



## ***Vine to Wine Update*** ***Oregon Wine Research Institute*** ***March 2016***

Welcome to the *Vine to Wine Update*. This monthly e-newsletter is designed to inform you of news, information and events from the **Oregon Wine Research Institute**, highlighting our research programs and providing relevant information about the OWRI and our researchers. We continue to provide research-based viticulture and enology information for the Oregon wine industry. As always, we welcome industry input, so please ask **OWRI team members** questions from the vineyard or the cellar.



### **March Communications and Outreach Update**

*Danielle Gabriel, Communications and Outreach Manager*

The March OWRI seminar presented by Dr. Moyer on powdery mildew is available on our website and can be viewed anytime. To watch this or any other OWRI seminar, visit our website [here](#).

Our spring seminar series will take place in April and May. Topics will address comprehensive disease modeling and learning more about the fungus that causes powdery mildew.

Grape Day 2016 was on Tuesday, March 29. This long-standing event allows researchers and industry members to attend research presentations and discuss current topics of interest in the vineyard and winery during the breaks and poster sessions. Topics presented by researchers this year included chardonnay composition, an introduction to the sensory characteristics of wine, grape-berry water composition, and an update on vineyard nutrient management. We thank all of our presenters and every one who attended on a very sunny day. Next year, Grape Day will be held on Thursday, April 6, 2017.

Don't forget, our first annual Sparkling Wine Symposium will be held on April 14, at Ponzi Vineyards and today is the last day to register. Lastly, we will be hosting our annual Vineyard Scouting Workshop in Milton-Freewater on May 4. See below for more information.

### **Herbicide Drift Reminder**

*Danielle Gabriel, Communications and Outreach Manager*

Non-target drift of herbicides is an ongoing concern to winegrape growers as the use of certain herbicides can pose a significant threat to the growth of grapevines. The source of herbicide exposure can come from a variety of sources, including applications in nearby

crops, road and utility maintenance, forestry, residential and winery landscape maintenance, and self-inflicted damage by misuse of herbicides in the vineyard. As growers, it is important for you to be aware of the impacts that herbicide drift can have on vines when using herbicides in your own vineyards and be sure to communicate this with other vineyard staff and neighboring farmers.

Many of the potentially damaging herbicides are readily available to most farmers, landscapers, and homeowners without special licensure through the Oregon Department of Agriculture. These products can be found at your local garden store and home improvement centers. It is important to know which products to avoid by looking for active ingredients such as 2,4-dichlorophenoxy-acetic acid (2,4-D), triclopyr, 2-methyl-4-chlorophenoxyacetic acid, or dicamba. A more complete list of potentially damaging herbicide active ingredients can be found [here](#). Keep in mind that the product names are different from the active ingredient name, and you must check the product label to determine if it contains a potentially damaging active ingredient. Some commonly used products that contain such active ingredients include Crossbow, Banvel, Weed-B-Gone, and certain "weed and feed" products.

Although grapevines are susceptible to herbicide exposure and damage for the entire growing season, they are most vulnerable early in the growing season during bud-break, bloom and fruit set. Damage occurs when the aforementioned pesticides drift onto vines by spray droplets or vapor as a result of volatilization. In warmer weather, volatile compounds can travel several miles by wind, sometimes damaging vines several days after the initial application.

Below are several documents prepared by the Extension Service, information from the Oregon Department of Agriculture, and other resources are below to assist you in communicating with your neighbors about the impacts of non-target drift on grapevines.

### **Information for the Wine Industry**

[PNW Weed Management Handbook](#)

(Oregon State University, Washington State University, University of Idaho), vineyard weed control section.

[Oregon Department of Agriculture chemical drift regulations](#)

[ODA Spray Drift Brochure](#)

[Herbicide Drift Resource Center-Oregon Winegrowers Association](#)

### **Information for Herbicide Applicators (commercial and consumers)**

[Are Your Weed-control Products Damaging Nearby Vineyards?](#) (Oregon State University Extension bulletin EM 9132). A brief guide for anyone living near a vineyard to understand the damaging effects that common herbicides can have on grapevines. Herbicides used in home gardens and residential and urban landscapes can cause serious damage to local vineyards.

[Please Use Caution When Applying Herbicides near Wine Grapes](#) . Oregon Winegrowers Association fact sheet that includes basic information about spray drift and alternative chemicals that farmers can use that are less prone to drift.

[Preventing Herbicide Drift and Injury to Grapes](#) (Oregon State University Extension bulletin EM 8860). A comprehensive fact sheet about herbicide drift and methods

of prevention.

