

Sponsored Student Program

EFFECTIVENESS OF SEVERAL MULCHING METHODS FOR ORGANIC VEGETABLE GARDENING

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The four techniques of mulching that were used on cabbage grown during the winter are clear plastic, pine straw, news-

paper, and an annual ryegrass living mulch. The control was no mulch. The speaker suggested that there was a tendency for heat to accumulate underneath the clear plastic. With the newspaper mulch, he suggested that dyes could prove to be harmful when they ran off. It was interesting to note that in the results that were presented, the control group did not vary significantly with the mulches.

THE RELANDSCAPING OF SOUTH DADE COUNTY

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In August of 1992, Hurricane Andrew swept through south Florida, taking with it most of the beautiful natural and man-made landscapes. When homeowners finally had the time and money, a massive relandscaping project began. Homeowners and garden center employees were interviewed to see what plants were being used.

Annuals were being planted heavily to provide color to the otherwise bleak surroundings. Large trees were also planted to restore the protection and privacy that were removed by the storm. Fruit trees, vines, and other fast growing or dense plants were used.

Although, most of the yards were not destroyed by the hurricane itself, cleanup and repair efforts took their toll on much of the turf in the area. Because of this, Floratam was also planted heavily. Due to the financial impact on the area, there have been many inquiries into xeriscaping and use of landscapes that are more energy efficient.

RESPONSE TO: SPREAD OF TRISTEZA AND THE BROWN CITRUS APHID IN THE CARIBBEAN BASIN—A POTENTIAL DUAL THREAT TO THE FLORIDA CITRUS INDUSTRY

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Many hours of research, many lines of print, and many more dollars have been, and will be used, to predict the arrival of the brown citrus aphid (BCA). Its movement has been tracked through Mexico, the Caribbean basin, and now its arrival to Cuba. Its movement, in itself, is not so remarkable. It is the threat of the introduction of the severe strain of the citrus tristeza virus (CTV) that worries growers and has prompted a flurry of activity in the research community.

Assuming the arrival of the BCA and severe strains of CTV are inevitable, a program for first detection is required. Such a program will require large amounts of funding, coming from growers and taxpayers. Efficient use of these funds is paramount, since the coffers are not bottomless. Understanding the most probable movement of the vector, its migrating limitations, and the likely hosts for its transportation will allow for effective expenditure of funds. Such precautions will not, in all likelihood, stop the introduction of either the BCA or the spread of severe strains of CTV. It will deter, or at least delay, for a time, the introduction, allowing researchers time to find effective means for control for both vector and virus.

POTENTIAL OF FEIJOA

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This presentation outlined the use of the Feijoa as both a fruit crop and an ornamental. The species is native to Uruguay. The fruit is known for its fine flavor and good keeping quality. The shrub is known to be quite hardy, but won't flower or

bear fruit below St. Petersburg, which is thought to be due to a lack of adequate chill hours. The Feijoa is currently propagated from seed but attempts are being made to successfully graft. The two most common varieties planted are 'Task' and 'Coolidge', and the largest plantings are in the Brooksville area. Although Feijoa is of little value as a fruit crop in southern Florida, it does exhibit good potential as a landscape hedge plant.

IS IT TIME TO DEVELOP A NEW SYSTEM FOR GROWING STRAWBERRIES IN FLORIDA?

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For the last twenty years, Florida strawberry growers have been using the raised bed plasticulture system. Craig T. Chandler is proposing a system that could eliminate most of the problems that exist today with the present system.

Today's strawberry production problems are ones that are in need of some changes. Chandler described seven main problems with the old system. They are: the plastic used on the beds and the disposable problem of the plastic; methylbromide, which will eventually be removed from the market;

availability of water; the use of fungicides and their availability; labor; shelf life of the strawberry varieties; and the last problem is that strawberries are a horizontal system and they take a lot of space.

Column growing is now under experimentation according to Chandler. His proposal is to have a system that is vertical. The advantage of this system is that you can get more fruit per acre, requires no plastic film, there are better spraying conditions, may require less labor, and the fruit can be transported immediately.

In summary, Chandler says that the old system is no longer good and that his proposal for a new system is one that has many advantages. If this works, it seems possible that larger crops of strawberries can be produced on less land.

INTERNATIONAL RESEARCH LINKAGES BENEFIT FLORIDA CITRUS INDUSTRY

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The global citrus industry is constantly bombarded with new information and innovation. New grove caretaking methods are being utilized in all citrus-producing countries.

New citrus pests are being discovered and studied as well. Dr. Walter J. Kender suggests that citrus researchers and scientists interact with scientists from other countries. He cited several examples showing how sharing information with other countries has been of help to the U.S. citrus industry. Dr. Kender expects that sharing information in the future will be a great benefit to the industry as a whole.

ORGANOGENESIS IN TISSUE CULTURES OF *AVERRHOA CARAMBOLA* L. 'ARKIN'

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The purpose of this experiment was to perform the regeneration of carambola (*Averrhoa carambola*) in vitro. The carambola or star fruit now has large economic importance in Florida. Carambola cultivars are usually propagated by veneer grafting onto seedling rootstocks. Carambola cultivars have different oxalic acid levels. 'Arkin' is a sweet variety that is low in oxalic acid. Success in vitro propagation of 'Arkin' could be very important in the availability of new cultivars. Vitro propagation has not been very successful in the Oxalidaceae family (carambola's family). In this study an identical match

of the variety 'Arkin' was attempted using vitro propagation from somatic tissues. For preparation of explants, leaflets were taken from new vegetative flushes of container-grown 'Arkin' in mid-summer.

After 26 weeks shoot regeneration was evaluated. The study showed that shoot organogenesis from callus of young leaves ('Arkin') depends on a number of factors. The most important factors are (a) the balance of plant growth regulators for callus initiation and shoot induction; (b) leaflets should be selected in summer months since earlier studies have shown to be unsuccessful in the winter and (c) cytokinin preconditioning was a necessary factor for success in vitro regeneration.

THE INFLUENCE OF CULTIVAR AND HIGH NITROGEN AND POTASSIUM FERTILIZATION ON FRUIT QUALITY TRAITS OF YOUNG ORANGE TREES

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There have been substantial increases in Hamlin, Valencia, and Navel oranges since 1986. Ambersweet planting began in 1990. Growers have these trees on a young tree fertilization program which usually have high levels of nitrogen and potassium. This in conjunction with supplemental irrigation provides for maximum growth of young trees. These high nutrition levels promote vigorous vegetative growth and poor quality.

