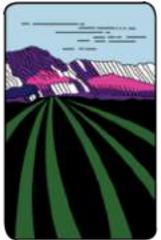


# Update on the Japanese Beetle & Gypsy Moth Eradication

- January 16<sup>th</sup>, 2019



**Oregon**  
Department  
of Agriculture



JAPANESE BEETLE  
BACKGROUND & UPDATE

# Japanese Beetle Damage



Sarah Williams, Missouri

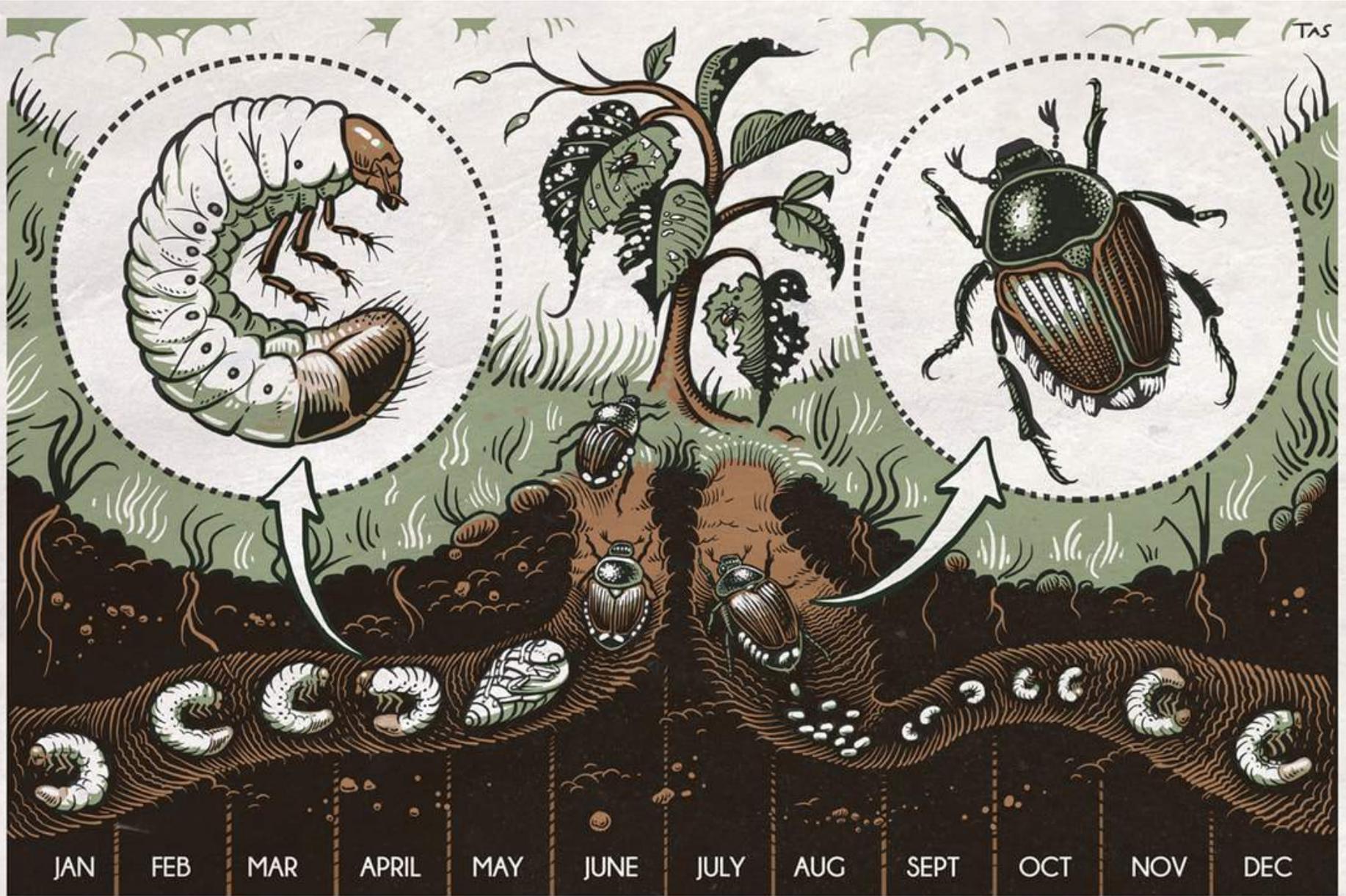


Photo: Bruce Watt



Photo: Frank Hale

# Japanese Beetle Life Cycle



# Japanese Beetle In Oregon 2016

## Swan Island

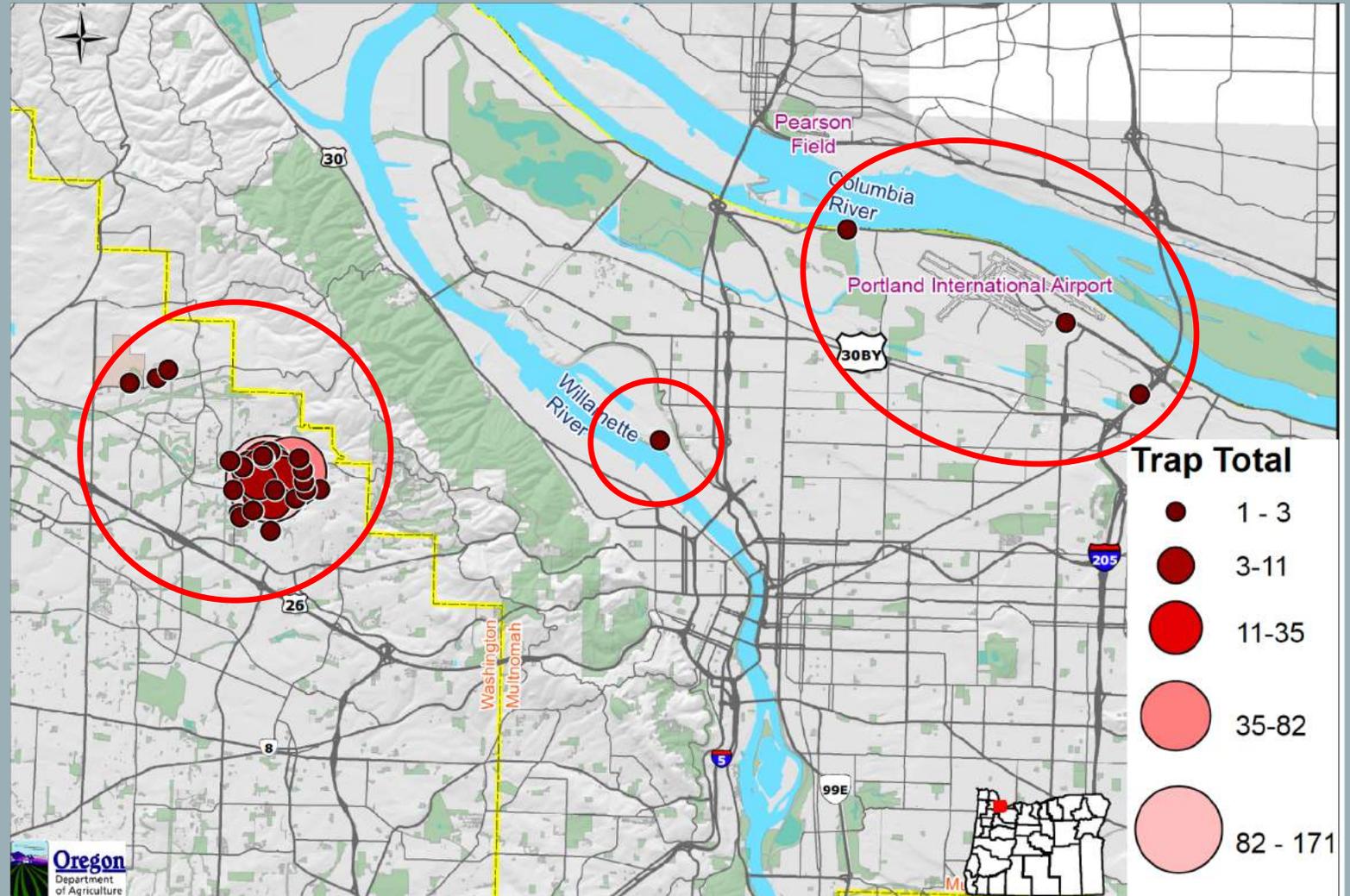
- 1 beetle

## PDX

- 3 beetles

## Cedar Mill/Bethany

- 369 beetles



# Japanese Beetle in Oregon 2017

## Swan Island

- 5 beetles

## PDX

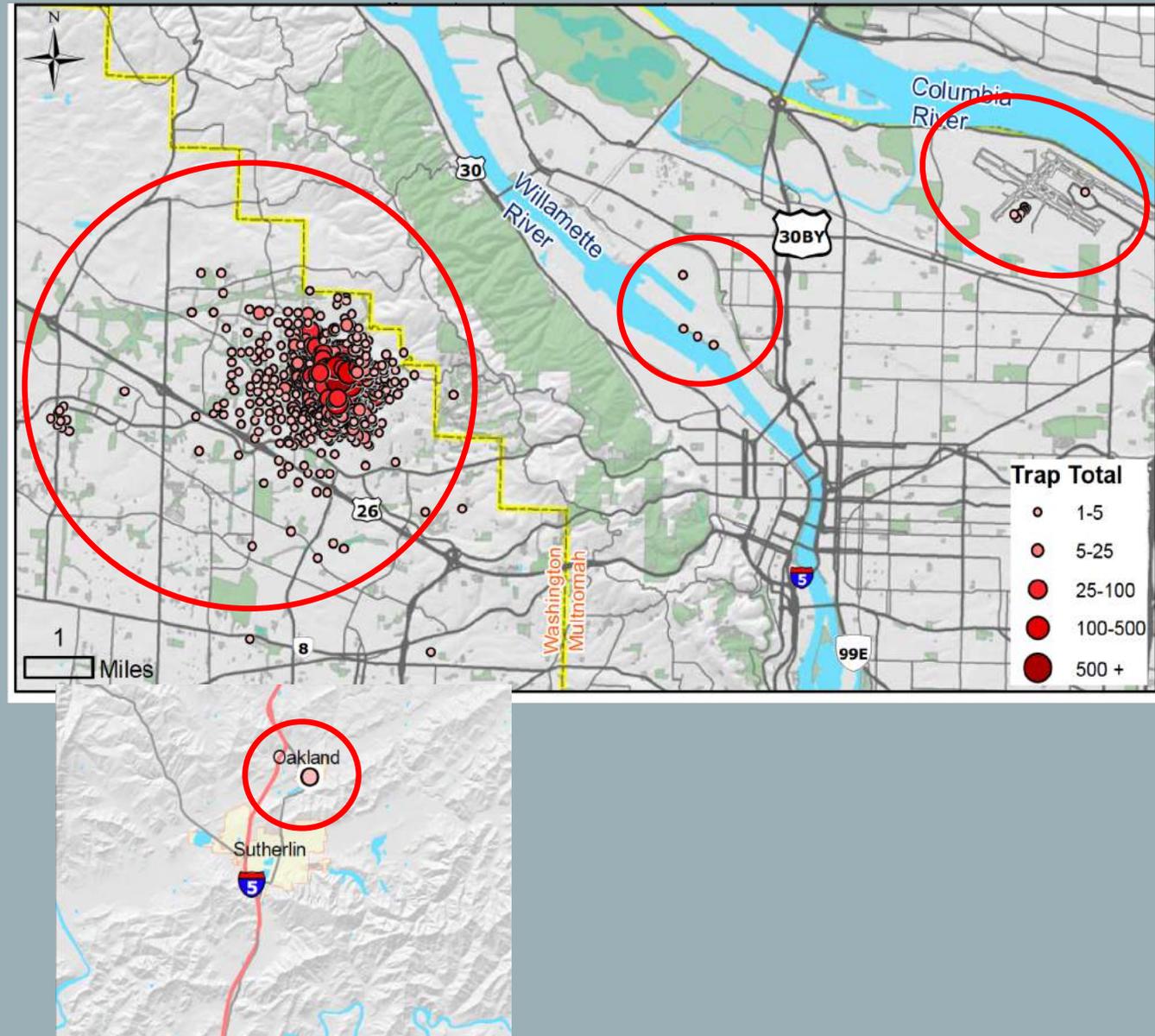
- 11 beetles
- Treated 150 acres

## Cedar Mill

- 23,454 beetles
- Treated ~1,000 acres  
(2,121 properties)
- 2,000 tons of yard debris to landfill

