

# Sutter/Yuba/Colusa Walnut Day

Wednesday, Feb 27 2008, 1:00 – 4:00 p.m.  
Veterans Memorial Hall, 1425 Circle Dr., Yuba City

12:30 pm Registration

## Program



1:00 pm Welcome and Moderator , *Janine Hasey, UC Farm Advisor*

New Walnut Rootstocks  
*Gale McGranahan, Pomologist, UC Davis*

Walnut Rootstock Susceptibility to Crown Gall and More  
*Janine Hasey, UC Farm Advisor, Sutter and Yuba Counties*

Prevention of Crown Gall Disease  
*Dan Kluepfel, Plant Pathologist, USDA-ARS, UC Davis*

**BREAK:** Refreshments Courtesy of Growers Ag Service and Bear River Supply

Moderator – John Edstrom, UC Farm Advisor, Colusa County

Updates of Laws and Regulations  
*Jan Kendel, Sutter County Ag Department*

Influences of Tree Canopy Environment on Walnut Production and Quality  
*Bruce Lampinen, Pomology Specialist, UC Davis*

The Walnut Industry in China - Current, Potential, and Trends in Chinese Consumption and Marketing

*Peter Jelavich, Sutter County Grower*  
*Michelle McNeil, Marketing Director, California Walnut Commission*

4:00 pm Adjourn

*Sponsored by*  
*University of California Cooperative Extension in Sutter, Yuba, and Colusa Counties and*  
*Sutter County Agricultural Department.*

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**We appreciate Growers Ag Service and Bear River Supply for meeting refreshments and room cleaning costs.**

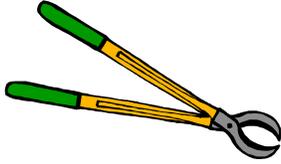
PCA and Private Applicator CE hours pending 1.5 hours  
CCA hours pending – 2.5 hours

# WALNUT TRAINING/PRUNING WORKSHOPS

## Hedgerow and Conventional Plantings

Thursday February 28, 2008

(In case of rain call the office 822-7515; backup date March 3<sup>rd</sup>.)



### HEDGEROW TRAINING SYSTEM

9:00 A.M. – NOON MERIDIAN AND LIVE OAK AREA

### CONVENTIONAL TRAINING SYSTEM

2:00 P.M. – 4:00 P.M. RIO OSO

UC Farm Advisors Janine Hasey, Sutter and Yuba Counties, and John Edstrom, Colusa County, and UC Walnut Specialist Bruce Lampinen, will be demonstrating training and discussing hedgerow pruning systems.

### HEDGEROW TRAINING

The workshop will start in a one year old Howard hedgerow (12'x 24') at 9:00 a.m. to discuss and demonstrate the initial dormant training. At approximately 10:00 a.m., we will arrive on Nuestro Road near Broadway, at a 12'x 24' Howard hedgerow planted in 2004 to discuss dormant training and pruning in year 2, 3, and 4. Approximately 11:30 a.m., we'll arrive at a 2006 Howard hedgerow (16'x 24') at the corner of Larkin and Gomez to demonstrate permanent scaffold branch selection during the second dormant season.

#### STOP 1

ENTERPRISE FARMS, AARON ANDERSON  
12473 HIGHWAY 20, 9:00 A.M.

Turn north (right) at the first house when going west on Hwy 20 just past the Sutter Bypass. Turn in, go past the house, and park along driveway to shop area.

#### STOP 2

BUTTE BASIN MANAGEMENT COMPANY  
DOMINIC AND SAM NEVIS  
NUESTRO ROAD, ~1/2 MILE WEST OF BROADWAY AND NUESTRO SCHOOL, 10:00 A.M.

Look for sign. Take gravel road to shop and park behind it. From here, we will caravan to final stop at Larkin Road and Gomez.

### CONVENTIONAL TRAINING SYSTEM

Janine Hasey and Bruce Lampinen will demonstrate training 1 and 2 year old Chandlers in a replant situation and discuss branch selection on 3 year and older trees at the site. Depending on weather preceding the workshop, we will travel to another nearby site to prune 2 year old trees in a new orchard.

TARESH FARMS  
RIO OSO, AT RIO OSO ROAD AND PACIFIC, 2:00 P.M.

At Rio Oso Road and Pacific, turn north onto a private asphalt road. Orchard is at north end. Park along the road without blocking the driveway to house.



