#### HAPPY 65<sup>th</sup> ANNUAL GRAPE DAY

# LODI WINEGRAPE COMMISSION: Research & Education

#### **Stephanie Bolton**

PhD, Plant Pathology - Grapes and Wine

Grower Communications & Sustainable Winegrowing Director

(aka the new Matt Hoffman)

stephanie@lodiwine.com

### Hello, I'm your Grower Liaison for the Lodi Winegrape Commission



- I will help connect you to the resources you need to farm to your full potential.
  - Research programs
  - Educational programs
  - Networking with universities, companies, and industry leaders across the globe
  - With expert guidance from the one and only Stuart Spencer



# **Lodi Winegrape** Commission Since 1991



2545 W. Turner Rd. (209)367.4727

### Research, Education, & Communications Committee

#### Chair: Charlie Starr

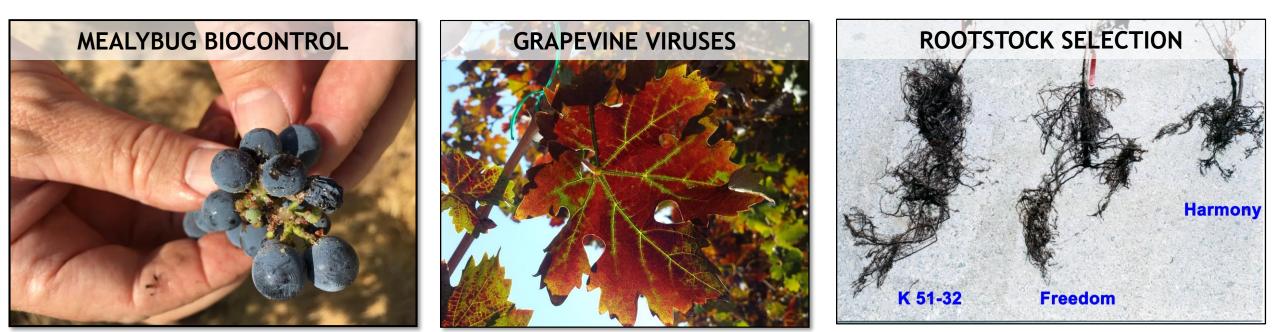
Amy Blagg Pieter den Hartog **Brad Goehring** Stan Grant Michael Klouda Galen Schmiedt Chris Storm **Keith Striegler** Joe Valente Paul Verdegaal Larry Whitted



#### **RESEARCH** that...

- is locally applicable and USEFUL
- is timely and efficient
- involves grower participation
- creates results growers can implement in the short- and long-term

### - RESEARCH FOCUS GROUPS -



### **RESEARCH FOCUS GROUP #1: MEALYBUG BIOCONTROL**

- Stephanie Bolton, Lodi Winegrape Commission
- Mark Shimozaki, Pest Control Advisor
- Larry Whitted, Pest Control Advisor
- Mike Klouda, Viticultural Manager, Michael David Winery
- Chris Storm, Viticultural Manager, Vino Farms
- Tom Hoffman, Crush District 11 Grower, Heritage Oak Winery
- Jay Leone, Crush District 11 Grower, Leone Vineyards, USDA NOP-certified
- Jeff Perlegos, Crush District 11 Grower
- Clint Nelson, Grower Outreach, E&J Gallo
- Paul Verdegaal, UCCE Farm Advisor, San Joaquin County



# How many mealybugs does it take to transfer a virus to a grapevine?



MEALYBUG BIOCONTROL

# Can mealybugs transfer viruses from remnants of old vines underground onto newly planted vines?



MEALYBUG BIOCONTROL



# Which mealybug biocontrol agents are most effective in our region?

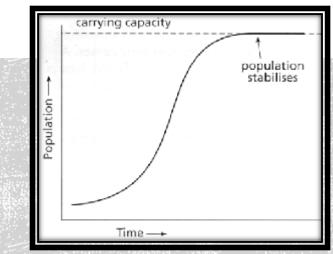






# What's the most costeffective way to increase the population of mealybug biocontrol agents over time?

MEALYBUG BIOCONTROL



### **RESEARCH FOCUS GROUP #2: GRAPEVINE VIRUSES**

- Charlie Starr, Pest Control Advisor & Lodi Winegrape Commission's REC Chair
- Keith Striegler, Grower Outreach, E&J Gallo
- Paul Verdegaal, UCCE Farm Advisor, San Joaquin County
- Kyle Brown, LangeTwins
- Matt Frank, Treasury
- You?



