

Highlights: No More User Fees For California Grape & Tree Fruit Customers; Nursery Tax Legislation Passes; New Slide Show On Certification Programs; 7 New Registered Grape Selections Released; Foundation Strawberry Stock Now Available From FPMS

REMEMBER: GRAPE ORDERS MUST REACH FPMS BY NOV. 15, 1987 TO BE INCLUDED IN THIS SEASON'S ALLOCATION

November 1987

Number 7

FOUNDATION PLANT MATERIALS SERVICE

UNIVERSITY OF CALIFORNIA, DAVIS

NEWSLETTER

Susan Nelson-Kluk, Manager -- Mike Cunningham, Asst. Manager -- Cheryl Covert-Hirzy, AA, Editor

FPMS ANNUAL INDUSTRY ADVISORY MEETING

The 1987 Annual Industry Advisory Meeting will be held on Tuesday, November 17, 1987 from 9:00 a.m. to 3:30 p.m. At the meeting, FPMS programs for the 1986-87 fiscal year will be reviewed and recommendations made for the future. In addition, new University staff will be introduced and relevant research discussed. Anyone interested in attending should call the FPMS office at (916) 752-3590 for details by November 3rd so a place can be reserved. An annual report prepared for the meeting is available upon request.

FPMS FINANCIAL REPORT FOR 1986-87 FISCAL YEAR

In 1986-87, FPMS sold 58,090 grape cuttings, graftsticks and budsticks and 12,926 mist propagated grape plants. FPMS also sold 38,770 buds and 3,397 cuttings of fruit and nut tree material, 37,350 certified peach seeds, 68.8 lbs. certified plum seed, 122 lbs. certified cherry seed, 346.5 lbs. *P. betulaefolia* pear fruit, 44,725 cuttings and 3,660 buds of rose material. Total income in 1986-87 was \$133,973.56. Total expenditures were \$210,129.46, leaving a net deficit for the year of \$76,155.90. This reduces the program's accumulated reserve to a balance of \$147,361.62.

After review and approval by our technical advisory committees, prices for all FPMS material were increased by approximately 25% on October 1, 1987 to cover part of the projected deficit for 1987-88. Recent legislation, described at the top of the next page, is expected to provide funds that will make up the remainder and help FPMS to regain its self-supporting status.

REGISTRATION & CERTIFICATION PROGRAMS

New Slide Show Describes Certification Programs

Instructional Media at UCD is preparing a slide show and companion audio tape describing the CA Fruit & Nut Tree, Grapevine and Strawberry certification programs. The show includes: methods of virus disease spread and detection, virus disease symptoms and consequences, charts with the steps for each certification program and the role of FPMS in certification programs. Call FPMS office for information on availability.

Nursery Tax Legislation Passes

In September 1987 the California State Legislature passed and the Governor signed into law Assembly Bill #2655. It creates an assessment of 1/4 of 1% on the gross sales of all pome and stone fruit trees, nut trees and grapevines sold in California for a five-year period. Funds collected will go to support State certification programs and FPMS programs for grapevines and fruit and nut trees. The Governor has appointed a Fruit Tree & Grapevine Improvement Committee to advise the Director of Agriculture on distribution of these funds. The Committee will meet for the first time at a public meeting to be held November 12, 1987. Anyone interested in attending should contact Donald Dilley at the California State Dept. of Food & Agriculture Nursery Program for details (phone 916-445-2388).

This tax was designed to replace user fees in California, which have proved to be inadequate, unequitable and difficult to collect in recent years. It will provide a fair and stable funding base for FPMS grapevine, fruit & nut tree programs in the future.

Plant Pathology Specialist

Interviews are now in progress for a Plant Pathology Specialist that will provide technical support for all of FPMS' clean stock programs. The new person is expected to be on the job sometime around the first of the year.

