

# ASIAN GIANT HORNET Bottle Trap



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

AGR PUB 809-841 (N/4/20)

Do you need this publication in an alternate format?  
Please call the WSDA Receptionist at 360-902-1976 or TTY 800-833-6388.



# **ASIAN GIANT HORNET** Bottle Trap

These instructions are provided for the public who wish to assist with trapping for Asian giant hornets. To participate in the Asian giant hornet trapping effort you must commit to:

- **Report trap locations on WSDA's Asian giant hornet trapping map.**
- **Check each trap weekly while the traps are up (17 weeks starting in July).**
- **Submit trap contents to WSDA.**



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# ASIAN GIANT HORNET Bottle Trap

## WARNING

Asian giant hornets pose a [risk to human health](#). While they do not generally bother humans, they will attack if they feel threatened. Participating in Asian giant hornet trapping could increase your risk of being stung by Asian giant hornets. Be sure to seek immediate medical attention if you have a reaction or are stung multiple times. Should you locate a suspected Asian giant hornet nest, NEVER approach or attempt to remove it. Note the location and report it to WSDA immediately. If you are allergic to bee or wasp stings, you should NOT engage in trapping for Asian giant hornets.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# **ASIAN GIANT HORNET** Bottle Trap

The trap in these instructions targets Asian giant hornet workers in the summer and fall.

It may also catch Asian giant hornet queens in the spring and fall.

It is the same trap used by the hornet program in Nagoya, Japan.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# **ASIAN GIANT HORNET** Bottle Trap

WSDA asks that participants set traps at the beginning of July and keep them up through October.

Optional spring trapping for queens can begin in April, but is less likely to catch Asian giant hornets.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# **ASIAN GIANT HORNET** Bottle Trap

## Equipment needed for each trap:

- A 2 liter or 64 ounce plastic bottle
- Box cutter
- String or twine
- Orange juice (100 % with few additives)
- Seventeen 4-ounce juice boxes
- Rice cooking wine (10-25% alcohol content) 64 ounces or 3 25-ounce bottles
- A 5 x 6 x 2 inch storage container
- A plastic strainer

**NOTE:**

The amount of bait listed is for one trap for 17 weeks, July through the end of October. If you choose to target spring queens starting in April, the amount of bait would need to be doubled.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM



# ASIAN GIANT HORNET Bottle Trap

## Prepare the bottle:

Near the top of the bottle make 2 cm (0.78 inch) long "H" marks on three sides.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# ASIAN GIANT HORNET Bottle Trap

## Prepare the bottle:

Using the box cutter, carefully cut along the “H” marks.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM



# ASIAN GIANT HORNET Bottle Trap

## Prepare the bottle:

Carefully fold the top tabs in and the bottom tabs out.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# ASIAN GIANT HORNET Bottle Trap

Prepare the bottle:

The bottle is complete.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# ASIAN GIANT HORNET Bottle Trap

## Prepare the bait:

Rice cooking wine will discourage honey bees from visiting the trap. Ensure that the alcohol content is between 10% and 25% by volume.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM



# ASIAN GIANT HORNET Bottle Trap

Prepare the bait:

Use 4 ounces (1/2 cup) of rice wine.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# ASIAN GIANT HORNET Bottle Trap

## Prepare the bait:

Use 4 ounces (1/2 cup) of 100% real orange juice. These juice boxes are 4.2 ounces and have a long shelf life.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM



# **ASIAN GIANT HORNET** Bottle Trap

## Bait the trap:

Pour the rice wine and orange juice into the bottle and replace the cap.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# **ASIAN GIANT HORNET** Bottle Trap

## Select a site:

Hang the bottle at least 6 feet high on trees near forest edges. Do not hang bottles higher than 9 feet.

If hanging more than one trap, traps should be at least 50 feet apart.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# ASIAN GIANT HORNET Bottle Trap

## Hang the trap:

Affix a sturdy string or wire around the neck of the bottle.  
Hang the trap so the closed side of the bottle faces the tree.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# ASIAN GIANT HORNET Bottle Trap

## Trap hanging tips:

- Pick a sturdy branch.
- Tie a second string around the body of the trap and tree to secure the trap.