The emphasis of the grower has been shifting from fruit for processing to fresh fruit. There is a problem with this because

fruit quality on young trees is poor, especially on varieties such as Navel, Valencia, and Ambersweet. Young Ambersweet has been extremely poor quality but is beginning to improve. For this change of emphasis to work, the growers must have better management practices. They must consider cultivar, tree age, desired vegetative growth, and production potential. They should change from a young tree program to a bearing tree program by the time the tree reaches seven years of age. This should promote better fruit quality since the maturity standards were developed using fruit from trees eight years or older.

In order for growers to effectively produce high quality fruit for fresh use they must make sound cultural management decisions especially concerning fertilization in order to produce a good quantity of high quality fruit.

ECONOMIC AND ENVIRONMENTAL ADVANTAGES AND DISADVANTAGES OF GRASS CLIPPINGS

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A report that I had particular interest in was on grass clippings. A two-year study was done on the economic and environmental advantages and disadvantages of collecting grass clippings and mulching with lawn mowers. It clearly appeared advantageous to use mowers with mulching blades instead of collecting clippings with rear or side baggers to be

collected by sanitary officials. Those who keep their grass clippings for landfills increase the landfills greatly each year.

Those involved in the study were encouraged to not collect their grass clippings and were provided with mowers with mulching blades. After two years their studies found a definite advantage in mulching. One advantage is the obvious reduction of landfill space occupied by grass clippings. Another advantage was the improvement of the soil organic matter from the decayed grass clippings. Other clear advantages of mulching were the decrease of wear and tear on lawn equipment and the reduction of cost for trash bags. Mulching mowers also showed an increase in gas mileage.

IMPACT OF HURRICANE ANDREW ON TROPICAL FRUIT ACREAGE IN DADE COUNTY

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Hurricane Andrew hit Dade County on August 24, 1992. It devastated much of the tropical fruit crops. Growers observed

there were more trees in some groves remaining upright after the storm than others. It was determined that the trees that were topped and hedged had a higher survival rate than those that were not hedged or topped. The results encouraged growers to practice tree site control to decrease tree damage during a hurricane.

IMPACT OF HURRICANE ANDREW ON TROPICAL FRUIT ACREAGES IN DADE COUNTY

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The tropical fruit crops in Dade County experienced severe damage from Hurricane Andrew that occurred on August 24, 1992. Damage was so extensive that the biennial survey of the Florida Agricultural Statistics Service was postponed. The destruction of avocados, limes and mangoes was phenomenal.

The avocado trees suffered some losses but have been rehabilitated within the year following the storm. Marcotted trees that blew over were pruned and pulled back up. Budded trees that were blown apart at the bud union were replanted.

Of the tropical fruits affected, limes suffered the most. Many of the lime trees were literally wiped out. The acreage in limes dropped from 6,071 acres in 1990 to 1,668 in 1992. Lime production will require the planting of many more trees in the near future.

Mango trees were decreased by forty-two percent as a result of Andrew. In acreage, mangoes were reduced by nine percent from 1990 to 1992. It is estimated that thirty-five percent of the trees, five years or older, were blown over during the hurricane. In the next few years a reduction in yields will occur as a result of the hurricane.

It is going to take years of rehabilitation before this major tropical fruit area in Dade County will return to its past production.

CONSERV II RECLAIMED WATER FOR CITRUS IRRIGATION

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The use of municipal wastewater on crops intended for human consumption is a concern of many consumers, so research was conducted to find the long term results of applying municipal wastewater to agriculture crops. Mature citrus trees were used in Lake and Orange counties. Tests were conducted for a six-year period before a conclusion was reached. The municipal wastewater was compared with well water in terms of soil water content, soil chemical analysis, leaf mineral status and fruit quality.

The municipal wastewater produced a higher mineral residue in the soil, altered the leaf mineral content, the trees seemed to be healthier, and weeds were a greater problem as compared with that of the well-watered trees. Municipal wastewater can supply a citrus tree with all the needed P, Mg, and B. However, the amount of N, P, and Ca in the soil was not increased enough to show a difference from that of the well water. The most important factor in using municipal wastewater is that it is free water. Free water results in more watering which has caused more weeds, larger fruit and more fruit.

After the six years of study, it was found that the municipal wastewater will have no great effect on the final product, the fruit.

EVAPORATION AND WIND: FRIEND OR FOE IN COLD PROTECTION

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The condition of 66 Ambersweet/Sour Orange, 198 Orlando Tangelo/Carrizo and 197 Robinson/Carrizo planted 15 × 20 feet in April, 1990 was recorded after the March freeze of

1993. These trees which were planted on the main campus of the University of Florida had one to three in-tree sprinklers per tree, while others had under-tree sprinklers. High winds, low dewpoints and temperatures down to 26°F led to predictions that the irrigated half would receive more damage than the non-irrigated half. However, the sprinkled blocks did not receive more damage than the non-sprinkled blocks. Certain roles of wind and humidity may deserve more attention.

BIONOMICS AND CONTROL OF THE ASIAN CITRUS LEAFMINER IN FLORIDA

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Jorge E. Pena of the IFAS, Tropical Research and Education Center, University of Florida, Homestead, presented a paper on the topic of bionomics and control of the Asian citrus leafminer, *Phyllocnistis citrella*. It was first detected in May of 1993 on the southern tip of Florida. The citrus leafminer infestations were observed on upper and lower surfaces of leaves of several

citrus cultivars, including sweet oranges, lemon, sour oranges, and on grapefruit which is apparently the preferred host. His data indicated that four or more leafminers on one leaf was considered heavy infestation. The adult citrus leafminer should be targeted and multiple sprays in conjunction with rotation of pesticides are helpful in controlling the population of the citrus leaf miner. Among the biological controls for this leafminer were spiders, ants, and other parasites. The impact of the citrus leafminer on citrus is not fully known at this time, but research of controls and results of damage from this pest are ongoing.

IMPACT OF HURRICANE ANDREW ON TROPICAL ACREAGE IN DADE COUNTY

MATT RUTHVEN
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Everyone in Florida will undoubtedly be talking about Hurricane Andrew for years to come, for many reasons. It was the costly hurricane of all time, costing insurance agencies billions of dollars and growers most or all of their groves. The destruction of avocados, limes and mangoes in particular were hit very hard.

The replanting of avocado groves and the rehabilitation has already begun. Of the three, lime trees undoubtedly suffered the worst. They were almost completely wiped out. Lime acreage was decreased by over 70% and is expected to be higher before the replanting is completed. Mangoes are expected to sustain losses of over 40%.

The losses for limes, avocados, and mangoes will not signal the end of the tropical fruit industry in south Florida, but it will take many years and even more dollars to reestablish, assuming that we can rebuild without any other natural disasters in the near future.