## Oakland, OR

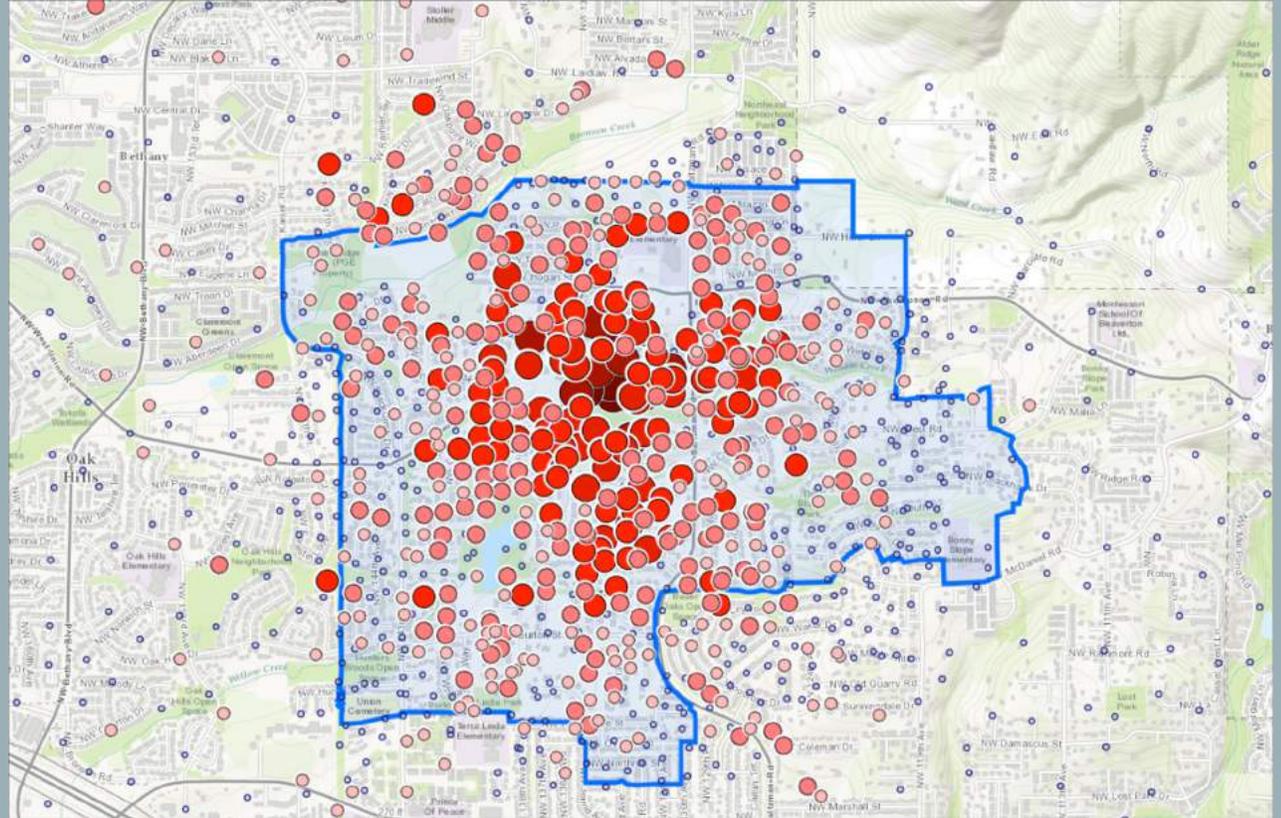
- 10 beetles



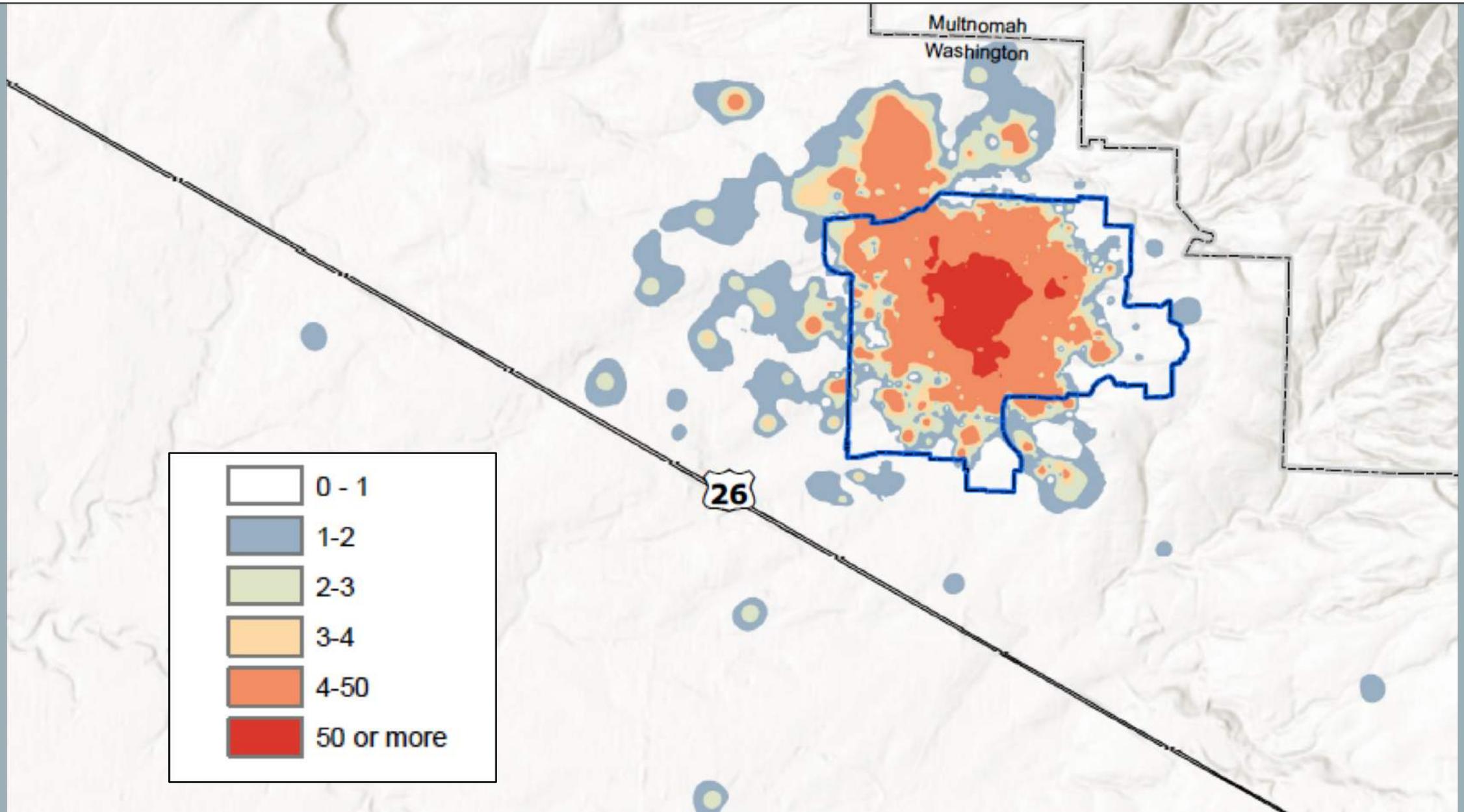
# Planning for Japanese Beetle in 2018

## Determining 2018 treatment boundary

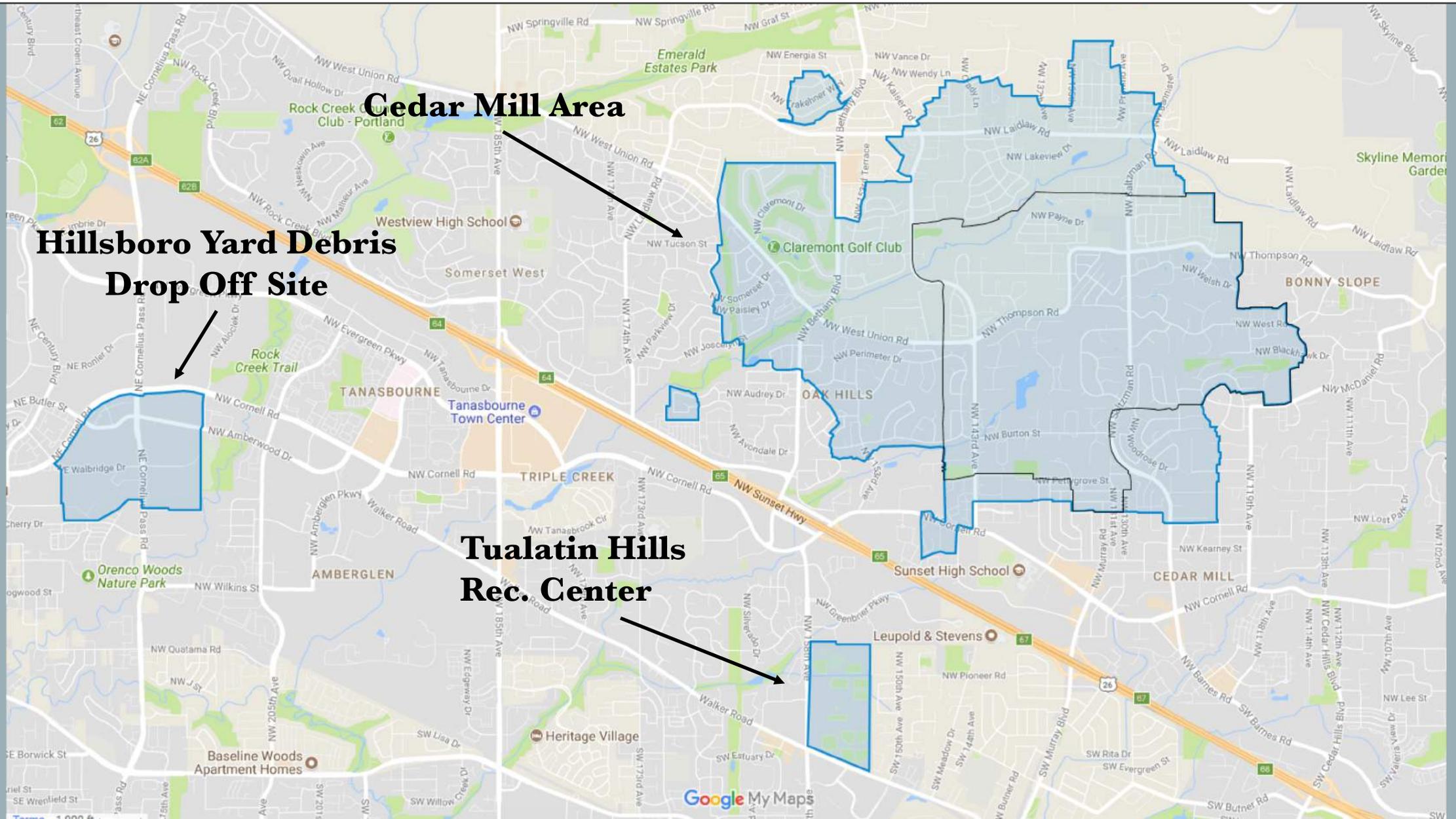
- inverse distance weighting
- traps catches
- high risk areas



# Planning for Japanese Beetle in 2018



# Japanese Beetle Treatment Area 2018



**Cedar Mill Area**

**Hillsboro Yard Debris  
Drop Off Site**

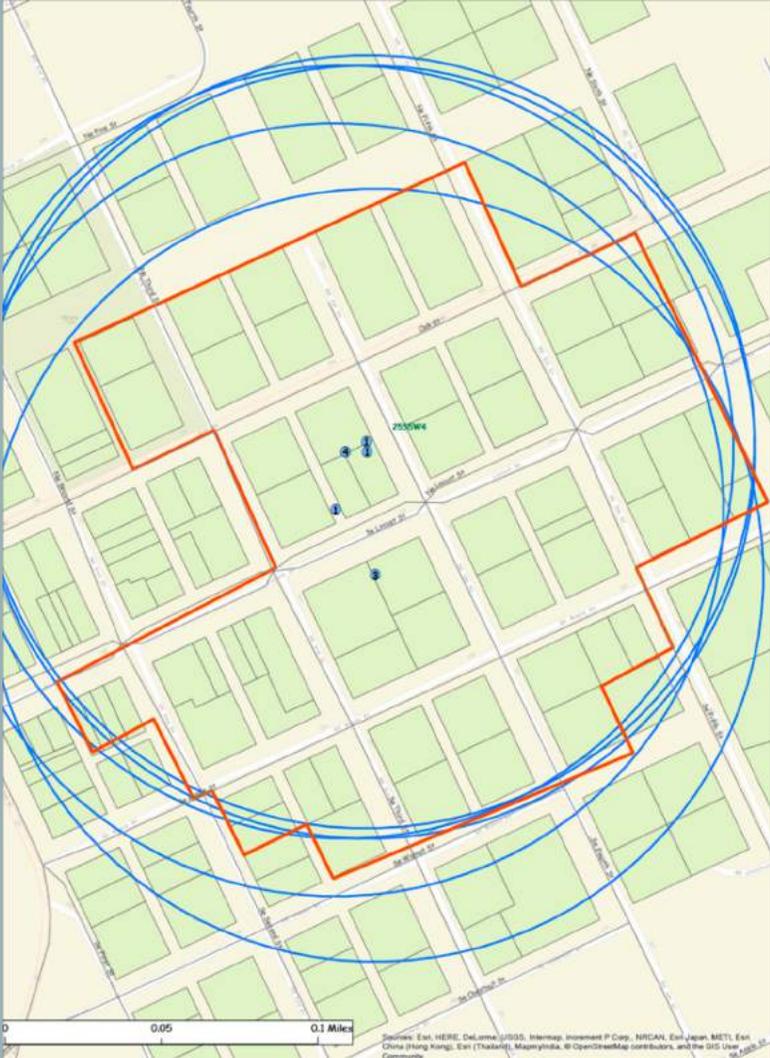
**Tualatin Hills  
Rec. Center**

# Japanese Beetle Treatment Area 2018

PDX



Oakland



# Acelepryn G

## What is Acelepryn?

- Insecticide: 0.2% chlorantraniliprole

## Why Acelepryn?

- Very effective against Japanese beetle
- Reduced risk insecticide
- No caution words & No "restricted entry" period

## Acelepryn & People, Pets, & Wildlife

- Unlikely that even direct exposure will result in adverse health effects
- A toddler would need to eat more than 4 pounds of treated soil daily to exceed maximum daily dose limit

## Can the treatment affect my edible plants?

- As a precaution, edible plants will not be treated

## Ecological Impacts

- Toxic to aquatic invertebrates, oysters, and shrimp
- Will not be applied directly to water and buffers will be used



# *Bacillus thuringiensis galleriae*

## **GrubGone! G**

- Bacterial-based insecticide
- Similar products are used frequently in organic food production
- Health risks to people and pets are very low for Bt-based products
- No “restricted entry”
- Medical exemptions
- Late season applications (hot spots)



This project would not be possible without agencies and members of the community. Some of the organizations that support Agriculture's Japanese beetle eradication



Tualatin Soil and Water Conservation District



**Oregon**  
Kate Bowen, Governor

