



your *Lake County* **HORTICULTURAL** **NOTES**

SEPTEMBER - OCTOBER 1995
PART I

!! REMINDERS !!

***REGISTER FOR PEAR AND WALNUT
SHORT COURSES***

UC PEAR SHORT COURSE REMINDER

Now that harvest is over and piles of mail are finally being perused, growers and others interested in California pear production are encouraged to submit their registrations promptly so that logistical arrangements can be made. The course is the first offered in five years and promises to be both informative and **fun**.

In addition to a busy schedule of indoor topics, there are two field trips, to the Sacramento Delta orchards and Naumes' Marysville Ranch. A very special instructor will be Dr. Bas Van den Ende, formerly horticulturalist for Naumes and now a consultant in Australia. Bas is returning to California especially for the Short Course.

Short Course brochures were mailed out in early July. If you need another one, or would like to discuss the details of the Course, please contact me. We hope to see many of you at UC Davis November 30-December 2!



NITROGEN FROM COVER CROPS

The following article should be of interest to growers seeding a fall cover crop to provide nitrogen:

Cost of Nitrogen Produced From a Cover Crop

by Karen Klonsky, Dept. of Agricultural Economics, UC Davis

The cost of nitrogen produced from a fall cover crop will vary depending on a number of factors. First, the cultural practices will vary depending on the variety planted, soil type, preceding crop and weather. In dry years or in areas of low rainfall, a fall planted cover crop may need to be irrigated for good stand establishment. Other areas of variation include ground preparation and incorporation of the cover crop. The size of equipment used will also influence cost. In general, the cultural cost per acre will range from about \$25 to \$100 per acre for a cover crop which is incorporated.

A fall cover crop planted as a source of nitrogen should yield between 80 and 120 pounds of nitrogen. The cost of a pound of N produced from a cover crop is inversely related to the amount of N contained in the cover crop and directly related to the cost of the cover crop. That is, the cost per unit of N is low when the nitrogen content of the cover crop is high while the cost per unit of N is high when the cost of the cover crop is also high. This means that the cost per pound of nitrogen is highest when the cover crop is expensive and has a low nitrogen content and highest when the nitrogen content is low and the cover crop is expensive. Therefore, given the cover crop cost and nitrogen ranges expected, a pound of nitrogen driven from a cover crop ranges from \$.21 per pound (120 pounds N per acre and \$25 per acre to produce the cover crop) to \$1.25 per pound (80 pounds N per acre and \$100 per acre to produce the cover crop).

This cost can be compared to nitrogen supplied by mineral fertilizer which costs about \$.34 per pound applied. Caution should be used in making a direct comparison, however. The benefits of cover crops include improved water infiltration and habitat for beneficial insects. The value of these benefits are hard to measure in dollar terms and have not been included in these calculations.

Costs to Produce Nitrogen From a Cover Crop

Cover crop (\$/acre)	\$ 25	\$ 25	\$ 100	\$ 100
Pounds N/Acre	120	80	120	80
\$/Pound N	\$0.21	\$0.31	\$0.83	\$1.25

EMERGENCY LOANS FOR FARM FLOOD DAMAGE

Farmers and ranchers in Lake County may qualify for emergency loans (EM) pursuant to the provisions of the "Emergency Agricultural Credit Act of 1984" (Public Law 98-258).

Authorization for the processing of these loans is due to damages caused by winter storms, mudslides and flooding which occurred during the period of February 13 through April 19, 1995.

Loans may be made to eligible farmers to cover actual losses directly resulting from this disaster. Actual loss loans cannot exceed \$500,000 per disaster. These loans can only be made to applicants who are conducting not larger than family size farming operations. The interest rate for these loans will be 3.75 percent. Farmers who have suffered a loss as a result of this natural disaster and who are interested in filing an application for assistance should contact the local Rural Economic and Community Development Services (formerly Farmers Home Administration) county office. Applications for physical and production losses will be accepted through November 13, 1995. Any applications pending after that date will be processed and completed.