ARE WE APPLYING TOO MUCH NITROGEN ON OUR RIDGE CITRUS?

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It is no secret that nitrogen is the most important element when dealing with growth and yield of a citrus tree. The old school of thought has been "more is better" so the grower piled on as much nitrogen as he could afford hoping he/she can get a vigorous tree with high yields. However, recent studies have shown that applying excess nitrogen is not worth the cost, especially in the ridge area.

The deep, well-drained and sandy condition of the ridge and the high amount of rainfall in the summer results in increased leaching of nitrates in central Florida. If a grower applies an excess of nitrogen on his/her grove, it is wasted as the extra amounts are simply leached below the root zone

before the tree can use it. This extra nitrogen costs money, time, and effort to apply, thus increasing production costs with little or no increase in profits.

Another problem of excess leaching of nitrogen is groundwater contamination. The ridge soils are deep and quickly drain to the aquifer which is Florida's main source of drinking water. Recently, groundwater quality has been deteriorating due to the increase in nitrate levels. Nitrates are a human contaminant and is a serious problem considering the rapid population growth in this state.

The solution to these problems are simple. We must find a happy medium of nitrogen application that maximizes uptake by the plant and minimizes leaching from the root zone. Recent breakthroughs in formulation and application of fertilizers has helped reduce nitrate loss through leaching. Research continues to find ways to avoid leaching while not sacrificing tree and fruit quality.

MANAGEMENT OF INSECT PESTS OF SQUASH

SANDRA BETHEA
Fruit Crops
University of Florida, Gainesville

Susan E. Webb of the Central Florida Research and Education Center gave a presentation on how well standard chemical insecticides, detergent, *Bacillus thuringensis*, and mineral oil control pests of squash. These were tested either individually or in combination during the fall of 1991 and the fall of

1992. Aphids, sweet potato whitefly, pickleworm, and melonworm were the insects that these pesticides targeted. It was found that the combination of BT and mineral oil did not have an effect on aphids, while everything else was quite effective. Everything appeared to be reasonably effective on whitefly adults but only a few were effective on the eggs. BT alone worked best on the melonworm and pickleworm. In general it was found that using any of these pesticides alone or in combination lessened the population of pests on squash.

BROWN CITRUS APHID AND CTV VIRUS

DAVID ALEXANDER
Horticultural Operations Management
University of Florida, Gainesville

During my stay at the Florida State Horticultural Society Meetings in Miami, I had the opportunity to attend many papers. Of all the ones I attended, I found the ones dealing with biological control the most interesting.

In order to focus on one seminar I chose the series of seminars dealing with the brown citrus aphid and its association with the CTV virus. This is an exciting area of research and shows great promise. Specifically, I found the race scientists face against the introduction of this pest from Mexico to be a

unique challenge. The statistical analysis of projected populations in the state of Florida and its impact on the Florida citrus industry prompted me to think of the seriousness of the problem. As I talked to people from this and associated areas I discovered I had a real interest in this discipline and I have actually considered this type of research to be part of my possible graduate program.

All the experiences were helpful to gain a greater appreciation of the enormity and importance of horticulture to the state of Florida. The people I had a chance to talk to gave me valuable insight to opportunities in the various areas. My discovery of an interest in biological control may have a great impact on the focus of my education.

FACTORS AFFECTING GRAPE SOMATIC EMBRYOGENESIS

COURTNEY WEBER
Horticultural Sciences
University of Florida, Gainesville

A short summary of the presentation by M. Compton and D. J. Gray entitled, "Effects of Sucrose, ABA, and MGBG on Grape Somatic Embryogenesis."

The production of somatic embryos for their use in synthetic seed production for rapid clonal propagation has drawn much interest as tissue culture techniques have advanced through the years. In grape, the production of virus-free synthetic seed could enhance uniformity in the field and lower labor costs associated with propagation through grafting.

This paper dealt with tissue culture techniques and media formulations in order to increase somatic embryogenesis in grape culture. The tested effects of varying levels of sucrose, from 60 to 180 g/l; of ABA, from 0.1 to 100 μ M; and of MGBG, from 0.0 to 10 μ M.

It was found that sucrose at levels of 90 to 120 g/l increased the number of somatic embryos that resembled zygotic embryos; these levels also reduced embryo viability. The MGBG, however inhibited somatic embryogenic cell growth.

These results suggest that medium high levels of sucrose can promote somatic embryo formation and that possibly ABA could be used in conjunction to make more reliable and stable synthetic seed. This could be an area for further research.

**BY-LAWS
OF
FLORIDA STATE HORTICULTURAL SOCIETY, INC.
A FLORIDA NON-PROFIT CORPORATION**

ARTICLE I.

NAME

The name of the Corporation shall be Florida State Horticultural Society, Inc.

ARTICLE II.

PRINCIPAL OFFICE

The principal office of this Corporation shall be at 111 Leslie Avenue, Winter Haven, Polk County, Florida 33880.

ARTICLE III.

PURPOSES

A. To serve as an information center to collate, enhance and disseminate information in the broad field of Florida horticulture.

B. To create and publish the proceedings of the Florida State Horticultural Society to advance Florida horticulture.

C. For the advancement of charity education or any other related or corresponding charitable purpose by the distribution of its funds for such purposes.

D. The advancement and development of horticulture in the State of Florida.

E. To operate exclusively in any other manner for such charitable and educational purposes as will qualify it as an exempt organization under Section 501 C (5) of the Internal Revenue Code of 1954 as amended or under any corresponding provisions of any subsequent federal tax laws covering the distributions to organizations qualified as tax exempt organizations under the Internal Revenue Code as amended including private foundations and private operating foundations.

ARTICLE IV

PROHIBITED ACTIVITIES

Notwithstanding any other provision of these by-laws or the Articles of Incorporation this Corporation shall not conduct or carry on any activities not permitted to be conducted or carried on by any organization that shall be exempt under Section 501 C (3) or Section 501 C (5) of the Internal Revenue Code and its regulations, now existing or hereafter amended.

ARTICLE V.

MEMBERSHIP

There shall be four classifications of membership, all of which carry voting privileges; a. Annual, b. Patron, c. Student, d. Honorary (nothing in this Article shall be construed as operating against or canceling the privileges of life members accepted as life members prior to the adoption of these by-laws).

Any individual, corporate entity or partnership interested in the development and the advancement of horticulture in society shall be eligible for membership provided they agree to be bound by the Articles of Incorporation and By-Laws thereof and by such rules and regulations as may from time to time be adopted by the Board of Directors of this organization and upon the payment of the proper dues as hereinafter provided.

