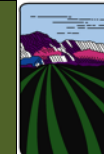




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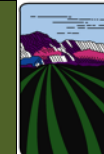
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# Plant Protection and Conservation Programs





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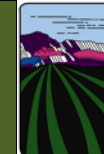
# Prevention

## Early Detection and Rapid Response

- Prevent Introduction of Invasive Pests
- Prevent Establishment
- Reduce Adverse Impact
- Reduce Unnecessary Pesticide Applications
- No Quarantine Restrictions
- More Economic



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# Largest Japanese Beetle Infestation

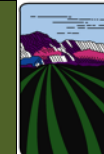








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# Why do we care?

It likes to eat what we eat.

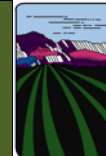


# 300+ species





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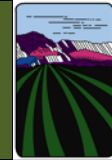
# Oregon's Nursery Industry is worth \$900M







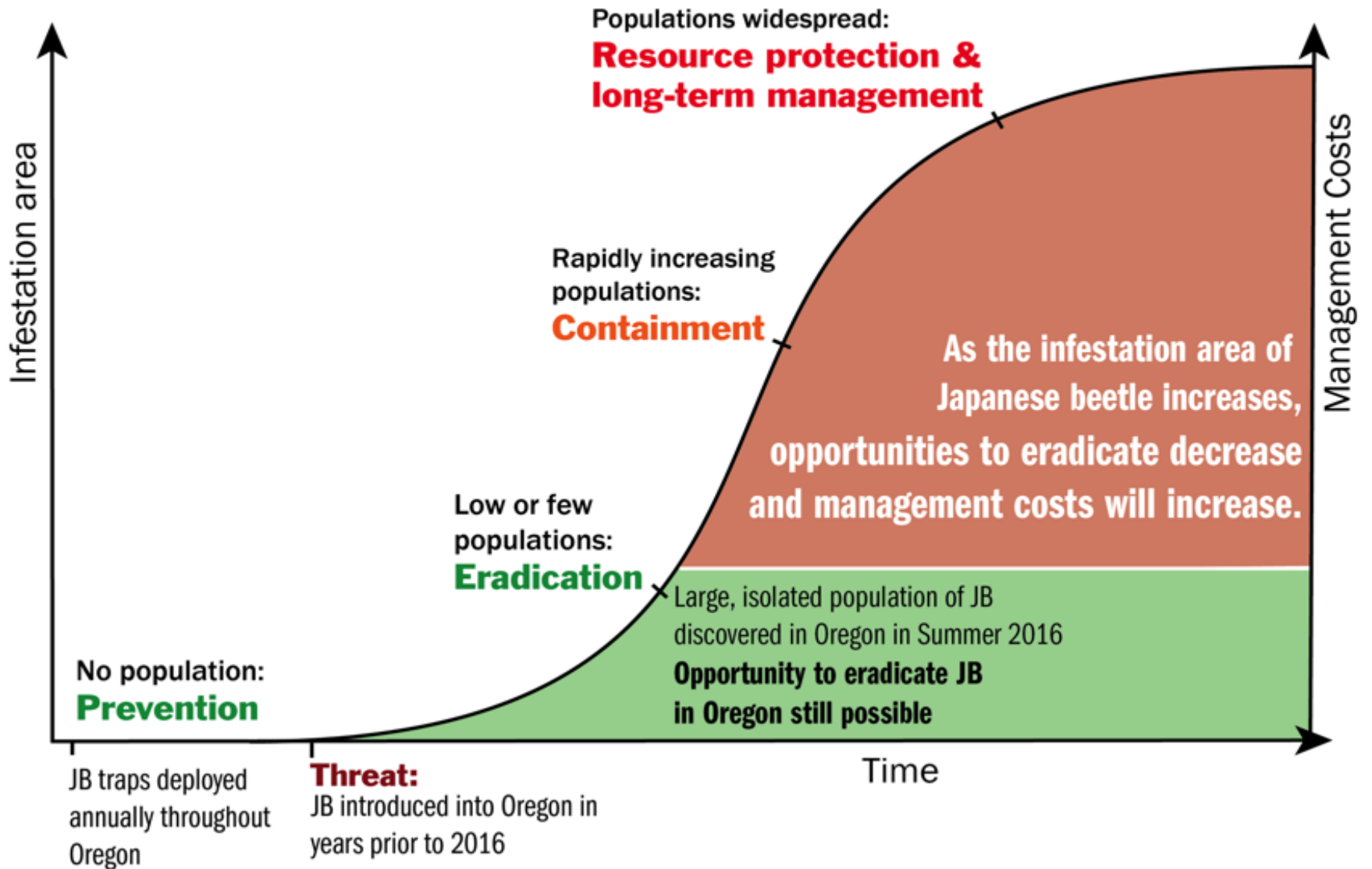
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# Oregon's Wine Industry is worth \$120M

