

# Slow The Spread of the Gypsy Moth



WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE  
AND CONSUMER PROTECTION



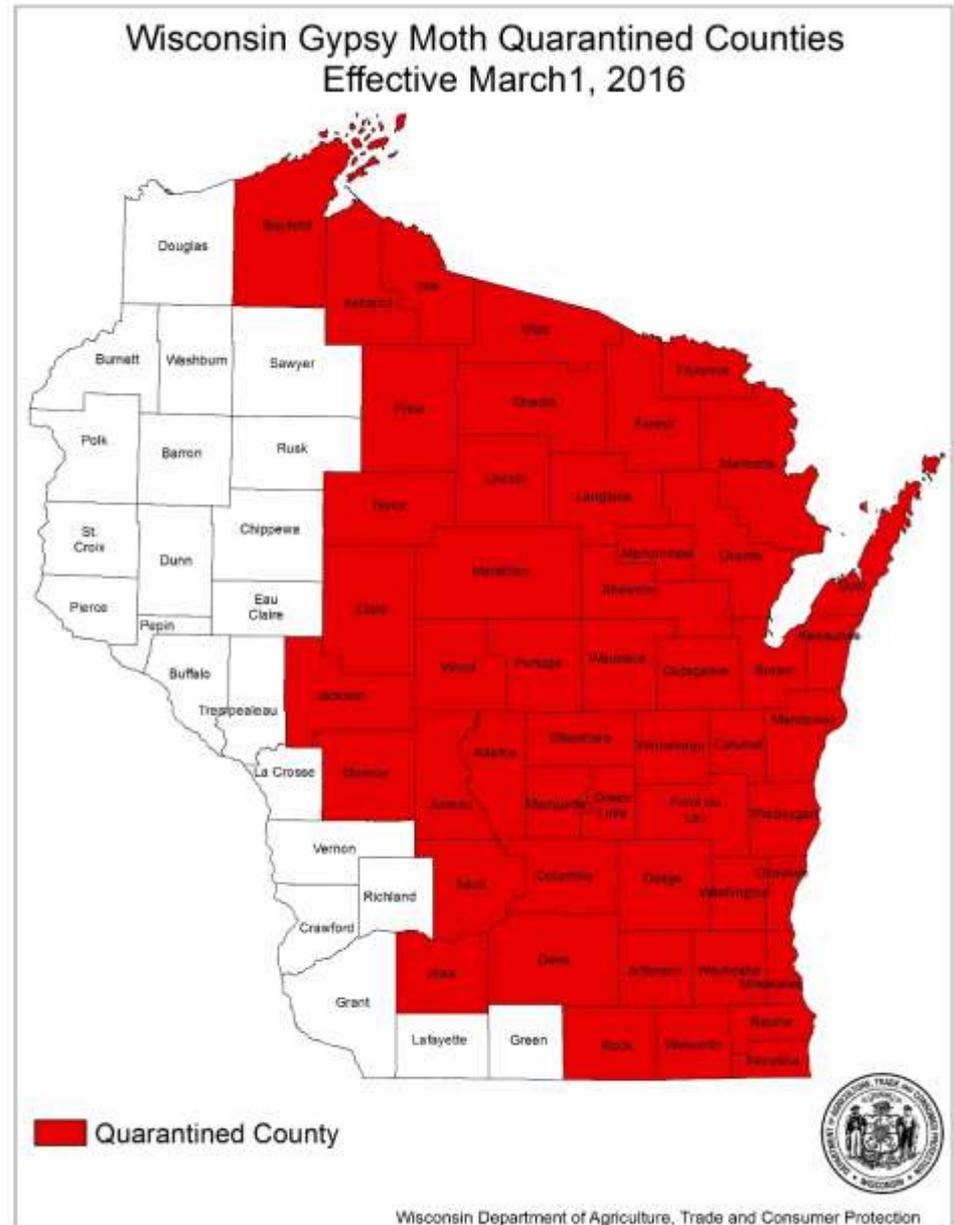
# GYPSY MOTH IDENTIFICATION TRAINING FOR THE TIMBER INDUSTRY



# Know how to Identify Gypsy Moth



Know where risks  
of moving Gypsy  
Moth are coming  
from



1. HISTORY
2. LIFE CYCLE/IDENTIFICATION
3. HOST TREES AND DAMAGE
4. INSPECTIONS
5. REGULATIONS / CERTIFICATION
6. WHAT ARE WE DOING ABOUT IT?

