

SucraShield Grape Miticide Study

WECO-CPR Twin Cities

Natural Forces

CPR08024

Prepared by



Crop Production Research

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November 5, 2008

PROJECT SUMMARY
Wilbur Ellis - California Business Unit
Crop Production Research
Jim Cook, Vicki Rose
November 5, 2008

TITLE: NATURAL FORCES - Grape Miticide Studies - Galt CA

NUMBER OF TESTS, OBJECTIVES:

A. Test No. CPR08024

Location: Boskisch Vineyards, Galt, CA

Cooperator: Steve Quashnick, PCA

B. Objectives, Methods, Strategies:

1. The objective of this study is to evaluate the performance of several products for the control of Pacific Mite in Zinfandel grapes
2. Products were applied at recommended rates to grapes in the veraison stage.
3. Applications were made via back pack airblast sprayer at 100 GPA.
4. Treated were pre-sampled for mites and sampled weekly (20 leaves / sample).
5. Evaluations were made at 4, 11, 18, 25, 32, 39, and 46 days after treatment (DAT).
6. Counts originally evaluated "Adults", "Nymphs", and "Eggs" up to 18 days after treatment.
7. Subsequent evaluations recorded only "Adults" for graphing purposes.
8. Mite populations began to naturally decline in all treatment after 39 DAT.

CONCLUSIONS: "Under the conditions of this study..."

A. Crop Response:

1. There were no adverse effects observed in any treatment at any evaluation interval.

B. Efficacy - Final Evaluation :

1. Please review the graph "GRAPH ALL ADULTS FINAL COUNT"

*****End Summary Report CPR08024 Grape Miticide NATURAL FORCES - Galt, CA*****

Wilbur Ellis - California Business Unit
Crop Production Research - J. Cook, V. Rose

Company: Wilbur-Ellis
 Co. Project #: Natural Forces
 Crop: Grapes
 Objective: Efficacy / Crop Response

Date: 7/25/2008
 CPR No.: CPR08024

Target Pests: To determine the efficacy of several treatments for the control of Pacific Mite.

Trmt No.	Treatments	Rate (pr/ac)	Application	Application Timing
1	Envidor	18 oz	Broadcast	Threshold
	R-11	0.25% v/v		
2	Envidor	24 oz	Broadcast	Threshold
	R-11	0.25% v/v		
4	SucraShield	1%	Broadcast	Threshold
7	Stylet Oil	2%	Broadcast	Threshold
8	Untreated (east)			
9	Untreated (west)			

Location: Bokisch Vineyards, Galt, CA

Test Design: Single replication, 6 vines per rep

Application: 7/18/08

Evaluations: Pre-count, weekly counts following the application
 20 leaves/treatment

Other: **Phytotoxicity Code:**
 Burn = Leaf Burn or Spots
 Chloro = Chlorosis

Pest Code:
 Pacific Mite

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INSTALLATION AND EVALUATION FORM

TITLE: CPR08024 Natural Forces Grape Miticide Study

PCA: Steve Quashnick
COOP: Bokisch Vineyards
CROP: Grapes

LOCATION: Galt, CA
COUNTY: San Joaquin

INSTALLATION SPECIFICS

DATE: 7/18/08

CROP STAGE: Veraison

TIME: 7:00am to 10:00am

VARIETY: Zinfandel

AIR TEMP: 57F

PLANTING DATE: 18 years

WIND: 1-3 NW

DENSITY OR SEED RATE: 6' x 10'

RH%: 61%

% CLOUD: 5%

SOIL CONDITION

GPA: 100

TYPE: Silt/Clay

%OM: _____

PSI: _____

pH: _____

TEMP: _____

NOZZLE: Airblast

MOIST: _____

PEST SPECIFICS

	<u>NAME</u>	<u>STAGE</u>	<u>DENSITY</u>
PEST#1	<u>Pacific Mite</u>	<u>Adults</u>	<u>precount: 7.2 mites/leaf</u>

