Overview of ODA's 2018 eradication effort

Japanese beetle (JB)
Gypsy moth/Asian Gypsy moth (GM/AGM)
Light brown apple moth (LBAM)
Grasshopper/Mormon cricket

Barry B. Bai, Entomologist

Oregon Department of Agriculture
Insect Pest Prevention & Management

Oregon Department of Agriculture

IPPM
Insect Pest Prevention & Management
Oregon Department of Agriculture

Oregon Department of Agriculture
Insect Pest Prevention & Management

Partners in Japanese beetle eradication

Metro

TUALATIN HILLS PARK & RECREATION DISTRICT

OISC OREGON INVASIVE SPECIES COUNCIL

General Tree Service

The Cedar Mill News

Cedar Mill Community Libraries

Washington County Oregon

Oregon Health Authority

npic

Walker Garbage Service, Inc.
Oregon Landscape Contractors Board
Clean Water Services
WM SWCD – Tualatin SWCD
Transfer and Reload stations
Aloha Garden Club
Leedy Grange – Bales Grocery
Volunteers
… and many more

NLS

The Northwest Berry Foundation

WM WASTE MANAGEMENT

OREGON ASSOCIATION OF NURSERIES

OSU EXTENSION MASTER GARDENER

State of Oregon Department of Environmental Quality DEQ

OLCA OREGON LANDSCAPE CONTRACTORS ASSOCIATION

Samara Group

Why do we care?

They eat plants that we like to grow and eat.

Economic impact

Impact to Oregon Ag: $43,000,000 annually

Photo: Bruce Watt

Photo: Frank Hale

Photo: Mike Reding

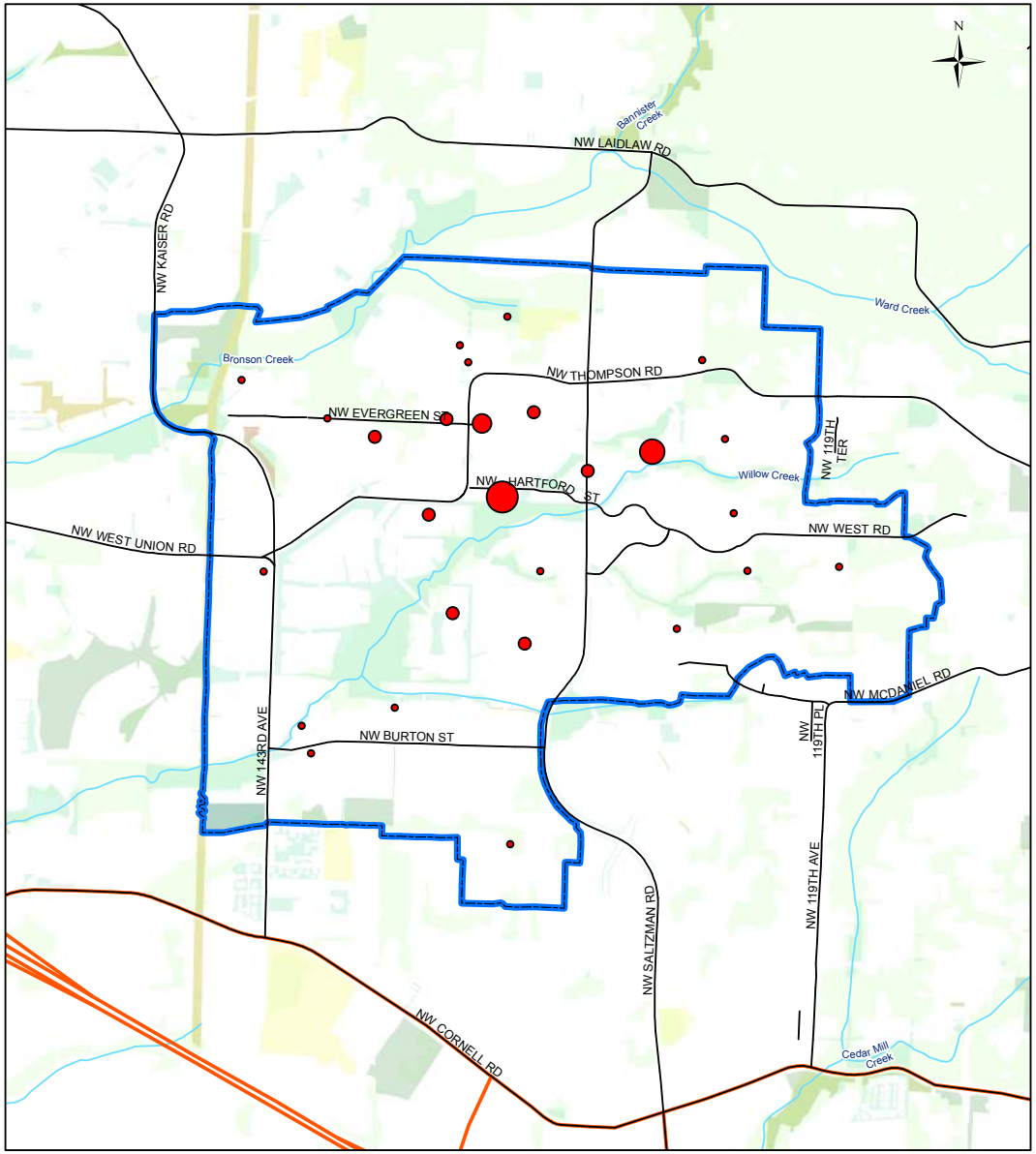
Overlapping aspects to the Eradication project

- Treatment
- Detection
- Communications
- Containment

2017 JB treatment area Cedar Mill, WA Co

About 1000 acres
2459 properties

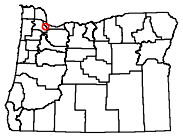
2,121 properties treated



Japanese Beetle Detections 2016 Cedar Mill

Number of Beetles

- 1 - 3
- 3 - 11
- 11 - 35
- 35 - 82
- 82 - 171
- Proposed Treatment Area



Oregon Department of Agriculture

0.25 Miles

Prepared By: kschwarz
Printing Date:Febr 2, 2017
Projection Information:
Name: NAD 1983 OR Statewide Lambert Ft
Projection: Lambert Conformal Conic
Datum: North American 1983
File: \\PPM\PestsPrograms\Salem\JB\Maplib\MapsForWebsite\NW Portland JB Trap Catches & TrtBnd 8x11 2016_17.pdf.mxd