FPMS GRAPE PROGRAM REPORT

New Chairperson for UCD Viticulture & Enology Department

On July 1, 1987 Dr. Michael Mullins took over as Chairperson of the Viticulture & Enology department at UC Davis. He comes to Davis from his previous appointment as Dean of Agriculture and Professor of Horticulture at the University of Sydney, Australia. Dr. Mullins has been working in Australia on the physiology of grapevines for 23 years. A graduate of the Universities of Reading, Cambridge, London and Oxford, he went to Australia in 1964 as a plant physiologist specializing in the hormonal regulation of flowering and fruiting in grapevines, to join CSIRO's Division of Horticultural Research. He has been a pioneer in the application of biotechnology to the genetic improvement of grapevines, and has enjoyed a close association with the horticultural and wine industries in Australia. He has also been involved with French viticulture for many years. In 1977 he worked at the Station de Recherche de Viticulture, INRA, Pont-de-la-Maye (Bordeaux) and has taught viticultural science in the Diplome Nationale D-Oenologue at the University of Dijon, Burgundy. In addition to his other responsibilities, Dr. Mullins will serve as a technical advisor to FPMS.

New USDA Research Plant Pathologist At UCD

In August, 1987 Dr. Deborah A. Golino came to UCD from UC Riverside, where she was a research plant pathologist with the Boyden Fruit and Vegetable Insects Laboratory. Her assignment at Davis includes research on virus and virus-like diseases of grapes. Dr. Golino received her PhD in Plant Pathology from UC Riverside and, in her assignment at the Boyden Lab, performed basic and applied research on arthropods that transmit pathogens of fruit trees. She has been appointed to serve on the FPMS Grapevine Technical Advisory Committee.

Funding From Winegrowers of CA For Introduction Of Selected Winegrape Clones

Winegrowers of California has awarded \$19,499 to FPMS for a project to import, index and, if necessary, treat for elimination of disease, selected winegrape clones from European sources which have already been evaluated for viticultural and enological characteristics in Europe. The objectives of this project are to: (1) increase opportunities for manipulating wine style and complexity within varieties, (2) extend the range of environments particular varieties are suited to, (3)

shorten time required to evaluate new material, (4) provide a germplasm pool researchers can use as reference when checking vines for trueness to type, (5) make it possible to compare California and European wines made from fruit of the same clones, and (6) help researchers to find out if healthy selections of superior clones will produce high yields and superior wine quality. Information about the new clones will be distributed from FPMS and UC Cooperative Extension, and qualified material will ultimately be distributed by FPMS as California Foundation stock.

New Grape Selections Available From FPMS

New grape selections added to the registration program this season include: Nebbiolo Lampia, Ruby Cabernet, Saint Macaire, Sauvignon Gris, Sultana Crimson, Trebbiano Toscano and Viognier. Foundation stock of these varieties is available in the coming 1987-88 dormant season. Be sure to place orders before the November 15th deadline for these high-demand items.

Several selections found to be infected with leaf roll virus were removed from the program in January 1987:

Blackrose-2	Mission-5
Helena-2	Tannat-2
Khandahar-1	Teroldico-1
Lagrein-1	

Currently there are no additional registered selections of Helena-2 and Teroldico-1. For all other varieties affected, there is at least one additional registered selection available.

Update on UC Fanleaf Resistant Grape Rootstocks 039-16 and 043-43

Extension Viticulturist Jim Wolpert, in cooperation with Norman Ferrari, has prepared a summary of the latest information for grafting and rooting 039-16 and 043-43 stock. Copies are available from Jim Wolpert at the Viticulture Extension Office, UCD, Davis, CA 95616.

FPMS FRUIT & NUT TREE PROGRAM REPORT

Peach Yellow Leaf Roll Infected Tree Identified In Foundation Orchard

During a fall inspection of the Foundation Orchard, one Lovell peach seed tree was found to be infected with Peach Yellow Leaf Roll. The tree was immediately removed from the orchard. Since this is not a seed-transmitted disease, there will be no effect on peach seed harvested.

Foundation Orchard To Be Repropagated

FPMS is currently repropagating the Foundation Orchard to replace aging trees and to bring our planting up to date with nursery needs. Removal of older blocks of trees has begun this fall. Using recommendations of UC pomologists, as well as industry people, a list of candidate varieties for replanting in the orchard is being compiled. Propagation of trees will begin in May, 1988 and, after land preparation procedures are complete, planting will be in winter-spring 1989. Any suggestions as to selections for inclusion in the new plantings are welcome.

1987 Fruit Tree Seed Supplies

FPMS currently has certified seed of several fruit tree varieties available for distribution on a first come, first served basis. 1987 seed remaining for sale includes approximately 18,000 seeds of Lovell Peach, 26,000 seeds of Nemared Peach, 75,250 seeds of Nemaguard Peach and 100 lbs. of Mahaleb Cherry seed. All Mazzard Cherry and Myrobalan Plum seed has been sold out this season. An order form and price list are enclosed for this purpose.

