



your Lake County HORTICULTURAL NOTES

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MARCH 1989

REMINDER! FROST PROTECTION WORKSHOP

Regardless of crop or protection system, all growers will benefit from a review of basic factors.

DATE: March 10, 8:30 - 12:00 a.m. (Friday)
PLACE: Scotts Valley Womens Club
2298 Hendricks Road (off Scotts Valley Road)
Lakeport
COST: \$2.00/person TO COVER HALL RENTAL

FROST PUBLICATIONS - AVAILABLE AT UCCE OFFICE

(and at frost workshop)

Frost Protection for North Coast Vineyards
#2743 \$1.00

Frost Protection: When to Turn Sprinklers On and Off
#7165 free

Passive Frost Protection of Trees and Vines
#21429 \$1.00
(emphasis on soil and ground cover management)

NEW SPRAY OIL PUBLICATION

'Using horticultural spray oils to control orchard pests,' Pacific Northwest Extension Publ. No. 328, was published in September 1988. It very effectively explains: distillation/refinement process, mode of action, paraffinicity, unsulfonated residues, viscosity, distillation range, pour point, phytotoxicity, efficacy factors, and damage symptoms. The leaflet was written by Mike Willett, Yakima County Extension agent and Oregon State University entomologist Pete Westigard. I will make copies for 40 cents to cover xerox costs for interested growers and PCAs. This leaflet fills a great need since oils have become such an important component of pear pest management.

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FROST PROTECTION FACTORS (revised from 1988 Hort Notes)

	<u>TEMPERATURES CAUSING INJURY</u> (30 minutes or more)		
	<u>First color</u>	<u>Full bloom</u>	<u>Post bloom</u>
	<u>30-31°F</u>	<u>31°F</u>	<u>31°F</u>
Grapes (green shoots)			
Pears	25	28	30
Kiwifruit (green shoots)	30-31	31	31
Walnuts	30	30	30

EFFECT OF DEW POINT ON AIR TEMPERATURE

If dewpoint is: Start sprinklers at - to maintain:

	<u>33°F</u>	<u>31°F</u>
13-14°F	43°F	40°F
15-16	42	39
17-18	41	38
19-21	40	37
22-23	39	36
24-25	38	35
26-27	37	34
28-	36	38

EFFECTS OF ORCHARD FLOOR CONDITION ON TEMPERATURES

Bare, firm, wet soil - warmest*
Close mowed cover crop, moist soil - 1/2 ° colder
Moist soil, low growing cover crop - 1/2-1/3 ° colder
Dry, firm soil - 1 1/2 - 2 ° colder
Fresh disced or loose soil - 2 ° colder
High cover crop - 2 -4 ° colder
Cover crop with restricted air drainage - 6 - 8 ° colder

*I recommend an irrigation to wet the top 8-12" of soil be completed before protection begins this year if the soil profile is dry this spring and trees/vines are susceptible to injury. The ground must be in the desired condition when the frost event occurs so that heat is immediately available to the trees.

I wish all Lake County growers a late bloom and short frost season!

1989 WALNUT MEETING

DATE: Thursday, March 30, 1989
TIME: 9:00 - 12:00 a.m.
PLACE: Lake County Board of Supervisors Chambers
255 Forbes Street, Lakeport

AGENDA

- 9:00 Registration and coffee
- 9:30 Orchard Problems and Management under Drought Conditions
Rachel Elkins, UC Farm Advisor, Lake County
- 10:15 Walnut Marketing in the United States
Jack Mariani,
Mariani Nut Company
Winters, CA
- 10:45 BREAK
- 11:00 Walnut Marketing: International Developments
Turner Oyloe, Executive Director
California Walnut Marketing Board, and
Dennis Balint, Director of Marketing
California Walnut Commission
Dave Jory, grower perspective
- 12:00 ADJOURN

I hope all growers take the opportunity to meet the staff of the Walnut Commission and learn where and how your crop is being marketed.

Here's to a profitable season-

Sincerely,

Rachel

Rachel Elkins
Farm Advisor