We must receive a reply from you as soon as possible. Please visit <https://oda.direct/jbconsent> or return the enclosed card.

January 3, 2018

Dear Resident(s):

You are receiving this letter because you live in the treatment area for the Japanese beetle eradication project. This is part of a five-year pest elimination project of Agriculture (ODA). A significant population of Japanese beetle was found in Cedar Mill in 2016. This destructive insect, was found in Cedar Mill in 2016. This pest, established in the western states. In addition to severely damaging ornamental plants, adult JB's can damage and kill other crop plants by feeding on leaves, fruits, and flowers. They also feed on bushes, berry bushes, grapes, and fruit trees.

In order to avoid the establishment of Japanese beetle in the treatment area, the proposed five-year eradication project in 2018 will require your cooperation and support from residents, community organizations, and businesses. The opportunity to eradicate Japanese beetle is here.

We are asking for your consent to allow us to apply granular insecticide to your lawns and ornamental planting beds on your property. This treatment is provided at no charge to the residents who consent by using the online consent form or by returning the enclosed consent form.

The threat of Japanese beetle establishment in the treatment area is more than a nuisance and garden plants and trees would face estimated costs of more than \$100 million. This cost would come from increased costs to the nursery and landscaping industry. Also, if the beetle spreads to other areas, it could affect Washington County's thriving nursery and landscaping industry. Also, if the beetle spreads and affecting Washington County's thriving nursery and landscaping industry.

We invite you to attend a public meeting on Tuesday, February 6, 2018, at 7:00 PM.

