

**FOUNDATION PLANT MATERIALS SERVICE
UNIVERSITY OF CALIFORNIA
DAVIS 95616-8600
PHONE 916-752-3590 - FAX 916-752-2132**

FPMS ANNUAL INDUSTRY ADVISORY MEETING

The 1990 Annual Industry Advisory Meeting will be held on December 17, 1990 from 9:00am to 3:00pm. The Grapevine, Deciduous Fruit and Nut Tree, and Rose clean stock programs will be discussed. Anyone interested in attending should call the FPMS office at 916-752-3590 to reserve a place. An annual report prepared for the meeting is available upon request.

FPMS FINANCIAL REPORT

Total sales were down 14% from 1989-90 as a result of reduced distribution of each commodity, the widest gap being in the Fruit Tree program due to the removal of the old Foundation Orchard and the youth of the new Foundation Orchard.

In 1989-90, FPMS sold 109,225 grape cuttings, graftsticks and budsticks and 20,104 mist propagated grape plants. FPMS sold 24,488 buds and 18,295 cuttings of fruit and nut tree material, 192,127 certified peach seeds, 11 lbs. certified plum seed, 162 lbs. certified cherry seed, 370 lbs. P. betulaefolia pear fruit, 30,060 cuttings and 4,100 buds of rose material. Income in 1989-90 was \$478,441.53 and expenditures were \$477,775.84 for a net gain of \$665.69.

NEW STAFF AT FPMS

Several new staff have joined FPMS this year.

Donna Marzolf is our new secretary/receptionist. She has a background in public administration, was an owner/operator for a charter flying service in Chico, worked for the US Air Force, a helicopter company in Iran and Physical Plant at UCD. She is quickly learning about all the FPMS crops and is available to provide customers with up-to-date information about their orders.

Carole Lamb is replacing Cheryl Covert as the FPMS Administrative Assistant. Carole comes to FPMS from the UCD Chancellor's office. She has also worked for the National Clonal Germplasm Repository at Davis and was once an owner/operator for a small winery in Green Valley.

Tom Pinkston comes to us with 17 years of farming experience in row crops and trees. He is familiar with a variety of types of farm machinery and implements and does the majority of our cultivation work. Tom also handles the application of all pesticides in both field plots and greenhouse/screenhouse operations.

Arturo Hernandez will be helping with the various propagation and indexing functions. He is experienced in propagating fruit trees, grapevines and roses.

GRAPE PROGRAM REPORT

National Grape Importation and Clean Stock Facility

Construction of the first two buildings for the National Grape Importation and Clean Stock Facility were completed in October 1990. Funds approved by the California Fruit Tree, Nut Tree and Grapevine Improvement Advisory Board were used to build a screenhouse that will house quarantine grape materials and new tree candidates for the Foundation Orchard. A greenhouse built with University funds to house Strawberry Foundation Mother plants has also been completed.

Planning money in the amount of \$124,600 from the 1990 Federal budget was awarded this summer. Planning for the remainder of the facility is now under way at Davis with these funds.

Industry efforts, organized by Phil Freese, Winegrower at Robert Mondavi Winery, to secure Federal funding resulted in an appropriation of \$897,000 for a National Grape Importation and Clean Stock Facility in the 1991 budget. The California Fruit Tree, Nut Tree and Grapevine Improvement Advisory Board has also recently approved funding in the amount of \$180,000 for part of a greenhouse for the facility. Although the complete project is estimated to cost \$2,500,000 plans to build at least a partially functioning facility as soon as possible are underway.

Many thanks to Phil Freese and all of the others that are working so hard to make this facility a reality.

New Selections in the Foundation Vineyard

Several new grape selections will be available from FPMS as California Foundation Stock this season:

Sangiovese-04 This selection is from the Italian clone called Rauscedo 10, identified as a "grosso lamole" type in the Conegliano catalog.

Cosmo 2 and Cosmo 10 Two rootstocks that Cosmo selected from Teleki 8B in 1931. It is likely that they have good resistance to phylloxera because they are Berlandieri X riparia hybrids but they have not yet been tested in the USA.