# How long does it take before symptoms appear in a virusinfected grapevine?





# When should we start rogueing, and do we need to also rogue the adjacent grapevines?





# What's a cost-effective grapevine virus sampling strategy?

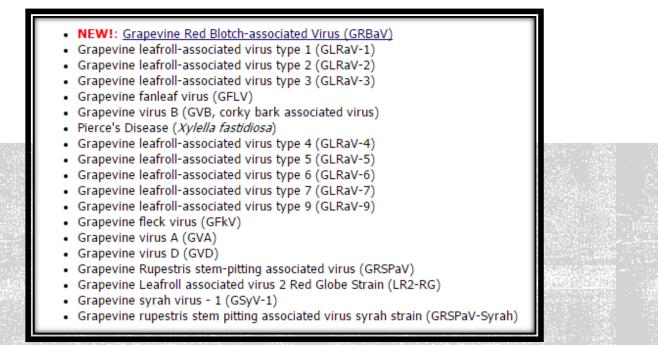




# If we remove an infected vineyard, how do we best prepare the land before planting new ground?



# Do virus management practices change if the vines are infected with a complex of viruses?



### **RESEARCH FOCUS GROUP #3: ROOTSTOCK SELECTION**



- Stephanie Bolton, Lodi Winegrape Commission
- Keith Striegler, Grower Outreach, E&J Gallo
- Paul Verdegaal, UCCE Farm Advisor, San Joaquin County
- Chris Storm, Vino Farms
- John Duarte, Duarte Nursery
- Stan Grant, Progressive Viticulture
- You?

# Create a rootstock survey to best guide Odecision making.



#### **ROOTSTOCK SELECTION**





# Gather data from growers on rootstock variability in terms of nutrient uptake, drought tolerance, etc.

**ROOTSTOCK SELECTION** 

# Plan trials with new rootstocks.



#### ROOTSTOCK SELECTION



Kawakami, left, Lynn Mills, center, and Markus Keller work in WSU's grape rootstock trial.

(Courtesy Washington State University)

# Create a master rootstock selection flow chart to guide new plantings.

#### **ROOTSTOCK SELECTION**





### EDUCATIONAL SERIES

- Relevant
- Specific to Crush District 11
- Connect growers to experts and industry leaders
- Timely
- Building upon previous knowledge
- Advertised through website, email, and mailings









YOU SHOULD ALWAYS BE LEARNING. IF YOU'RE THE SMARTEST PERSON IN THE ROOM, YOU'RE IN THE WRONG PLACE. – Erica Bearman







### - EDUCATIONAL SERIES -



### EDUCATIONAL SERIES #1: MECHANIZATION

**Mechanization** (meck ah nye zay shun) *noun* the process of changing from working largely or exclusively by hand to doing that work with machinery.

#### The time has come for more mechanization in winegrapes



#### Farmworker decline, higher wages trigger specialty crop mechanization

The decline in the number of Mexican workers working in U.S. agriculture is largely due to Mexico's improved economy, plus Mexicans staying home due to the financial fallout from the U.S.'s Great Recession, says USDA-Economic Research Service economist Tom Hertz. March State

More mechanized machinery is expected in the specialty crop industry, even in areas where mechanization was once thought impossible to achieve.

### EDUCATIONAL SERIES #1: MECHANIZATION



This trunk scrubber of the vMech system is used by Ste. Michelle Wine Estates to contr The device looks similar to a weed whacker with multiple strings.