Tuesday, February 6, 2018  
Tuesday, February 13, 2018

Areas with lawns and ornamental plants will receive treatment with granular insecticide where beetles are found.

**Japanese beetle has been detected in areas of Washington County.**

- This invasive pest is a serious threat to landscapes, natural areas, and agricultural industries.
- The Oregon Department of Agriculture is taking measures to eradicate this pest in Oregon.
- Please fill out and return this card to the Oregon Department of Agriculture immediately.**
- This consent form can also be completed online - <https://oda.direct/jbconsent>**

Japanese beetle eradication treatment consent form: I have been contacted by the Oregon Department of Agriculture ("ODA"), Insect Pest Prevention and Management Program, and have been supplied with information regarding the planned Japanese beetle eradication treatments in the area. I understand that the treatment program will consist of one application of the granular insecticide Acelepryn®G to all lawns and shrub beds on my property. The applications will be done according to the insecticide label and other appropriate equipment. The granular insecticide will be applied using push-cart, belly gun, or other appropriate equipment. This insecticide is used to treat Japanese beetle grubs in the soil. Department of Agriculture staff will supervise each application. The application is scheduled for April and May 2018.

**I understand that the treatment program will be at no cost to me.** The program is funded entirely by the Oregon Department of Agriculture.

**Timing of the treatment:** The treatment dates may change depending on weather or other factors. Each application and regarding any changes in the planned schedule. One property takes approximately thirty minutes to treat. Your contact information below will be used for notification purposes and shared with, or used by, any other party.

- I hereby give my consent to the Oregon Department of Agriculture to enter my property to apply granular insecticide to my lawn and ornamental plants during April and May 2018.
- I am requesting an alternative treatment to that described above due to medical reasons or other reasons. I will provide a written statement in support of that request.
- I do not give my consent to the Oregon Department of Agriculture to enter my property to apply granular insecticide to my lawn and ornamental plants during April and May 2018.

Because of the seriousness of this beetle infestation to the State of Oregon's agriculture, the Oregon Department of Agriculture may seek an administrative warrant from the Circuit Court allowing ODA permission to treat the property.

PLEASE PRINT CLEARLY

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Home Phone: \_\_\_\_\_ Signature: \_\_\_\_\_

Cell Phone: \_\_\_\_\_

\_\_\_\_\_ Email: \_\_\_\_\_

Please indicate your preference for treatment date notification:  Email  SMS/Text

**Thank you for helping us to prevent the establishment of invasive species.** If you have any questions please contact Chris Hedstrom 503-993-1013 or toll-free 1-800-525-0137.



OREGON DEPARTMENT OF AGRICULTURE PEST ALERT

Japanese Beetle

A Major Pest of Specialty Crops & Ornamental Plants



# Open Houses



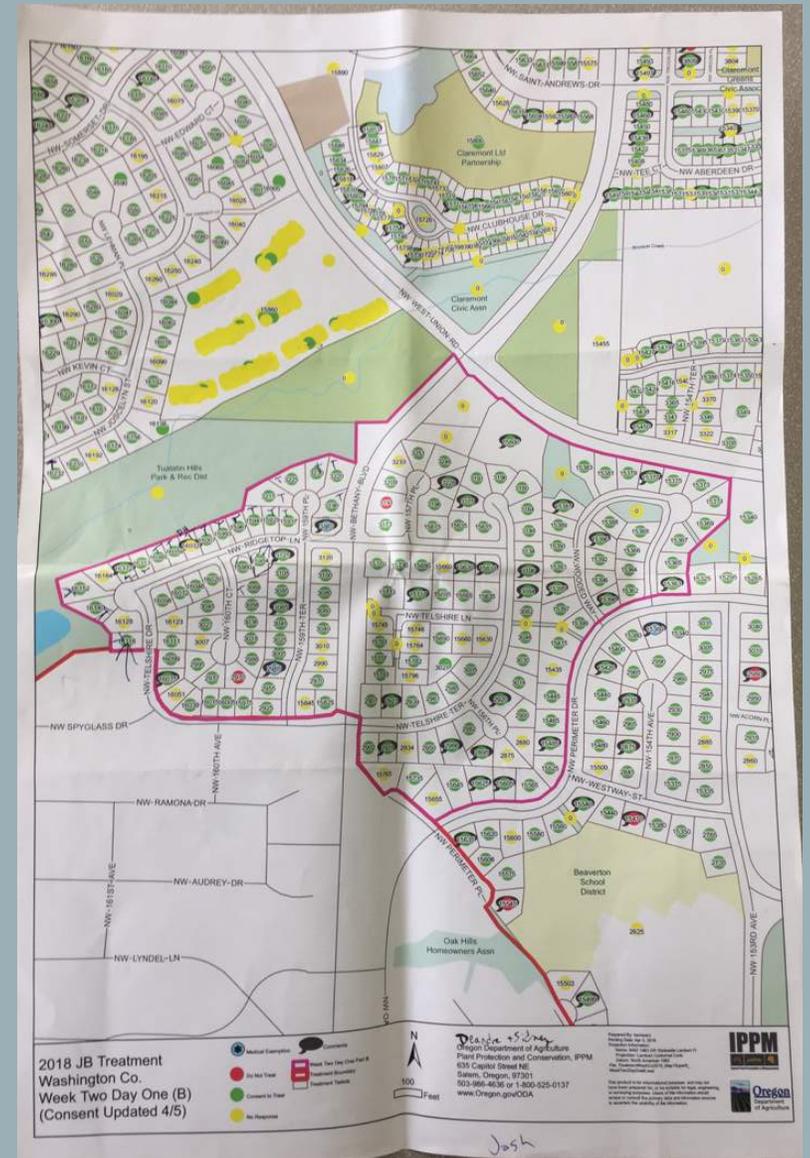
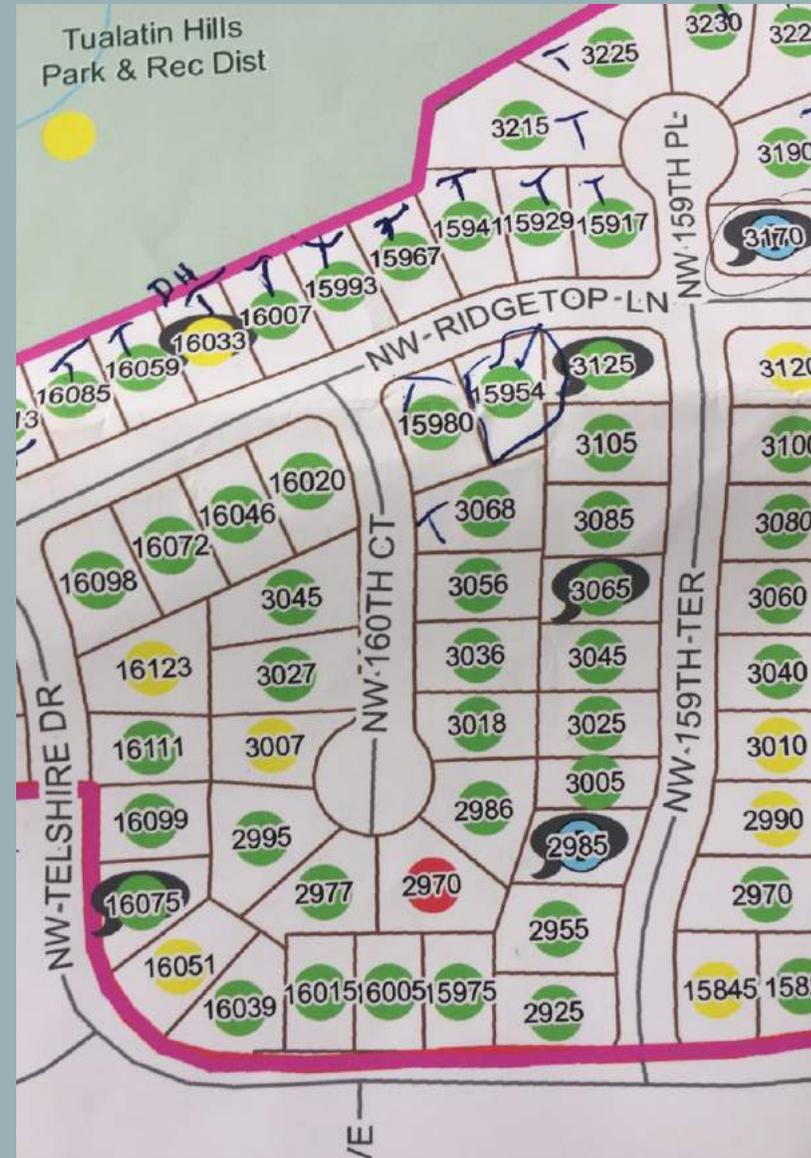
# Consent Letters

## ~5810 Total residents

5113 (88%)	Yes
80 (1.3%)	No
25 (.4%)	Medical Exemption
400 (7%)	Non-response (warrants served)