Section 3. Classification of members.

A. Annual Members. Annual members shall be full members of the Corporation and shall pay an annual membership fee of \$25.00.

B. Patron Members. Patron members shall be full members of the Corporation and shall pay an annual membership fee of \$100.00.

C. Student Members. Student members shall be full members of the Corporation and shall pay annual membership fee of \$5.00 per year.

D. Honorary Members. Honorary members shall not be required to pay annual membership fees and shall include those persons who prior to the adoption of these by-laws were accorded the privilege of life membership.

Section 4. Duration. All classes of membership save and except honorary shall be one year in duration and shall be required to be renewed annually by the payment of the required dues. Dues shall be payable in advance on the last day of December in each fiscal year, and will be considered delinquent after that date.

Section 5. The right of a member to vote and all of his or her other rights and interests in the organization shall cease on the termination of

his or her membership. No member shall be entitled to share in distribution of the Corporate assets upon the dissolution of the organization's corporate structure.

Section 6. Application of membership. A prospective member shall be eligible for membership upon the approval of his or her application and payment of the applicable membership fees.

Section 7. Membership Committee. The membership coordinating committee shall consist of a chairman appointed by the chairman of the board of directors, the chairman of the student affairs committee and one other member and shall have the duties of coordinating with the membership chairman of each section to develop plans for soliciting new members throughout the year and assuring that the needs of the membership are being met by the services and activities of the society.

Section 8. Resignation. Any member may resign from the organization by delivering a written resignation to the President or Secretary.

Section 9. Default and Termination. If any member shall default in the payment of dues for a period of three months from the commencement of the fiscal or calendar year for which said dues are payable his or her membership shall be terminated. Provided that notice of such action and delinquency shall have been mailed to the member at his last known address at least 15 (fifteen) days prior to the date that such action is taken and payment is not made in full before termination.

Section 10. Reinstatement. A member who has resigned in good standing may apply to the membership coordinating chairman for reinstatement.

ARTICLE VI.

MEMBERSHIP MEETING

Section 1. Annual meeting. The membership shall hold annual meetings on or about the first week of November each year at the principal office of the Corporation or such other place or places as may be determined by the Board of Directors. The date, time and place shall be set by the Board of Directors. Notice of such meeting shall be given to all members, officers and directors at their last known address at least 10 (ten) days prior to the date of the meeting. An agenda for such meeting shall be included in such notice.

Section 2. Special meetings. Special meeting of the members may be called at any time by the President or Secretary or by any 2 (two) members of the Board of Directors. Such meeting must be called by the President or Secretary upon receipt of the written request of 1/3 (one-third) of the members. Written notice of such meeting, stating the time, place and purposes shall be served by mail upon each member of the organization not less than 10 (ten) days nor more than 15 (fifteen) days before such meeting.

Section 3. Quorum. At any meeting fifty members or more present shall constitute a quorum for all purposes, and the act of the majority of these members present at which there is a quorum shall be the act of the entire membership, except as maybe otherwise provided for by statute or by the charter of the organization. In the absence of a quorum, or when a quorum is present, a meeting may be adjourned by the vote of a majority of the members present in person or by proxy without the notice other than by announcement at the meeting and without further notice to the absent members. At any adjourned meeting at which the quorum shall be present any business may be transacted which might have been transacted at the meeting as originally notified.

Section 4. Voting Rights. At every meeting of members, each member entitled to vote, shall be entitled to vote in person. The vote for the election of directors and on any question before the meeting when deemed necessary by either the president or the secretary shall be by ballot. All elections and all questions to be decided at such meeting shall be by majority vote of the members present and entitled to vote.

Section 5. Order of Business. The order of business at membership meetings shall be as follows:

- A. Calling of the roll of members.
- B. Proof of notice of meeting or waiver of notice submitted.
- C. Reading of the minutes of the previous meeting.
- D. Reports of officers.
- E. Reports of committees.
- F. Election of Board of Directors.
- G. Unfinished business.
- H. New business.

Any question concerning the priority of the business to be conducted before the meeting shall be decided by the Chairman of the meeting. The order of business may be amended or changed at any meeting by majority of vote of the members present at such meeting.

Section 6. Informal actions by members. Any action that may be taken at a membership meeting may be taken without a meeting if a consent in writing, setting forth the action, shall be signed by the holders of outstanding memberships having not less than a minimum number of votes that would be necessary to authorize or take such action at a meeting at which all members entitled to vote thereon were present and voted and filed with the Secretary of the Corporation. Within ten (10) days after obtaining such authorization by written consent, notice must be given to those members who have not consented in writing to such action taken.

ARTICLE VII.

BOARD OF DIRECTORS

Section 1. General management of the affairs of the organization shall be vested in the Board of Directors.

Section 2. The number of Directors shall not be less than three (3) nor more than twenty-one (21) which may be changed from time to time by amendment of these By-Laws in the manner provided herein with the initial board to consist of fourteen (14) persons.

Section 3. The Election of Directors. The Board of Directors shall be elected by the members of the organization at the annual meeting of the members by a majority vote of the members present at such meeting as provided in Section 1 of Article VI hereinabove.

Section 4. Duties and Powers of the Directors. The Board of Directors shall have the authority to:

A. Hold meetings at times and places that may be deemed proper and necessary.

B. Admit, suspend or expel members.

C. Appoint committees on particular subjects from members of the Board or from the membership of the organization.

D. Audit bills and disburse the funds of the organization.

E. Print and circulate documents and publish articles, pamphlets and papers.

F. Carry on correspondence, communicate with other associations with the same interests.

G. Employ agents.

H. Devise and carry into execution such other measures as deemed proper and expedient to promote the objectives of the organization and protect the interests and welfare of the members.

I. Remove any or all of the officers of the organization with due cause prior to the termination date of such office.

J. Elect substitute directors in the event any Director resigns or is removed from office prior to the termination date from such office.

K. Terminate the contract of any firm, individual or any other entity employed by the organization to perform any and all nature of services to the organization.

L. Employ, retain or terminate any employee of the Corporation who it deems appropriate.

ARTICLE VIII.

MEETINGS OF THE BOARD OF DIRECTORS

Section 1. Annual Meetings. The annual meeting with the Board of Directors shall be held in the month of January of each year at the principal office of the corporation or such other place or places as may be determined by the President.

Section 2. Special Meetings. Special meetings of the Board of Directors may be called by the President or by any two (2) members of the Board of Directors. Written notice shall be given stating the purpose of such meeting and shall be delivered to each member of the Board of Directors or mailed to the last known address of such Director at least five (5) days prior to such meeting date.

