

Highlights: New healthy selections of several grape varieties soon to be released; changes in Registration programs for grapevines, fruit & nut trees; Certified seed still available from 1984 season; update on disease detected in the Foundation Orchard & Foundation Vineyard.

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UNIVERSITY OF CALIFORNIA, DAVIS
FOUNDATION PLANT MATERIALS SERVICE
NEWSLETTER

This is the fourth annual FPMS newsletter. Over these four years the newsletter has become an important vehicle for updating the service provided by FPMS. Through it customers are informed of recent developments and discoveries that affect plant material distributed by FPMS.

FPMS ANNUAL INDUSTRY ADVISORY MEETING

The 1984 Annual Industry Advisory Meeting will be held November 1, 1984 from 9:30 a.m. to 2:30 p.m. At the meeting, the various FPMS programs will be reviewed and recommendations made for the future. Anyone interested in attending should call the FPMS office at (916) 752-3590 for details so a place can be reserved. An Annual Report prepared for the meeting will be available upon request.

FPMS FINANCIAL REPORT FOR 1983-1984 FISCAL YEAR

In 1983-84 88,530 grape cuttings, graftsticks and budsticks were sold. Also, 48,715 buds and 3,718 cuttings of fruit and nut tree material, as well as 12,260 certified peach seeds, 703.5 lbs. certified plum and cherry seed and 228 lbs. of *Betulaefolia* pear fruit were sold. Of rose material FPMS sold 50,730 rootstock cuttings and 4,462 scion buds.

Total income for FPMS in the 1983-84 fiscal year was \$132,282.89. Total expenditures were \$172,858.06, leaving a deficit for the year of \$40,575.17. The deficit was due to a second year of below-average sales, the purchase of \$10,000 worth of computer hardware and software, and increased operations costs. Even though this is the second year FPMS has experienced a loss, the program is still financially secure because of a reserve that was saved in better years. After losses are subtracted, there will still remain a substantial reserve for the future.

In order to bring expenditures and income into closer balance for the current fiscal year, prices for all materials sold by FPMS were increased July 1, 1984. A new price list is enclosed for your information.

FRUIT TREE PROGRAM REPORT

Peach Yellow Leaf Roll (PYLR) was found in the Foundation Orchard again in 1984. The tree identified as infected with PYLR was a Lovell peach, accession #10-34-1-63, located at NFO A3 T24. This is the fourth year since 1979 that PYLR infected trees were found in the Foundation Orchard. Infected trees were also found in 1979, 1981 and 1983. These trees are always removed as soon as they are identified. It is suspected that an unidentified alternate host exists somewhere in the area, and that an aerial insect is carrying the disease into the Foundation Orchard at a slow, infrequent rate.

Currently, there are no alternative registered selections of Barbera, Folle Blanche, and Cortese. There are, however, other registered selections of Muscat Ottonel, Early Muscat, Sylvaner B8, and Pphenheim 4 (S04). Also, in the near future, a new selection of Seibel 10,868 that will qualify for registration from Dr. Goheen's heat treatment and indexing program should be available.

At this time, we still have registered two selections of Nebbiolo: Nebbiolo and Nebbiolo Fino. There are, however, no other Cortese vines in the vineyard that are true to type.

Many customers have called the FPMS office asking questions about the seriousness of the disease Fleck, so the following was excerpted from a letter from Dr. Austin Goheen, USDA Plant Pathologist, about Fleck for your information:

Fleck is not one of the major virus diseases of grapevines in my experience. It caused us a great deal of confusion during the early index testing because its symptoms in St. George indicators are similar to those caused by grapevine fanleaf virus. The Canadians have difficulty indexing the disease in their cooler climate, and they have opted to ignore fleck in their indexing program. On the other hand, Japanese workers believe that fleck is a component of a serious disease that they call "ajinashika", which we do not have in California. For this reason, I think that we should still consider that fleck is a disease of significance. In our climate it is easy to index. We should eliminate it from the Foundation Vineyard and not register any mother vine that we know to be affected.

We have grown own-rooted Gewurztraminer vines with and without fleck side-by-side in a non-replicated plot for the past nine years. I have not observed any effect on this cultivar from cursory observations. The Gewurztraminer vines are not infected with other viruses, however, so I can not definitely say that fleck is benign from these observations.

In certain rootstocks, especially St. George, fleck causes reduced vigor and severe leaf deformation. I have never seen the same symptoms in scion cultivars.

Unfortunately, no one has conducted a valid, comparative yield test with fleck-free and fleck-infected vines. In 1970, French workers reported that they were conducting experiments to measure the effect of "Marbrure" (the French name for fleck). These workers have not reported any results from their experiment after fourteen years.

The California regulations for Registration and Certification of Grapevines were amended this last January 30, 1984. Some of the changes made include elimination of grapevine mother blocks and the addition of a description of index testing required. To obtain a copy of the new regulations, write to Roy Matsumoto, Pest Exclusion-Nursery Services, 1220 N Street, Sacramento, CA 95814.

New healthy selections of Sauvignon Blanc and Ruby Cabernet, varieties lost from the program in the past, have just been planted in the new Foundation Vineyard. As soon as the vines fruit and are identified, wood will be available for sale.