# History

## INTRODUCTION TO NORTH AMERICA



TROUVELOT



1869

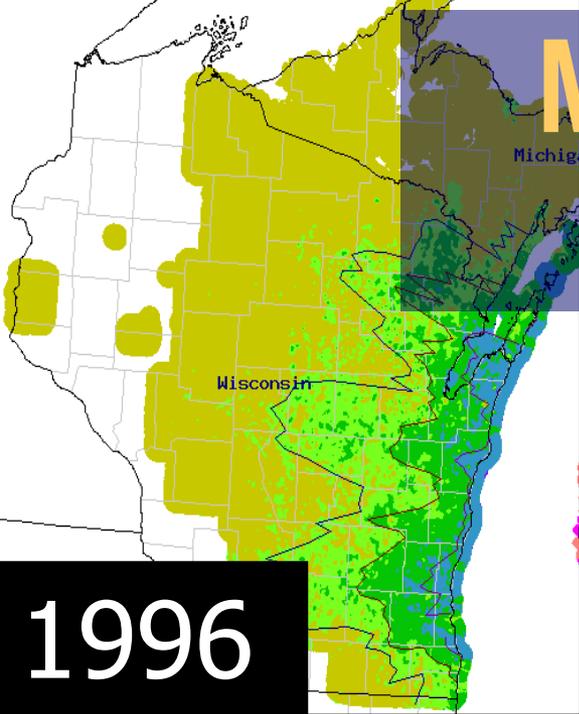
# GLOBAL DISTRIBUTION OF GYPSY MOTH



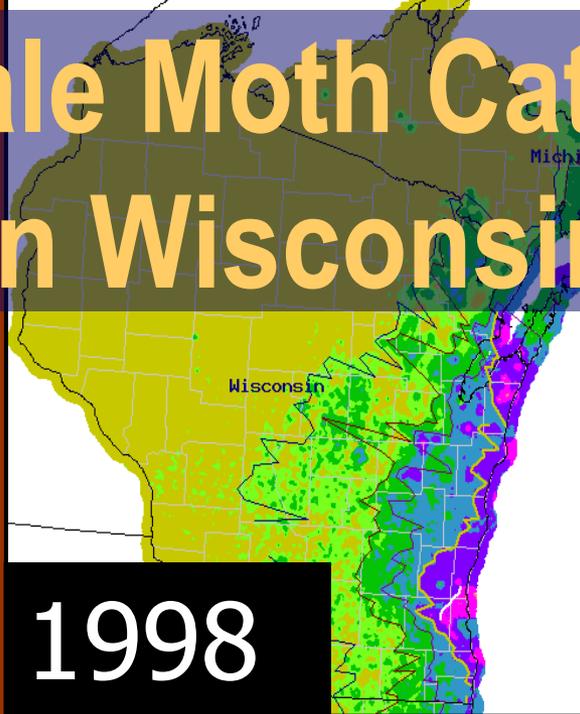
# GYPSY MOTH MOVEMENT OVER THE LAST CENTURY