University of California ≈ Cooperative Extension  
Sutter/Yuba Counties, 142A Garden Highway, Yuba City CA 95991  
Tel: (530) 822-7515 ≈ Fax: (530) 673-5368

<http://cesutter.ucdavis.edu>



# Orchard Notes

FEBRUARY 2008

## This Issue Contains

- |   |                                      |
|---|--------------------------------------|
| 1 -Fungicide Resistance Management Strategies                 | 5 - Individual Tree Loss Calculator  |
| 2 -Fungicide Efficacy and Treatment Timing Tables for Peaches | 6 -Chilling Hours Update             |
| 3 -Updated Pest Management Guidelines                         | 7 -Sutter/Yuba/Colusa Walnut Day     |
| 4 -Kiwifruit Scale Control                                    | 8 -Walnut training/pruning workshops |

## FUNGICIDE RESISTANCE MANAGEMENT STRATEGIES

*The following is a summary of the presentation Dr. Jim Adaskaveg, Plant Pathologist from UC Riverside, gave on preventing fungicide resistance at my January cling peach annual meeting. Resistance has developed against several fungicide classes (Groups 1, 7, 9, 11) in California in a number of pathogens causing tree fruit diseases (Alternaria, brown rot, scab, powdery mildew). Except for the benzimidazoles, to date resistance is not widespread in pathogens of peach in California. It is extremely important to **follow these guidelines to avoid losing the effectiveness of our fungicides.***

- The most effective way to combat fungicide resistance is to mix or alternate fungicides with different modes of action (classes of fungicides) and, if possible, at least one rotational mix partner should be a multi-site material.
- Because several highly effective classes of fungicides are available for peach, limit each class to 1 (or 2 in rotation) applications/season.
- Although the use of fungicide pre-mixtures can be a step in the right direction, unless both mixture components have activity against a particular pathogen, they will act like single-fungicides in the selection process.
- Do not use alternate-row applications after early bloom stage.
- Do not use air application at full canopy.
- Apply single-site mode of action fungicides (e.g., strobilurins, benzimidazoles) only in combination with multi-site fungicides *when disease incidence is high.*
- Start management programs with multi-site fungicides.

ANTI-RESISTANCE STRATEGIES FOR FUNGICIDE USE  
*Application of "Following the Rules" in Fungicide Stewardship*

- Rotate or mix fungicides of different mode of actions
- Use labeled rates – For strobilurins, use upper label rates.
- Limit total number of applications – limit any single-site mode of action fungicide class to 1 or 2 per orchard per season (strobilurins perhaps to 1/season for scab).
- Educate yourself about fungicide activity, mode of action, and class – as well as resistance management practices.
- Start a fungicide program with multi-site mode of action materials (e.g., Captan, Bravo/Echo, Ziram, Rovral, Sulfur)
  - Reduce pathogen population size that is exposed to subsequent treatments. Probability of selecting for resistance is reduced.

ADDITIONAL ANTI-RESISTANCE STRATEGIES

- "Minimize pathogen survivors" – Do not compromise control by minimizing rates or coverage
- Resistance management is a game of numbers
- Enough different classes of materials are registered to limit each mode of action to one per season

FUNGICIDE EFFICACY AND TREATMENT TIMING TABLES FOR PEACHES

The 2008 updated Fungicide Efficacy and Treatment Timing Tables for Peach and other tree crops should be available the second week of February. They will help answer your questions as to how effective a particular fungicide is for a disease and when to apply it. There is also a table on fungicide properties showing which fungicides are multi-site or single-site to help you plan your fungicide program to manage resistance. They are available from the following websites: UCIPM: <http://www.ipm.ucdavis.edu/PMG/r602902111.html>; UC Keaney Agricultural Center: <http://www.uckac.edu/plantpath> or UC Davis Department of Plant Pathology: <http://www.plpnem.ucdavis.edu/PLP/Index.htm>. The report is produced by UC Plant Pathologists. The Peach information only will be posted in the Peach Information section on our Sutter/Yuba website: <http://cesutter.ucdavis.edu>.

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UPDATED PEST MANAGEMENT GUIDELINES

The Walnut Pest Management guidelines have been updated and are available online or from our office. The online version is at <http://www.ipm.ucdavis.edu/PMG/crops-agriculture.html>

KIWIFRUIT SCALE CONTROL UPDATE

The following is the latest material update on using oils for scale control:

- Omni Supreme Spray oil has just received a Section 3 registration in California. It is now available for use by all kiwifruit growers, both organic and conventional.

- It recently came to my attention that there are additional insecticide oils registered for use on kiwifruit. IAP 440 spray oil, IAP 470 Dormant Spray Oil, and IAP Hi Supreme Spray Oil are all registered for kiwifruit in California. The IAP Hi Supreme Spray Oil is organic and listed on the Washington State Organic Materials List. I am not aware of local efficacy tests on these materials. Growers are always advised to double check the label for the very latest registration status of any product before use, and organic growers should check with their certifier for the most current list of acceptable products.
- The scale spray should be applied before budbreak.