# Japanese Beetle 2018 Treatments











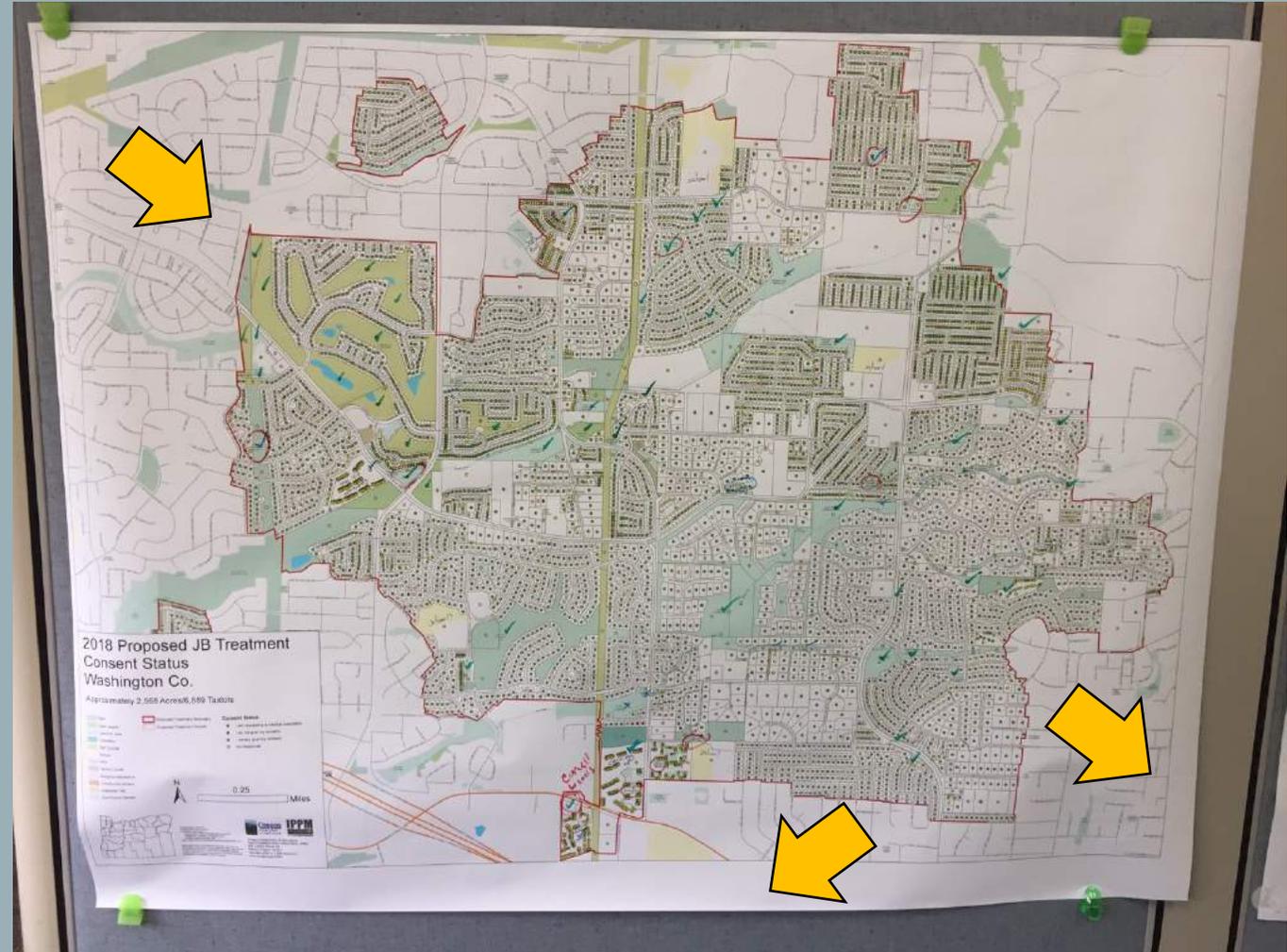
# Final 2018 Treatment Numbers

## Acelepryn G

- ~ 1,900 acres (5,800 residences)
  - 4 large parks
  - 5 schools
  - 2 shopping centers
  - 1 golf course
- 150 acres treated at PDX
- 34 acres (31 residents in Oakland)

## BtG

- Medical exemptions
- New “hot spots”



# Trapping 2018



# Trapping 2018

2018-07-08 23:00:03



[00c7](#)

([36008](#) [201837007](#))

2018-07-08 23:00:03



[01a9](#)

([36001](#) [201837001](#))

2018-07-08 23:00:03



[018f](#)

([36007](#) [201837008](#))

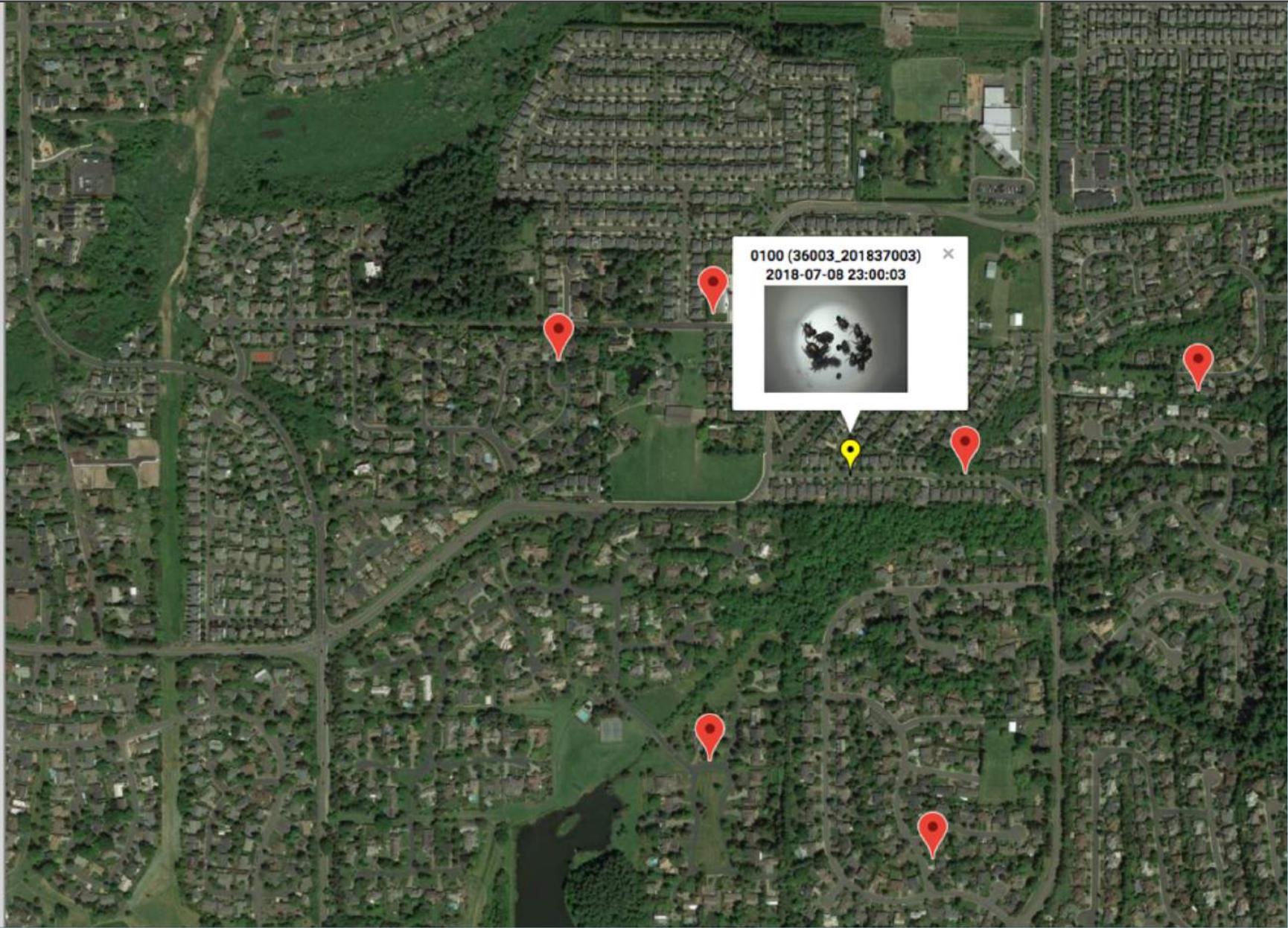
2018-07-08 23:00:03



[0076](#)

([36004](#) [201837004](#))