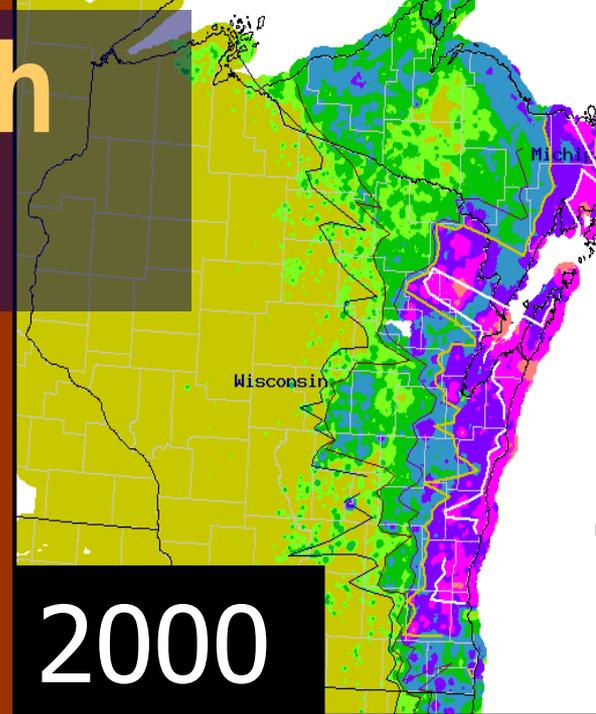
# Male Moth Catch in Wisconsin



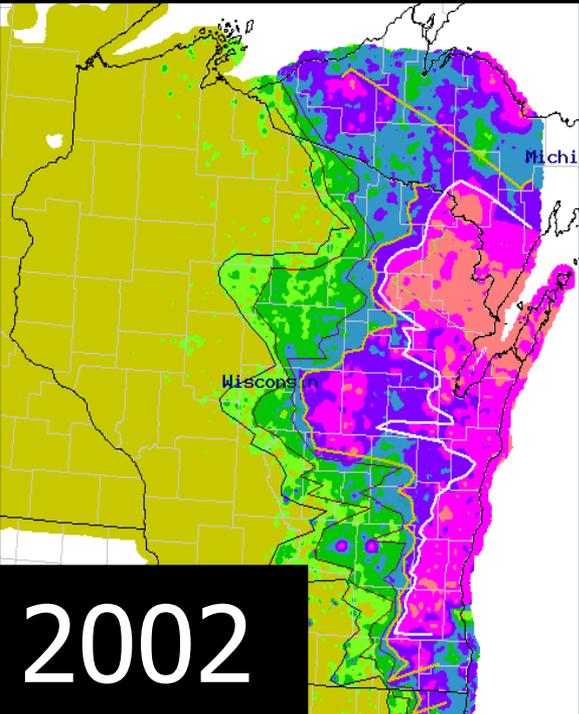
1996



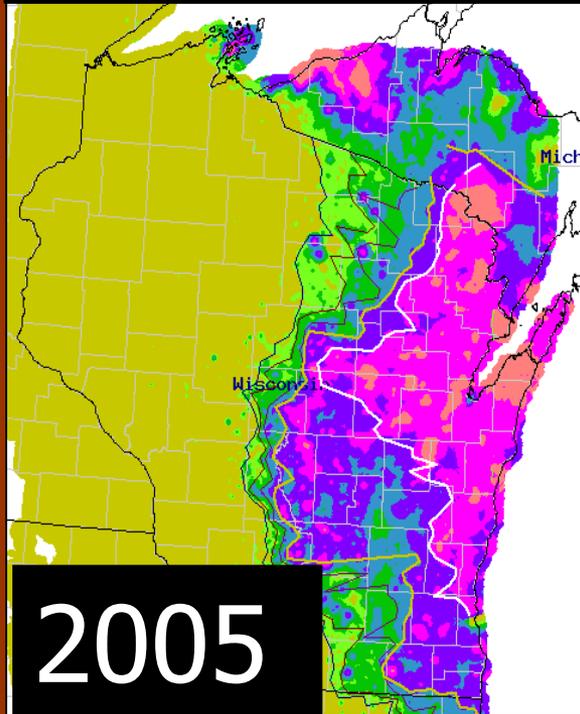
1998



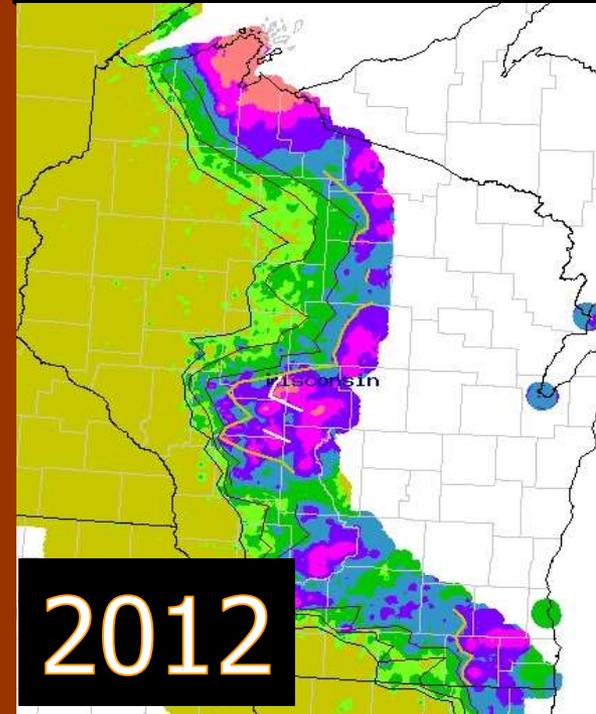
2000



2002



2005



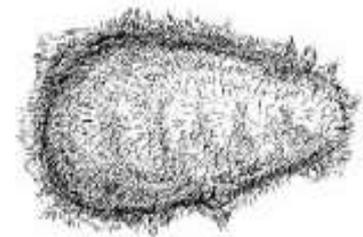
2012



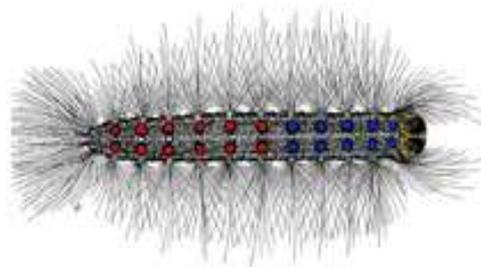
Adult Female



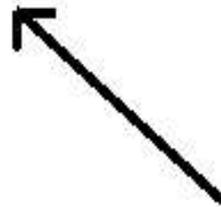
Adult Male



Egg Mass



Caterpillar



Pupa



# GYPSY MOTH LIFE STAGES

# EGG MASS

CAN CONTAIN  
UP TO 1000  
EGGS



CARAMEL  
COLORED AND  
SOFT TO THE  
TOUCH

CAN BE FOUND  
ON ANY  
OUTSIDE  
OBJECT

# LARVA

( CATERPILLAR )

May through June

VERY  
HAIRY



5 PAIRS OF  
BLUE SPOTS

6 PAIRS OF  
RED SPOTS

CAN CAUSE  
RASH AND  
ASTHMA  
PROBLEMS

MOST HARMFUL LIFESTAGE-DEFOLIATES TREES

# PUPA

( COCOON )

Early to Mid-July

1 INCH  
LONG



SMALL  
HAIRS

DARK  
BROWN  
SHELL

# ADULT

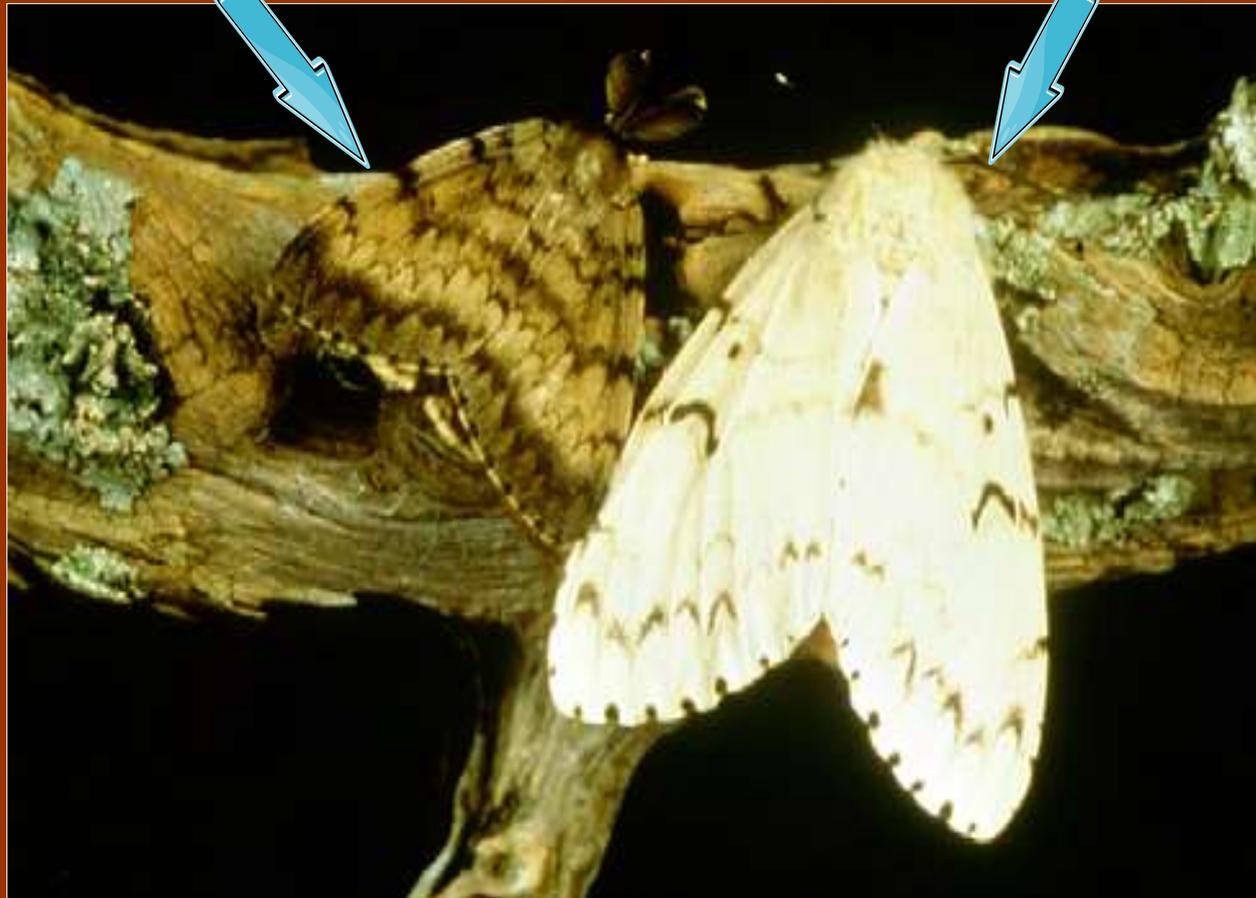
( MOTH )