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STO

Kirstin Richards checks a trap in Cedar Mill, 2017

Detection

Implemented increased statewide surveillance for Japanese beetles

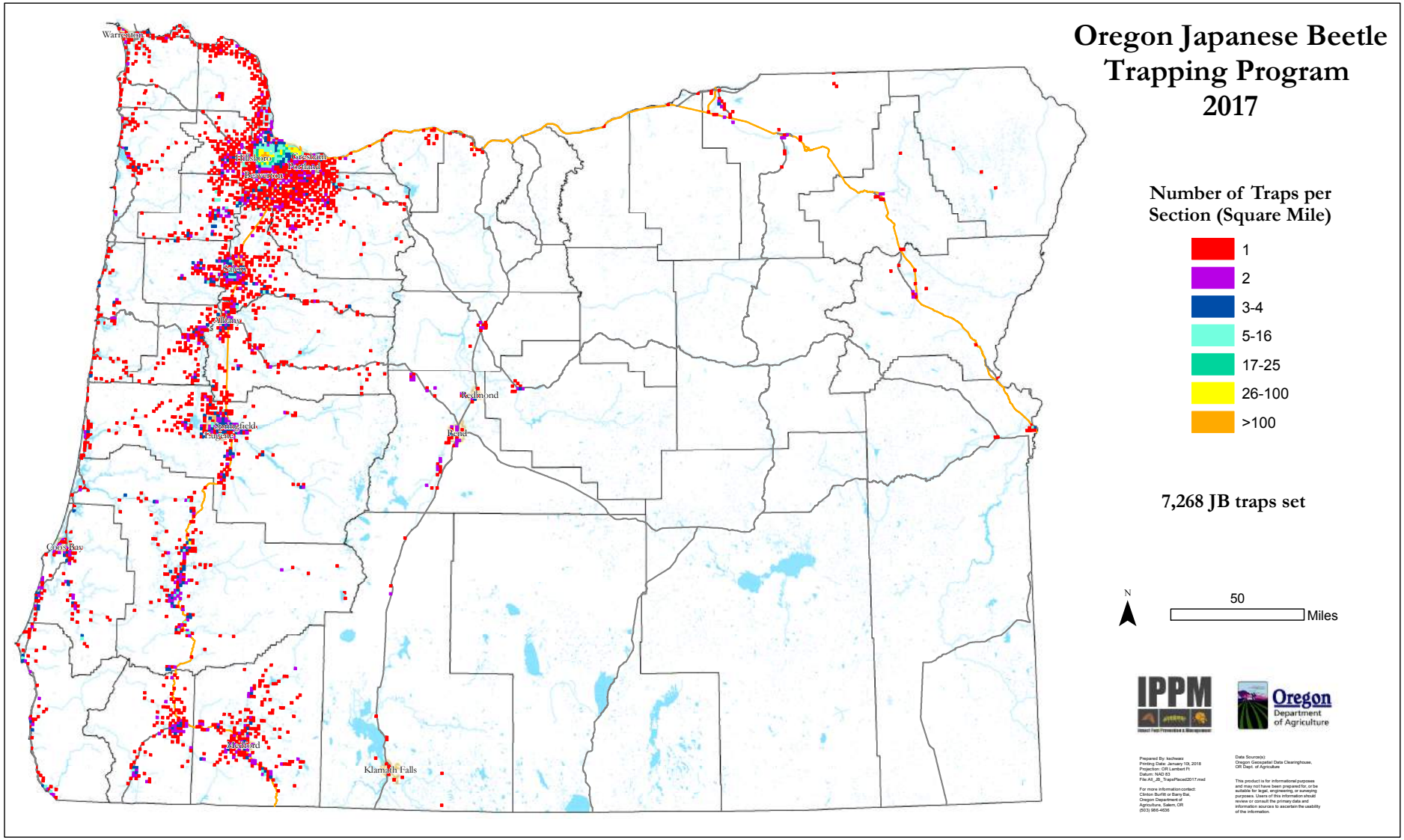
Traps:

Statewide total: 7,268
Airport: 1,077
Cedar Mill: 2,069

Beetles:

Cedar Mill: 23,454
PDX: 11
Swan Island: 5
Oakland: 10
(potted plants form Arkansas)

Detection



Oregon Japanese Beetle Trapping Program 2017
Number of Traps per Section (Square Mile)
1
2
3-4
5-16
17-25
26-100
>100
7,268 JB traps set
N
50
Miles
Warrenton
Hillsboro
Gresham
Portland
Beaverton
Salem
Albany
Springfield
Eugene
Redmond
Bend
Coos Bay
Medford
Klamath Falls
IPPM
Oregon Department of Agriculture
Prepared By: kschwarz
Printing Date: January 10, 2018
Projection: OR Lambert Ft
Datum: NAD 83
File: All_JB_TrapsPlaced2017.mxd
For more information contact:
Clinton Burfitt or Barry Bai,
Oregon Department of Agriculture, Salem, OR
(503) 986-4636
Data Source(s):
Oregon Geospatial Data Clearinghouse,
OR Dept. of Agriculture
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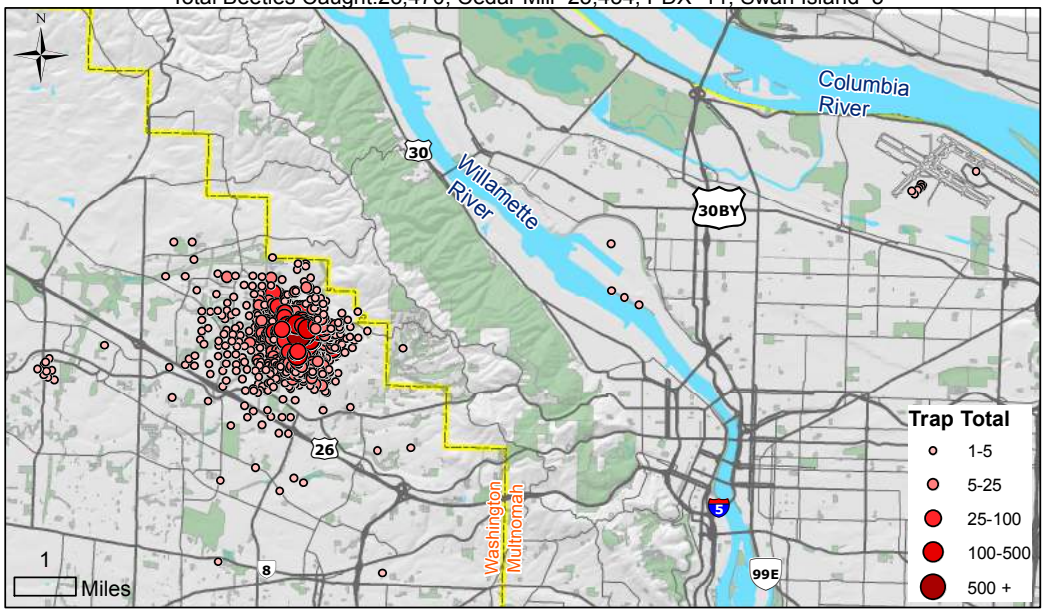
Detection