2018-07-08 23:00:03

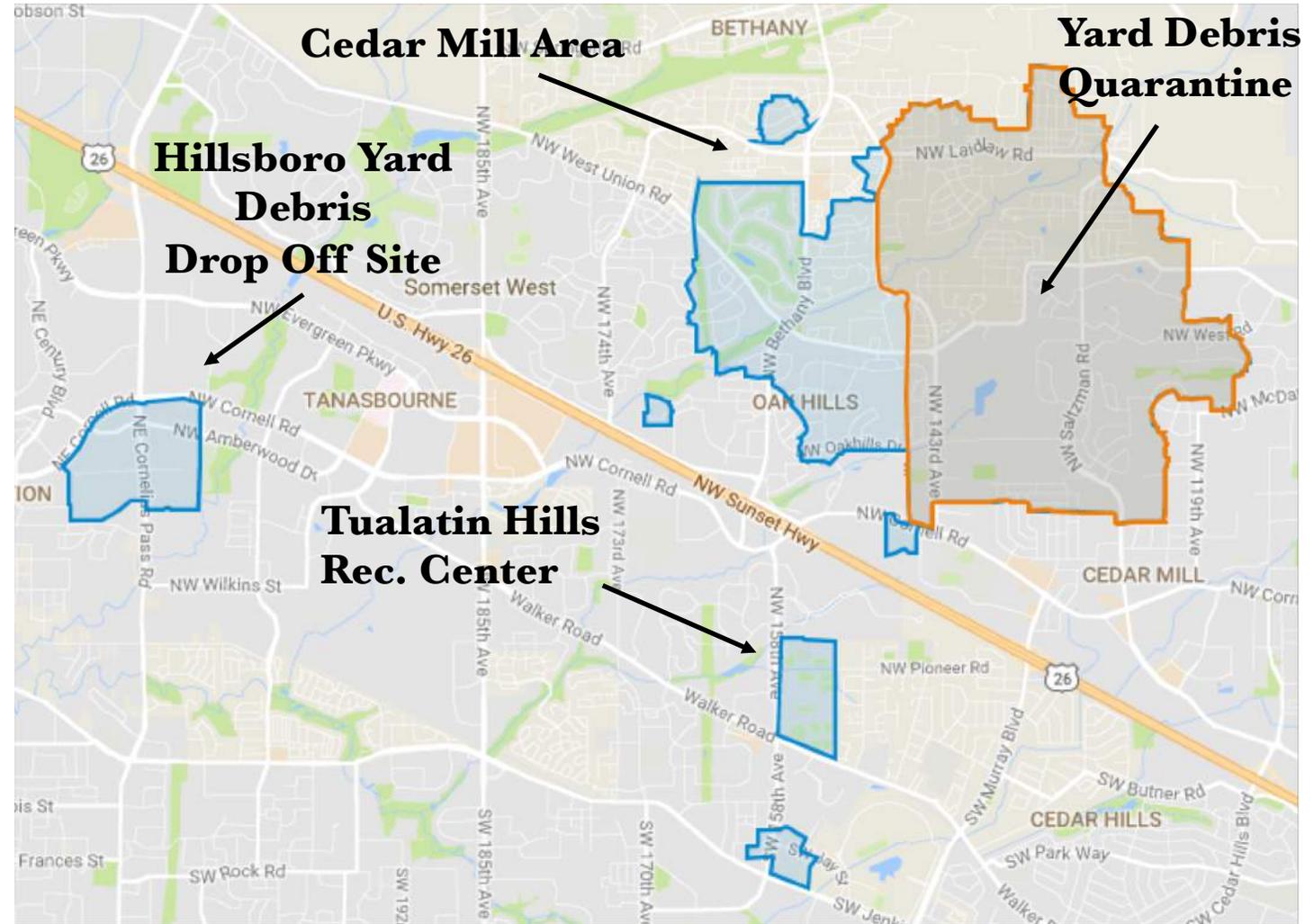
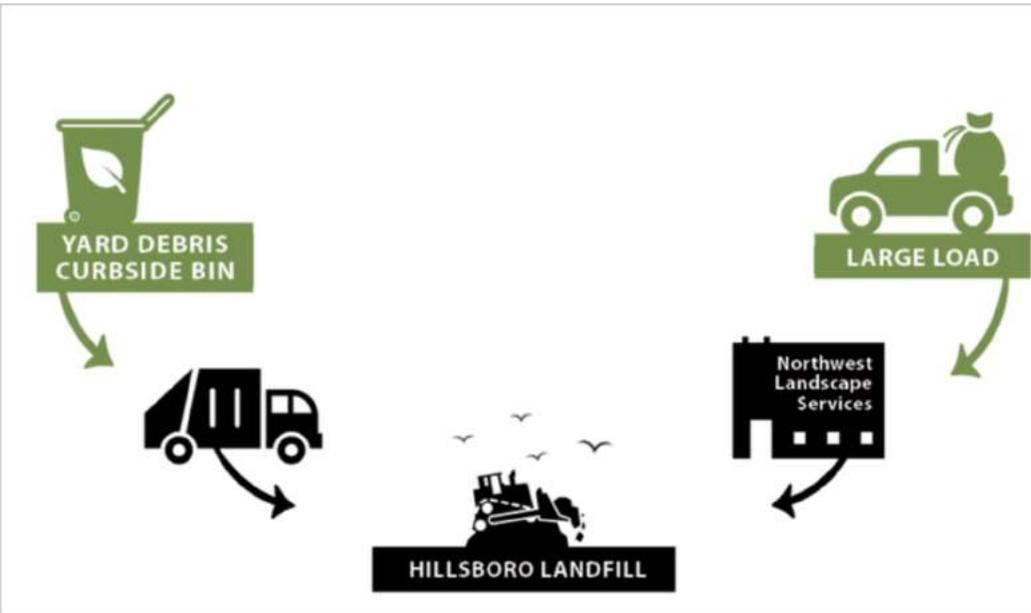


# Total JB Catches 2018

	2017	2018	
<b>C.M. inside treatment area</b>	<b>22,688</b>	<b>14,007</b>	<b>~38% Reduction</b>
<b>C.M. outside treatment area</b>	<b>23,454</b>	<b>17,667</b>	
<b>PDX</b>	<b>11</b>	<b>7</b>	
<b>Oakland</b>	<b>10</b>	<b>1</b>	
<b>Swan Island</b>	<b>5</b>	<b>2</b>	