MALE

July through August

FEMALE

FEATHERY  
LIKE  
ANTENNA

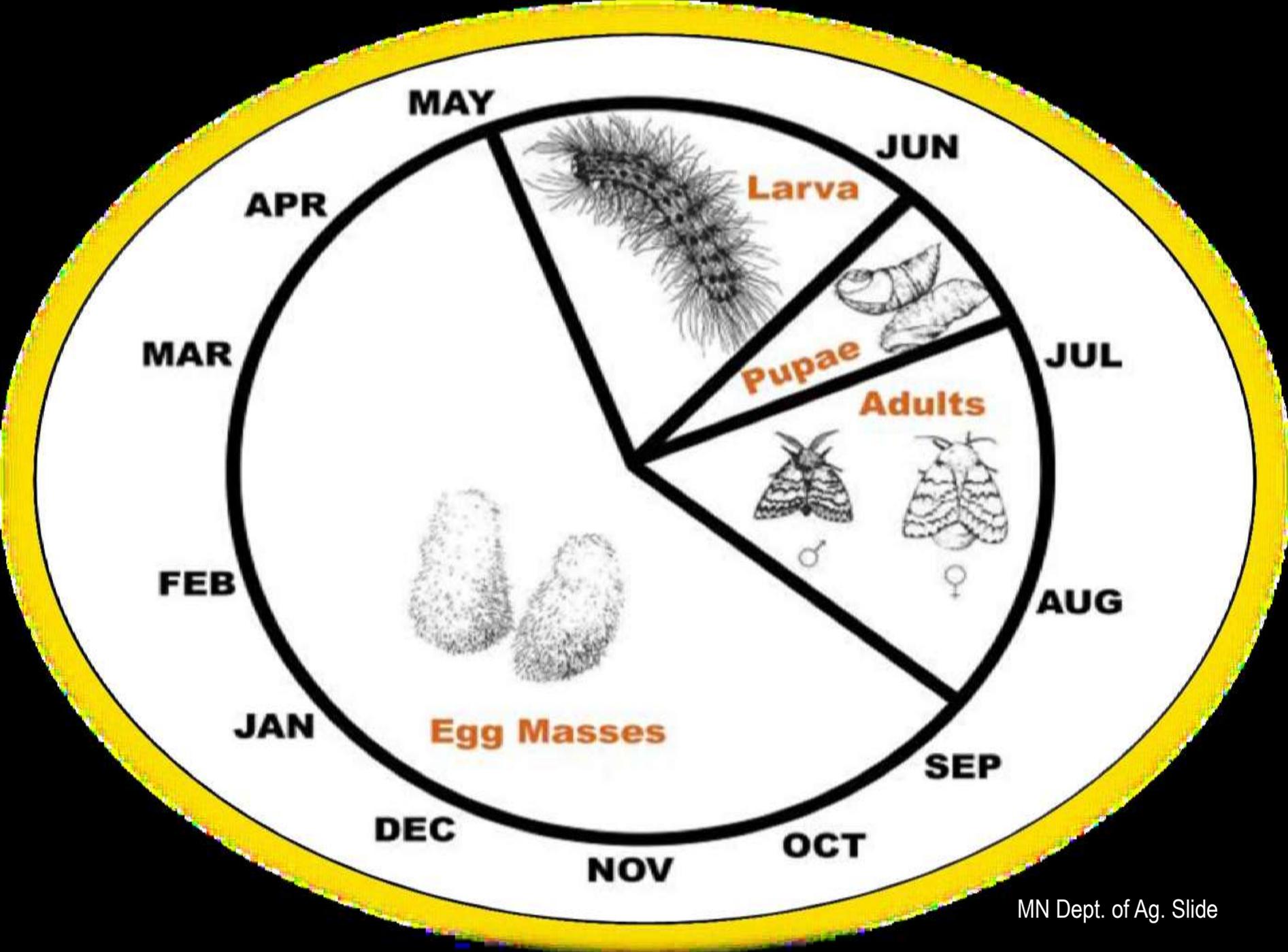


DOES  
NOT FLY

DISTINCTIVE  
V'S ON  
WINGS

# Female Gypsy Moth & Egg Mass





# Gypsy Moth Host Trees

Larvae feeds on over 600 species of trees and shrubs

Prefers OAK, willow, apple, aspen, birch, basswood, tamarack, and linden.