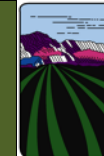






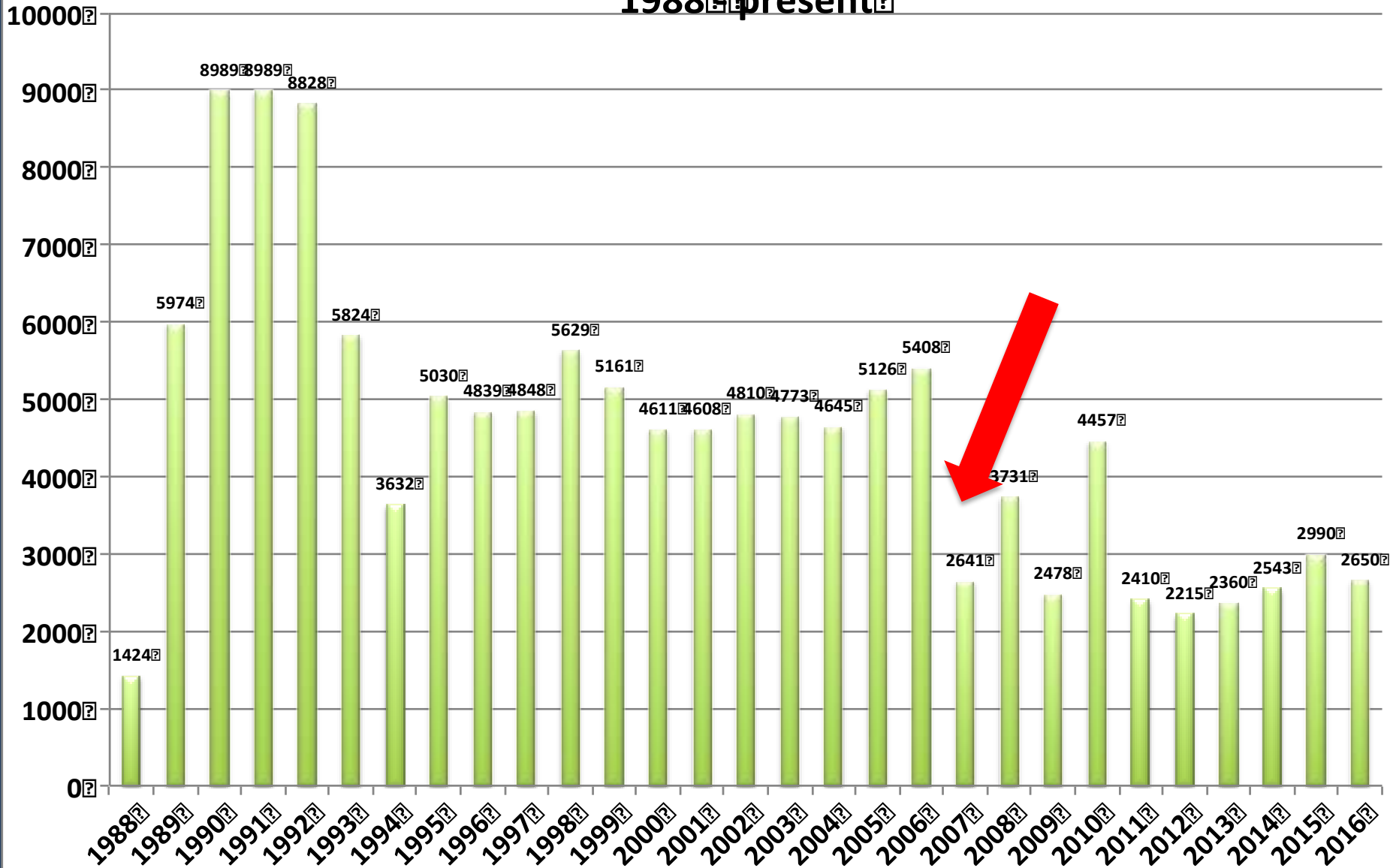


Protecting Oregon's Natural Resources and Agricultural Economy



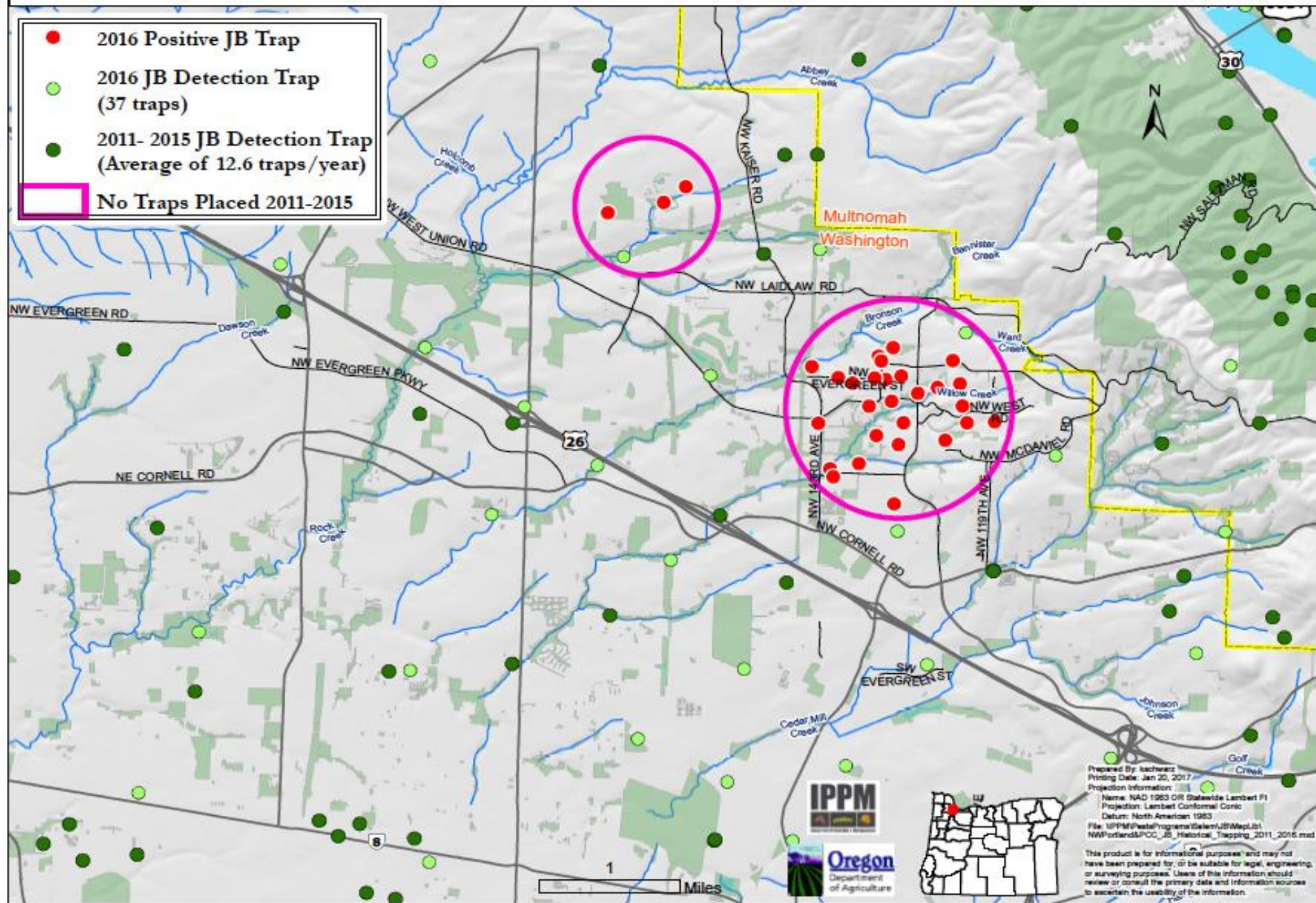
Oregon Department of Agriculture

# Number of Japanese beetle traps placed in Oregon 1988-present



# Japanese Beetle Traps Placed 2011-2016 NW Portland, Oregon

- 2016 Positive JB Trap
- 2016 JB Detection Trap (37 traps)
- 2011- 2015 JB Detection Trap (Average of 12.6 traps/year)
- No Traps Placed 2011-2015



