



your Lake County HORTICULTURAL NOTES

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DECEMBER 1989

MARK CALENDARS NOW!!!

WINTER MEETING SCHEDULE

JANUARY 5 - GRAPE SCION QUALITY CONSIDERATIONS

Program and Registration Form attached
Register by December 24

JANUARY 16 - PESTICIDE AND FARM SAFETY UPDATE
(English and Spanish sessions)

Details in January Hort Notes

JANUARY 18 - LAKE-MENDOCINO PEAR RESEARCH UPDATE

Details in January Hort Notes

(Walnut meeting will be held in February)

PCA credit will be given for all meetings

I hope you will ALL take advantage of these opportunities to update your knowledge of tree and vine production. I also urge growers to invite key supervisory and field personnel to attend -- an educated work force is an effective workforce. Our permanent personnel are valuable. Show them you care that they are educated about the crops they work in.

THE CASE FOR FALL WEED CONTROL IN BEARING ORCHARDS AND VINEYARDS

As mentioned in previous newsletters, fall and early winter pre-emergence herbicide applications are far more effective, and ultimately cheaper, than playing "catch-up" during spring and summer. This is especially true for persistent perennials such as bindweed, bermudagrass and Johnsongrass. Pre-emergence herbicides, applied to the soil, kill winter and summer weeds at germination. A well-timed pre-emergence combined with a post-emergence material in the fall is generally the most effective strip treatment system.

Timing of post-emergence materials differs depending on mode of action of the particular herbicide. Translocated materials, e.g. Round-up, are applied to foliage and move downward in the phloem to the roots. Thus, applications should be timed to coincide with the major movement of nutrients down to the roots. For perennials, this occurs around flowering. At this stage, the plant is finished growing vegetatively and begins to store carbohydrates in the root system. This is particularly important to know when treating perennials. Treating early during their active growth period is often futile (and a waste of money) because the herbicide is diluted by the rapid growth and movement of water and nutrients at this stage is upward, not down.

"Burn-back" materials such as paraquat work best on smaller weeds. Timing is thus very different than for Round-up. Paraquat may be applied more successfully in the spring than Round-up because weeds are small and most water-nutrient movement is upward.

Growers have expressed concern that high winter rainfall renders fall pre-emergence treatment impractical in the North Coast region. Most commonly used orchard and vineyard herbicides, e.g. simazine, diuron, Goal, Surflan, Devrinol and Solicam, will last 6 - 9 months in our heavier soils. Even if efficacy is somewhat reduced by heavy rainfall, you will likely still be way ahead in the spring. Rather than have to fight a jungle of vegetation during the growing season, a reduced number of weeds will be much easier to deal with.

There is great temptation, and a false sense of economics, to skip fall weed control. Most growers would rather be on vacation than on a tractor. Indeed, costs may be high the first couple of years until the seed bank is diminished. In the end, however, those who move their program from spring/summer to fall will be pleased with the results.

1989 HERBICIDE STATUS AND EFFICACY TABLE (pgs. 5-6)

On the attached table, study which problem weeds are controlled by which herbicides. These will likely include cheeseweed, pigweeds, puncturevine, field bindweed, bermudagrass, dallisgrass, and Johnsongrass. THE KEY TO A SUCCESSFUL, ECONOMIC

PROGRAM IS ACCURATE IDENTIFICATION OF THE WEED SPECIES. If needed, contact your PCA, or farm advisor, for help. Noticeably absent from the susceptibility chart is yellow nutsedge. Somicam and Devrinol will suppress nutsedge to some extent, depending on rate, timing and population. Repeated Round-up applications just before flowering will also provide some control, but frankly, nutsedge is very difficult to eradicate once it begins to multiply via numerous underground nutlets. The best control for nutsedge is competition from other species. It is "released" and becomes a problem under chemical mowing and solid herbicide systems due to lack of competition and poor control by herbicides.