Avoids ash, cedar, Scotch pine, balsam, dogwood, and locust.



**Larvae Can Blow in on Silken Threads**

Caterpillars strip leaves  
FG Length is 2 inches



Defoliation leaves trees stressed,  
vulnerable to borers, diseases and  
creates human nuisance

UGA0886003

Can look like Winter in July



**75 million acres defoliated since 1970**



# Industry Affected



- FIREWOOD

- MOBILE AND MANUFACTURED HOMES



# •TIMBER



# •NURSERY STOCK



# •CHRISTMAS TREES



# Lost Tourism



DUE TO HIGH POPULATIONS OF GYPSY MOTH CATERPILLERS

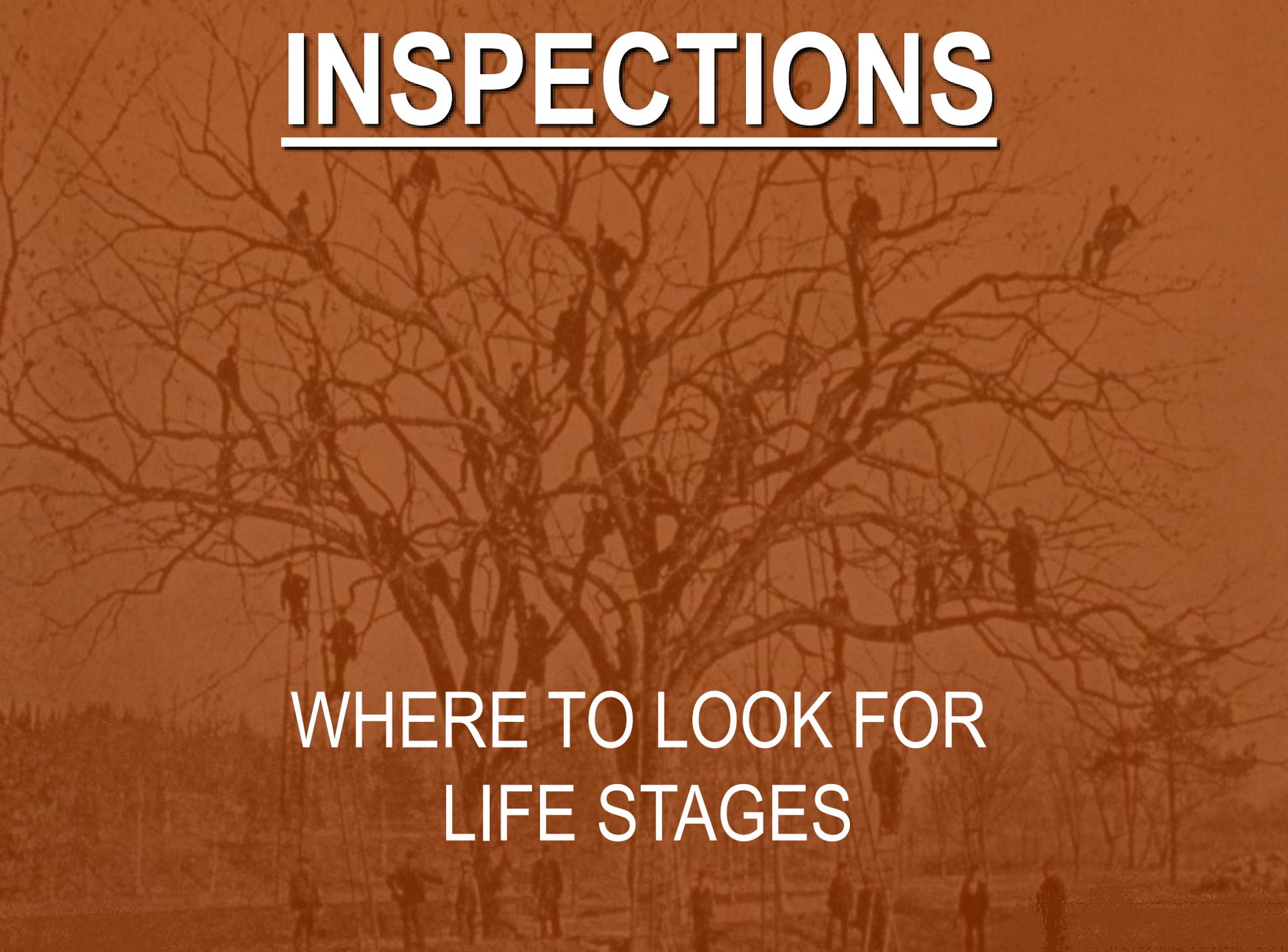
**ROCKY ARBOR STATE PARK  
WILL BE CLOSED  
FROM JUNE 18 - JUNE 27**

THIS IS AN EFFORT TO HELP REDUCE THE SPREAD OF THIS EXOTIC PEST