Report On Results Of Certified Peach Seed Germination Trials

Last fall, FPMS sent Lovell and Nemaguard peach seed samples to five nurseries who agreed to plant it with their commercial seed lots and compare germination rates. Observations made during visits to the nurseries this spring showed: (1) Nemaguard seed from FPMS and commercial sources germinated at a consistently high rate (95-98%) at all five nurseries and (2) commercial Lovell seed at four out of the five nurseries and seed from FPMS germinated at a relatively low (60-70%) rate. The fifth nursery had good (about 90%) germination in their commercial seed, but FPMS seed still germinated at a lower rate. This could have been due to different growing conditions between seed lots at the fifth nursery.

Efforts are continuing at FPMS to discover the best seed handling techniques for optimum Lovell seed germination. This year we are running trials in our nursery to compare several seed stratification and planting methods.

Hybrid Pistachio Seed Available For Sale

FPMS will again have a good supply of P. lentiscus X P. integerrima hybrid pistachio seed available for sale this fall at a price of \$1.00 per seed. This hybrid seed was developed by Dr. Lee Ashworth at the Kearney Agricultural Center. Preliminary tests indicate a high degree of verticillium wilt resistance. Testing is now underway to check for cold tolerance and ability to survive bareroot transplanting. Parent trees have not been treated or tested for virus disease. If you are interested in ordering this seed, please contact our office at (916) 752-3590 to obtain the necessary ordering information. All profit from seed sales will be used to fund further pistachio research.

New UCD Pomology Staff Members

Two new members of the UCD Pomology Department have recently been appointed to serve on the FPMS Fruit & Nut Tree Technical Advisory Committee.

Dr. Tom Gradziel, Assistant Professor and Pomologist, is currently working on breeding and analysis of Prunus species, particularly peach and almond. He received his PhD from Cornell University, where he worked on intergeneric gene transfer from Solanum lycopersicoides to tomato. He has also done post-doctoral research with genetic transformation of whole cells at New York State Agricultural Experiment Station and worked with rice-based multiple cropping systems in the Philippines.

Dr. Steve Southwick is the new Pomology Extension Specialist working with apricots, cherries and prunes. He received his Bachelors degree from Cornell University in Agriculture & Life Sciences and his Masters degree from the University of Florida studying general horticulture and plant physiology in Citrus. He has studied strawberry plant physiology at Washington State University at Pullman, run a private business managing 1500-2000 acres of Citrus in Florida, and worked for Dupont as Assistant to the Director of Research & Development for agricultural chemicals in the Northeastern United States. He finished a PhD at the University of Florida working on water stress effects on flowering response in lime trees.

FPMS STRAWBERRY CLEAN STOCK PROGRAM

FPMS is now producing and selling California Foundation Strawberry stock plants of 17 different UC patented strawberry varieties. They are produced from virus indexed mother plants using thermotherapy and meristem tip culture. FPMS will supply plants in vitro or in small pots. Contact the office directly for more information.

FOUNDATION SEED & PLANT MATERIALS SERVICE
University of California
Davis, California 95616

Registered Grape Varieties

This material is collected from vines in the Foundation Vineyard. It has been indexed and meets the requirements of the California Department of Food and Agriculture's Registration and Certification Program for Grapevines.

When supplies of registered material are limited, priority will be given to participants in the Grapevine Registration and Certification Program.

All orders must be received by November 15th each year for consideration in the allocation process. After November 15th, orders will be filled on a "first come, first served" basis.