Contact ShirLee Gonsolis, Individual Assistance Officer at (916) 364-2402 with questions.

NEW AG-RELATED COMPUTER RESOURCES

A Guide to Agriculture on the Internet

by Dr. Mark Campidonica, UC Davis Instructional Technology Services

Internet primer including information search and retrieval tips, quick-reference directory of ag services and databases and practice exercises. \$10, payable to UC Regents:

SAREP
Department of Agronomy
University of California
Davis, CA 95616

Not Just Cows

by Wilfred E. Drew

Current list of ag-information services on the "Net" and how to access them. Includes 61 ag libraries, 54 "gophers", 31 electronic publications, 10 bulletin boards, dozens of discussion/news groups, other mail-based services and reference list FREE BY EMAIL ONLY:

drewwe@snymorva.cs.snymor.edu
or call (315) 684-6055

UC FARM SAFETY NEWSLETTER AVAILABLE

The Farm Safety Program of the UC Davis Department of Biological and Agricultural Engineering issues an excellent quarterly newsletter in both English and SPANISH. The summer issue includes a special section on eye safety, and update on ergonomics standards and descriptions of safety videos available from the Farm Safety library.

Subscriptions are **free** and available from:

Farm Safety Newsletter
Dept. of Biological & Agricultural Engineering
3022 Bainer Hall
University of California
Davis, CA 95616
(916) 752-0563

We have sample copies at our office. This would be a great asset to Spanish-speaking/reading supervisory ranch personnel!

UPDATED UCIPM PEST MANAGEMENT GUIDELINES

contact our office

The Guidelines are excellent resources for **specific** treatment advice and control methods. They are updated periodically and are designed to accompany the more permanent IPM Pest Management Manuals. Contact us for:

Apple (PMG 12)	August 1995	48 pgs.	\$2.50
Grape (PMG 18)	August 1995	54 pgs.	\$3.00
Pear (PMG 16)	November 1994	64 pgs.	\$3.50
Walnut (PMG 3)	August 1995	45 pgs.	\$2.50

We also have guidelines for numerous other fruits, vegetables, field crops and turfgrass. They are available for 5 cents per page from our office.

UCIPM WORKSHOPS FOR TRAINERS OF PESTICIDE HANDLERS AND FIELDWORKERS

contact our office or UCIPM at 916-752-5273, FAX 916-752-9336

These workshops will provide instructors with information and materials to meet California's pesticide handler training requirements and the US EPA's Worker Protection Standard training requirements.

The courses are 8 hours and will cover **both** pesticide handler and fieldworker training. The fee is \$100 and includes resource materials, lunch and refreshments. Upon completion, participants will be listed on California Dept. of Pesticide Regulation's list of qualified instructors.

Courses will be held in Rohnert Park (English, October 16), Marysville (English, January 8 and Spanish, January 9) and Woodland (February 2, English).

Registration forms are available at our office.

UNEX FALL AGRICULTURAL OFFERINGS

contact 1-800-752-0881

classes held at UC Davis; fees include materials and lunch

Vertebrate Pest Management in Agriculture

Wednesday, October 25 - 9 a.m. to 4 p.m. \$95 6 hours PCA credit

Pesticides: Principles and Resistance Issues

Tuesday, November 14 - 8 a.m. to 4 p.m. \$95 7 hours PCA credit

Future of Pesticides: Regulatory and Risk Issues

Thursday, November 16 - 9 a.m. to 4 p.m. \$95 5.5 hours PCA credit

3rd Annual UC Davis Pest Science Conference

Thursday & Friday, December 7-8 \$100 10.5 hours PCA credit

UNIVERSITY EXTENSION (UNEX) WINE GRAPE COURSES

contact UNEX at 1-800-752-0881

unless otherwise stated, classes held at UC Davis. Course fees include materials and lunch