Section 3. Regular Meetings. The Board of Directors shall hold regular meetings at such time and place as may be approved by a majority of the Board. A majority of the board shall constitute a quorum. The Board may be canvassed by mail and vote by ballot in like manner.

Section 4. Absences. Should any member of the Board of Directors absent himself without just cause from three (3) consecutive meetings of the board without notifying the President or Secretary for his/her reason for doing so and if his/her reason should not be accepted by the members of the board, his/her seat on the Board may be declared vacant and the board may vote to select a substitute Director from the membership of the organization to serve the remainder of his/her term.

Section 5. Resignation. Any Director may resign at any time by giving written notice of such resignation to the Board of Directors.

Section 6. Removal, Termination of Office. Any one or more of the Directors may be removed with cause at any time by the Board of Directors in the same manner set forth for voting on any issue hereinabove.

Section 7. Delegation of Authority. Board of Directors shall delegate authority to any executive committee created by it to conduct the business of the organization in accordance with the policies prescribed by the Board of Directors from time to time.

Section 8. Eligibility for Membership. Only members in good standing shall be qualified to become members of the Board of Directors.

Section 9. Election of Directors. The President shall appoint a nominating committee consisting of not less than two (2) persons from each section, one of whom shall be the most recent past sectional vice-president able to serve. This committee shall at each annual meeting make nominations for officers and other members of the Board of Directors for the ensuing year provided the members representing various sections shall seek advise of each section in open meetings concerning the nomination of Vice-President elect for that section. Such nominations by the nominating committee, however, shall not preclude nominations from the floor. The President shall designate a member of the Board of Directors as chairman of the nominating committee.

1. At the annual meeting held after the adoption of the By-Laws an election shall be held by the members of no less than fourteen (14) members. The editor, program coordinator, secretary and treasurer shall each be elected for a five (5) year term. A Vice-President elect from each section shall be elected for a one (1) year term. The Vice-President elect shall succeed to the office of vice-president of the section at the beginning of the second fiscal year following his or her election. Two members at-large shall be elected for (2) two years term on an alternate basis. Insofar as practical the board shall arrange that no more than two (2) of offices of editor, program coordinator, secretary and treasurer terminate at the same time.

2. At all elections for members of the Board of Directors, only active voting members in good standing may be qualified to cast their votes for such Directors. The installation of office of those Directors who have been elected in any part of the year shall be held on the 1st day of January immediately following the date of the annual meeting at which such new members of the Board were elected.

Section 10. Order of Business. The order of business of the Board of Directors meeting shall be the same as provided in Section 5 of Article VI except that the election shall be for the officers of the Corporation and for members of the executive committee.

Section 11. Inspectors of Election. The directors present at any meeting of the Board of Directors may elect or appoint two (2) persons who need not be Directors to act as inspectors of election for the purpose of tabulating and counting the ballots in the election for officers or the voting on any other issue before such meeting.

Section 12. Directors shall receive no compensation for their services.

Section 13. The directors of the corporation shall not be personally liable for its debts, liabilities or other obligations.

ARTICLE IX

OFFICERS

Section 1. The officers of the Corporation: Chairman of the board who is the immediate past president, President, six sectional Vice-Presidents, as more particularly hereinafter described, Secretary, Treasurer, Editor, Program Coordinator and two members at-large and such other officers with such powers and duties not inconsistent with these By-Laws as may be appointed and determined by the Board of Directors from time to time.

Section 2. Term of Office. The terms of the office for the Editor, Program Coordinator, Secretary and Treasurer shall be five (5) years on a staggered basis with no member serving more than two (2) terms in such offices. All other offices shall be for a term of one (1) year except the members at-large which serve alternative two-year terms elected in alternate years.

Section 3. Installation and Commencement of Duties. The officers newly elected at the annual meeting and the Board of Directors shall be installed and take office on the first day of the year immediately following the date of the annual meeting as established by the Board of Directors simultaneously with the installation of the incoming Board of Directors.

Section 4. Election. The officers of the Corporation shall be elected by the Board of Directors in the following manner:

A. The President shall appoint a nominating committee consisting of not less than two (2) persons from each section, one of whom shall have been the most recent past sectional Vice-President able to serve. This committee at each annual meeting shall make nominations for officers and Directors for the ensuing year provided the members representing

various sections shall seek advice of each section in open meetings concerning the nomination of Vice-President elect for that section. Such nomination shall not preclude nominations from the floor. The names of the proposed officers shall be submitted to the board at least one (1) month prior to the annual meeting of the board.

Section 5. Consent to Election. Only those persons who have signified their consent to serve if elected shall be nominated for or elected to such office.

Section 6. Multiple Offices. No person shall be on the ballot for more than one (1) office.

Section 7. Vacancies in Office. If the office of Chairman of the Board or President become vacant by reason of termination or resignation during the term of office, the Board of Directors shall select a successor to succeed to the office for the unexpired term. Vacancies in all other elected offices shall be filled for the unexpired term by the Board of Directors. During the absence or the inability of the President to serve, the chairman of the Board of Directors shall temporarily fulfill the role of President.

Section 8. Duties of Officers.

A. Chairman of the Board. It shall be the duty of the Chairman of the Board to chair the Board meetings; appoint all standing committees as prescribed by the board, and he or she shall perform such other duties as may be delegated to him or her by the Board of Directors.

B. President. It shall be the duty of the President as a Chief Executive Officer to be the official head of the Society and preside at the general session of the annual meeting. The President shall be directly responsible to the Board of Directors and may be removed from office for cause by an affirmative vote of a majority of the full Board of Directors. The President shall have the power to sign all contracts and any other obligations on behalf of the Corporation approved by the Board of Directors. The President shall be ex officio member of all sections and committees except the nominating committee. The President shall select all inspectors of election. He/she shall be authorized to sign checks on the Corporation's bank account. In addition the President shall have and perform such other duties as may be delegated to him/her by the Board of Directors.

C. Sectional Vice-Presidents. The sectional Vice-Presidents shall be members of the Board of Directors. The sections comprising the Corporate body shall be:

Citrus Section, Vegetable Section, Krome Memorial Institute (tropical and subtropical fruits), Ornamental Section, Handling and Processing Section, Garden and Landscape Section. The Vice-President of the citrus section shall assume the duties of the President in the temporary absence of the President. The Vice-Presidents of the various sections shall preside over the particular sections of which they are representatives at the annual meeting.

D. Secretary. Secretary shall record all records of the meetings of the Board of Directors and shall be responsible except as may otherwise be designated by the By-Laws for recording and keeping proceedings of the annual meeting. The Secretary shall likewise issue and mail out statements of dues to the membership, notices of meetings, and perform such other duties as are designated by the Board of Directors.