# Yard Debris Quarantine

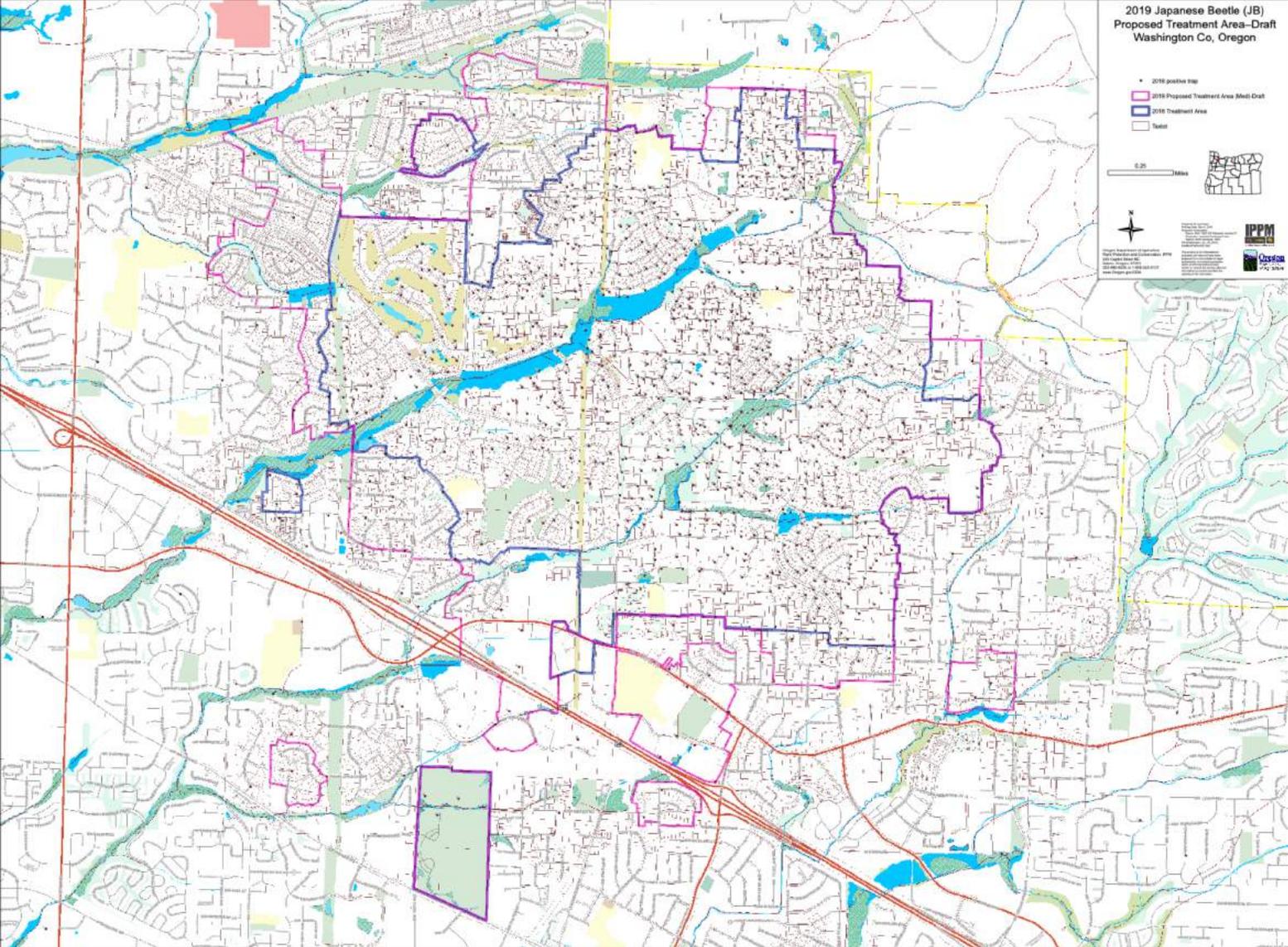


# Yard Debris Quarantine

- 2,000 tons of yard debris diverted for deep burial at the Hillsboro landfill



# JB 2019 Treatment Area



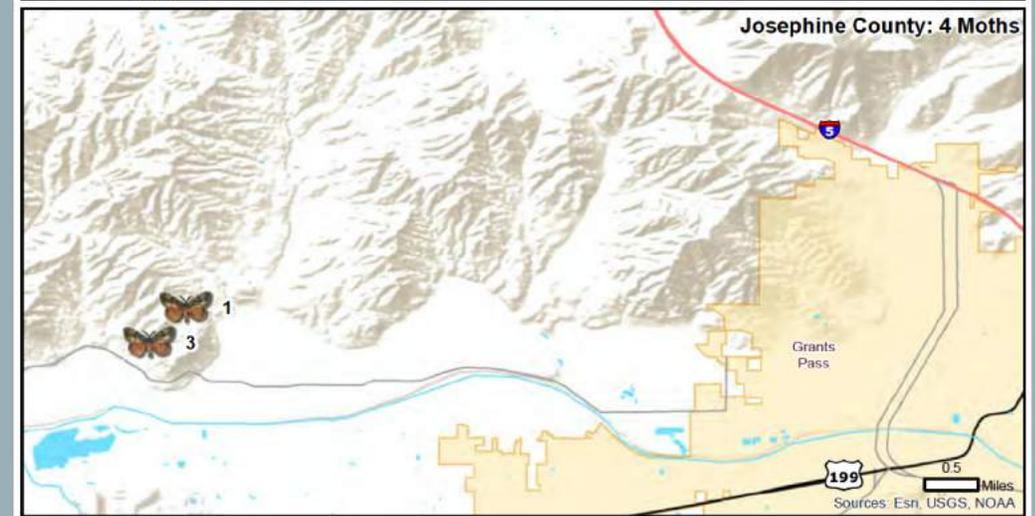
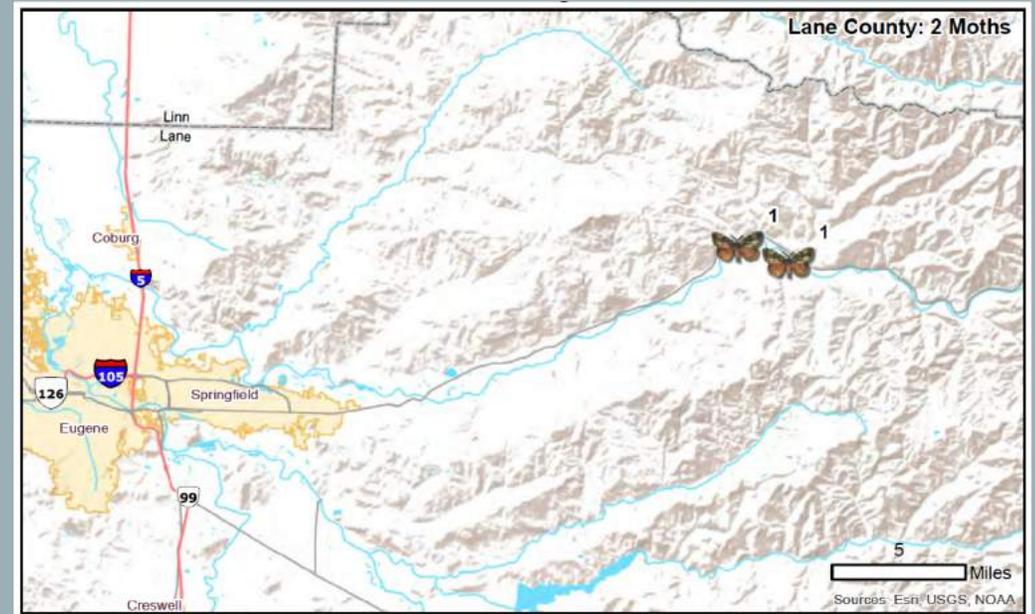
GYPSY MOTH  
BACKGROUND & UPDATE

# 2016 Delimitation Results

**Lane County:** 1 site (2 GM)

**Josephine County:** 1 site (4 GM)

**Multnomah County:** No moths  
(2 AGM detected in 2015) 



# 2017 Delimitation Results

**Lane County:** 1 site (2 GM)

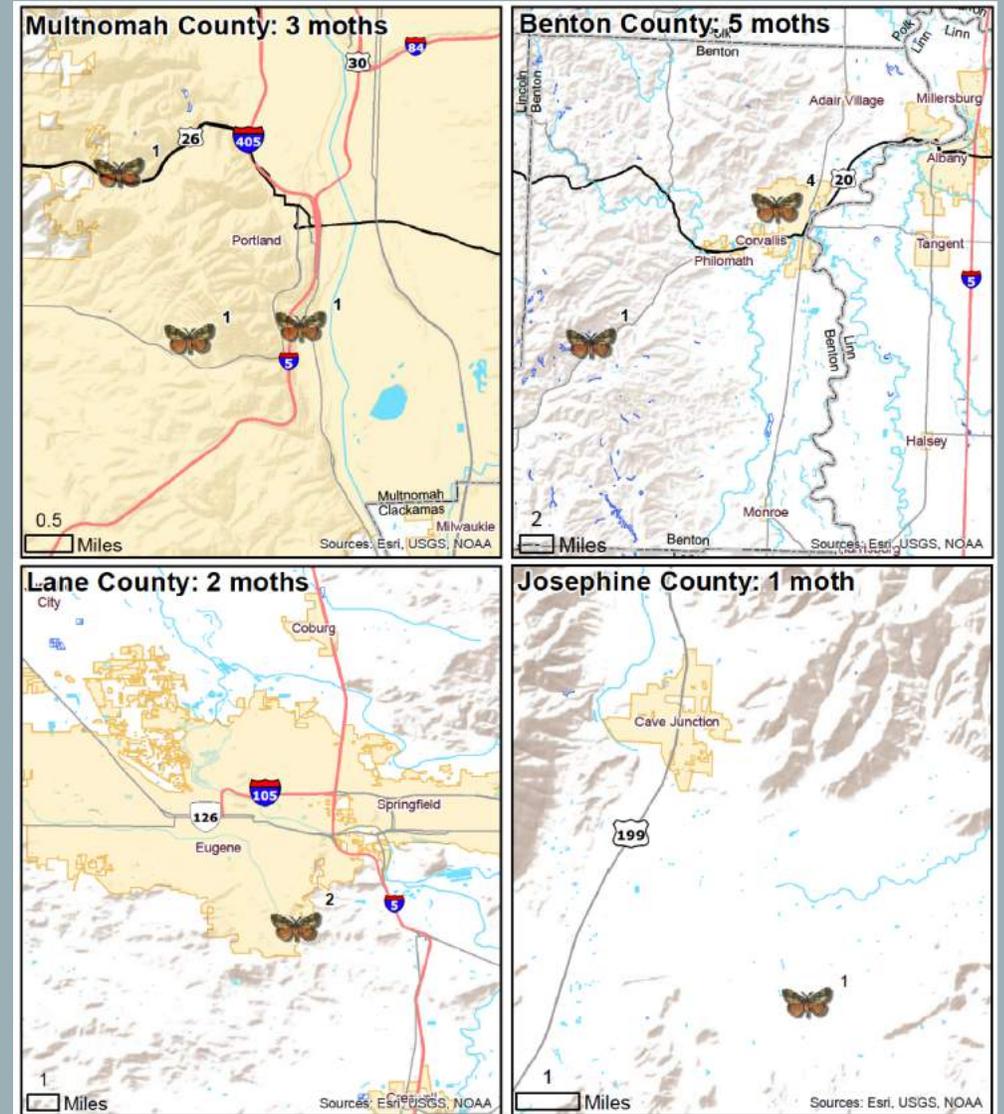
**Josephine County:** 1 site (1 GM)

**Multnomah County:** 3 sites (3 GM)

No AGM in 2017



**Benton Co:** 2 sites (5 GM)



# 2018 Detections

**Lane County:** 2 sites (2 GM)

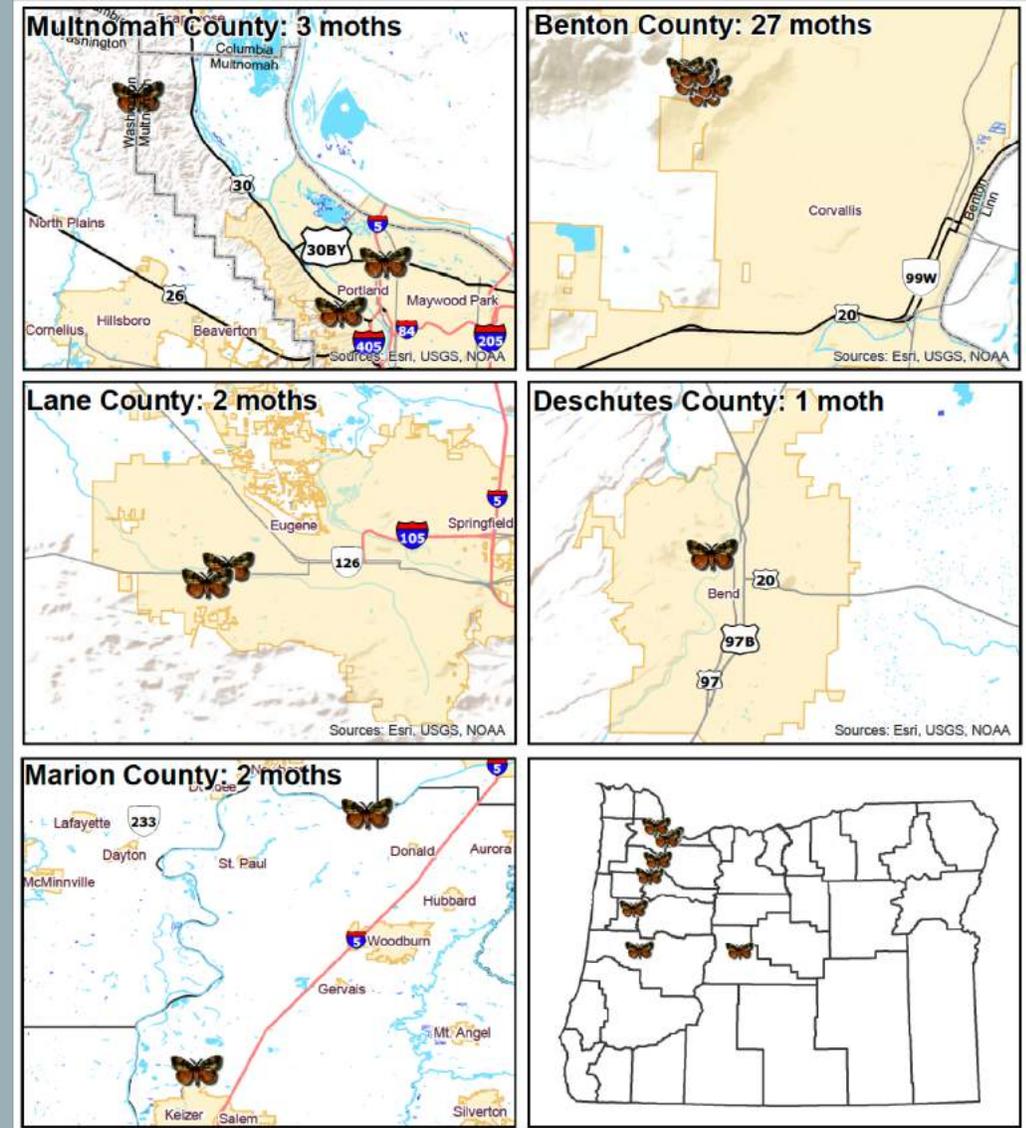
**Multnomah County:** 3 sites (3 GM)