2017 Oregon Japanese Beetle Trap Catches

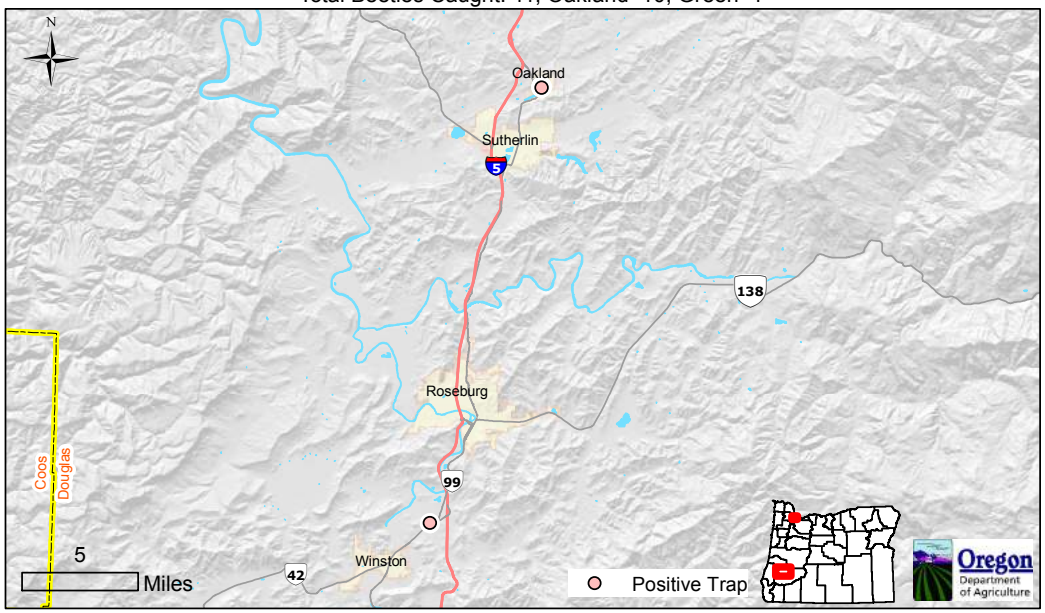
Washington and Multnomah Counties

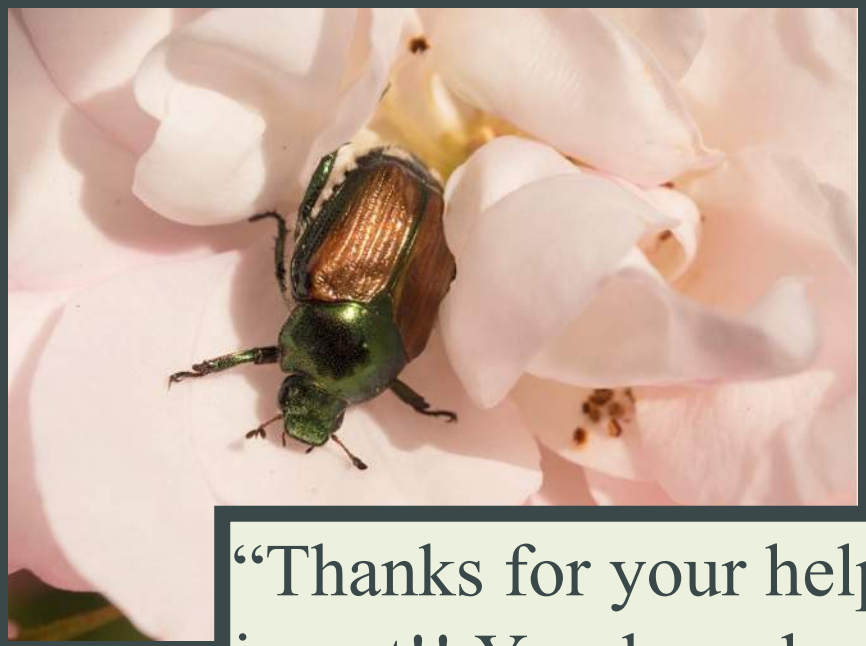
Total Beetles Caught:23,470; Cedar Mill–23,454, PDX–11, Swan Island–5



Douglas County

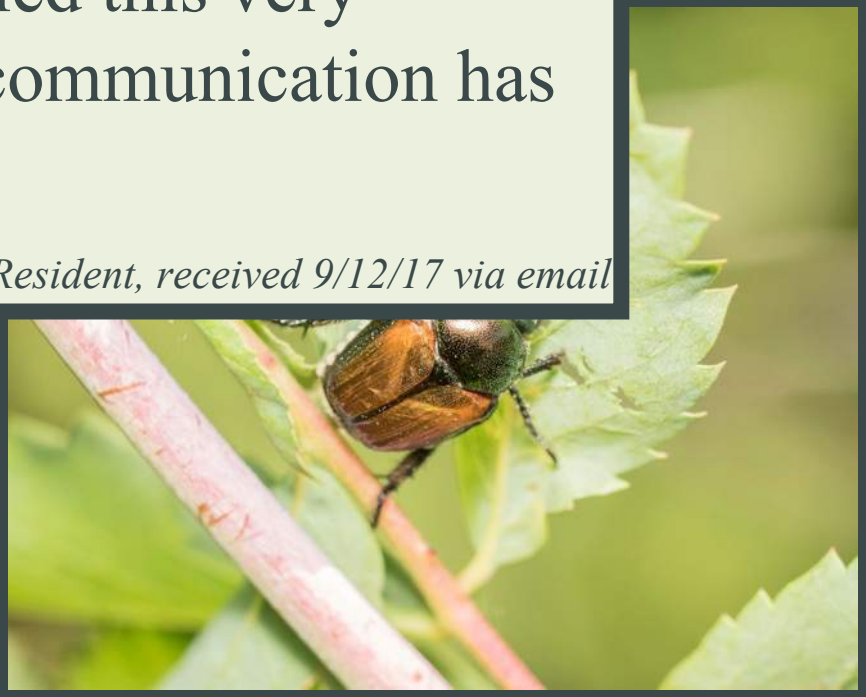
Total Beetles Caught: 11; Oakland–10, Green–1





"Thanks for your help to eradicate this insect!! You have handled this very professionally and the communication has been great."

From a Cedar Mill Resident, received 9/12/17 via email



Containment

Northwest Landscaping Services
Temporary quarantine transfer station,
Hillsboro, Oregon

Containment

Total tonnage June - November:
1,821.40 tons of yard debris

Northwest Landscaping Services
Temporary quarantine transfer station,
Hillsboro, Oregon

What We Learned – Year 1 (2017)

- Invaluable input from stakeholders – early & often
- Systems for success: technology (database, Collector app, phototraps), door to door, stakeholder briefings, open house, and ODA-led operations with contractor
- Expert team for public health and consent, legal requirements
- Multi-agency team approach — communications, operations, containment

