

- Late July/Early Aug** Mating occurs and the females lay eggs. Both adults gypsy moths die.
- August** Eggs are laid in buff colored masses.
- Sept- December** Over wintering egg masses.
5. **egg mass**- 500 to 1,000 eggs are laid at one time in velvety, buff colored egg masses covered with hair from the moth's body.
- larva**- The small larva is mostly black with five pairs of blue spots and six pairs of red spots on its back.
- pupa**-The outer skin is dark reddish brown and may be attached by several silk threads to tree trunks, rocks, or boards.
- moth**- Male- The wings are brown with black, wavy markings, the antennae are yellow and the body is 1 inch.
- Female-The body is 1.5 inches and has brown, wavy marks. The wings are white, and the moth can not fly.
6. The students should be able to come up with many answers to this question. Example answers are as follows.
- birds
 - automobiles, trailers etc.
 - nursery stock
 - mammals
 - firewood
- 7.
- alder
 - aspen
 - birch
 - white birch
 - oaks
 - apple
 - basswood
 - hawthorn
 - tamarack
 - witch hazel
8. Trees growing on these sites are often crooked, low in vigor, and with deep fissures in the bark, all of which provide prime gypsy moth habitat.

TEST ANSWERS

1. True
2. True
3. A: **egg mass** -
description- 500 to 1,000 eggs are laid at one time in velvety, buff colored hair from the moth's body.
 B: **larva** - also known as caterpillars, they are a worm-like form of an insect.
description- Molts take place during this phase.
 The small larva is mostly black with five pairs of blue spots and six pairs of red spots appear on its back.
 C: **pupa** - insect (moth) when it is in a case or cocoon.
description- The outer skin is reddish brown and may be attached by several silk threads to tree trunks, rocks, or boards.
 D: **moth** - adult stage of the insect
description- Male- The wings are brown with black, wavy markings, the antennae are tan and feather-like and the body is 1 inch.
 Female-The body is 1.5 inches and has brown, wavy marks. The wings are white.

4. The topics the students should describe include:
 - human health
 - destruction of tree, shrubs, and vines
 - economic concerns to businesses in Wisconsin as well as northeastern U.S.
 - rapid spread of the moth
 - future concerns and destruction
5. A: male- The wings are brown with black, wavy markings, the antennae are tan and featherlike and the body is 1 inch.
female-The body is 1.5 inches and has brown, wavy marks. The wings are white.
 B: The female moth can not fly.
6. The pupa attaches itself by several silk threads to tree trunks, rocks, or boards.
7. 500 to 1,000 eggs in one mass
8.

- alder	- apple
- aspen	- basswood
- birch	- hawthorn
- white birch	- tamarack
- oaks	- witch hazel
9. Ridgetops, steep, south and west facing slopes and dry, sand outwash plains are sites favored by gypsy moth.

REFERENCES

Contacts

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Material

Michigan State University Extension, Gypsy Moth Education Program, "Gypsy Moth Management calendar for Homeowner."1995

University of Wisconsin-Extension, United States Department of Agriculture. "Forestry Facts." No. 83, November 1996

USDA Forest Service, New Jersey Department of Agriculture, West Deptford Township School, "The Gypsy Moth in the Classroom." Erik Mollenhauer
Wisconsin Department of Agriculture, Trade and Consumer Protection, Wisconsin Department of Natural Resources, United States Department of Agriculture - Forest Service, University of Wisconsin - Madison. "Gypsy Moth Education Material."
Wisconsin Department of Natural Resources, "Gypsy Moth Silvicultural Guidelines for Wisconsin." Charles Brooks and David Hall.
Wisconsin Department of Agriculture of Agriculture, Trade and Consumer Protection, "Gypsy Moth Update." Issue 5, Sept. 1993
Wisconsin Department of Agriculture of Agriculture, Trade and Consumer Protection, "Gypsy Moth Update." Issue 6, Oct. 1993
Wisconsin Department of Agriculture of Agriculture, Trade and Consumer Protection, "Gypsy Moth Update." Issue 1, Sept. 1995

Wisconsin Agricultural Education Standards for the activity:

Gypsy Moth Quarantine - By the end of grade 12 (agricultural) students will:

(Technology/Information) B.12.1 "Apply knowledge of technology to identify and solve problems."

(Agriscience/Production) D. 12.3 "Understand how public policy affects food, fiber and ornamental plant industries."

(Agriscience/Production) D. 9-12.1 "Engage in applied learning opportunities emphasizing agriscience and production principles."

(Ecology/Environmental) E. 9-12.1 "Engage in applied learning opportunities emphasizing ecological and environmental principles."

Example Gypsy Moth Quarantine Survey

Thank you for completing this survey for the _____ FFA !!!

1. There have been gypsy moths detected in _____ County. Yes No

2. I have heard of the gypsy moth. familiar unfamiliar
1 2 3 4 5

3. I am familiar with the gypsy moth life cycle. 1 2 3 4 5

4. I would be able to identify the gypsy moth caterpillar. 1 2 3 4 5

5. Are you familiar with the quarantine set for _____ County. 1 2 3 4 5

6. Would you know how to check your property for eggs masses. 1 2 3 4 5

7. Currently Wisconsin spends over \$2 million to control the gypsy moth. What type of funds should be used in the future. more funding less funding
1 2 3 4 5

Comments :

Name _____
Address _____
City _____ Zip _____
Phone _____

WOULD LIKE ADDITIONAL INFORMATION REGARDING THE GYPSY MOTH.

YES

NO