Fresno Seedless A new release by the Agricultural Research Service, United States Department of Agriculture and the Commonwealth Scientific and Industrial Research Organization, Merbein, Australia. It is a white seedless grape which ripens ahead of Thompson Seedless, and ahead of Perlette by 3-5 days. Fresno Seedless is not recommended for California because of the poor berry attachment and the resulting berry shatter. It is used as an early-ripening table grape in the Murray Valley, Australia.

Malegue 44-53 A rootstock selected by Malegue from the cross Riparia grand glabre X 144 Malegue (Cordifolia X rupestris). It should have adequate resistance to phylloxera but has not yet been tested in the USA.

Evex 13-5 A rootstock selected by Fernandez de Bobadilla from an open pollinated Berlandieri at the Station de Viticulture in Jerez, Spain.

Tocai Friulano -01 A white Italian wine variety. The French synonym is Sauvignonasse.

Selections removed from the program

The following selections have been removed from the program because they were found to be untrue to variety:

<u>selection</u>	<u>location</u>
Riparia Gloire-02	FV TYR IV 2 V2,3
Millardet et de Grasset 101-14-02	FV BKS L 1 V1,2
Olivette blanche-02	FV F1 V11
Olivette blanche-02	FV BKS G8 V3,4
Olivette blanche-02	FV TYR Q12 V1,2
Olivette blanche-03	FV F1 V12
Foex 33 EM-01	FV D 12 V1,2
Foex 33 EM-01	FV BKS C4 V10,11
Foex 33 EM-01	FV TYR IX79 V15,16

In addition all of the Oppenheim #4 (SO4) distributed by FPMS to date was determined to be Teleki 5C as a result of inspections of the mother vines by Dr. Jean-Michel Boursiquot, and inspections and isozyme analysis conducted by Dr. Andrew Walker. The selections have been re-identified as follows:

<u>old name</u>	<u>new name</u>
Oppenheim #4 -02	Teleki 5C -05
Oppenheim #4 -03	Teleki 5C -06
Oppenheim #4 -04	Teleki 5C -07
Oppenheim #4 -05	Teleki 5C -08

A new selection of SO4 recently imported from Italy has been identified as true to variety. Tests under way at this time may make it possible to qualify it for the registration and certification program by spring 1991.

Testing of the Foundation Vineyard for Fanleaf Virus with ELISA

In order to more closely monitor the disease status of the Foundation Vineyard, FPMS decided to test all Foundation Mother Vines for grape fanleaf virus (GFLV) with ELISA. To date, tests on approximately 8,000 vines have been completed. All vines were negative for fanleaf except for one selection, Nebbiolo fino-01 which was located at FV F12 V13,14; FV BKS G6 V9,10; and FV TYR MO 9 V32,33. These vines have been dropped from the certification program and removed from the foundation vineyard.

The original Nebbiolo fino budwood is the suspected source of infection and propagation is the likely method of spread because all of the vines of this selection are positive but no other infected vines have been found.

If you have vines from this selection planted in a California Registered Increase block, you are advised to contact David Godfrey, Program Supervisor for Pest Exclusion-Nursery Program, Division of Plant Industry, State Department of Food and Agriculture, 1220 N Street, Sacramento, CA 94271, phone: 916-445-2388. The State may wish to test these vines for fanleaf before they are removed from registered increase blocks.

If you have Nebbiolo fino-01 vines that are not in an increase block, the decision to remove or retain the vines will vary according to each individual vineyard situation.

If material from Nebbiolo fino vines has been propagated from and distributed to others, FPMS recommends informing all who received the stock of the disease status as soon as possible.

Information about the disease fanleaf is given in the UC Division of Agriculture Sciences publication no. 4105 Grape Pest Management (out of print) and Compendium of Grape Diseases edited by Pearson and Goheen (available from the American Phytopathological Society, 3340 Pilot Knob Road, St. Paul, Minnesota 55121). This information would be appropriate to forward on to any customers who have received Nebbiolo fino material.

As technology improves and virus detection methods are refined, undoubtedly we will discover that a few other "healthy" selections, in fact, have virus. Removal of these materials from certification certainly causes headaches for nurseries but, in our opinion, it is a worthwhile price to pay for clean vines. FPMS remains committed to providing the California nursery industry with the healthiest, highest quality grapevine material possible.