WINTER UNIVERSITY EXTENSION (UNEX) CLASSES
(Contact (916) 752-0881 or our office)

Annual Crops: Enhancing Soil Quality for Successful Production
January 10 - UC Davis - \$25.00

Freeze/Frost Protection
January 11 - 12 - UC Davis - \$135.00

Pesticides: Principles and Resistance Issues
UC Davis - \$70.00

Sustainable Agriculture in California: A Research Symposium
March 15 - 16 - Sacramento - \$75.00

Understanding Agricultural Leases
March 24 - UC Davis - \$60.00

NEW PUBLICATIONS AVAILABLE (contact our office)

Water-Holding Characteristics of California Soil
#21463 - 92 pp. - \$6.50

Provides information on water-holding characteristics of California soils and discusses how to use that information to identify an acceptable amount of water to deplete between irrigations.

Covercrops for California Agriculture
#21471 - 24 pp. - \$3.50

How to choose and plant covercrops. A must for farmers who grow row, vegetable, orchard, or vine crops, and who are concerned about sustaining the continued productivity of their soil.

NEW COUNTY GRAPE PUBLICATION AVAILABLE (contact our office)

Information for Prospective Lake County Grape Growers
2 pages + attachments - Free

Information that may be helpful in making decisions about
growing grapes in Lake County.

THANK YOU FOR YOUR COOPERATION

All in all, 1989 was very good to Lake County agriculture. Field plots have been "put to bed" for the winter and once again, we would like to thank all those who donated trial sites, tour stops, energy and time to UCCE's cause. This year, we particularly acknowledge:

USDA Soil Conservation Service
Jack McCabe
Moitozo Bros. Packing Co.
Wayne and Elaine Sylvia
Alex and Lois Suchan
Rafael Valadez
Dennis McCarthy
Ed Seely Ranch
Larry Rogers
Jess Carter
Dave and Vivian Bucknell
Nick Ivicovich
Clarence Davidson
Joe Woolridge
Ben Cambron
Ike Hill
Lindel Allen
Ken and Carolyn Barr
Broc Zoller
Don and Steve Ellis
Janie Plachek
Sid Stokes

Sally Snyder
John Sisevich
Larry Durant
Ross Benson
Alvin Rentsch
Don Eutenier
Ross Eutenier
Maryka Orchards
Brent Holdenreid
Norman Rentsch
Mike Brendlen
Walt Lyon
Kendall-Jackson Vineyards
Bell Hill Vineyards
Keith Petterson
Greg Hanson
Sutter Home Vineyards
Beringer Vineyards
Amber Knolls Orchard
Alfonso Galvan
Vic and Jane Barnes
Diane Henderson
Bill Oldham

The following organizations and people co-sponsored meetings, donated funds and supplied other support for our research program. We are thankful for this because it enhances the programs we can provide the entire agricultural community.

Lake County Dept. of Agriculture
Lake County Grape Growers Assoc.
BioControl Ltd.
Concep Membrane
MSD AgVet
Poly-Cal Plastics (French Camp)
Barry Farm Supply (Walnut Grove)
Ed and Francis Seely
Pepsi Cola Bottling Co. of Ukiah
Diamond Walnut Growers

Lake County Farm Bureau
Moyer Products
United Ag Products
Rainbow Ag Services
Nor-Am Chemical Co.
Brea Ag Services
Suchan Nursery
Kelseyville Packing Co.
Ciba Geigy Corp.
Custom Chemicals

CURRENT HERBICIDE LABEL STATUS FOR ORCHARDS AND VINEYARDS

1989

Listed below is a table showing the status of the available herbicides on deciduous fruit and nut crops. Some uses may be for non-bearing trees only (see NB).