In addition, a new table grape, Autumn Seedless, just released by the USDA, has been planted in the new Foundation Vineyard. This is a late maturing white seedless grape that ripens two weeks after Thompson Seedless. Also, a variety from Italy, Foresteria, just passed all indexing tests and was also added to the New Foundation Vineyard.

The California State Department of Food & Agriculture (CSDFA) regulations for Registration and Certification of Deciduous Fruit & Nut Trees say that "the State may refuse, suspend or cancel any plants in part or all of a planting if.. Yellow Leaf Roll virus disease of peach is found within 300 feet." As a consequence of the most recent PYLR strike, Roy Matsumoto, Program Supervisor for the Pest Exclusion-Nursery Program of CSDFA, has decided that registration tags for peach or nectarine wood sold will only be issued one year **after** the wood is actually cut and sold. This way we will be able to inspect the trees the season the wood is cut and the following season before tags are issued. It is sometimes difficult to spot a PYLR infection the first year it occurs on a tree, but by the second year, symptoms are quite clear. The year after collecting wood, we can be more certain that source trees were not infected. This plan will make it possible for nurseries to continue to use peach and nectarine material from the Foundation Orchard to establish trees for California registered increase blocks. Customers not involved with the certification program will be informed of any PYLR infections that occur by the annual FPMS newsletter.

The State regulations governing Registration and Certification of Deciduous Fruit & Nut Trees were amended on January 30, 1984. In the new version, methods used to qualify plants for Foundation status are described in detail, so all using the material can find out which indicator plants were used and the diseases inspected for. Anyone interested can obtain a copy of the new regulations by writing to Roy Matsumoto, Pest Exclusion-Nursery Services, 1220 N Street, Sacramento, CA 95814.

The Certified seed harvest was very good this year. Still available from FPMS are limited quantities of Certified Lovell and Nemaguard peach, Myrobalan plum, and Mazzard cherry seed. To order, please complete the enclosed order form, and send it to FPMS as soon as possible. All seed is now being sold on a first-come, first-served basis.

By next season, our new seed tree orchard will be 3 years old, and we are expecting to see the first fruit on the trees. If so, we may have a small quantity of seed of the new peach rootstock just released by USDA called Nemared. To order seed for the 1985 season, orders should reach FPMS before July 15, 1985.

The Foundation Orchard will be pruned this year starting December 1st. Any budwood orders for tree material should be sent to FPMS before that date. Upon request, pruning of a selection will be delayed and scion wood harvested later in the season.

GRAPEVINE PROGRAM REPORT

Registration on a few grape selections was removed in January and August of 1984 for the following reasons:

Variety/Selection	Reg.Level	Block	Row	Vine	Disease or Condition
Barbera-1	FV	F	6	1-5	Mild leaf roll
Early Muscat-1	FV	B	2	1-5,7	"
Early Muscat-1	MB	TyrMO	6	3,4	"
Folle Blanche-3	FV	F	8	16	"
Folle Blanche-3	MB	TyrMO	4	38,39	"
Muscat Ottonel-2	FV	G	8	11,12	Rupestris Stem Pitting
Muscat Ottonel-2	MB	TyrMO	9	19,20	"
Seibel 10,868-1	FV	H	12	13,14	"
Sylvaner B8-4	FV	1	3	4	"
Nebbiolo Michet-1	MB	TyrN	7	1-7	"
Oppenheim 4-1 (S04-1)	FV	A	6	18-21	Fleck
Cortese-1	FV	H	7	11,12	Misidentification of Var.
Cortese-1	MB	MO	4	5,6	"

Four fanleaf-resistant rootstocks developed at UCD are expected to be released in the near future. Cuttings and mist propagated plants of these varieties will be sold by FPMS. Details as to the release date and patent status of the varieties are still to be determined.

This last season FPMS mist propagated grape plants for customers who wanted varieties in short supply. Judging from the number of requests we had, the service was a popular one, and we intend to continue it in the 1984-85 season. Most plants produced were for California growers who picked up the potted plants at FPMS, but we also had good success with a small number of orders shipped out of state. Customers interested in obtaining larger quantities than are available as hardwood cuttings of a particular variety may wish to order mist propagated plants. We hope to be able to better meet all customers needs in this way, especially when new releases are made.

Customers wishing to order hardwood grape cuttings for the 1984-85 season should send in their orders before November 15, 1984. Material available will be allocated between all who order by the 15th according to a priority system. All material will be sold on a first-come, first-served basis after that date.

NEW AND ONGOING SPECIAL PROJECTS

The New Foundation Vineyard was planted this spring on University land recently assigned to FPMS. All registered wine, table and rootstock varieties are included in the new vineyard. Two rows of *Betulaefolia* pear seed trees were also planted in the block.

The committee recently established to study the identity of a number of California grape varieties is expected to have some preliminary results available in the fall of 1985. This committee is comparing 15 important California varieties side by side with suspected European counterparts.

If any groups are interested in learning more about Foundation Plant Materials Service, they are welcome to contact the office and arrange for a tour of the facilities and plantings here at Davis. Upon request, it is also possible to have the FPMS manager or assistant manager visit your group to discuss the California certification programs, FPMS operations, record keeping, etc.

Susan Nelson-Kluk
Susan Nelson-Kluk
Manager, FPMS

SNK/clc
10/1/84