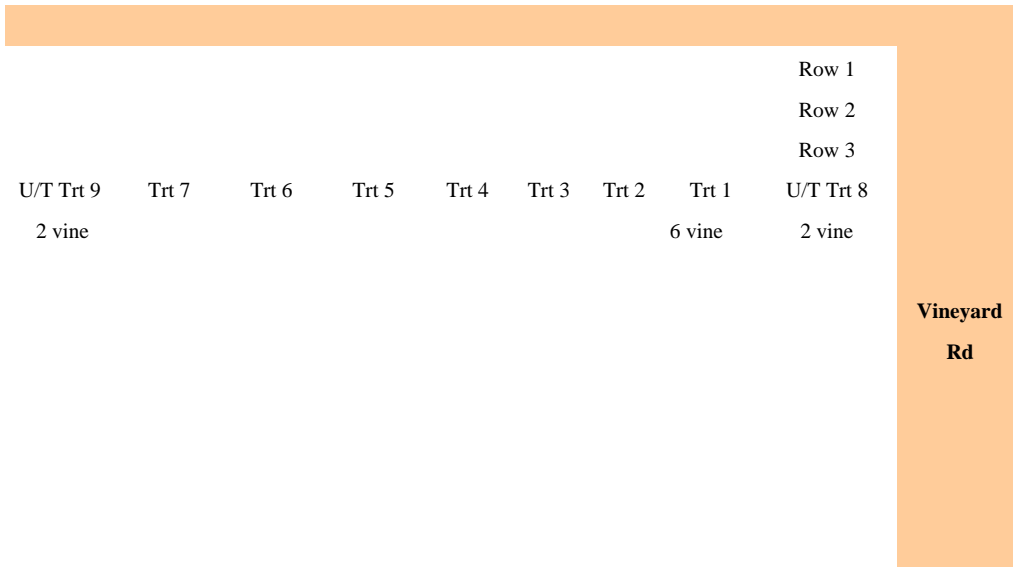
COMMENTS: _____

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Grape Miticide Trial Map:



Shop



Directions:

- HWY 99 south of Galt
- Take "Liberty Rd" Exit. Go East
- Travel on Liberty Road east for about 5-6 miles.
- Look for a Turkey farm to the south.
- Turn left (north) into the vineyard entrance
- Follow the vineyard road until it takes a sharp left turn.
- Plots are at the turn (south west)

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Evaluations and Graphing Data

Evaluations:

Numbers represent "Counts / Leaf"

Sample size = 20 leaves / treatment

Trmt# Treatment		7/22/08			7/29/08			8/5/08		
		Adults	Nymphs	Eggs	Adults	Nymphs	Eggs	Adults	Nymphs	Eggs
8	U/T (east)	60	96	72	50.4	93.6	62.4	45.6	36	36
1	Envidor 18oz + R-11	19.2	45.6	36	14.4	38.4	33.6	12	9.6	7.2
2	Envidor 24oz + R-11	2.4	7.2	9.6	2.4	7.2	2.4	2.4	0	0
4	SucraShield 1%	2.4	4.8	2.4	2.4	2.4	0	2.4	2.4	0
7	Stylet Oil 2%	31.2	36	38.4	21.6	33.6	19.2	12	7.2	7.2
9	U/T (West)	38.4	55.2	84	64.8	60	62.4	72	52.8	48

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Graph Data: Adults / Leaf. Date / Day After Treatment (DAT)

	7/22/08 - 4	7/29/08 - 11	8/5/08 - 18	8/12/08 - 25	8/19/08 - 32	8/26/08 - 39	9/2/08 - 46
	Adults	Adults	Adults	Adults	Adults	Adults	Adults
U/T (east)	60	50.4	45.6	33.6	12	12	2.4
Envidor 18oz	19.2	14.4	12	2.4	0	0	0
Envidor 24oz	2.4	2.4	2.4	2.4	0	4.8	0
SucraShield 1%	2.4	2.4	2.4	2.4	0	0	0
Stylet Oil 2%	31.2	21.6	12	12	0	12	7.2
U/T (West)	38.4	64.8	72	40.8	14.4	9.6	4.8

**2008 Natural Forces Grape Miticide Study
 Steve Quashnick / Boskisch Vineyards
 Pacific Mite Counts - Adults / Leaf - All Intervals
 WECO-CPR08024**

