

OREGON WINE



SYMPOSIUM

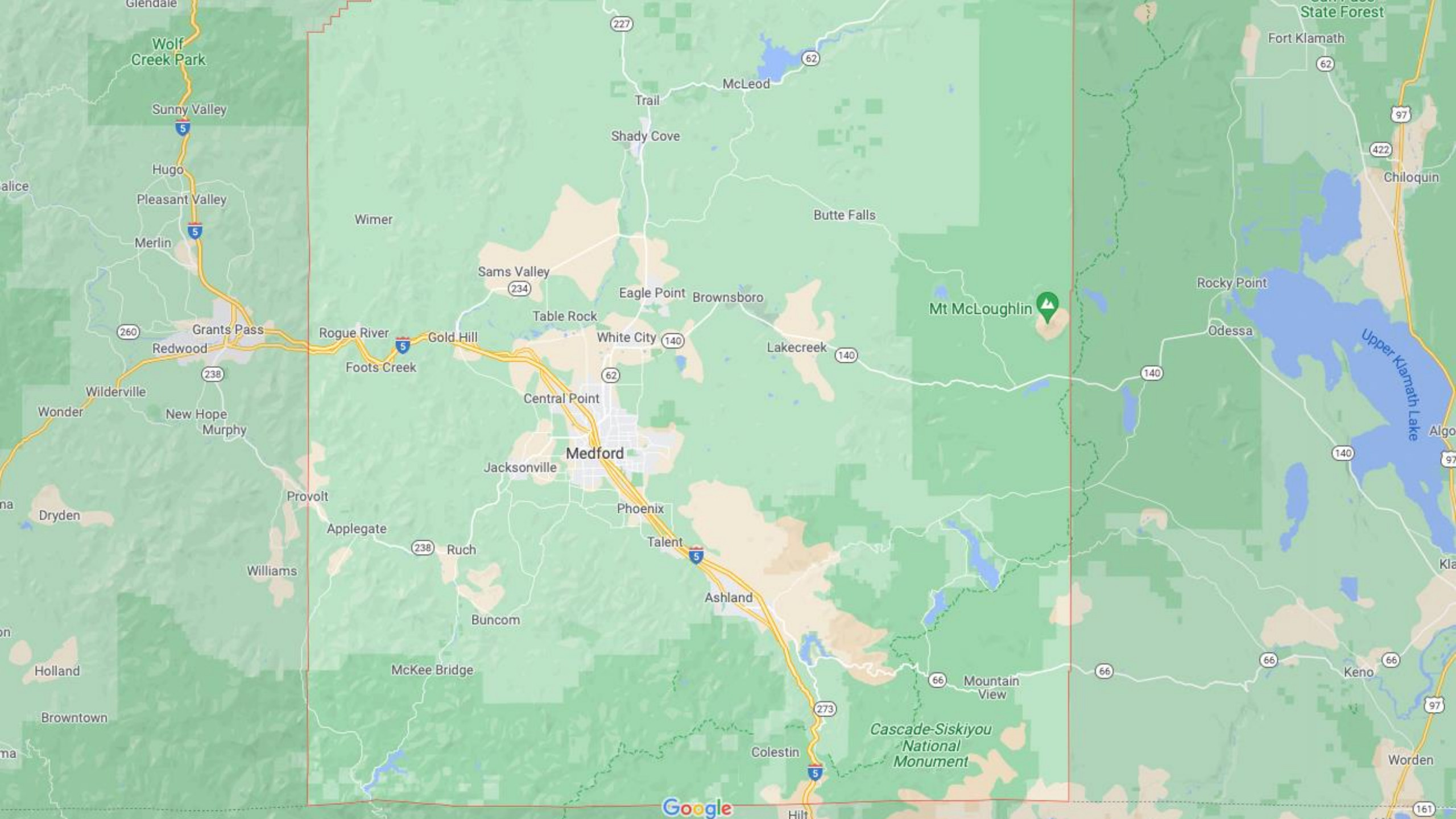
Pest Alert: Vine mealybug in Oregon

Josh Vlach, Entomologist



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Impacts

- Export of vines, no impact
- Export of grapes, possible impact
 - pomace
- Increase in transmission of leaf curl viruses
- Increase in need for pesticide applications