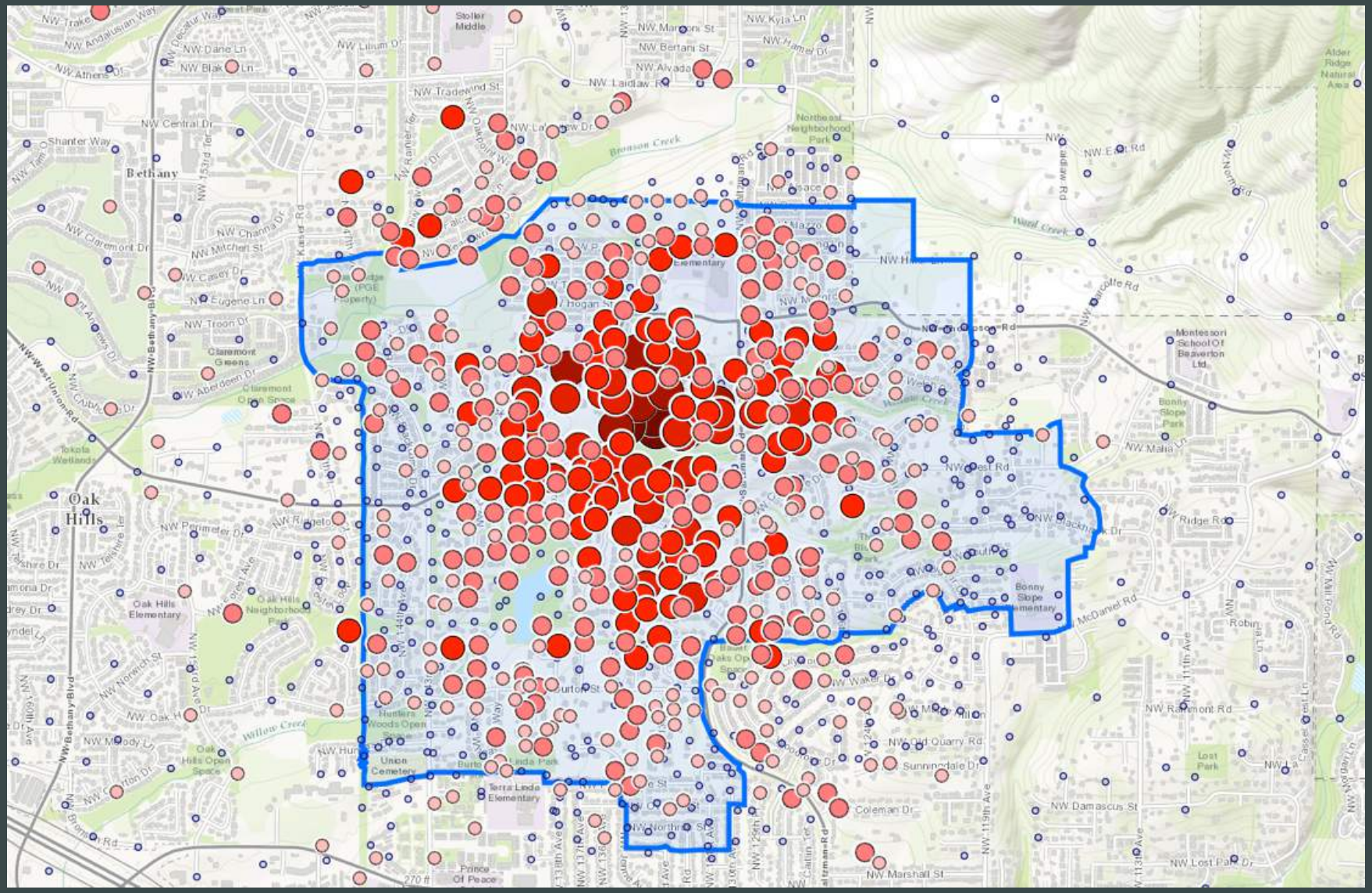
Creation of JB Response Plan 2018

Started with 2017 operations as a template

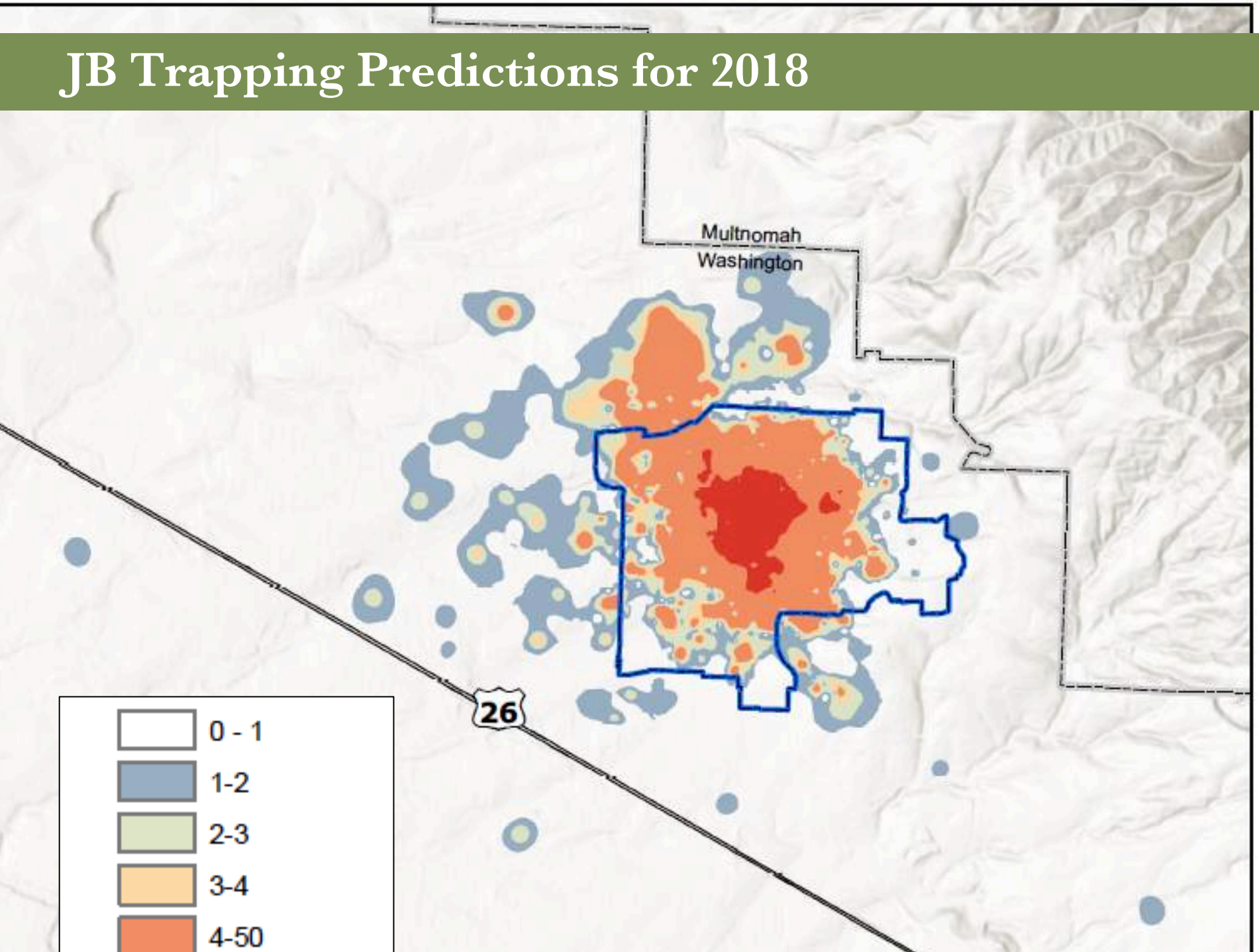
Collected all data from 2017 traps

Drafted treatment boundary
- inverse distance weighting
- traps catches
- high risk areas