<i>TABLE/RAISIN</i>		<i>ROOTSTOCK</i>													
Alden Almeria Anab-E-Shahi Autumn Black Beauty Seedless Black Corinth Black Damascus Black Malvoisie Black Prince Blackrose Bronx Seedless Burgrave Calmeria Campbell Early Canner Cardinal Catawba Christmas Concord Dattier Delight Diamond Dizmar Duchess Early Muscat Emerald Seedless Emperor Exotic Ferdinand de Lesseps Fiesta Flame Seedless Flame Tokay Gasconade Gold	Himrod Hunisa Hussiense Isabella Italia July Muscat Khandahar Katta Kourgane Kishmishi Loose Perlette Malaga Monukka Muscat of Alexandria Muscat Flame Muscat Hamburg New York Muscat Niabell Niagara Olivette blanche Ontario Pierce Queen Red Malaga Ribier Rish Baba Romulus Ruby Seedless Schuyler Seneca Suavis (IP 365) Thompson Seedless Thomuscat	Couderc 1202 Couderc 1613 Couderc 1616 Couderc 3309 Dog Ridge Foex 33 EM Freedom Ganzin 1 (AXR #1) Harmony Kober 5BB LN 33 Millardet & de Grasset 41B Millardet & de Grasset 420A Millardet & de Grasset 101-14 Oppenheim 4 (S04) Richter 99 Richter 110 Riparia Gloire Saint-George Salt Creek Teleki 5A Vitis rupestris Constantia	<div style="text-align: center; border-top: 1px solid black; border-bottom: 1px solid black; padding: 5px 0;"><i>PATENTED*</i></div> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; border-bottom: 1px solid black;"><i>Table</i></th> <th style="text-align: center; border-bottom: 1px solid black;"><i>Wine</i></th> </tr> </thead> <tbody> <tr> <td>Blush Seedless</td> <td>Carmine</td> </tr> <tr> <td>Centennial Seedless</td> <td>Carnelian</td> </tr> <tr> <td>Christmas Rose</td> <td>Centurion</td> </tr> <tr> <td>Dawn Seedless</td> <td>Symphony</td> </tr> <tr> <td>Redglobe</td> <td></td> </tr> </tbody> </table> <div style="text-align: center; border-top: 1px solid black; border-bottom: 1px solid black; padding: 5px 0;"><i>Rootstock</i></div> 039-16 043-43	<i>Table</i>	<i>Wine</i>	Blush Seedless	Carmine	Centennial Seedless	Carnelian	Christmas Rose	Centurion	Dawn Seedless	Symphony	Redglobe	
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Dawn Seedless	Symphony														
Redglobe															

*FSPMS can sell patented items only to those having signed license agreements with the University. For information concerning becoming a licensee, contact: Mr. Robert Fissell, Patent, Trademark & Copyright Office, Office of the President, 2150 Shattuck Ave., Suite 1000A, University of CA, Berkeley, CA 94720, telephone (415) 642-5000.

WINE

Aleatico	Nebbiolo fino
Alicante Bouschet	Nebbiolo Lampia
Aligoté	Orange Muscat
Alvarelhao	Palomino
Aramon	Pedro Ximenes
Baco blanc (22A)	Petit Bouschet
Burger	Petite Sirah
Cabernet franc	Peverella *
Cabernet Sauvignon	Pinot noir
Calzin	Pinot Saint-George
Carignane	Primitivo di Gioa
Charbono	Red Veltliner
Chardonnay	Refosco
Chasselas doré	Rkatsiteli
Chenin blanc	Royalty
Clairette blanche	Rubired
Early Burgundy	Ruby Cabernet
Emerald Riesling	Saint-Emilion
Feher Szagos	Saint-Macaire
Fernao Pires	Salvador
Flora	Sangiovese
French Colombard	Sauvignon blanc
Fresia	Sauvignon gris
Furmint	Sauvignon vert
Gamay	Scarlet
Gewurztraminer	Seibel 5279
Grand noir	Seibel 9110
Gray Riesling	Seibel 13053
Green Hungarian	Sémillon
Green Veltliner	Servant
Grenache	Shiraz
Grillo	Souzao
Helena	Sultana Crimson
Inzolia	Sylvaner
Lagrein	Tannat
Lambrusco de Salamino	Teroldico
Malbec	Tinta Madeira
Malvasia bianca	Tinto cao
Mataro	Touriga
Melon	Traminer
Merlot	Trebbiano Toscano
Meunier	Trousseau
Mission	Valdepenas
Montua de Pilas	Viognier
Muscadelle du Bordelais	Walschriesling
Muscat blanc	White Riesling
Muscat Ottonel	Zinfandel
Muscat Saint-Vallier	
Nebbiolo	

*To order a Gamay Beaujolais selection of Pinot noir, please specify "Pinot noir GB" on the order form.

Two publications are available from FPMS for \$5.00 each offering additional information on FPMS registered grape selections:

"FPMS Registered Grape Selections--Source, Heat Treatment and Disease Indexing Information" AND

"FPMS Registered Grape Selections in Calif. Registered Increase Blocks By Variety and By Nursery"

FOUNDATION SEED & PLANT MATERIALS SERVICE
University of California
Davis, California 95616

Registered Varieties -- Foundation Orchard

This material is collected from trees in the Foundation Orchard. It has been indexed and meets the requirements of the California Department of Food and Agriculture's Registration and Certification Program for Deciduous Fruit and Nut Trees.