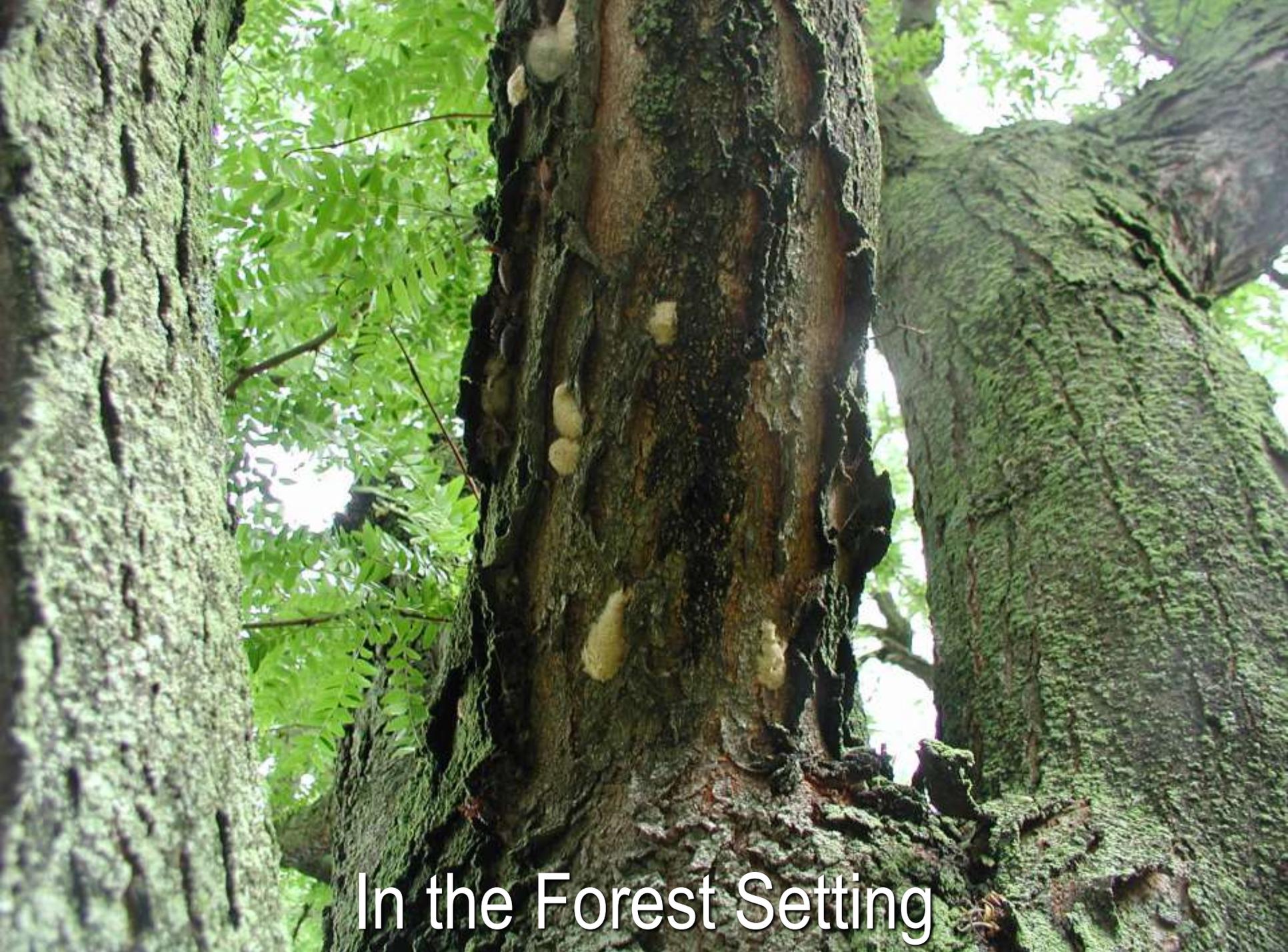
**Want this in your  
front yard?**



# INSPECTIONS

The background of the slide is a sepia-toned photograph of a large, leafless tree. Numerous people are seen climbing and working on the branches, some using ropes and ladders. The scene is set in a wooded area with other trees visible in the distance.

WHERE TO LOOK FOR  
LIFE STAGES



In the Forest Setting



**Look Up!**

# #1 Method GM is moved into new areas- People and Firewood



# WHAT TO DO IF A LIFE STAGE IS FOUND

## -EGG MASS/PUPA

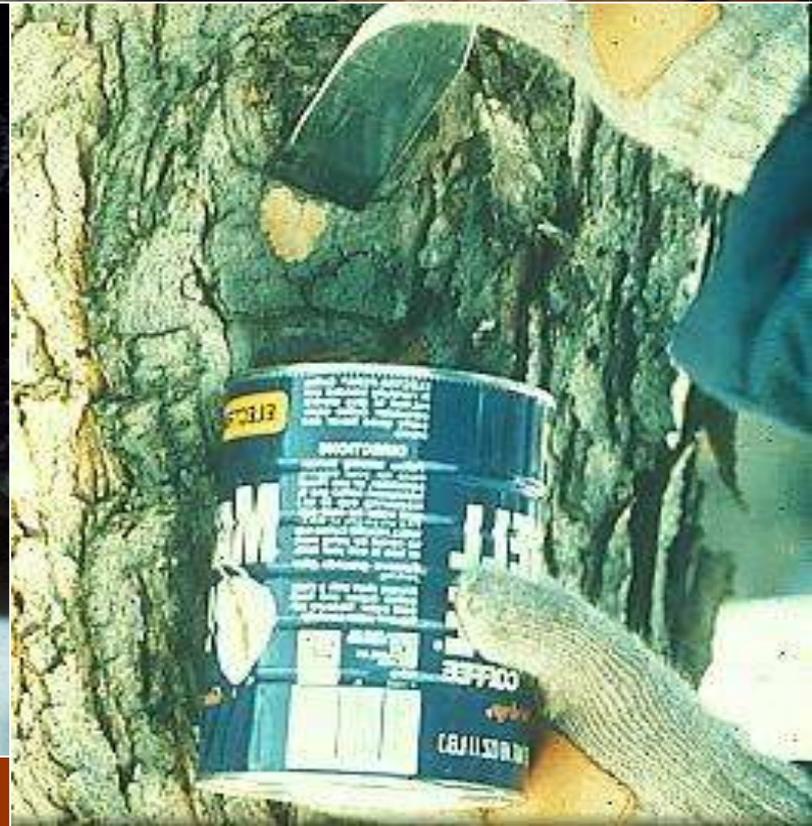
-scrape off life stage and destroy it; burn or place in warm soapy water for 24 hours and throw out.