Trapping Results – Cedar Mill 2017

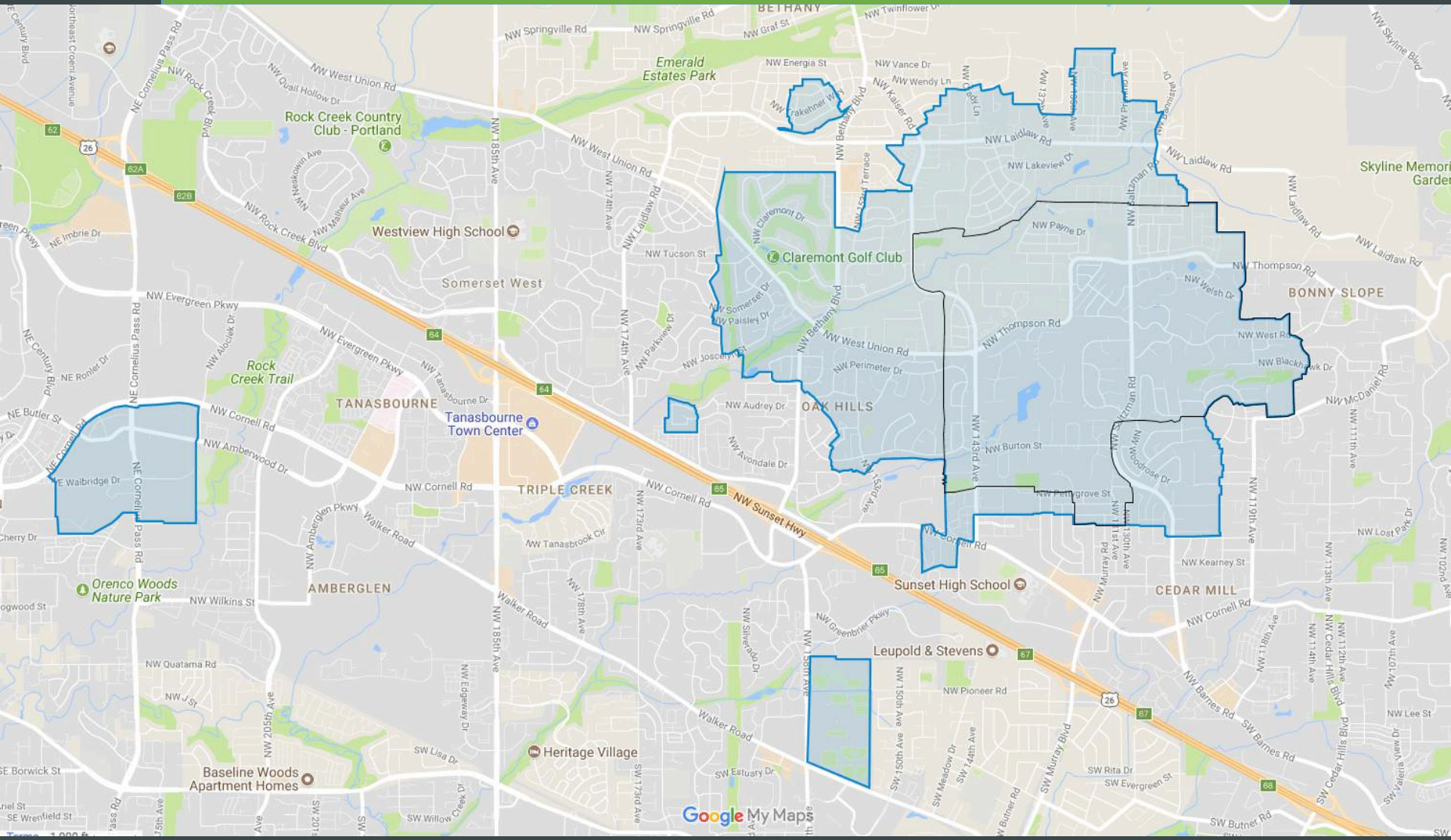


JB Trapping Predictions for 2018

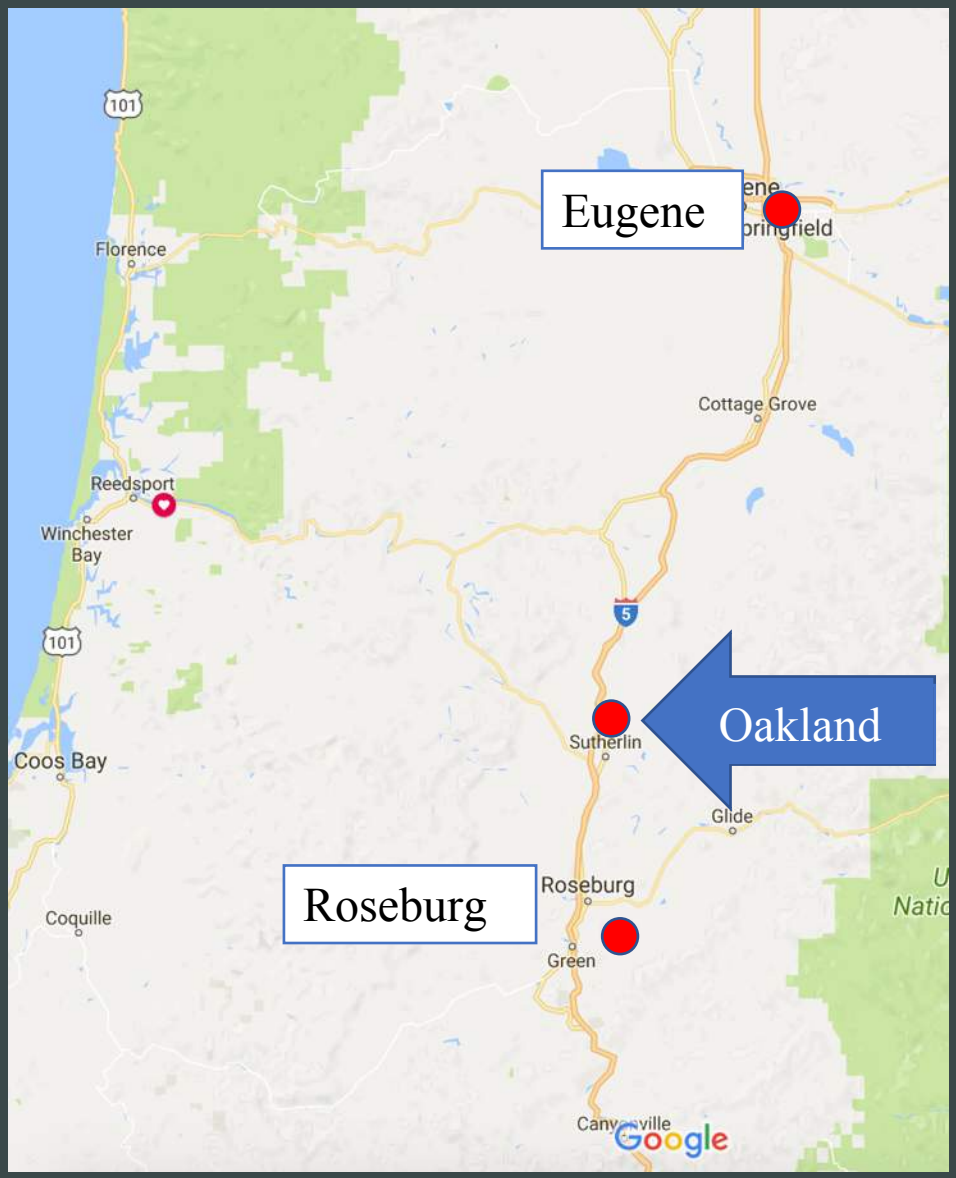


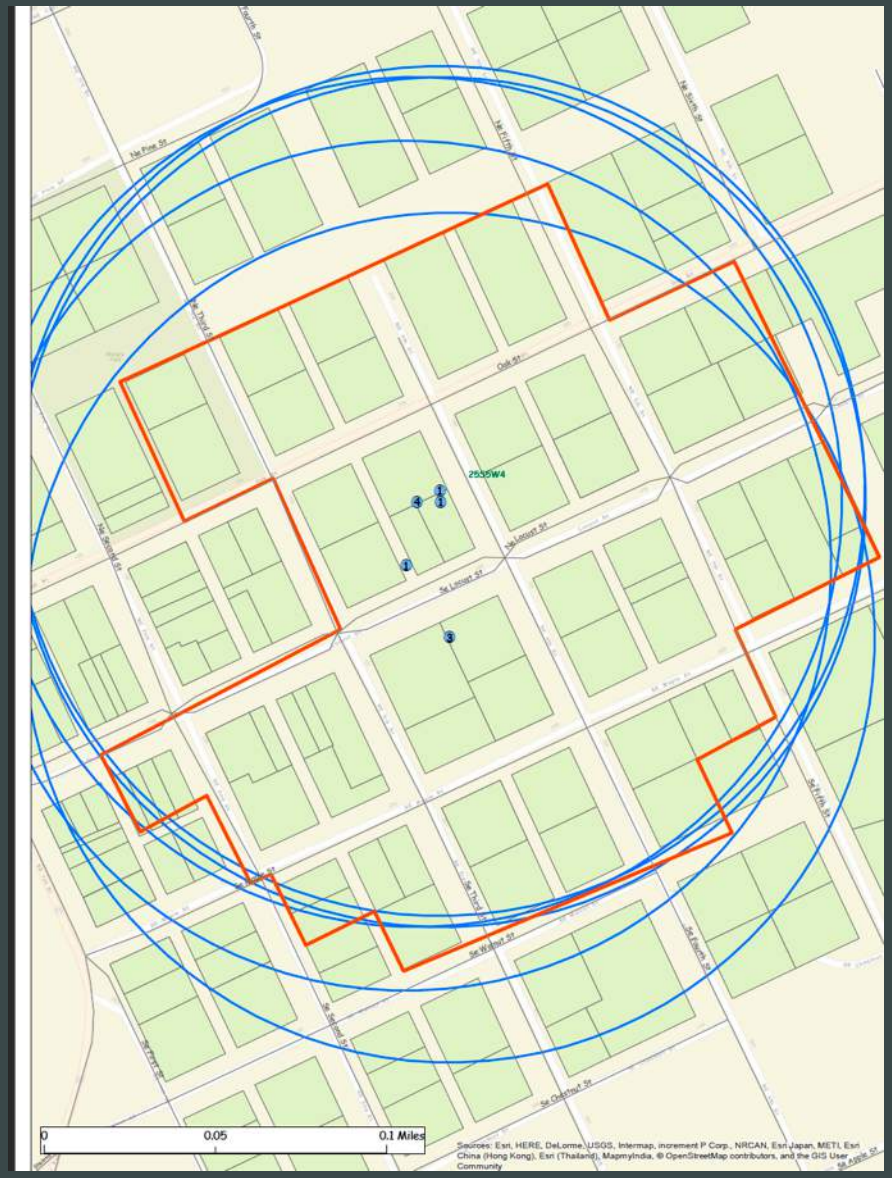
2018 Proposed JB Treatment Area