PHOTOS COURTSY OF STE. MICHEL



Vineyard mechanization, which was spurred initially to cut the costs of production and labor needs, particularly in the San Joaquin Valley (SJV), can also be a factor in improved quality, says Jim Kennedy, chairman of Fresno

Hansen: Vineyard mechanization – Is grape quality impacted? Good Fruit Grower - Dec 14, 2016 Vineyard managers are looking to reduce hand labor and increase mechanization in their fields. Some very specific tasks, like how Ignacio ...

Rain forces North Coast **vineyard** workers to hustle on pruning duties Santa Rosa Press Democrat - Jan 19, 2017 Rain forces North Coast **vineyard** workers to hustle on pruning duties. The drive

Rain forces North Coast **vineyard** workers to hustle on pruning duties ... The drive toward **mechanization** is expected to increase in the North ...

# Date TBD but soon! Mechanization series: Pruning Paul Verdegaal & Kaan Kurtural **Gallo Vineyard**

#### EDUCATIONAL SERIES #2: DISEASE MANAGEMENT

#### **DISEASE** (diss eeze) noun

a disorder of structure or function in a plant, especially one that produces specific signs or symptoms or that affects a specific location and is not simply a direct result of physical injury.



NEWS / FEATURES



A leaf from a Merlot grapevine shows red veins and red blotches on margins and interveinal regions, typical symptoms of red blotch disease. Photo courses of Washington State University.

March 1, 2016

#### **Beating Red Blotch**

Grapevine virus an emerging, concerning menace





### Thursday, February 28<sup>th</sup> UC Davis On the Road: Viruses 8:30am – lunchtime **Constellation Barrel Room**

Details on lodigrowers.com

### EDUCATIONAL SERIES #3: VINEYARD BRANDING

**BRANDING** (bran deeng) verb

the **marketing** practice of creating a name, symbol or design that identifies and differentiates your vineyard from other vineyards. An effective **brand** strategy gives you a major edge in an increasingly competitive market.

#### LEX VINI

#### Branding Strategies in Agricultural Commodities: Vineyard & Block Designates

03/17/14

By Katja Loeffelholz, Dickenson, Peatman & Fogarty

The prominence of vineyard-designated wines is another lesson in value-added agricultural branding which presents both the winery and the vineyard owner or lessee with a number of marketing and legal issues. Recognizing the value of vineyard designated names, vineyards have long been designating blocks within their vineyards with proprietary names.

In this way, even though multiple wineries are purchasing grapes from the same vineyard property, each winery can have a distinct name to refer to the vineyard block where the grapes were grown, also known as the "block designate." If a vineyard owner sells wine grapes to a winery under a vineyard designate or block designate, the winery may use that vineyard or block name on wine produced from those grapes to designate origin so long as such use complies with the vineyard designation labeling requirements of the Alcohol and Tobacco Tax and Trade Bureau (TTB). Accordingly, the vineyard owner — not the winery – theoretically owns rights in the name.



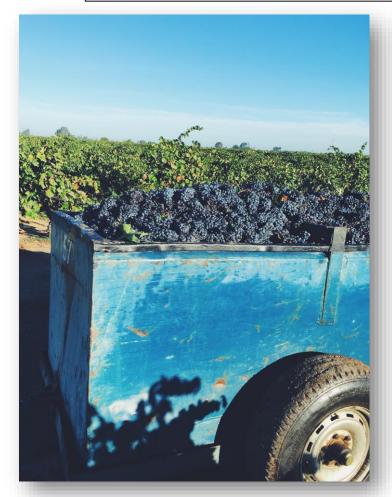






### EDUCATIONAL SERIES #4: PREMIUMIZATION

**PREMIUMIZATION** (pree ·me ·uhm ·eye ·zhay ·shun) *noun* the move towards more expensive, higher quality grapes.



# U.S. wine tops \$10-a-bottle average for first time, expert says



### Date TBD in March Premiumization series: \$400/ton vs. \$1500/ton Grower & Winemaker Panel

### EDUCATIONAL SERIES #5: TECHNOLOGY

**TECHNOLOGY** (teck nah low gee) *noun* science or knowledge put into practical use to solve problems or invent useful tools.