Advantages of Planting with California Certified Grape Stock

A new brochure that explains what the California Certification program can do for grape growers and what a grape grower can do independently to improve the quality of the grape stock planted was recently published by FPMS. The title is, "Advantages of Planting with California Certified Grape Stock". Copies are available from FPMS for \$.09-.19/copy depending on the quantity ordered. Photocopy ready originals are available at no charge from FPMS to anyone who may wish to reproduce the brochure.

Phylloxera Task Force Recommendation

The UCD Phylloxera Task Force recommends that grapegrowers discontinue planting AXR#1 rootstock because it is not resistant to biotype B phylloxera. This new biotype is known to be widespread in Napa and Sonoma Counties and is likely to already exist or spread throughout California. Planting AXR#1 in new vineyards or in replant situations would invite significant risk to vineyard longevity and therefore growers are advised to use alternative rootstocks. From data available today the following rootstocks appear to be resistant to biotype B phylloxera: Couderc 3309, Richter 110, Teleki 5C, Kober 5BB, St. George, Teleki 5A, Freedom and 039-16.

FPMS Grape Material Availability

In response to vineyard losses due to phylloxera and fanleaf many nurseries are expanding the size and scope of rootstock increase blocks and researchers are conducting studies to learn more about which rootstocks are most appropriate in California today. The demand for limited FPMS rootstock materials is consequently expected to be higher than usual this year. In order to accommodate research and foundation stock increase functions, FPMS will again take orders to mist propagate selections in short supply. Placing your mist propagated plant orders as early as possible will help FPMS schedule greenhouse space to best accommodate everyone's need.

FPMS rootstock and scion dormant cuttings will be allocated between all orders received before November 15, 1990 according to a priority system established by FPMS. Orders received after that date will be filled on a first-come first-served basis.

Updated Grape Lists

Updated versions of the FPMS Registered Grape Selections and FPMS Registered Grape Selections by Nursery and Variety lists are now available from FPMS for \$5/list. These lists are excellent resources which provide information about all the registered grape selections and the nurseries that propagate them.

The new format for the one-page Registered Grape Variety List has caused a little confusion. Those numbers to the left of each variety name are not computer codes. They are the amount of #1 cuttings estimated to be available this year from FPMS. This information is provided to help customers prepare their FPMS grape material orders.

TREE PROGRAM REPORT

New Orchard Plantings

Development of a new Foundation Orchard planting is now underway. 364 trees were planted in January of 1989 which included 15 new selections from IRII and 45 repropagations from the old Foundation Orchard. In addition, field indexes on 20 new selections made from California nurseries will be completed in the spring of 1991. Healthy selections from this group will qualify for foundation stock status in the future.

In January 1990, 24 new peach, pear, almond, and apricot selections were sent to IRII to be treated and tested for disease. These items are expected to be returned to FPMS in fall 1991 and will qualify to be included in the Foundation block.

An additional 272 trees will be planted in the New Foundation Orchard this January including 41 repropagations from the Old Foundation Orchard, 31 items from IRII, and 15 UC breeder items.

Seed Availability

Limited amounts of Lovell, Nemared and Nema-guard peach, Myro plum and Mahaleb cherry 1990 crop seed are still available from FPMS. *Betulaefolia* pear fruit or seed is also still available for this season.

STRAWBERRY CLEAN STOCK PROGRAM

UC patented California Foundation Strawberry plants that have been heat treated, meristem cultured, and virus indexed are available for sale to licensed propagators. FPMS can supply plants *in vitro* or in soil. Contact the FPMS office to order or for more information.

ROSE PROGRAM

FPMS sells rose material from 6 rose rootstocks (Dr. Huey, Odorata, Burr Multiflora, De la Grifferia, IXL, and Manetti) and over 300 virus tested scion varieties. Dr. Huey and Multiflora rootstock cuttings and most scion varieties are still available this season. Contact the FPMS office for more information about rose materials available.

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Foundation Plant Materials Service
University of California
Davis, CA 95616-8600

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