When supplies of registered materials are limited, priority is given to participants in the Registration and Certification Program for Deciduous Fruit and Nut Trees.

VARIETY	ACCESSION #	VARIETY	ACCESSION #
<u>ALMOND</u>		<u>NECTARINE</u> *	
Davey	3-1-1-63	Fantasia	9-1-1-70
Drake	3-2-1-69	Flamekist	9-2-1-70
Jordanolo	3-3-1-70	Flavortop	9-3-1-70
Kapareil	3-4-1-63	Independence	9-4-1-63
Milow (12-38)	3-17-1-67	John Rivers	9-5-1-63
Ne Plus Ultra	3-7-2-72		
Nonpareil	3-8-2-70	<u>PEACH</u> *	
	3-8-5-72	Andora	10-1-1-72
	3-8-6-72	Andross	10-2-1-63
	3-8-7-72	Bowen	10-3-1-70
Padre	3-29-1-75	Carolyn (G)	10-6-1-64
	3-29-2-75	Carolyn (R)	10-6-2-70
Peerless	3-10-1-63	Carson	10-5-1-71
	3-10-2-70	Corona	10-8-3-70
Solano	3-14-1-63	Early Muir	10-14-1-70
Sonora	3-15-1-70	Elberta	10-15-2-70
Texas (Mission)	3-6-2-71	Everts	10-16-2-63
Thompson	3-11-1-72	Fairtime	10-17-1-70
Titan	3-25-1-72	Fay Elberta	10-18-2-64
Vesta	3-26-1-72	Fayette	10-19-1-63
		Fortuna	10-20-2-63
<u>APRICOT</u>		Halford	10-25-1-63
Moorpark	4-2-1-63	Herrington	10-26-1-70
Royal	4-4-1-63	J.H. Hale	10-28-1-67
	4-4-2-63		10-28-2-70
Tilton	4-5-1-70	Johnson	10-29-2-63
		Klamt	10-32-1-63
<u>CHERRY</u>		Loadel	10-33-1-70
Black Tartarian	6-3-2-63		10-33-2-71
Bing	6-1-5-69	Lovell (rootstock/seed)	10-34-1-63
Chinook	6-4-1-69		
Early Burlat	6-6-2-72		
English Morello	6-21-1-73		
Lambert	6-8-1-63		
Larian	6-9-1-63		
Mazzard (seed)			
Meteor	6-23-1-73		
Montmorency	6-12-1-63		
	6-12-2-63		
Napa Long Stem Bing Sdng. #2	6-26-1-73		
Napoleon (Royal Ann)	6-14-1-63		
Rainier	6-15-1-69		
Sam	6-16-1-69		
Stella	6-19-1-72		
Stockton Morello	6-18-1-63		
Sue	6-17-1-69		
Van	6-20-1-63		
Mahaleb (rootstock/seed)			

* Foundation tags for registered peach and nectarine material are available upon request to nurseries establishing registered increase blocks. Issuance of tags, however, is delayed until the end of the growing season of the year following sale of material so that budwood trees can be inspected for peach yellow leaf roll in the interim period. Nurseries who plan to use budwood to produce trees for a registered increase block must notify CSDFA Nursery Services (916) 445-8314 upon receipt of material. This procedure was adopted at the request of the CSDFA.

VARIETY	ACCESSION #
<u>PEACH (continued)</u>	
Merriam	10-39-1-70
Monaco	10-40-1-71
Nemaguard (rootstock/seed)	10-42-1-63
Red Globe	10-45-1-70
Red Haven	10-46-2-63
Regina	10-48-1-68
Springcrest	10-50-1-70
Stanford	10-53-1-71
Starn	10-51-2-71
	10-51-3-71
Sullivan #4	10-54-1-70
	10-54-2-71
Summerset	10-55-1-63
Sweeney	10-57-1-71
Tufts	10-58-1-70
Wiser	10-61-1-70

PEAR (Non-Registered)
P. betulaefolia (fruit)