Material	Almond	Apple	Apricot	Cherry	Fig	Grape	Kiwi	Nectarine	Peach	Pear	Persimmon	Pistachio	Plum	Prune	Walnut
<u>PREEMERGENCE HERBICIDES</u>															
dichlobenil (Norosac)	R	R	-	R	-	R	-	R	R	R	-	-	R	R	R
diuron (Karmex)	-	R	-	-	-	R	-	-	R	R	-	-	-	-	R
EPTC (Eptam)	R	-	-	-	-	-	-	-	-	-	-	-	-	-	R
metolachlor (Dual)	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-
napropamide (Devrinol)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
norflurazon (Solicam)	R	R	R	R	-	R	-	R	R	R	-	-	R	R	R
oryzalin (Surflan)	R	R	R	R	R	R	R	R	R	R	-	R	R	R	R
oxyfluorfen (Goal)	R	R	R	R	R	R	R	R	R	R	-	R	R	R	R
pendimethalin (Prowl)	NB	NB	NB	NB	-	NB	-	NB	NB	NB	-	NB	NB	NB	NB
simazine (Princep)	R	R	-	-	-	R	-	-	R	R	-	-	-	-	R
terbacil (Sinbar)	-	R	-	-	-	-	-	-	R	-	-	-	-	-	-
trifluralin (Treflan)	R	-	R	-	-	R	-	R	R	-	-	-	R	R	R
<u>POSTEMERGENCE HERBICIDES</u>															
fluazifop-butyl (Fusilade)	NB	NB	NB	NB	NB	NB	-	NB	NB	NB	-	NB	NB	NB	NB
glyphosate (Roundup)	R	R	R	R	-	R	R	R	R	R	-	R	R	R	R
MSMA (Buono 6)	NB	NB	-	NB	-	-	-	-	NB	NB	-	-	NB	NB	NB
paraquat (Paraquat CL)	R	R	R	R	R	R	R	R	R	R	-	-	R	R	R
2,4-D (Salt)	R	R	R	R	-	R	-	R	R	R	-	-	R	R	R
sethoxydim (Poast)	NB	NB	NB	NB	NB	NB	-	NB	NB	NB	-	NB	NB	NB	NB

R = Registered

RS = Registered State Label only (some uses may be for special local needs only)

NB = Registered for use in non-bearing trees only

- = Not registered

SUSCEPTIBILITY OF WEEDS TO HERBICIDES

Preemergence

Postemergence

	Norocac	Karmex	Devrinol	Solican	Surflan	Goal	Simazine	Treflan	Prowl	Roundup	MSMA	Paraquat	2,4-D	Poast	Fusilade	Goal
<u>Annual Broadleaves</u>																
Cheeseweed (Malva)	C	P	P	P	P	C	P	N	N	P	N	P	P	N	N	C
Checkweed	C	C	C	P	C	N	C	C	C	C	C	C	P	N	N	C
Clover	P	P	P	N	N	P	C	C	C	C	C	P	P	N	N	P
Fiddleneck	C	C	C	P	C	C	C	C	C	C	C	P	P	N	N	C
Filaree	P	C	C	P	N	C	N	N	N	P	N	P	P	N	N	C
Flax-leaved Fleabane	C	N	N	N	N	N	C	N	N	C	N	P	C	N	N	N
Goosefoot	C	C	C	C	C	C	C	C	C	C	C	P	C	N	N	N
Groundsel	C	N	P	P	N	C	C	C	C	C	C	C	C	N	N	C
Henbit	C	C	N	P	C	C	C	C	C	C	C	C	P	N	N	C
Horseweed (Marestail)	P	N	N	N	N	N	C	C	C	C	C	P	C	N	N	C
Knotweed	C	C	C	P	C	P	C	C	C	C	C	P	P	N	N	P
Lambsquarter	C	C	C	P	C	C	C	C	C	C	C	N	C	N	N	P
Mustard	C	C	P	P	N	C	C	C	N	P	N	C	C	N	N	P
Nightshade	C	C	N	C	P	C	C	C	N	P	C	C	C	N	N	P
Pigweed	P	C	P	P	C	C	C	C	C	C	C	C	C	N	N	C
Prickly Lettuce	C	C	C	C	N	C	C	C	N	C	N	P	C	N	N	C
Puncturevine	C	P	N	C	C	C	P	P	P	C	N	C	C	N	N	C
Purslane	C	C	C	C	C	C	C	C	C	C	C	C	C	N	N	P
Shepherdspurse	C	C	N	P	N	C	C	C	N	C	N	C	C	N	N	C
Sowthistle	C	C	C	C	N	C	C	C	N	C	N	P	C	N	N	C
Wild radish	C	C	N	N	N	C	P	N	N	C	N	C	C	N	N	P
<u>Annual Grasses</u>																
Annual bluegrass	C	C	C	C	C	P	C	C	C	C	N	P	N	N	N	P
Barnyardgrass	P	C	C	C	C	P	C	C	C	C	P	P	N	C	C	N
Crabgrass	P	C	C	C	C	N	P	C	C	C	C	C	N	C	C	N
Ryegrass	N	C	C	C	C	N	N	C	C	C	C	P	N	C	C	N
Wild barley	C	C	C	C	C	P	C	C	C	C	N	P	N	C	C	N
Wild oats	-	P	C	C	P	P	C	P	C	C	N	P	N	C	C	P
Fescues	P	C	C	C	C	C	C	C	C	P	N	C	N	N	N	N
<u>Perennials</u>																
Field bindweed	P	N	N	N	P	N	N	P	P	P	N	N	P	N	N	N
Bermudagrass	P	N	N	P	P	N	N	P	P	C	N	N	N	P	P	N
Dallisgrass	N	N	N	N	P	N	N	N	N	P	C	N	N	C	C	N
Johnsongrass	N	N	N	C	N	N	N	N	P	C	C	N	N	C	C	P