E. Treasurer. The Treasurer shall be responsible for all funds paid into the corporation and shall issue and countersign all vouchers paying bills or accounts against the Corporation. The Treasurer shall be placed under bond in an amount determined by the Board of Directors, premium which shall be paid by the Corporation. Current financial records shall be kept at all times and reports on the financial status of the Corporation shall be submitted at all meetings of the Board of Directors and membership with copies to be provided for the President's file. The books of the Corporation shall be delivered to his/her successor immediately following the termination of the office and election of a new Treasurer.

F. Editor and Program Coordinator. The Editor and Program Coordinator shall perform such duties as may be prescribed and authorized by the Board of Directors.

G. Reports of Officers. All officers shall perform the duties prescribed and assigned to them by the President from time to time and as outlined herein and delivered to their successor all official material not later than thirty (30) days following the election and installation of their successors.

H. Compensation. Officers of the Corporation shall receive no compensation for their services.

ARTICLE X COMMITTEES

Corporation shall have such committees as shall be necessary for the conduct of the organization's business and to carry out its objects and purposes. All committees shall serve for one (1) year. The committees shall be as established by the Board of Directors and initially are as follows:

1. Nominating Committee. There shall be a nominating committee established as provided above and appointed by the President who shall designate a member of the committee as chairman and shall have such duties as above provided.

2. Membership Coordinating Committee. The chairman of the Board of Directors shall appoint a membership coordinating committee that shall consist of a chairman, the chairman of the student affairs committee and one other member. Within each section, the sectional Vice-President shall appoint a sectional membership chairman and designate a chairman thereof. The chairman of the sectional membership committee shall work closely with membership coordinating committee to develop plans for securing new members throughout the year and ensuring that the needs of the membership are being met by the services and activities of the Society. The chairman of the membership coordinating committee shall meet with the Board of Directors when requested by the chairman and shall make recommendations to the Board of Directors on membership enlargement, participation and related activities.

3. Program Committee. The Vice-Presidents of the various sections shall constitute a program committee of which the President shall be the chairman, the program coordinator, the vice-chairman and secretary and treasurer shall be ex officio members.

4. Student Affairs Committee. The chairman of the Board of Directors shall appoint a student affairs committee comprised of one (1) member each from the faculties of all educational institutions in the State of Florida offering a four (4) year horticultural program leading to a bachelor's degree, two (2) members representing different industries and two (2) student members from different institutions. Membership of this committee shall be initially appointed for one (1) to three (3) year terms and designated on a rotating basis so after the third year all members will be appointed for a three (3) year term with no more than one-third (1/3) of the members renewed in a given year. The chairman of this committee will be the student affairs coordinator, and he shall report to the Board of Directors when invited by the chairman. This committee shall coordinate all affairs of the Society related to student activities, including distribution of patron funds for support of student attendance at meetings, recognition of student at meetings, reports of students and other student related activities.

5. Editorial Committee. The chairman of the Board of Directors shall appoint an editorial committee consisting of one (1) associate editor from each of the six (6) sections. The editor will serve as the chairman of the Editorial Committee. This committee shall meet with the editor as called and assist him or her in the editing and preparation of manuscripts for publication in the proceedings as needed. Name of nominees for associate editor position shall be presented to the Board of Directors along with brief resumes of their background and qualifications. Associate editors shall then be appointed by the chairman of the Board of Directors with the approval of the editor. Such appointment shall be for a three (3) year term with an option for renewal.

6. Auditing Committee. The President with the approval of the Board of Directors shall appoint an auditing committee which committee shall confer with the treasurer in preparing an audit to be presented by the treasurer at the annual meeting. The President shall appoint such other committees as may be deemed advisable and approved by the Board of Directors.

7. Awards Committee. There shall be a separate committee on awards as follows:

A. Presidential Gold Medal Award Committee - the presidential gold medal award committee shall consist of the chairman of the Board of Directors who shall act as chairman and three (3) or more other members of the Society of the corporation appointed by the President.

The Presidential Gold Medal shall be awarded to one (1) individual who has contributed most to Florida horticultural through work published in the proceedings over the proceeding time periods since the given section was last eligible. The award will rotate each year from section to section with the citrus section eligible in 1975 followed in order by the krome memorial, garden and landscape, vegetable, ornamental, handling and processing sections. The awards shall consist of a gold medal suitably inscribed, a printed certificate, an honorarium of \$500.00 and hotel expenses for the recipient and spouse while at the annual meeting.

B. Best Paper Award Committee - the best paper award committees shall be appointed by the President annually from each of the Society's sections. Each committee will consist of three (3) members who:

a. Most recently have served as Vice-Presidents of respective sections but;

b. Who were not authors of papers in that volume of the proceedings from which the selection is being made,

c. Who remain members of the corporation.

If less than three (3) members qualify for appointment in any section, the President may appoint members lacking qualification (a) above. Membership of these committees will not be announced. Each sectional best paper will select the best and most meritorious paper as printed in the previous years proceedings for its respective section. This award shall consist of a medal and printed certificate suitably inscribed and an honorarium of \$200.00.

C. Presidents Industry Award Committee. The selection of the paper qualifying for the presidents industry award will be made by a committee consisting of at least one (1) member from each section of the Society, appointed by the President. The award will be presented to the senior author of a single best paper given at the Florida State Horticultural Society annual meeting by an industry author. An industry author is defined as anyone other than a staff member of an academic institution or a government agency. In those instances where there are both senior and junior author or authors, all must meet the qualifications of industry authors. The senior author of the paper must be a member of the Society. Any paper which receives recognition as the best paper in a section will also be eligible for the President's Industry Award if other qualifications are met. The award shall consist of a plaque suitably inscribed and presented at the Presidents discretion.

D. Council Memorial Tomato Research Award. This award shall be presented based on \$2,500.00 donated to the corporation by Mrs. Emmett H. Council, Council Farms, Ruskin, Florida. The award shall be continued until the fund and earnings from investments are exhausted. The award committee shall consist of the chairman of the Board of Directors and four (4) other members of the corporation appointed at large by the President whose names will not be announced. The award shall be given to the individual or group who have done work with the most potential to further the fresh market tomato industry in Florida through advances reported in any single publication in any scientific or technical form. Such publication must have been published during the two (2) previous calendar years. The senior author of the publication upon which the award is based must be an active member of this corporation. At the discretion of the chairman of the board, the award may not be presented in any given year when there does not appear to be suitable nominees. The award shall consist of a certificate suitably inscribed and a \$200.00 honorarium.