About 2568 acres, 6689 properties



Results – Oakland, OR

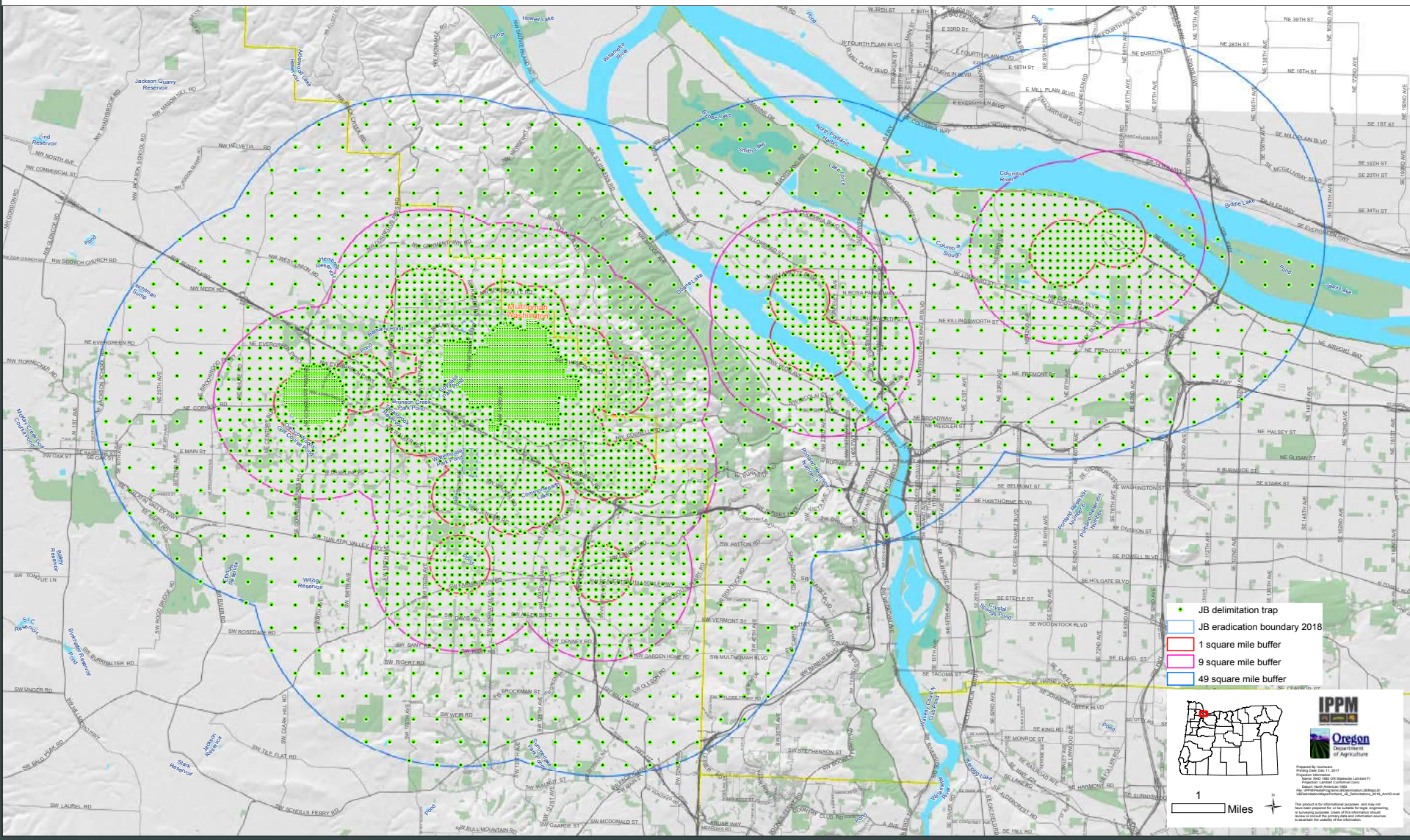




Trapping – Year 2

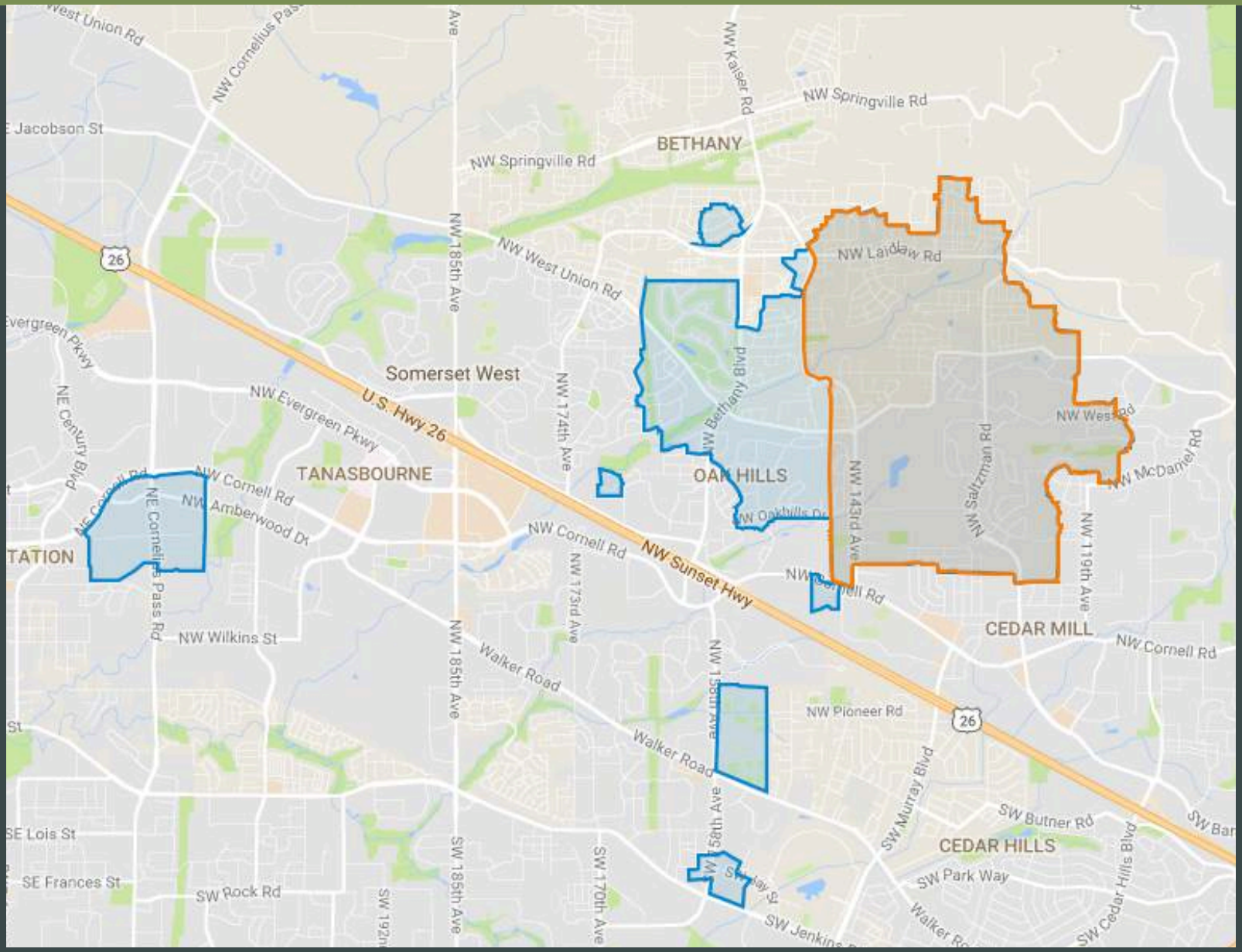
2018 Proposed Japanese Beetle Delimitation Portland, Oregon