Washington  
State Department of  
Agriculture

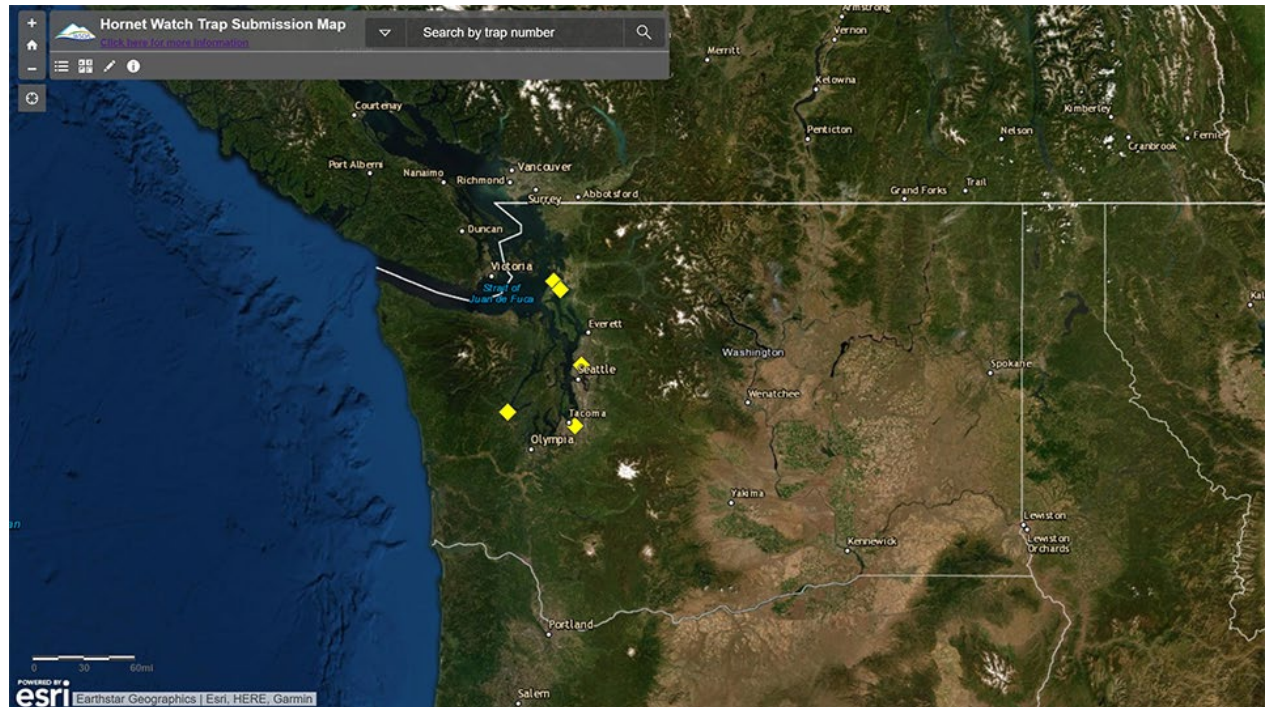
**PLANT PROTECTION DIVISION**  
PEST PROGRAM



# ASIAN GIANT HORNET Bottle Trap

Report your trap location:

Visit our trap website: [www.rebrand.ly/HornerWatchTrap](http://www.rebrand.ly/HornerWatchTrap)



Washington  
State Department of  
Agriculture

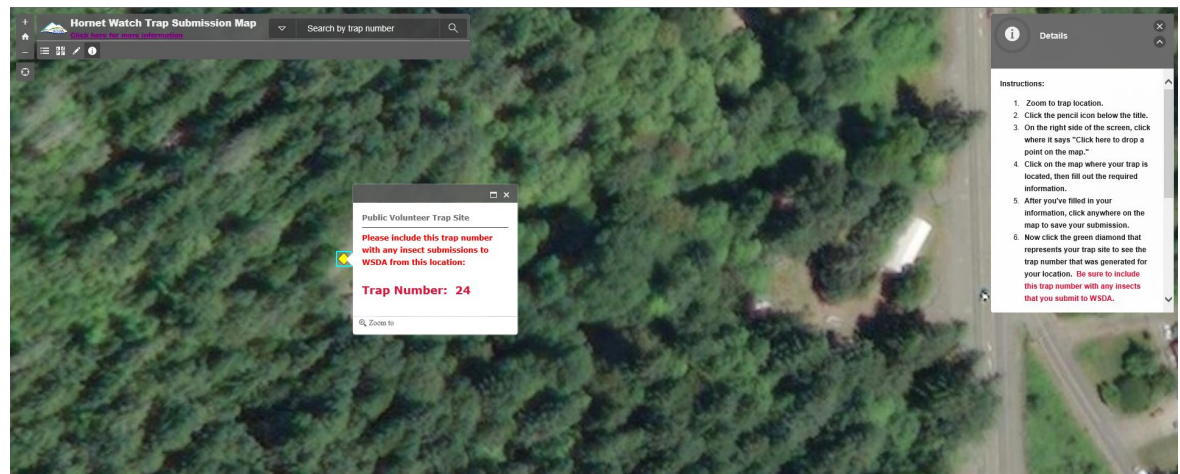
**PLANT PROTECTION DIVISION**  
**PEST PROGRAM**



# ASIAN GIANT HORNET Bottle Trap

## Report your trap location:

- Follow the instructions on the map.
- Record your trap number(s) for your reference and write the number on the trap.
- Create a new marker / pin for each trap.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# ASIAN GIANT HORNET Bottle Trap

## Service the trap:

Every week, collect a sample and replace the bait. This should be 17 services.