### INDIVIDUAL TREE LOSS CALCULATOR

If you lost trees in your orchard during the January 4, 2008 storm, the individual tree loss calculator will be very helpful in determining the value of your losses. These spreadsheets calculate the value of a single tree or vine lost to any cause. They can be accessed at <http://coststudies.ucdavis.edu> or by hard copy in our office.

### CHILLING HOURS UPDATE

Feb 4, 2008	<b>940</b>	2007-08	?
Feb 3, 2006	564	2005-06	780
Feb 1, 2005	910	2004-05	994
Feb 2, 2004	713	2003-04	886
Jan 31, 2003	569	2002-03	779

*Chilling hours recorded for hours below 45° F model at our office in Yuba City on Garden Highway starting November 1. The chilling units for the same model on 2/3/08 at the Nicolaus Cimis station where it is consistently cooler were 968.*

### ORIENTAL FRUIT MOTH TIME

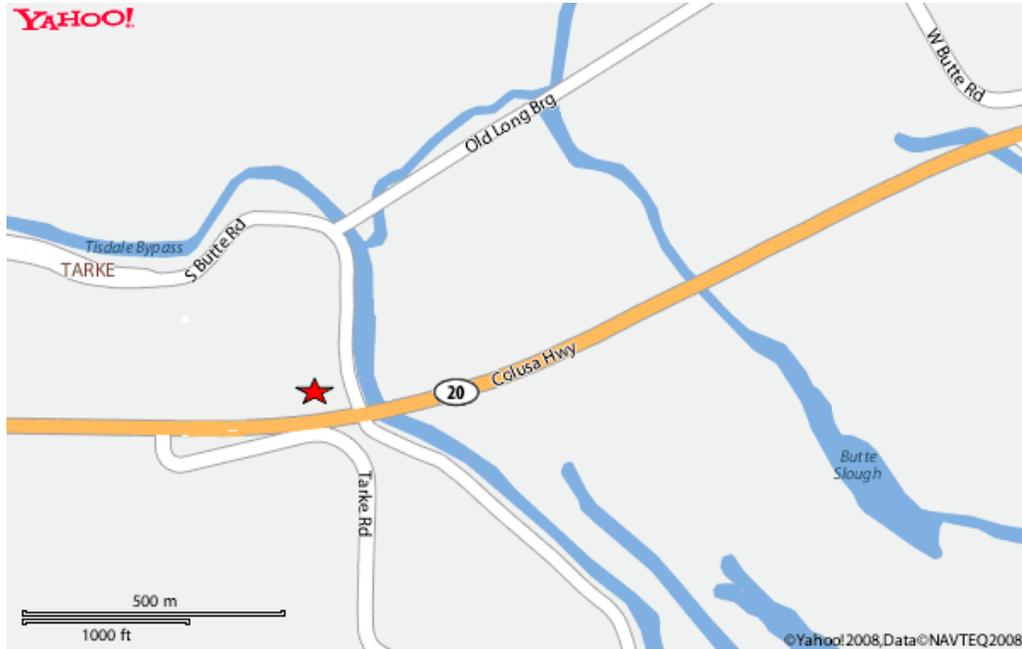
Oriental Fruit Moth traps should be hung by the third week of February to detect the first moth and begin accumulating degree days. Consider using pheromone mating disruption this season to manage insecticide resistance, reduce insecticide sprays and encourage long-term population reduction. There are also several new reduced hazard insecticides that are or will be registered by spring/early summer 2008 that have activity against oriental fruit moth. Most of these materials have different modes of action and will fit well into a resistance management program.