Taxation and Accounting for the Small Vineyard

Monday, October 23 - 9 a.m. to 4 p.m. \$130

Introduction to Grapevine Disease and Identification

Monday, November 6 - 9 a.m. to 4 p.m. \$100

Establishing the Home Vineyard

Saturday, December 2 - 9 a.m. to 4 p.m. \$ 95

Experimental Design: Assessing Clone and Rootstock Interaction

Tuesday, December 5, **Napa** - 9 a.m. to 4 p.m. \$ 90

OTHER NEW RESOURCES

A Resource Guide; Fertilizer Research and Education Program

Contact: CDFA, FREP
1220 N Street
Sacramento, CA 95814
(916) 653-5340
(916) 653-2407 (FAX)
E-mail: jrfranco@ucdavis.edu

Immigration Reform and U.S. Agriculture

UCDANR Publication #3358
contact our office

AG COMPOSTING INFORMATION

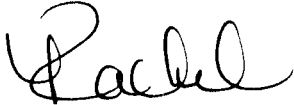
Large scale composting is a growing field of interest (no pun intended). Contact us if you are interested in these:

Agricultural Use of Composts; Proceedings of a workshop held June 13-14
in Salinas

Biosolids Compost Workshop Proceedings (held June 19, 1994 in Riverside)

Farm Scale Composting; special publication of Biocycle

Sincerely,



Rachel Elkins
Farm Advisor

University of California Cooperative Extension
Fresno, Kings, Madera & Tulare Counties

AGRICULTURAL PERSONNEL MANAGEMENT PROGRAM



1720 South Maple Avenue, Fresno, California 93702 (209) 456-7285
Direct Line (with answering machine) (209) 456-7560
FAX (209) 456-7575

- | | |
|---|--------|
| <input type="checkbox"/> 1. Abundance of Posters Required in Agricultural Employment, English/Spanish. | \$3.00 |
| <input type="checkbox"/> 2. California EPA Hazard Communication Standard, English. | \$2.50 |
| <input type="checkbox"/> 3. Employers Subject to California Wage Orders, Child Labor, and Overtime Rules | \$0.50 |
| <input type="checkbox"/> 4. Field Sanitation Packet: Hygiene posters, field sanitation rule, vendors list
English/Spanish. | \$2.00 |
| <input type="checkbox"/> 5. Guide to Agricultural Heat Stress, English. Includes English/Spanish tailgate talk
for fieldworkers. | \$3.50 |
| <input type="checkbox"/> 6. Guide to Federal and State Requirements for Employee/Migrant Housing, English. | \$2.00 |
| <input type="checkbox"/> 7. New Federal EPA Pesticide Safety Standard Issued, English. | \$2.50 |
| <input type="checkbox"/> 8. Spanish - Pesticide Safety Training Audio Cassette, with Spanish/English script
(9 minutes Spanish). Covers EPA Worker Protection Standard (WPS) training
topics. Cal/EPA "accepted." | \$5.00 |
| <input type="checkbox"/> 9. Pre-Employment Inquiry Guidelines, DFEH-161, English. | \$0.50 |
| <input type="checkbox"/> 10. English - Targeted Industries Partnership Program (TIPP) Checklist. | \$0.50 |
| <input type="checkbox"/> 11. Written Accident and Illness Prevention Program, English/Spanish -
Cal/OSHA "accepted". | \$2.50 |

Price increases reflect the necessary addition of postage and handling

Please make check payable to "County of Fresno" and mail ENTIRE form to:
Steve Sutter, Area Farm Advisor, UC Cooperative Extension, 1720 S. Maple Avenue, Fresno, CA 93702
(Per County Ord #93-019, there will be an \$18 per check fee charged for returned checks)

Name _____ Firm _____
Address _____ Phone _____
City _____ State _____ Zip _____

Cooperative Extension
U.S. Dept. of Agriculture
University of California
Oakland, CA 94612-3560

Bulk Rate
Postage & Fees Paid
USDA
Permit No. G-00268

Official Business
Penalty for Private Use, \$300

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Inquiries regarding the University's nondiscrimination policies may be directed to the Affirmative Action Director, University of California, Agriculture and Natural Resources, 300 Lakeside Drive, 6th Floor, Oakland, CA 94612-3560 (510) 987-0096.