ARTICLE XI

BY-LAW AMENDMENT

The By-Laws or the Articles of Incorporation of this Corporation may be amended, repealed or altered in whole or in part by a majority vote at any duly organized meeting of the members at which a quorum shall be present. Notice of the proposed change shall be published in the Newsletter and mailed to each member at his/her last known address at least ten (10) days prior to the time and date of the meeting which is to consider and vote upon such change or amendment. The proposed change or amendment to the By-Law or the Articles of Incorporation shall, prior to notice being given of such meeting, be ratified and approved by the Board of Directors by a majority vote of the Directors present at such Board of Director's meeting. Only those Directors present may cast their vote on the action before the meeting.

Copies of such revised or amended By-Laws or Charter shall be given to any member upon request.

ARTICLE XII

PARLIAMENTARY AUTHORITY

The Rules contained in Roberts Rules of Order as Revised shall govern the Board of Directors, Officers, Chairmen of various Committees, and the Members in all cases in which they are applicable, provided, however, that they do not conflict with the By-Laws of the Charter of this Corporation, or with the laws of the State of Florida.

ARTICLE XIII

FISCAL YEAR

The fiscal year of the Corporation shall commence on the 1st day of January of each year and terminate on the 31st day of each calendar year.

ARTICLE XIV

SEAL

The Corporation shall have a seal of such design as may be approved by the Board of Directors.

ARTICLE XV

DISTRIBUTION OF ASSETS

Upon dissolution, liquidation and winding up of the Corporation, the Board of Directors shall, after paying or making provision for the payment of all of the liabilities of the Corporation, dispose of all assets of the Corporation exclusively for the purposes of the Corporation in such manner, and to such organization or organizations organized and operated exclusively for charitable, education, religious, horticultural or scientific purposes as shall at the time qualify as an exempt organization under Section 501(c)(3) or (c)(5) or the Internal Revenue Code of 1954 as amended, as the Board of Directors may determine. Any assets not so disposed of shall be disposed of by a court of competent jurisdiction in the county in which the principal office of the Corporation is then located, exclusively for such purposes, or to such organization or organizations as such Court shall determine which will not impair the tax exempt status of this Corporation.

ARTICLE XVI

INDEMNIFICATION

The Corporation may be empowered to indemnify any officer or director, or any former officer or director, by a majority vote of a quorum of directors or by a majority vote of a quorum of members, who were not parties to such action, suit or proceeding, in the manner provided in Section 607.014 of the Florida Statutes, as amended. If such indemnification is authorized by the directors or members, expenses incurred in defending such civil or criminal action, suit or proceeding may be paid by the Corporation in advance of the final disposition of such action, suit or proceeding in the manner described in Subsection 5 of Section 607.014 of the Florida Statutes, as amended, upon receipt of an undertaking by or on behalf of the director, officer, employee or agent to repay such amount unless he/she is found to be entitled to such indemnification.

ARTICLE XVII

CONTRACTS, CHECKS, DEPOSITS

Section 1. Contracts. The Board of Directors may authorize any officer or agent of the Corporation to enter into any contract or to execute and deliver any instrument or document on behalf of the Corporation, which authority may be general or specific.

Section 2. Deposit. All funds received by the Corporation shall be deposited in such depositories as selected by the Board of Directors or in such Trusteeship for said funds as the Corporation through its Board of Directors may deem in the best interests of the Corporation. "All uncommitted funds shall be invested by the Treasurer in Federal Insured Investments approved by the Board of Directors." For prudent operation and financial security of the Corporation, funds in an amount at least one and one-half (1.5) times the annual budget shall be maintained whenever possible, in such reserve funds shall not be allowed to exceed two one-half (2.5) times annual budget. Deviations from these practices may be authorized by a majority vote of the Board of Directors.

Section 3. Checks. All checks, drafts, or any authorization for the payment of any notes, sums of money, or other evidence of debt issued in the name of the Corporation shall be signed by such officers or agents as shall from time to time be designated and determined by the Board of Directors. Unless otherwise authorized, such instruments shall be signed by the Treasurer and the President or the Vice-President of the Citrus section.

Section 4. Approval of Bills. All bills before being paid shall be approved by the President, Secretary or Treasurer and vouchers drawn to pay such bills shall be signed as hereinabove provided.

ARTICLE XVIII

RESOLUTIONS

Resolutions may originate either in the Resolutions Committee or in a regular scheduled sectional business meeting. In the latter case the resolutions must be supported by a majority vote of those members present voting. All resolutions will be evaluated by the Resolutions Committee and transmitted with its recommendation to the chairman of the Board of Directors. He will place them before the full Board of Directors by either:

- A. Calling a special meeting of the Board of Directors or;
- B. Instructing the Secretary to poll the members of the Board of Directors.

Those resolutions approved by at least eight (8) members of the Board of Directors will be presented by the chairman of the Resolutions Committee to the membership at the annual meeting for action by the Corporation as a whole.

ARTICLE XIX
HONORARY MEMBERS

Any individual who has rendered a special meritorious service to the Society and to the advancement of horticultural in Florida may be designated by a two-thirds (2/3) vote of the full Board of Directors as an honorary member of the Corporation. Such honorary member shall not be required to pay dues.

ARTICLE XX
RECORDS

The Corporation shall maintain correct and proper books and records and shall keep minutes of all meetings of the members and Board of Directors, at the principal office of the Corporation. All such records may be inspected by any director, member, or agent or attorney of either, or any proper person at any reasonable time.

DATED & ADOPTED:

By: _____
President
Attest: _____
Secretary

REPORT OF EXECUTIVE COMMITTEE, 1993

**MOTIONS PASSED AND IMPORTANT DISCUSSIONS OF THE FIRST EXECUTIVE COMMITTEE MEETING, LAKE ALFRED, FLORIDA
JANUARY 7, 1993**

The first meeting of the Executive Committee, chaired by Dan Cantliffe, was held in Lake Alfred on January 7, 1993. Membership was reported at 1591. Attendance at the 1992 annual meeting was 532, with 417 preregistered members. Proposal to establish a deadline for payment of dues was discussed. No action was taken pending further discussion. Incorporation of the Florida State Horticultural Society was completed on December 14, 1992. New by-laws were drafted by an attorney. A committee chaired by President Michael Taylor was appointed to study the by-laws and compare them with present by-laws. Motion was passed authorizing construction of a membership display booth with carrying case. Contract for 1994 meeting at the Clarion Hotel, International Drive, Orlando, was signed by Secretary Ismail. Ronnie Reed was authorized by the Chairman to pursue securing tax exempt status for the Society.