The **technology** bringing ever finer wines to our table TNT Magazine - Feb 3, 2017 It's called Precision **Viticulture** (the science, production and growing of thanks to advances in aerial imaging **technology**, is saving ...



#### Spore samplers give farmers an early warning system aga Capital Press - Feb 2, 2017 "The time is right to use this **technology**," Woodhall said. ... Mahaffee s





#### Berry Size: A Machine Vision Perspective

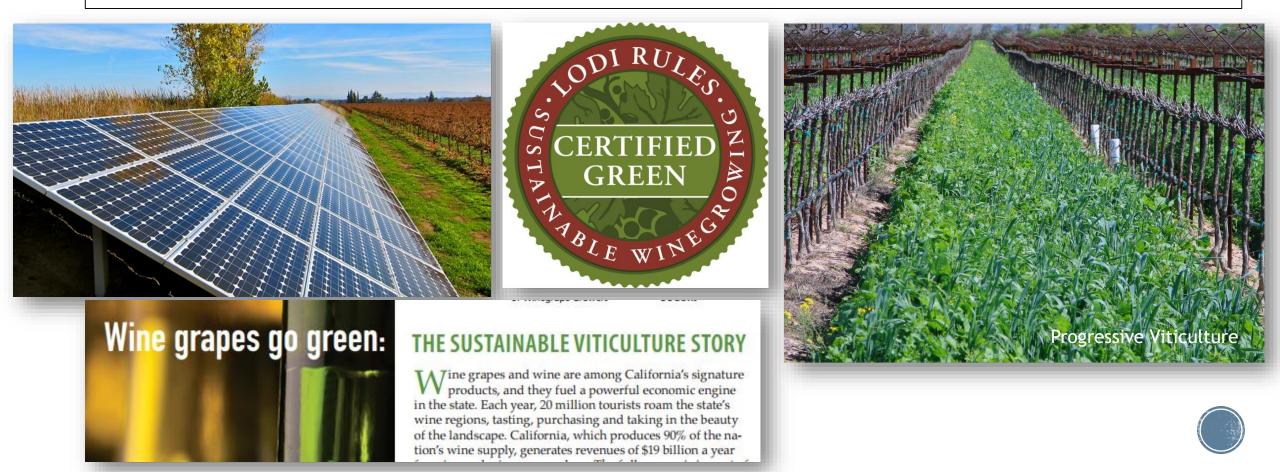
By Omeed Mirbod and Stephen Nuske, Ph.D. Up until now growers in the viticulture industry...





### EDUCATIONAL SERIES #6: CONSERVATION

**CONSERVATION** (kaan ·sir ·vay ·shun) *noun* preservation, protection, or restoration of the natural environment, natural ecosystems, vegetation, wildlife, and other resources.



It's not what you take when you leave this world behind you. It's what you leave behind you when you go. - Randy Travis, Three Wooden Crosses

www.proag.com

### Thursday, February 9<sup>th</sup> Lodi Rules for Sustainable Winegrowing 10:30am – lunchtime Burgundy Hall, Grape Festival

RSVP to stephanie@lodiwine.com



### RESOURCES

- www.lodigrowers.com
- email list-serve
- mailing list
- weather service
- Vineyard Supplier Directory \*new edition coming\*

#### Local Opportunities

Check this page for local educational opportunities hosted by the Lodi Winegrape Commission, universities, ag associations, and more. \*ALWAYS\* confirm event details with bosts.

To get your event posted, email the details in the format below to Dr. Stephanie Bolton, <u>stephanie@lodiwine.com</u>, with the subject line 'new lodigrowers.com event." Join the email list using the link to the right to stay informed!