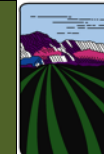
Prepared By: kachewitz  
 Printing Date: Jan 20, 2017  
 Projection Information:  
 Name: NAD 1983 OR Statewide Lambert F1  
 Projection: Lambert Conformal Conic  
 Datum: North American 1983  
 File: IPPM\pest\programs\data\Map\I5\NWPortland&POC\_JB\_Historical\_Trapping\_2011\_2016.mxd

This product is for informational purposes and may not have been prepared for, or be suitable for, legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.



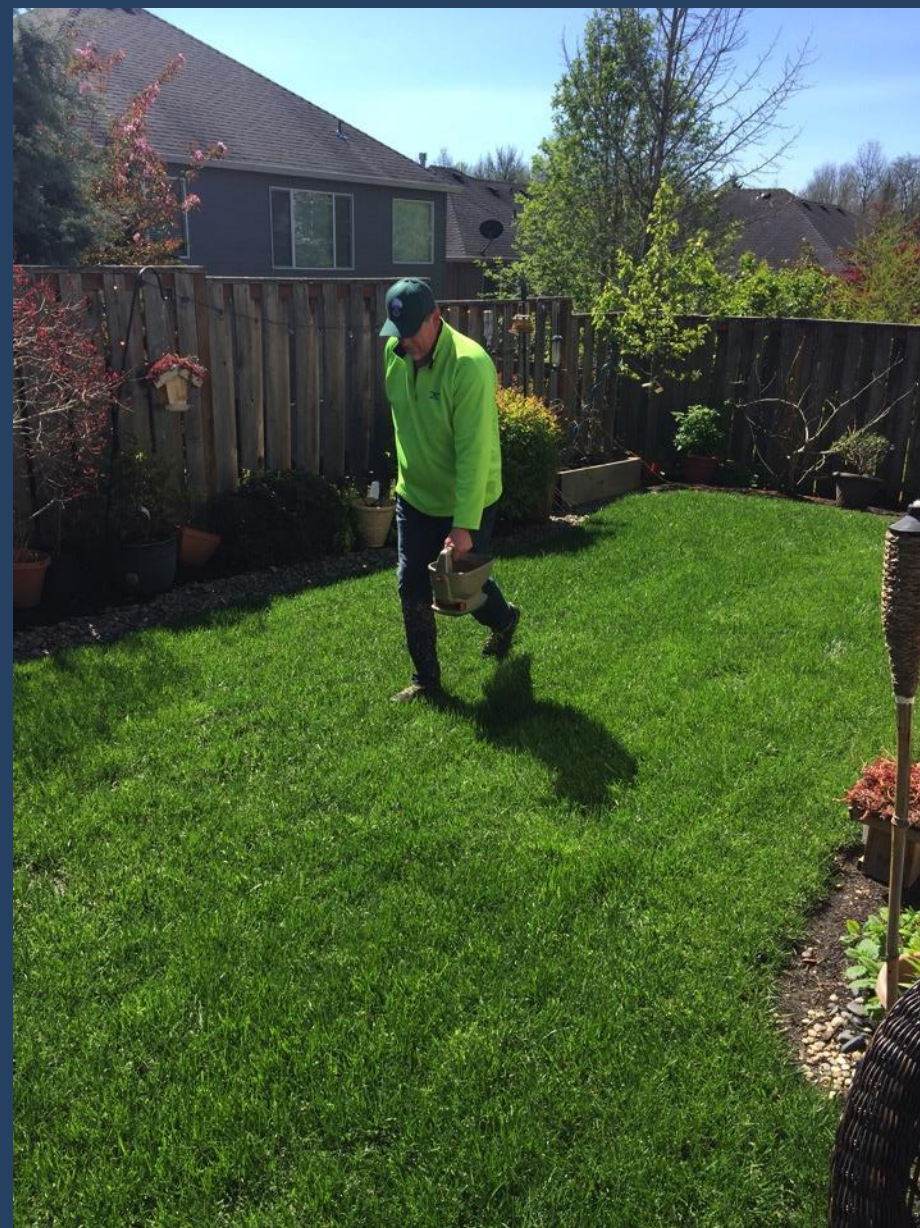


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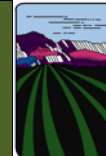
# Eradication Efforts Underway







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# Flowering Rush Invading Columbia River

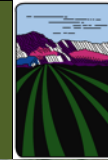


**East Bay Flathead Lake, MT**





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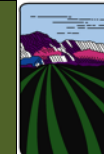