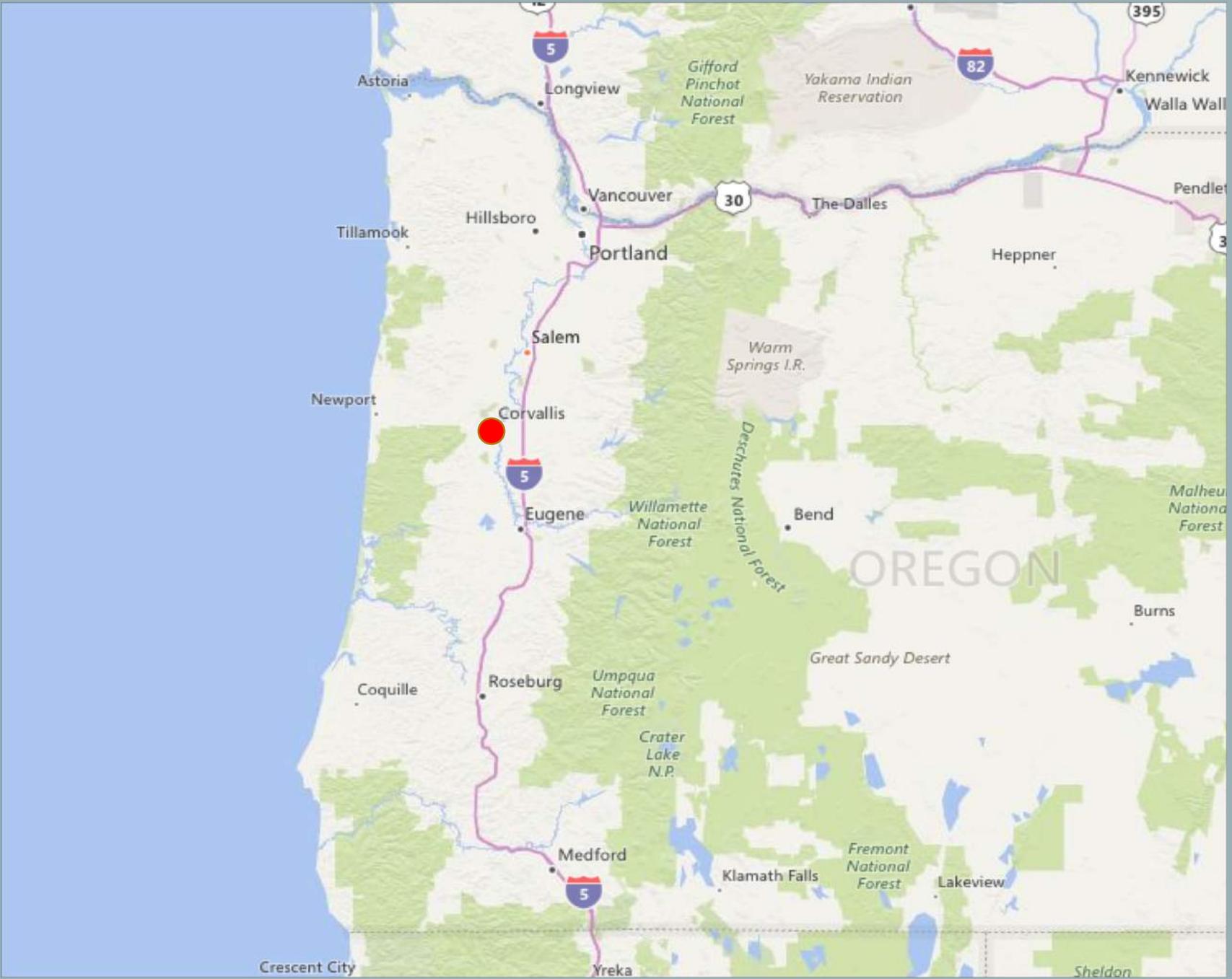
No AGM in 2018 

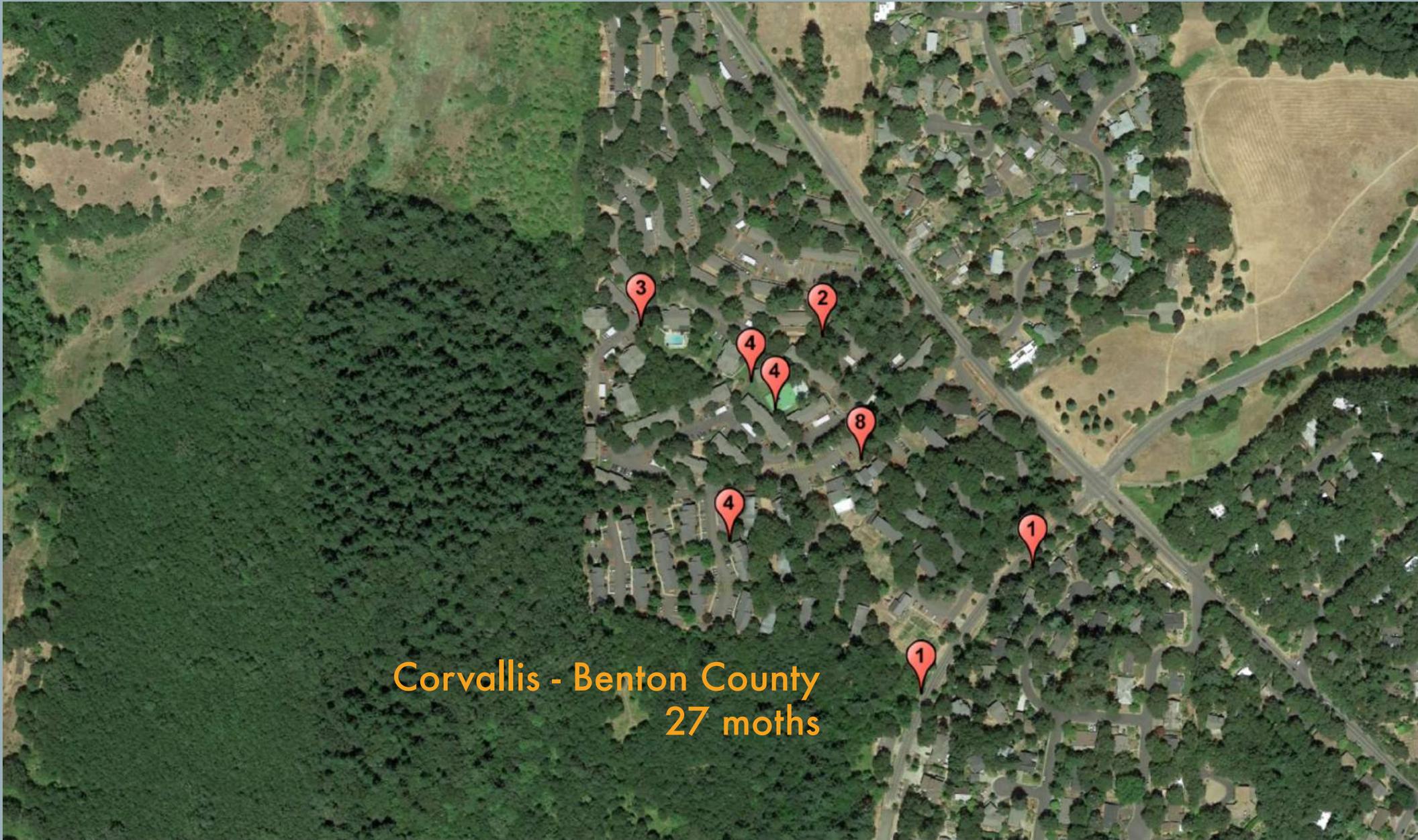
**Deschutes County:** 1 site (1 GM)

**Marion County:** 2 sites (2 GM)

**Benton County:** 1 site (27 moths) 







Corvallis - Benton County  
27 moths

# 2019 Treatment Area (45 Acres)



# Foray XG (*Bacillus thuringiensis kurstaki*)

## Foray XG

- Same as Foray 48B but formulated for ground treatment
- Not registered yet in Oregon
  - Trying to get it registered (\$\$)
  - Special local needs/temp label?
  - Foray 46B, but not organic...
- 2 applications (April and/or May)
- 1 open house

DOC ID: 520137 List No. 60181-04-02

Flowable Concentrate

# Foray<sup>®</sup> XG

ACCEPTED FOR REGISTRATION  
NOV 12, 2009

Biological Insecticide

New York State Department of Environmental Conservation  
Division of Solid & Hazardous Materials  
Pesticide Product Registration

For Organic Production

### For Urban Use - Ground Application

**Active Ingredient:**  
*Bacillus thuringiensis* subsp. *kurstaki*, strain ABTS-351, fermentation solids, spores and insecticidal toxins ..... 12.65%

**Other Ingredients** ..... 87.35%

**Total** ..... 100.00%

Potency: 10,600 Cabbage Looper Units (CLU) per mg of product (equivalent to 48 billion CLU per gallon). The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-315-9819 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-323-9597.

EPA Reg. No. 73049-427  
EPA Est. No. 33762-IA-001 ©2009

**VALENT BIOSCIENCES CORPORATION**  
870 Technology Way  
Libertyville, IL 60048 U.S.A.

**Net Contents: 2.5 U.S. gal.**

04-6054/R4

PEEL BACK BOOK HERE AND RESEAL AFTER OPENING

Corvallis, Oregon

Google, Inc.

Street View - Aug 2016



Google

4026 NW Witham Hill Dr  
Corvallis, Oregon  
Google, Inc.  
Street View - Aug 2017



Google



Oak Vale Apartments

Inina Lisenkova

Photo - May 2017



Google

Questions?