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#### Upcoming Educational Opportunities:

65th Annual Lodi Grape Day (UC-ANR/UCCE and Lodi Chamber of Commerce)

Date: Tuesday, February 7th, 2017

Time: 7:30am - 1:30pm

Cost: FREE (\$35 for lunch tickets)

Venue: Hutchins Street Square – Kirst and Crete Halls, 125 South Hutchins St, Lodi

Description: Various speakers presenting information on High Cordon Machine Prumed Trellis Trials (Paul Vardegaa); the Lod Winegrape Commission's Research and Education Programs (Dr. Stephanie Bolton), Trellis System Evaluation for Mechanization (Dr. Kaan Kurtural), Vine Mealybug Control Update (Dr. Kent Daare), Management of Grapevine Trunk Diseases (Dr. Doug Gubler). The Luncheon Speaker is Dale Stratton with Constellation Brands.

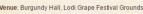
For more information: call 209.367.7840 ext. 105 (Karen Cannon, Lodi Chamber of Commerce)

Lodi Rules 2016 Recap Event & Sustainable Vision Workshop

Date: Thursday, February 9th, 2017

Time: 10:30am – 1:30pm Main Event, lunch provided / 1:30 – 4:30pm Sustainability Vision Workshop for NEW growers

Cost: FREE for Lodi Rules participants, new growers, grape buyers, and program wineries





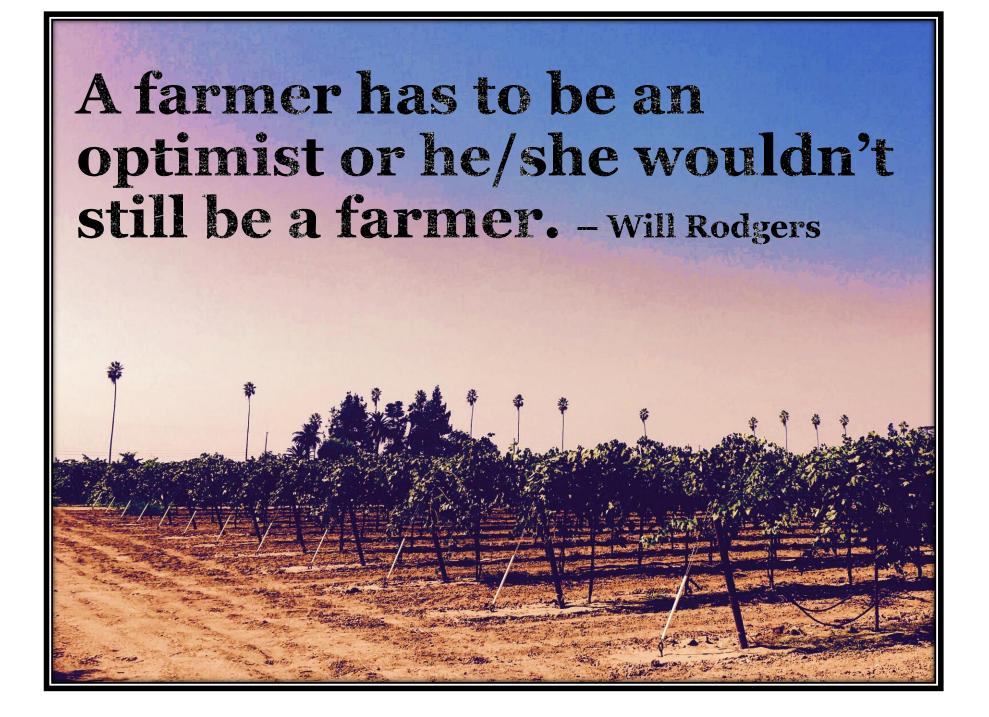
### How can we continue to grow not only grapes, but our local industry?

- Stay informed
- Good communication
- Prepare for future changes
- Use and protect our resources
- Vineyard branding
- Support each other & our workforce



- Be open to finding creative solutions to challenges
- Remember: If we made it through Prohibition, we can make it through anything!





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#### Thank you for your attention!

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