## Know Nevada Insects Youth Education Exercise

## Common name: Sphinx moth Scientific name: Manduca quinquemaculata

Fact Sheet 19-15 REVIEWED



EXTENSION College of Agriculture, Biotechnology & Natural Resources

I am the five-spotted Sphinx moth! I can be called many things, including Sphinx moth, hummingbird moth, hawk moth or the tomato hornworm. I can be found in most of Mexico and the United States, and even in southern Canada, I am called a pest in home gardens and on farms. I am a pest because I can eat a lot of plants as a caterpillar and can even eat the same tomato you might eat.

Kevin Burls, Extension Integrated Pest Management Educator Marcia Moffitt, Lyon County Master Gardener Coordinator Joy Newton, Lyon County Extension Educator

## Why am I important?

Most people know this moth as the tomato hornworm. This is because we almost always find the caterpillar, or larva, on tomato, potato or tobacco plants. The caterpillar eats the host plant, including leaves, flowers and fruits. Because of this, farmers and gardeners try to find the caterpillar before it eats many of their plants. The caterpillars are almost exactly the same color as tomato leaves, and they often hide underneath leaves, making them hard to find. Many animals will eat the caterpillar, including birds, wasps and spiders, which can help out gardeners!

There are many other types of hawk moths in Nevada that look like the tomato hornworm but don't eat tomatoes. One example is the white-lined Sphinx moth, which eats plants around Nevada but is not a pest of vegetables that humans eat.



Caterpillar damage on tomato plant. Photo by Marcia Moffitt.



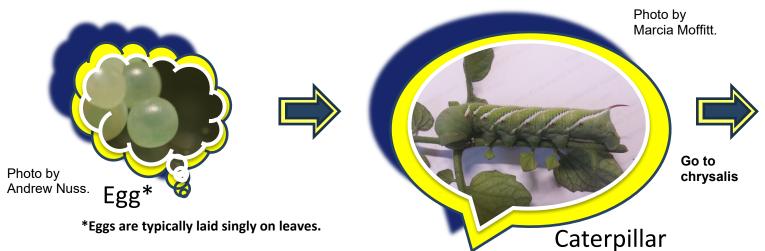
Caterpillar frass on tomato plant. Photo by Marcia Moffitt.



White-lined Sphinx moth. Photo by Joy Newton.



## What is my life cycle?



Just like butterflies, Sphinx moths start off as a very small egg, usually laid under a leaf.

> Sphinx Moth Word Search See words on Page 3

After a week, a small caterpillar hatches and begins to eat leaves, growing for up to a

month.

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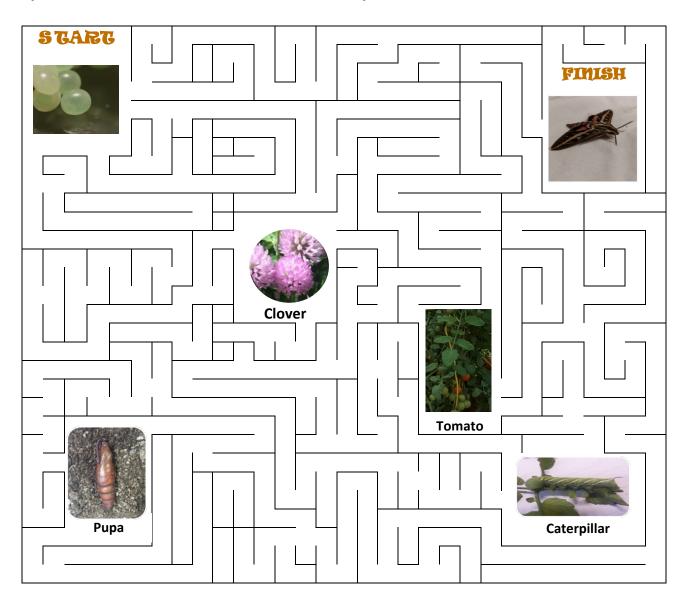
After this, the caterpillar will "wander" off the plant and find a place to turn into a pupa, usually in the soil. Unlike a butterfly chrysalis, this moth pupa looks very plain. The adult moth emerges after about two weeks, and drinks nectar from plants that have their flowers open at night. Females will also look for plants to lay eggs. Adults live about two to three weeks.

Words for Searches

Fill in the blanks from the word search to complete the paragraph about Sphinx moths.

	Sphinx
The meth is northern the meet striking meth estempillar in	Hawk moths Hornworms Egg
Themoth is perhaps the most striking moth caterpillar in	Larva Pupa
Nevada. These distinctiveare often called	Adult Tomatoes
The is best known as a of plants, especially	Pollinator Tobacco Hummingbird Moths
,, and They eat all parts of the	Nectar Host Plant
is often seen hovering in	Potatoes Caterpillars
front of flowers drinking, giving them the nickname of	Pest White-lined
Also called the,	
this moth family contains many other beautiful caterpillars and adults	
that are not pests. One notable Sphinx moth in Nevada is the	
Sphinx moth which eats many native plants.	
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Follow the life cycle from egg to adult. The egg must hatch on the proper host plant or it will not be able to develop into a moth.



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