PLUM & PRUNE

Black Amber	12-50-1-78
El Dorado	12-7-1-66
French Prune	12-9-1-63
	12-9-2-63
	12-9-3-63
Friar	12-10-1-63
Frontier	12-11-1-63
Imperial	12-13-2-70
Italian Prune	12-35-1-73
Kelsey	12-14-3-70
Laroda	12-17-1-63
Marianna 2624	12-18-1-63
Mariposa	12-16-1-63
Myrobalan 29C	12-21-1-70
	12-21-2-70
Myrobalan 2261 (budwood/seed)	12-21-4-70
Myrobalan 2216 (budwood/seed)	12-21-3-70
Myrobalan 2201 (seed)	12-21-5-70
Nubiana	12-22-2-64
President	12-23-1-70
Queen Ann	12-24-2-63
Queen Rosa	12-30-1-70
Santa Rosa	12-25-2-63
Satsuma	12-26-1-65
Shiro	12-36-1-73
Stanley	12-27-1-65
Wickson	12-29-1-63

FLOWERING CHERRY

P. serrulata	
Kwanzan	7-8-1-65
Shirofugan	7-20-1-66

FLOWERING PEACH

P. persica	
Double White	11-1-1-67
Early Double Pink	11-2-1-67
Early Double Red	11-3-1-67
Helen Borchers	11-4-1-67
Late Dark Red	11-5-1-67

VARIETY	ACCESSION #
<u>FLOWERING PEACH (continued)</u>	
Late Double Red	11-6-1-67
Late Pink (semi-double)	11-7-1-67
Peppermint	11-8-1-67
White (semi-double, late flowering)	11-9-1-67

FLOWERING PLUM

P. cerasifera	
Atropurpurea (Pissardi)	13-2-1-67
Krauter Vesuvius	13-1-1-63
Thundercloud	13-3-1-67

APPLE

Delicious	15-4-1-73
East Malling 26 (rootstock)	15-6-1-73
Golden Delicious	15-7-1-73
Gravenstein	15-8-1-73
Jonared	15-10-1-73
Jonathan	15-9-1-73
Lodi	15-11-1-73
McIntosh Double Red	15-5-1-73
M.M. 106 (rootstock)	15-21-1-74
M.M. 111 (rootstock)	15-22-1-74
Rome Beauty	15-15-1-73
	15-14-1-73
Starks Earliest	15-17-1-73
Starking (Delicious)	15-16-1-73
Winesap	15-18-1-73
Yellow Delicious	15-19-1-73

PATENTED*

<u>PEACH</u>	<u>PLUM</u>
CalRed	Durado
Dr. Davis	
Firered	<u>WALNUT (Nonregistered)</u>
Kearney	Chandler
Redcal	Howard
Ross	Sunland
<u>PEAR (Nonregistered)</u>	<u>PEACH-ALMOND HYBRID</u>
California	
<u>OLIVE (Nonregistered)</u>	Hansen 536
Swan Hill	Hansen 2168

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BUDWOOD IS AVAILABLE FROM MID-MAY THROUGH THE END OF NOVEMBER EACH YEAR. PLEASE INDICATE ON THE ORDER FORM WHEN YOU WOULD LIKE THE MATERIAL SUPPLIED.

SEED ORDERS MUST BE RECEIVED NO LATER THAN JULY 15 EACH YEAR FOR CONSIDERATION IN THE ALLOCATION PROCESS.

FOUNDATION PLANT MATERIALS SERVICE

University of California, Davis, CA 95616 (916/752-3590)

TELEX: TWX 910531 0785 UC DAVS

PRICELIST

Revised 10/01/87

GRAPE MATERIAL

Available in units of 12"-14" unrooted:

†**CUTTING:**



For growing rooted plants, the proximal cut is flat and adjacent to the bottom bud, while the distal cut is slanted at an internode. The regular #1 size is larger than 1/4", but not more than 3/4" in diameter. If the supply is short, one may wish to indicate acceptance of #2 size (1/4" in diameter) and/or #3 size (less than 1/4" in diameter). These are sold at a reduced amount; however, they may be more difficult to grow. PLEASE NOTE THAT ONLY CUTTINGS ARE SOLD IN THE ABOVE-MENTIONED THREE SIZES.

†**GRAFTSTICK:**



For grafting to a rootstock variety, both cuts are flat and at the internode. These are 3/8" and 1/2" in diameter (approximately 4 buds per stick).