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FEBRUARY 15-17, 2022

Quarantine

- **ORS 603-052-0051: Grapevine Quarantine**
- Destruction
- Automatically in effect
- Property becomes **regulated when detected**
 - Range of intensities of measures for spread prevention
 - Minimal mitigation
 - Short term = lower impact on property owner
 - Long term = more rapid spread of VMB
 - More intense mitigation
 - Short term = higher impact on property owner
 - Long term = slower spread of VMB
 - Typically allow property owner propose mitigation
 - We (ODA) determine if it is adequate
- **What is an appropriate minimal mitigation?**



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Quarantine Requirements

- **Do not move potentially infested material off site.** Leaves, stems and other plant parts should be buried or burned. Another option may be covering with black plastic for 4 weeks.
- **Clean tools and equipment.** Equipment used in the field should be pressure washed before moving to the next vineyard. Examples include:
 - Vehicles
 - Harvesters
 - Trailers
 - Tractors
 - Sprayers
 - Hand tools including clippers and hedgers
- **Ensure workers are sanitized:**
 - Use disposable protective clothing in the field. Dispose before moving to next vineyard.
 - If disposable outerwear cannot be used. At the least, outer clothing layers should be changed and placed in plastic bags after working in vineyards.
 - Shoes and gloves should be cleaned, ideally before and after entering a vineyard.
 - Hands should be washed with soap and water, ideally before and after entering a vineyard.
- **Avoid moving bins between vineyards.** Wash with soap and water if movement between vineyards is necessary.
- **Notify facilities accepting grapes.** Grapes from infested sites should be moved in enclosed or covered trucks and the facility receiving the grapes should be notified so that the grapes will be processed rapidly and the pomace treated.
- **Treat unfermented pomace.** Pomace from grapes harvested at infested sites should be covered with black plastic for at least 4 weeks. Composting is not adequate to ensure that all life stages are killed.

Quarantine

- If the industry is serious about slowing the spread of this pest in the long term, a **statewide trapping program is necessary**

- **We'd like to know what level of quarantine the industry is willing to support.**

Eradication

- Due to the significance of this pest and the relatively small area, Eradication should be considered
 - Hasn't been done before = True = **NO Promises**
 - We have advantages over previous VMB invasions
 - Infested sites **already under quarantine**
 - As of 2020 we have a **revised quarantine** for grape material brought into Oregon
 - **Years of survey statewide** = not a widespread infestation (see Rick Hilton's presentation)
 - ODA has **experience eradicating** pests and with novel eradications
 - gypsy moth, European and Asian (80+ years, largest eradication in western US)
 - Japanese beetle (80+ years)
 - Light brown apple moth (1st ever, also used aerial pheromone application)
 - Granulate ambrosia beetle (1st ambrosia beetle eradication in the world)

Eradication

- Components
 - Delimitation
 - Need to determine trapping density and inter-trap distance
 - Treatments
 - Of vines (Movento or similar?)
 - Surrounding area
 - Mating disruption: Vaughn Walton, Splat
 - Would be conducted in combination with quarantine
- Guess-timate a cost of \$150,000 to \$300,000 per year for 3 to 5 years
 - What are the expected costs of VMB once established statewide?



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Does the industry want to explore the possibility of eradication?

- ODA can't manage or fund an eradication alone
 - There are funds that may be available, although we wouldn't want to jeopardize the Japanese beetle eradication funding
 - If the industry wants to pursue eradication, they **must act quickly**. You only get one chance at eradication.
- **If the Industry doesn't reach out to ODA to indicate their interest, there will be no exploration of nor attempt to eradicate this pest. In that case, it will eventually spread throughout the state.**



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Contact us

- **Josh Vlach**
- **Entomologist**

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- Thanks for listening!

Please watch until the end!

There is important information about the regulatory and quarantine impacts of this new pest!

There are decisions that still need to be made!

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