5,154 Total Proposed Delimitation Traps



Containment – Year 2

New Quarantine / Containment boundary



Operations – Year 2

Communications – Year 2

- Update key messages to address gaps from year 1
- Refined strategies for outreach to landscapers and community
- Building a new resident consent process
- New partners and champions

Current Efforts: Communications & Coordinated Planning

www.japanesebeetlepdx.info

Strategic Communications Framework: (*In Progress*)

- Outreach & Engagement: Partners & Champions
- Marketing: Awareness & Support

What's Next?

January - Direct engagement with community (infomation)
- Residents receive consent form in mail
- Residents receive reminder postcard and invitation to open house in February

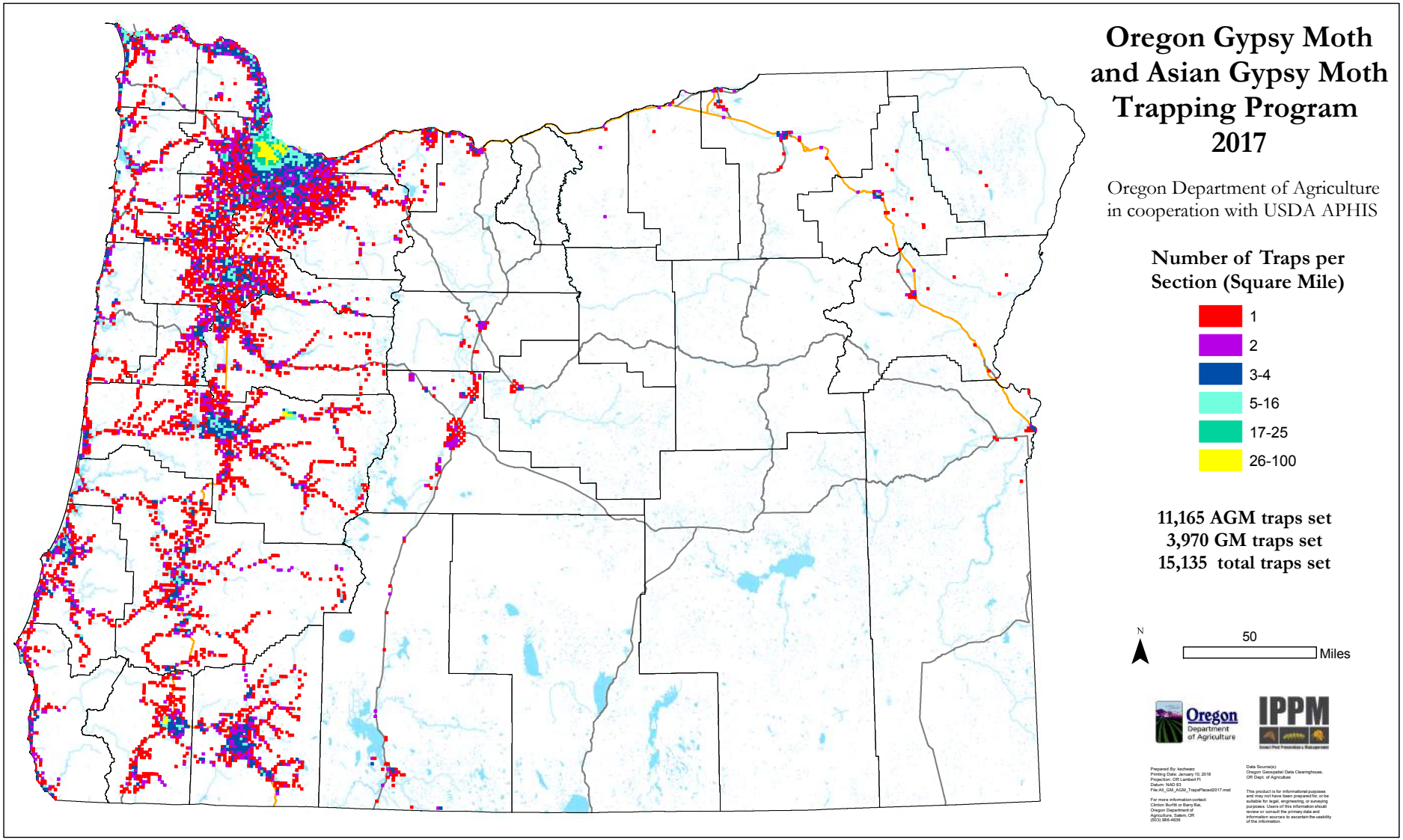
February
- Open house informational meetings
- Direct engagement with community (consent)

March
- Direct outreach to non-response residents
- Begin Containment 2018 communication

April
- Treatment communications begin
- Treatment Begins

May
- Containment communications continue

Detection


Oregon Gypsy Moth and Asian Gypsy Moth Trapping Program 2017
Oregon Department of Agriculture in cooperation with USDA APHIS
Number of Traps per Section (Square Mile)
1
2
3-4
5-16
17-25
26-100
11,165 AGM traps set
3,970 GM traps set
15,135 total traps set
N
50
Miles
Oregon Department of Agriculture
IPPM
Prepared By: kschwarz
Printing Date: January 10, 2018
Projection: OR Lambert Ft
Datum: NAD 83
File:All_GM_AGM_TrapsPlaced2017.mxd
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Detection