†**BUDSTICK:**



For budding to a rootstock variety, both cuts are flat and at the internode (approximately 4 buds per stick), with 1/4" to 3/8" diameter.

†If an unspecified size is desired, please indicate the preferred diameter on the order form and FPMS will do its best to accommodate.

Registered and Non Registered Material*

5 to 49 units/variety	\$ 1.50 each
50 to 99 units/variety	1.25 each
100 to 499 units/variety	1.00 each
500 to 4999 units/variety75 each
5000+ units/variety60 each

*#2 & #3 size cuttings can be supplied at slightly reduced rates

Pollen	\$ 31.25/ packet
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List Propagated Grape Plants

5 to 99 plants/variety	\$ 3.75 each
100+ plants/variety	2.50 each

TREE FRUIT MATERIAL

Individual Bud*	5 to 99 units/variety	\$.40 each
(supplied in 12" - 14" cuttings)	100+ units/variety20 each
Walnut Wood		1.00/foot

*Please specify diameter of wood desired. If you wish to cut your own budwood, please call FPMS to make arrangements.

SEED

Mahaleb Cherry	\$ 23.75/pound
Mazzard Cherry	22.50/pound
Lovell Peach095/seed
Nemaguard Peach095/seed
Myrobalan Plum	15.00/pound
Betulaefolia Pear (uncleaned fruit)	8.00/pound
Betulaefolia Pear (cleaned seed)	50.00/ounce
Hybrid Pistachio (P. lentiscus x P. integerrima)	1.00/seed
Persimmon095/seed

ROSE MATERIAL

Rose Variety	5 to 99 units/variety	\$.30/bud
	100+ units/variety20/bud
** Rose Rootstock	5 to 99 units/variety30/8" cane
	100+ units/variety20/8" cane

** DEFOLIATED CANES ARE PROVIDED. GROWER WILL DETHORN, DEEYE AND MAKE INTO CUTTINGS.

CUSTOM HEAT TREATMENT & INDEXING SERVICES

Shirofugan indexing only	\$ 5.00/item
Custom heat treatment & indexing to qualify material for inclusion in CA Registration & Certification Program	
Public Variety	200.00/item
Proprietary or patented variety	1,000.00/item
Maintenance of proprietary selection in Foundation Vineyard, Foundation Orchard or FPMS Rose Block	25.00/year/item

PUBLICATIONS AVAILABLE

1. *FPMS Registered Grape Selections*: A list of all currently registered grape selections, their sources, recent disease indexing history, and number of days in heat treatment\$ 5.00 each
2. *FPMS Registered Grape Selections By Nursery*: A list of grape selections included in CA Registered Increase Blocks by participating nursery and by specific grape variety and selection number; names, addresses and phone numbers of participants are included 5.00 each

A minimum amount of \$25.00/order is required. The minimum order quantity is 5 units per variety.

California sales tax will be added where applicable, unless a tax exempt resale number is indicated on the order form (issued by State Board of Equalization). All wood is taxed; seed is not taxed.

All shipping costs will be added to the price of the material. In addition, packing and handling charges will be made as follows:

- Orders shipped WITHIN CALIFORNIA, 10% of order cost.
- Orders shipped OUTSIDE CALIFORNIA (WITHIN U.S.A.), 20% of cost.
- Orders shipped OUTSIDE U.S.A., 25% of order cost.

At customer's request, material will be packed in a styrofoam ice chest for an additional charge of \$5.00 per chest.

All foreign orders will be shipped by a forwarding company, with the customer paying all fees. Up to 20% of shipping and forwarding fees will be charged as a service charge.

Prepayment of 50% on all U.S. orders is required; 100% of cost of materials plus shipping, packing, handling and service charge for foreign orders. Prepayments on all foreign orders must be made via a bank draft from a U.S. bank (U.S. currency), payable to The Regents of the University of California. NO LETTERS OF CREDIT WILL BE ACCEPTED. PLEASE SEND ALL CORRESPONSE TO FPMS, UNIVERSITY OF CALIFORNIA, DAVIS, CA 95616. FPMS reserves the right to retain prepayments for cancelled orders.

ALL MATERIALS ARE SHIPPED F.O.B. DAVIS, CALIFORNIA. BUYER AGREES TO PAY ALL COSTS OF TRANSPORTATION AND ASSUMES ALL RISK OF LOSS DURING SHIPMENT.

Prices are subject to change without notice.