has been heat treated for 60 minutes at 60 degrees Celsius (140 degrees Fahrenheit) core temperature.
6. Nonviable, preserved specimens of the walnut twig beetle, *Pityophthorus juglandis* or other insect determined to be a vector.
7. Nonviable, preserved specimens of the fungal pathogen, *Geosmithia morbida*.

VI. RESTRICTIONS

1. Except as otherwise provided herein, all regulated articles, originating from regulated areas, are prohibited entry into or transiting through the state of Michigan.

2. Non-propagative, regulated wood articles harvested from regulated areas, may be shipped into Michigan if each shipment is accompanied by a Certificate issued in the state of origin declaring one of the following certification methods has been used:
 - a. The regulated article has been heat treated to a minimum of 60 degrees Celsius (140 degrees Fahrenheit) for 60 minutes.

The Certificate must include the following additional declaration:

“Meets the requirements of the Michigan TCD Quarantine based on the regulated article(s) is/are certified as apparently free of walnut twig beetle, *Pityophthorus juglandis*, and *Geosmithia morbida*, and was heat treated with an inner core temperature of 60 degrees Celsius (140 degrees Fahrenheit) maintained for at least sixty (60) minutes and stored in a manner to retain freedom from the walnut twig beetle until shipped.”

- b. The regulated article has been fumigated with methyl bromide using one of the following schedules:
 - i. 15 pounds per 1000 cubic feet for 24 hours at or above 5 degrees Celsius (41 degrees Fahrenheit).
 - ii. 6 pounds per 1000 cubic feet for 24 hours at or above 16 degrees Celsius (60.8 degrees Fahrenheit).

The Certificate must include the following additional declaration: “Meets the requirements of the Michigan TCD Quarantine based on the regulated article(s) is/are certified as apparently free of walnut twig beetle, *Pityophthorus juglandis*, and *Geosmithia morbida*, and treated with methyl bromide at 15 pounds per 1000 cubic feet for 24 hours at or above 5 degrees Celsius, or 6 pounds of methyl bromide per 1000 cubic feet for 24 hours at or above 16 degrees Celsius, and stored in a manner to retain freedom from the walnut twig beetle until shipped.

All regulated articles with more than 5% bark must be shipped from the regulated area within 15 days of treatment.

3. Non-propagative regulated wood articles originating from non-infested counties in infested states, and not included in part VI.2 (above), may be shipped into Michigan if:
 - a. the state regulatory agency annually conducts an official survey for walnut twig beetle/thousand cankers disease of walnut, and;
 - b. the articles are accompanied by a Certificate issued in the state of origin declaring “The regulated article(s) was/were officially inspected after harvest and found apparently free of walnut twig beetle, *Pityophthorus juglandis*, and *Geosmithia morbida*.” The county of origin must be indicated on the Certificate.
4. Non-propagative regulated wood articles originating from non-infested areas and which are shipped through a regulated area, may be shipped into Michigan provided that said articles remained in the regulated area for less than 48 hours.

5. Non-propagative regulated wood articles may also be certified through a Compliance Agreement between the producer and the regulatory agency in the state of origin. The certification methods are found in parts VI.2 and VI.3 (above). All shipments must be accompanied by a Certificate that indicates the regulated article is compliant with the Michigan TCD Quarantine and includes the compliance agreement number and treatment method.
6. *Juglans* spp. and *Pterocarya* spp. nursery stock originating in an area not known to have TCD and transiting a TCD-regulated area may only enter Michigan if said nursery stock is safeguarded during transit in an enclosed conveyance or container.
7. No person shall import, plant, receive for delivery or otherwise accept or bring into Michigan any regulated articles from any TCD-infested area designated by the Director unless the regulated article is accompanied by a Certificate.
8. Regulated articles to be used for research or similar science-based purposes, at the discretion of the Director, may be moved into Michigan under a compliance agreement between the Department and the Michigan recipient. At a minimum, the compliance agreement may require inspection of the regulated articles at the point of origin, a Certificate issued by an authorized agricultural official in the state of origin, and at least seven (7) days pre-shipment notification.

VII. CERTIFICATION AND SHIPPING REQUIREMENTS

Regulated articles originating from states other than those listed in part III must be accompanied by documents which provide proof of harvest location by county and state.

VIII. RECORD KEEPING REQUIREMENTS

Persons receiving regulated articles from interstate and international sources shall retain a copy of shipping records, invoices, waybills, bills of lading, certificates of quarantine compliance and/or phytosanitary certificates for a period of 36 months; and, shall make them available for MDARD inspection.

IX. VIOLATIONS

1. Any person found to violate any provision of this quarantine is guilty of a misdemeanor and upon conviction may be fined according to the provisions of Act 189 of 1931 as amended.
2. Common carriers or other carriers, persons, firms, or corporations who transport or move regulated articles in violation of this quarantine and these rules may be subject to the penalties described above.
3. Regulated articles transported in violation of this quarantine may be ordered destroyed, or returned to the point of origin at the discretion of the Director.



 Jamie Clover Adams, Director

12/14/17

 Date

History: Promulgated 2010; Revised 2017; Effective 1/14/2018