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## Flathead Valley Pablo Reservoir Irrigation Canal, ID

**6.7 Million Acres Irrigated by  
Withdrawals From  
Columbia River System**





# Prevention

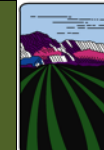
## Early Detection and Rapid Response

- **25 Noxious Weeds causing \$83 Million in Economic Damage to Oregon Lands Annually.**
- **If unchecked, Damage up to \$1.8 Billion.**





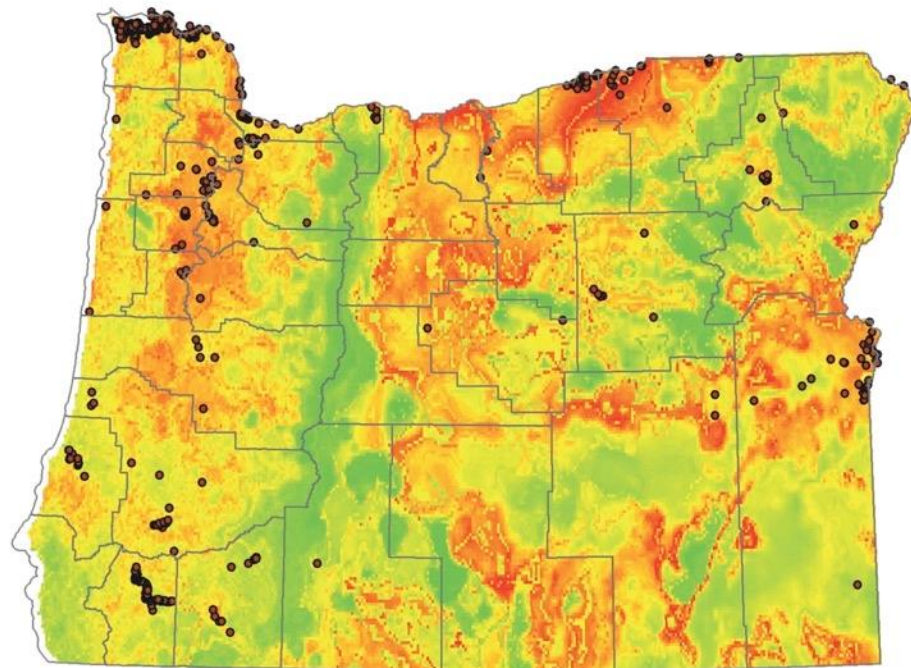
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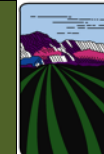
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**Scotch Broom and  
Blackberry causing  
\$80 Million/year**

## **Economic Analysis of Select Noxious Weeds in Oregon**



Oregon Department of Agriculture Plant Program Area  
Noxious Weed Control Program