C = Controlled
P = Partial Control
N = Not Controlled

GRAPE SCION QUALITY CONSIDERATIONS

co-sponsored by

University of California Cooperative Extension
and
Lake County Grape Growers Association

FRIDAY, JANUARY 5, 1990

- 8:30 A. M. - Registration and coffee
- 9:00 - Welcome and announcements
- 9:15 - Introduction to the World of Grape Virus Diseases
Dr. Debra Golino, USDA/ARS, Davis
- 10:00 - Role and Importance of the Foundation Plant Materials Service
Dr. Susan Nelson-Kluk, FPMS, Davis
- 10:45 - BREAK - coffee and muffins
- 11:00 - Role of the CDFA in Assuring Clean Scion Stock
David Godfrey, CDFA, Sacramento
- 12:00 - LUNCH
- 1:00 - Trueness to Type
Dr. Andy Walker, Dept. Viticulture and Enology
UC Davis
- 1:45 - Clones: An Overview and Research Update
Dr. Jim Wolpert, Dept. Viticulture and Enology
UC Davis
- 2:30 - Problems in the Field - How do Wineries Handle Them?
George Cooke, Dept. Viticulture and Enology
UC Davis
- 3:15 - ADJOURN

WHERE: Clear Lake Grange, Finley COST: \$6.50 per person

Make check payable to and mail to:

Lake County Grape Growers Association
ATTN: Jolene Silva
65 Soda Bay Road
Lakeport, CA 95453 (registration form on pg. 8)

REGISTRATION DEADLINE: December 24, 1989
FOR INFORMATION call: UC Cooperative Extension - 263-2281 or
LCGGA - 263-0911

(cut and send)

REGISTRATION FORM - Grape Scion Quality Considerations

DEADLINE - December 24

Name _____

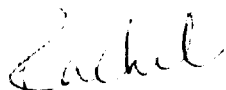
Address _____

Phone No. _____ No. of Persons _____

Total Enclosed \$ _____

FROM ALL OF US AT UCCE, HAPPY HOLIDAYS AND HAVE A GREAT NEW YEAR!

Sincerely,



Rachel Elkins
Farm Advisor

Reference to commercial products or trade names is with the understanding that no discrimination is intended, and no endorsement by UC Cooperative Extension implied.

HAPPY HOLIDAYS

Greg Givshi

Pat Jones

Kander Stalder

Richard Elkins

William Rockness

John Barber

Jeanne

Kandace