JANINE HASEY

U.C. FARM ADVISOR

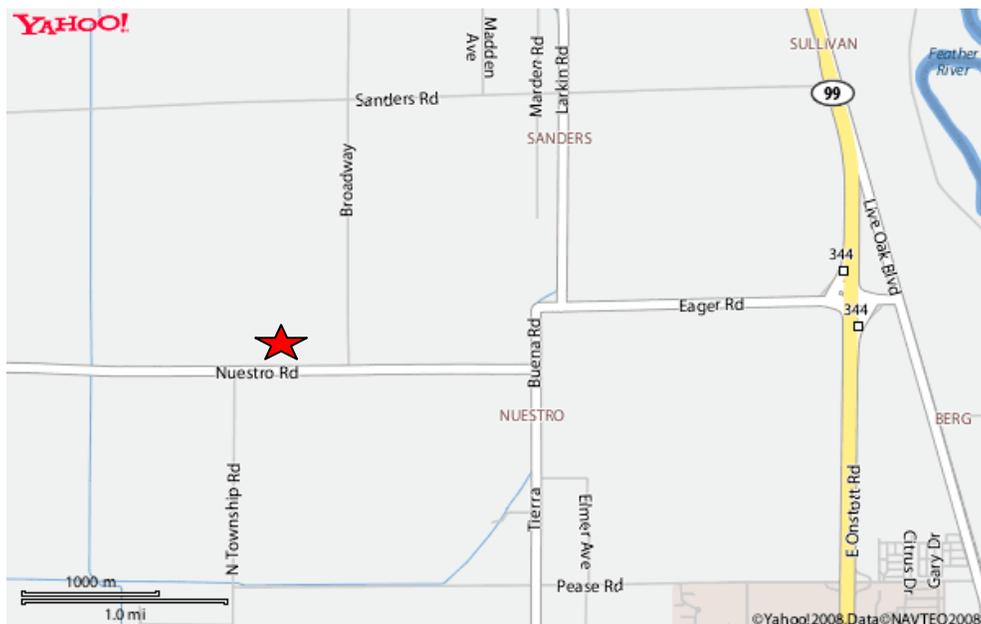
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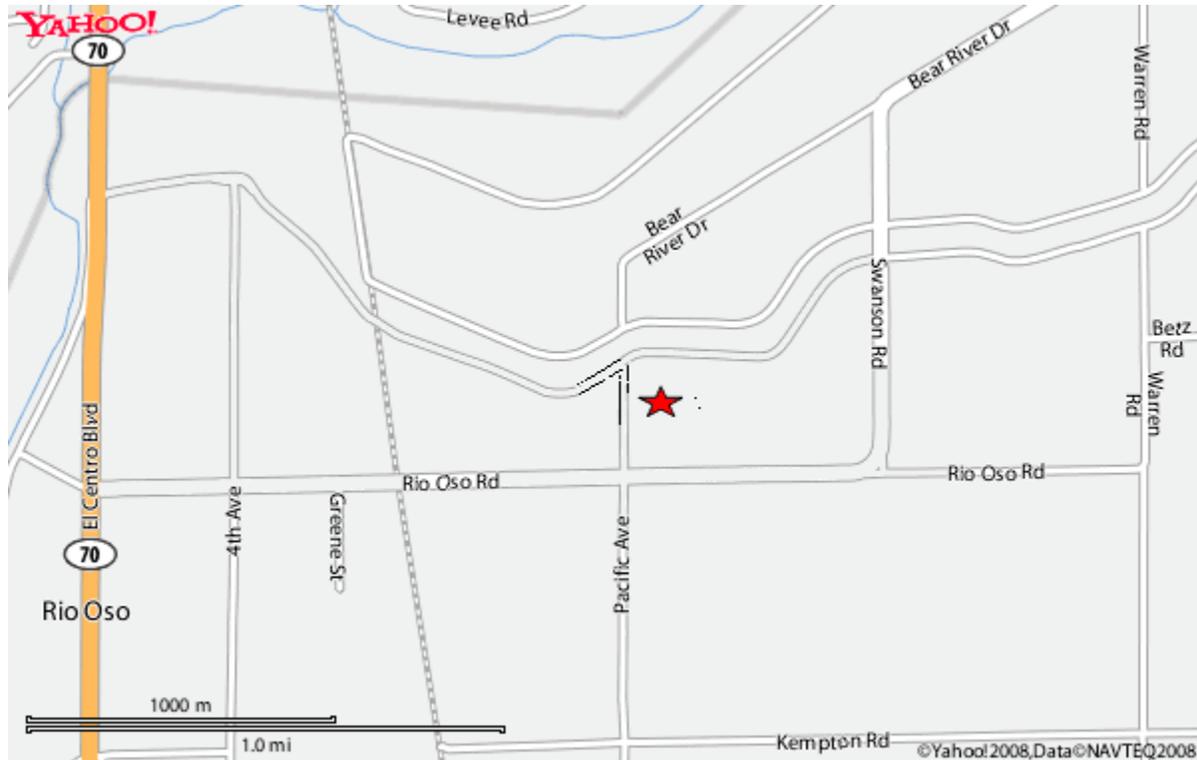
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# TARESH FARMS, RIO OSO ROAD AND PACIFIC AVENUE - CONVENTIONAL TRAINING SYSTEM

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# **MARK YOUR CALENDAR**

## **Sutter/Yuba/Colusa Walnut Day**

**February 27, 2008 1:00 – 4:00 PM**

## **Walnut Training/Pruning Workshops**

**February 28, 2008 9:00 AM – Enterprise Farms**

**10:00 AM – Butte Basin Management Co.**

**2:00 PM – Taresh Farms**