## -LARVA/ADULT

-Place in warm soapy water for 24 hours and throw out.

Stepped on or burn.





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# Gypsy Moth Quarantine

How it works:

**“What is a quarantine?”**

When a county is deemed “generally infested” due to years of high trap catches and the discovery of egg masses indicating breeding populations, it then becomes QUARANTINED by state and federal authority.

**“What does it mean?”**

Anyone moving goods (outdoor household articles, recreational vehicles and equipment, firewood, nursery stock, TIMBER, etc.) from a quarantined area to a non-quarantined area needs to follow rules set up to prevent the spread of this pest.

# Gypsy Moth Quarantine

What industries (TIMBER, firewood, nurseries, Christmas trees, home builders, etc.) need to do:

- Obtain a State Permit if you're moving goods *from* a quarantined area in WI *to* a non- quarantined area in WI.
- Obtain a Federal Compliance Agreement if you're moving goods *from* a quarantined area in WI *to* a non-quarantined area in another state.





# Interstate Movement & Certification

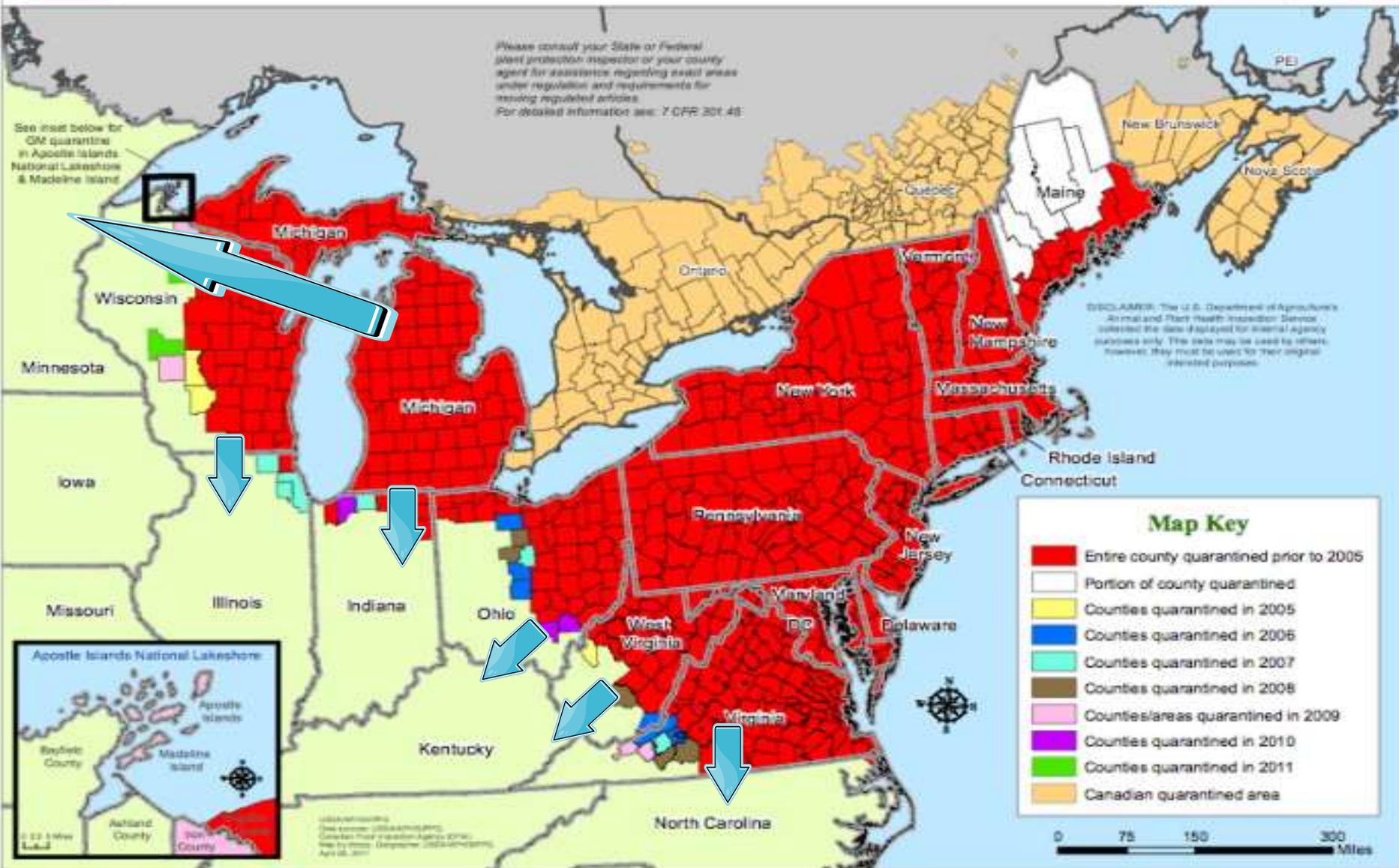


## European Gypsy Moth (*Lymantria dispar*) North America quarantine



Please contact your State or Federal plant protection inspector or your county agent for assistance regarding seed areas under regulation and requirements for moving regulated articles. For detailed information see: 7 CFR 201.46

See inset below for GM quarantine in Apostle Islands National Lakeshore & Madeline Island



DISCLAIMER: The U.S. Department of Agriculture's Animal Plant Health Inspection Service updated the data displayed for internal agency purposes only. This data may be used by others; however, they must be used to their original intended purposes.