Bait should be replaced every week even if no specimens are captured.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# ASIAN GIANT HORNET Bottle Trap

## Service the trap:

Pour trap contents into the plastic strainer.

**TIP:** Pour with closed side of trap down.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM



# ASIAN GIANT HORNET Bottle Trap

## Service the trap:

Empty contents into storage container.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# ASIAN GIANT HORNET Bottle Trap

## Service the trap:

Gently tap the strainer over the storage container to dislodge any specimens.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM



# ASIAN GIANT HORNET Bottle Trap

## Prepare the sample:

Place specimens in zipper bag with paper towel that has been soaked with isopropyl alcohol.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

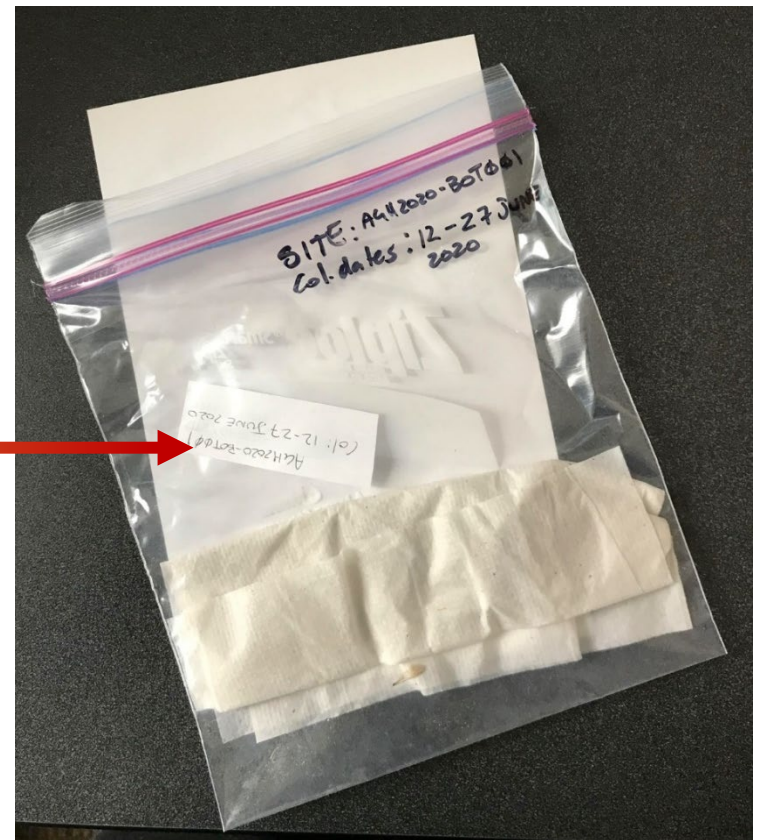
# ASIAN GIANT HORNET Bottle Trap

## Prepare the sample:

Write trap number and collection date on the bag, and on a paper tag in the bag.

### NOTE:

Isopropyl alcohol dissolves ink from pens and Sharpies. To ensure your sample is counted use a **PENCIL** on a piece of paper.



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
PEST PROGRAM

# **ASIAN GIANT HORNET** Bottle Trap

WSDA would like to evaluate all samples in 2020.  
Please mail samples in padded envelope every time  
they are collected to:

**Chris looney**  
**WSDA**  
**1111 Washington St SE**  
**Olympia, WA 98504.**



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
**PEST PROGRAM**

# ASIAN GIANT HORNET Bottle Trap

**Thank you.**

**Asian giant hornet bottle trap report page:**

[www.rebrand.ly/HornetWatchTrap](http://www.rebrand.ly/HornetWatchTrap)

**WSDA Pest Hotline:**

**1-800-443-6684**

**Online at:**

[agr.wa.gov/hornets](http://agr.wa.gov/hornets)

**You can also follow our hornet activities  
on Facebook:**

[facebook.com/groups/hornets](https://facebook.com/groups/hornets)



Washington  
State Department of  
Agriculture

**PLANT PROTECTION DIVISION**  
**PEST PROGRAM**