[Managing Pesticide Drift](#) (University of Florida Extension): This drift management document focuses on the broader aspects of drift, non-herbicide applications and offers principles of drift and factors that influence it.

Questions: Contact the OWA at 503-228-8336 or [info@oregonwine.org](mailto:info@oregonwine.org).

## 2016 Spring Technical Newsletter

The Spring 2016 Technical Newsletter is now available. Dr. Jay Pscheidt, Professor and Extension Plant Pathologist, OSU, opens the newsletter with an article about the potential effects of climate change on powdery mildew; a timely topic for the 2016 growing season. Dr. Bob Martin, USDA-ARS provides a research update on grapevine red blotch disease that provides growers with tools on how to identify and test for the disease. Dr. James Osborne, Enology Extension Specialist, OSU, discusses the importance and concentration of nitrogen on wine aroma. Lastly, please read our guest piece from Marie Vicksta, Yamhill Soil and Water Conservation District, for an update on the recycling tunnel sprayer program. You can access a copy of it [here](#).

## 2016 Sparking Wine Symposium & Tutored Tasting

This all day symposium, led by experts from Oregon, California and Champagne, France, is designed for wine industry members who want to explore sparkling wine in-depth. This workshop will cover the theories and economics behind sparkling wine production as well as guide participants through a tasting of wines. By working through several sparkling examples, participants will review the climate, soils, sub-regions and winemaking process of sparkling wine in an interactive format. Come prepared to sip, savor and discuss the factors that make sparkling wine unique and distinctive.

### **Date, Time & Location**

Thursday, April 14, 2016

8:30 AM - 5:30 PM

Ponzi Vineyards

More information [here](#).

## 2016 Vineyard Scouting Workshop

Join us for a full-day, hands-on workshop focused on various components of disease, insects, pests, and sprayer calibration. Four modules are designed to give you practical information to help hone your vineyard scouting skills and increase your knowledge of plant health and protection from economically important and emerging pests. The modules will include new and regionally important information based on findings from WSU, USDA-ARS, and OWRI researchers.

A boxed lunch, handouts, printed publications, and scouting tools (magnifying loupe and mini-microscope) will be provided.

Pre-registration is required. No late or on-site registration will be allowed!

## **Date, Time & Location**

Wednesday, May 4, 2016

8:30 AM - 2:30 PM

Location: Seven Hills Vineyard, Milton-Freewater, 83501 Lower Dry Creek Road

For more information, visit this [site](#).

## **Spring 2016 OWRI Seminar Series**

Both Seminars will be in Kidder 202. For directions, click [here](#).

Thursday, April 21, 3:30 PM

### **Development of a Mechanistic Vineyard Simulation Tool to Support Improved Management Decisions**

Brian Bailey, USDA-ARS, Horticultural Crops Research Unit

Brian Bailey will discuss his research aimed at developing a vineyard simulation tool to overcome management limitations by combining sophisticated engineering models for radiation transfer, convection, turbulent dispersion, etc. with the efficiency afforded by graphics processing unit (GPU) technology. The resulting modeling tool is unprecedented in terms of its physical realism and computational efficiency, and has the potential to change the way that management decisions are made in the industry.

Monday, May 9, 3:30 PM

### **The wait for a host: Understanding Erysiphe necator overwintering and early season inoculum release**

Lindsey Thiessen, Ph.D student, Mahaffee Lab

Grape powdery mildew, caused by *Erysiphe necator*, is a polycyclic disease that causes economic losses related to the costs of management and damage to grapes. The epidemic begins with release of ascospores from the overwintering cleistothecia. Understanding the conditions for cleistothecia development, maturation, and ascospore release is important to optimize initiation of fungicide applications prior to disease development, as well as maintaining ecologically conscious management practices. Graduate student Lindsey Thiessen will discuss her field experiments assessing the effect of environmental conditions and plant growth regulating hormones on cleistothecia development, and the model developed to predict ascospore release based on environmental conditions.

To view live online, visit: <http://live.oregonstate.edu/>. This seminar will be recorded and archived for later viewing.

Live chat will NOT be available, however, online live participants can submit questions during the seminar to [danielle.gabriel@oregonstate.edu](mailto:danielle.gabriel@oregonstate.edu), and they will be answered at the end.

Have a particular topic or question you would like to see addressed in the Vine to Wine? Let us know.

Danielle Gabriel  
Communication and Outreach Manager  
541-737-3620  
[Danielle.Gabriel@oregonstate.edu](mailto:Danielle.Gabriel@oregonstate.edu)



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