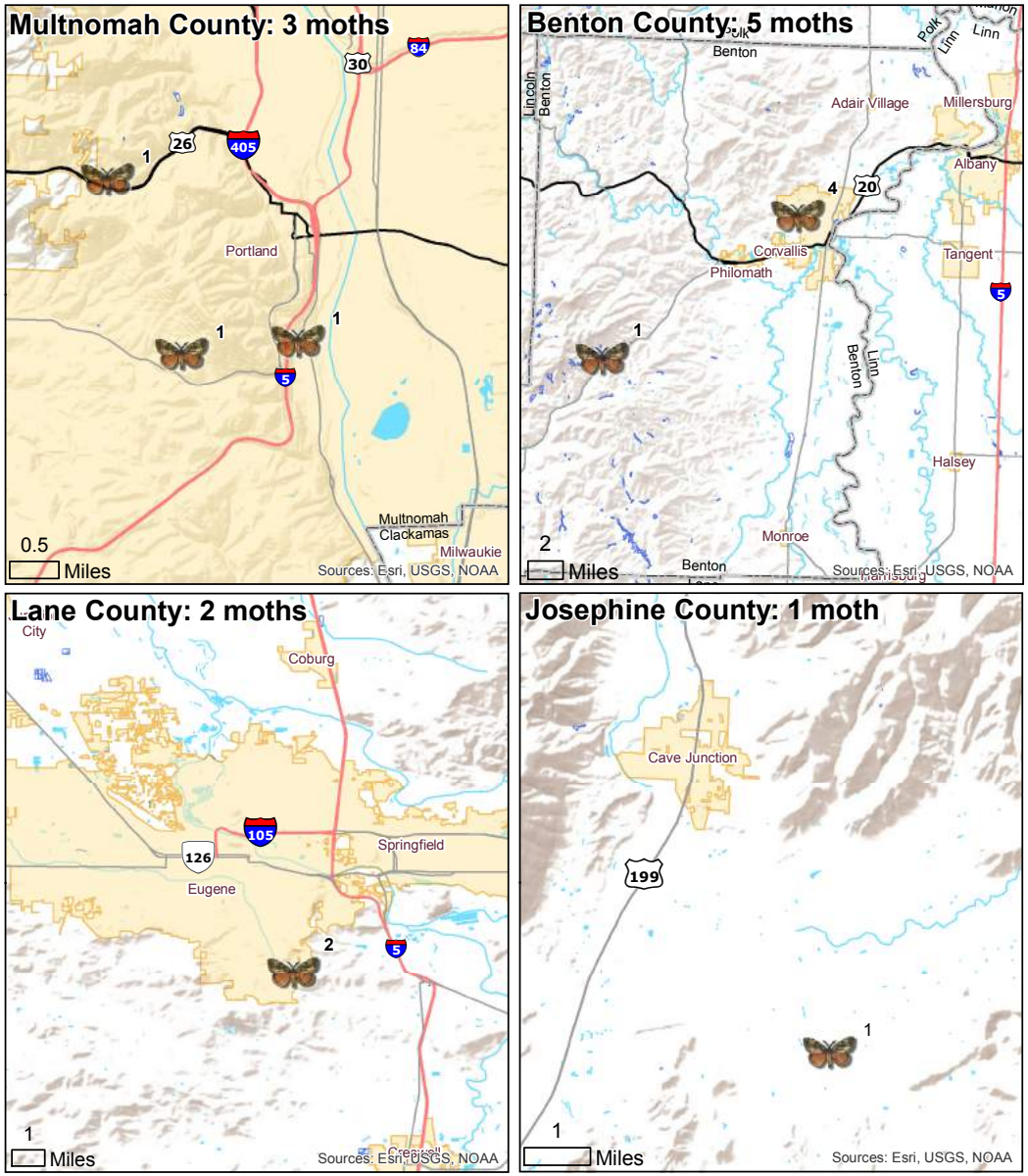
All 11 moths trapped in new sites

No moths trapped In 2016 AGM eradication treatment area in Portland

No eradication treatment planned for 2018

2017 Oregon Gypsy Moth Detections

Total Gypsy Moths Caught: 11



Positive GM trap

GMStatusQuadMap_8x11_2017.mxd
Prepared by: KAS
Oregon Lambert Projection NAD 83
Data Source: Esri, Oregon Geospatial Data Clearinghouse, ODA, ODOT, USGS, DEQ
November 7, 2017

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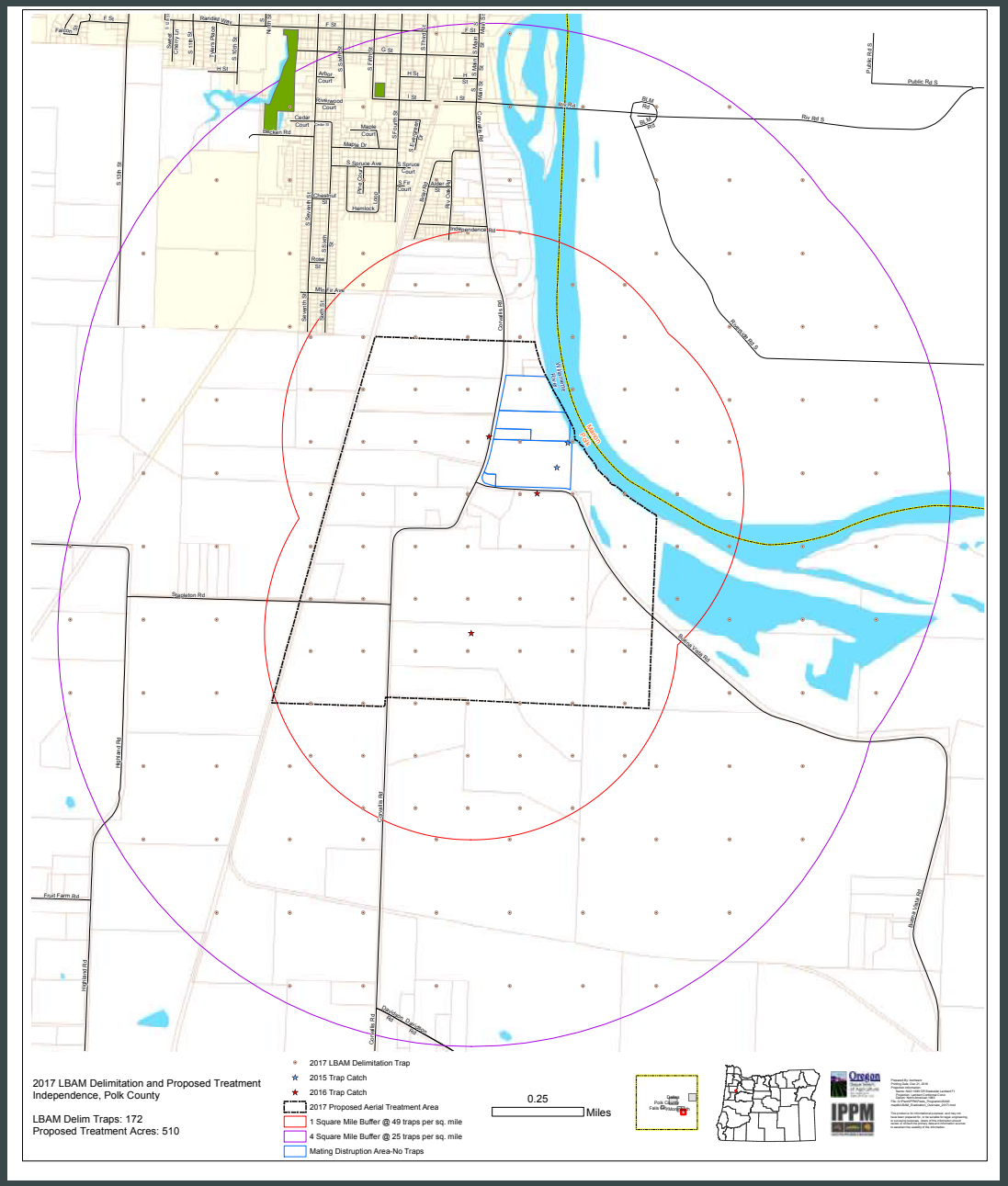
2017 LBAM treatment area, Independence, Polk Co

About 510 acres treated by air:
1) three applications of Btk targeting larvae
2) two applications of Splat pheromone to disrupt mating
3) about 180 traps deployed



Conclusion

- JB – Continue eradication treatment
- GM/AGM – Trapping but no treatment
- LBAM - Trapping but no treatment
- Grasshopper/Mormon cricket - ?