# Biological Control of Weeds

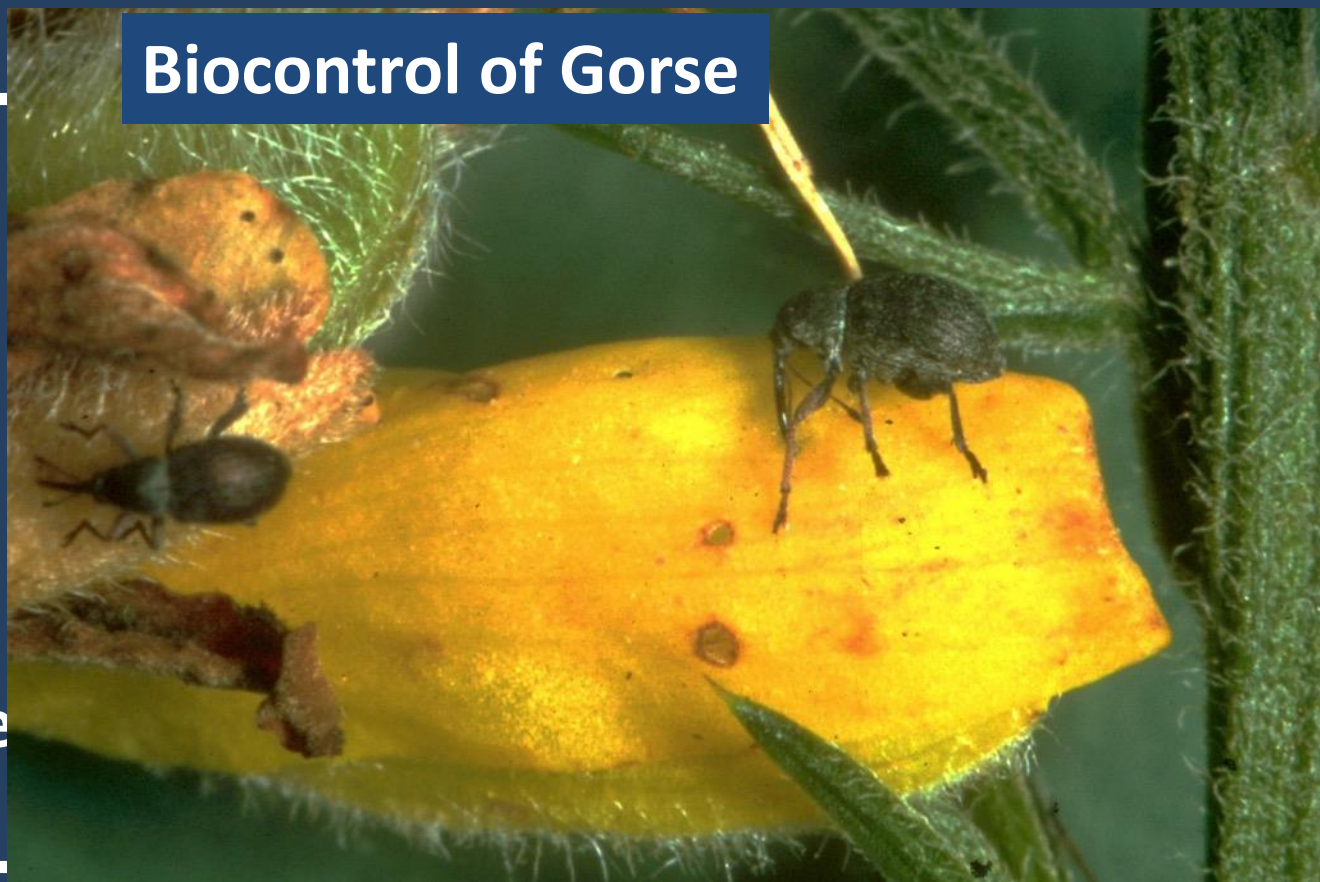
1:34 (cost/benefit)

## Biocontrol of Gorse

- **77 Agents**

- beetles
- flies
- moths
- mites
- nematodes
- Pathogens

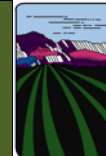
- **31 Noxious Weeds**







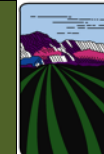
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# *Ludwigia* Aerial Survey Willamette River





# Plant Health

## Plant Pathogens

- *Phytophthora ramorum*
- *Xylella fastidiosa*

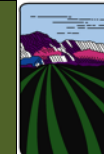
## Disease

- Sudden Oak Death
- Pierce's disease, leaf scorch





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# Benefit

**Protecting Oregon's Natural and Agricultural Resources**

- **Protecting Oregon's Biodiversity**
- **Protecting Oregon's Watersheds and Water Quality**
- **Reducing Pesticide Applications**
- **Protecting Oregon's Economy**