### Map Key

- Entire county quarantined prior to 2005
- Portion of county quarantined
- Counties quarantined in 2005
- Counties quarantined in 2006
- Counties quarantined in 2007
- Counties quarantined in 2008
- Counties/areas quarantined in 2009
- Counties quarantined in 2010
- Counties quarantined in 2011
- Canadian quarantined area



USDA/APHIS/APHIS  
 Data Source: USDA/APHIS/APHIS  
 Created from a spreadsheet by APHIS  
 File by: [unreadable] (September 2011)  
 April 26, 2011



# What Can You Do?

1. Know how and where to look for gypsy moth.
2. Know how to dispose of gypsy moth
3. Follow regulations

<http://gypsymoth.wi.gov>

1-800-642-MOTH



# STS Action for Loggers/Truckers

- Get trained by DATCP to ID GM egg masses
- Get a Compliance Agreement
- Transport loads with inspection statements.
- Take wood to a mill that will process it according to their State or Federal Compliance Agreement

# **Inspection Statements used for Wood Movement:**

- **USDA 540**
- **USDA 530 (Limited Permit)**
- **Accurate Statement**
- **State (DATCP Inspection Statement)**

# Inspection Statements used for Wood Movement:

- **USDA 540**
  - Fully inspected  
and free to move

**E 555519**

U.S. DEPARTMENT OF AGRICULTURE  
Animal and Plant Health Inspection Service  
Plant Protection and Quarantine  
**CERTIFICATE**  
*This certificate must be surrendered to the consignee at destination of shipment.*

The articles described below are certified under all applicable Federal or State cooperative domestic plant quarantines.

1. DATE ISSUED	2. VOID AFTER	
3. NAME OF CONSIGNOR		
4. SHIPPING POINT		
5. NAME & ADDRESS OF CONSIGNEE		
6. VEHICLE LICENSE NO. & STATE		
7. R.R. CAR INITIALS & NO.		
8. DESCRIPTION		
A. Quantity	B. Article	C. Remarks
9. SIGNATURE OF ISSUING INSPECTOR		
PENALTY FOR MISUSE OR ALTERATION (7 USC 163)		
PPQ FORM 540 (APR 88)	Previous edition obsolete.	<b>PART 1 -CONSIGNEE</b>

# Inspection Statements used for Wood Movement:

- **USDA 530  
(Limited Permit)**
  - Can leave quarantine, but more processing is needed.

XYZ Logging, LLC  
2017 Woodsman Road, Stevens Point, WI

Contact: Jack Pine, 715-555-2017

Name \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
(Including company name) \_\_\_\_\_

Location of Shipping Site: \_\_\_\_\_

Applicable Federal Quarantine: 7CFR 301.45

Regulated Article(s): \_\_\_\_\_

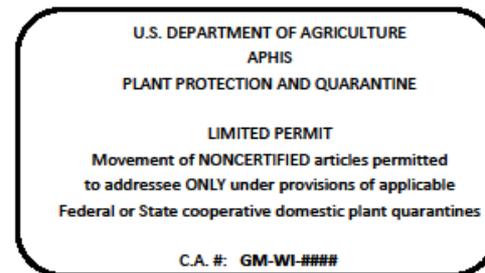
Destination of Regulated Article(s): \_\_\_\_\_

Quantity: \_\_\_\_\_

Shipping Company: \_\_\_\_\_ Trailer # \_\_\_\_\_

The above information is true to the best of my knowledge.

Signature: \_\_\_\_\_ Date of Issuance: \_\_\_\_\_



# Inspection Statements used for Wood Movement:

- **Accurate  
Statement**

## Accurate Statement for Logs and Poles

Name of Inspector: \_\_\_\_\_

Mailing Address of Inspector: \_\_\_\_\_  
(including company name)

\_\_\_\_\_

\_\_\_\_\_

Location of Inspection Site: \_\_\_\_\_

Applicable Federal Quarantine: 7 CFR 301.45

Regulated Article(s): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Destination of Regulated Article(s): \_\_\_\_\_

### *Certification Statement:*

I certify that all of the exterior surfaces (100 percent inspection) of the following logs were inspected in accordance with the gypsy moth regulations (7 CFR 301.45) and the *Gypsy Moth Program Manual*.

Number of Logs: \_\_\_\_\_ Species: \_\_\_\_\_

As a result of the inspection, I certify that:

No life stages of the gypsy moth were found, or

All life stages found were treated

This inspection occurred no more than five days prior to the date of movement. After the inspection, the logs were safeguarded to prevent infestation or reinfestation by gypsy moth. The above information is true to the best of my knowledge.

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

Date of Inspection: \_\_\_\_\_

# Inspection Statements used for Wood Movement:

- **State (DATCP Inspection Statement)**

## INSPECTION STATEMENT FOR INTRASTATE MOVEMENT OF REGULATED ARTICLES

Each load leaving a gypsy moth quarantined county and moving into a non-quarantined county **MUST** be accompanied by an Inspection Statement from a WDATCP trained individual. This form can be used as your inspection statement by checking one of the selections below, signing, including ID Number and Date. This form must be presented to the receiver at the destination mill and will be kept on file for 36 months.

- The logs were found to be free of gypsy moth infestation.
- Gypsy moth life stages found on the logs were removed and destroyed within the quarantine area.
- Load is pulpwood, chips, or woody biomass destined for a pulp mill, staging yard, or biomass plant with a valid compliance agreement.

\_\_\_\_\_  
Signature & Printed Name

\_\_\_\_\_  
Compliance agreement number

\_\_\_\_\_  
ID Number

\_\_\_\_\_  
Date

# Certification Contacts

## State

Wisconsin Department of Agriculture, Trade, and Consumer Protection  
PO BOX 8911  
Madison, WI 53708-8911  
Timothy Allen - (715) 891-8158



## Federal

U.S. Department of Agriculture  
Animal and Plant Health Inspection Service  
1 Gifford Pinchot Drive  
Building 1 Room 204  
Madison, WI 53705  
Christopher Deegan- (608) 286-3604