Motion by Michael Taylor that a complete, true audit be authorized was passed. Change in nominating procedure was discussed. Suggestion that two persons be nominated for each office was made and discussed. No action was taken. Recommendation by David Hall to present certificates and plaques to patron members was discussed. Action was deferred to next meeting. Gary Wilfret suggested that the door prizes, subsidizing spouses program and status of the Garden and Landscape Section be discussed at the next Executive Committee meeting. Next meeting of the Executive Committee was set for May 4, 1993 at the Citrus Research and Education Center, Lake Alfred.

**MOTIONS PASSED AND IMPORTANT DISCUSSIONS OF THE SECOND EXECUTIVE COMMITTEE MEETING, LAKE ALFRED, FLORIDA
MAY 4, 1993**

The Executive Committee held its second meeting of 1993 at 10:00 AM on May 4, 1993 in Lake Alfred. The meeting was chaired by Dan Cantliffe. Paid membership was reported by Mohamed Ismail at 1348. David Buchanan, Treasurer, reported cash on hand of \$31,037.94. A motion by Michael Taylor, President, to transfer Society Certificate of Deposit from Winter Haven Mortgage Corporation to a Federally insured institution was seconded and passed.

Mariann Holland, Editor of the *Citrus Industry Magazine* presented a proposal to publish the annual meeting program at no cost to the Society. Gary Wilfret was appointed chairman of a committee to study the *Citrus Industry Magazine* offer with Sal Locascio and Norman Childers, members.

New by-laws were discussed and corrected. A motion to approve them was advanced by Michael Taylor, and it was passed. They will be published for examination by the membership.

Certificates of recognition of Patron Members were circulated. One of several was proposed by David Buchanan and was approved. A motion by Ray Volin to set the registration fees for the 1993 meeting was seconded and passed. They are as follows: *Prior to Oct. 1:* Member \$50.00, Spouse \$30.00, Student \$15.00. *After Oct. 1:* Member \$55.00, Spouse \$35.00, Student \$20.00.

A motion to hire Sorrell Software & Support to provide clerical services to the Society from May 1 to December 31, 1993 for a fee of \$801.67 per month, plus mileage and office supplies, was made by Mohamed Ismail. It was seconded and passed.

Mohamed Ismail moved that the Society invite Wanda Ryan and her husband, Jack, to attend the next annual meeting of the Society at the Society's expense and that a resolution be prepared and presented to Mrs. Ryan in recognition for her service to the Society.

Section workshop proposals were made by Vice Presidents, and each was budgeted at \$500.00.

The possibility of merging the Garden and Landscape and Ornamental Sections was discussed. Kathleen Ruppert reported that for the period between 1988 and 1992, 101 papers were in the Ornamental Section and 102 were presented in the Garden and Landscape Section. Last year, 12 papers were presented in the Garden and Landscape Section and 18 were presented in the Ornamental Section. Discussion was tabled until the next meeting, which was scheduled for 9:00 AM, September 1, 1993 at the Doral Hotel in Miami Beach. The meeting was adjourned at 2:45 PM.

Proc. Fla. State Hort. Soc. 106: 1993.

**MOTIONS PASSED AND IMPORTANT DISCUSSIONS OF THE THIRD EXECUTIVE COMMITTEE MEETING, MIAMI BEACH, FLORIDA
SEPTEMBER 1, 1993**

The third meeting of the Executive Committee was held September 1, 1993 at the Doral Hotel in Miami Beach. Membership was reported at 1367. David Buchanan, Treasurer, reported the transfer of a \$66,550.00 CD from First Mortgage of Winter Haven to First Union Bank Corporation, which is Federally insured.

Jeff Norcini was appointed Associate Editor for Ornamental Section. Pete Stofella moved that letters be mailed to 47 libraries to invite them to join the Society. Reports were presented by Program Coordinator and Local Arrangement Chairman.

Expenses of Spouses' Program were discussed and discussion was tabled. The status of Garden & Landscape and Ornamental Sections was discussed. Dr. Norman Childers nomination to Honorary Membership was unanimously approved.

Resolution to honor Wanda Ryan was adopted.

Site Selection Committee reported on 1995 meeting sites. The Registry in Naples, October 25 and Marco Island Marriott October 29 are being considered, both at \$105 per room.

The status of the Society and the annual meeting was discussed by Chairman Cantliffe. He indicated that several issues need to be addressed, including the number of papers presented and whether we should have refereed papers. Other issues to be evaluated are: door prizes, presidential dinner, and the annual proceedings. A task force of 6 past Presidents, the Secretary and the Treasurer was appointed to study these issues.

**MOTIONS PASSED AND IMPORTANT DISCUSSIONS OF THE FOURTH EXECUTIVE COMMITTEE MEETING, MIAMI BEACH
OCTOBER 19, 1993**

The fourth and final meeting of the Executive Committee was held October 19, 1993 at the Doral Hotel in Miami Beach. Meeting was chaired by Jack Hearn; Chairman Cantliffe chaired meeting upon arrival. David Buchanan, Treasurer, reported on financial status of Society: Checking account balance as of October 14, 1993 - \$14,212.52; certificates of deposits - \$77,192.63. Local arrangement report was presented by George Fitzpatrick.

Steve Kostewicz, Student Activities Coordinator, presented Students' Affairs Committee report. Forty students will participate in the meeting.

M. Ismail moved that the Executive Committee set June 1 of each year as deadline for payment of dues, beginning in 1994 and that a \$5.00 late fee be charged. Motion was seconded and passed.

Proposal to order a membership table-top display at approximate cost of \$2,000 and to seek outside donations was tabled until January Executive Committee meeting.

The Site Selection for 1995 Meeting Committee Report was presented by Chet Townsend. The Registry of Naples offered rooms for \$105 in October or December. If we meet in December, a \$5/room will be used to provide drinks for the social hour. Motion by Chet Townsend to pursue a contract with the Registry for 1995 was seconded and approved.

Secretary and Treasurer were charged by Chairman Dan Cantliffe to help negotiate the best possible deal with the Registry for 1995.

Next meeting of the Executive Committee was scheduled for Friday, January 14, 1994 in Lake Alfred. Meeting adjourned.

Respectfully Submitted,
Mohamed A. Ismail,
Secretary

**MINUTES OF THE ANNUAL BUSINESS MEETING OF THE FLORIDA STATE HORTICULTURAL SOCIETY
DORAL OCEAN BEACH RESORT, MIAMI BEACH, FLORIDA
OCTOBER 19-21, 1993**

The meeting was called to order by Chairman Michael O. Taylor. A moment of silence in honor of deceased members of the Society was observed. The Chairman thanked the Local Arrangements Committee and other members who contributed to the 1993 annual meeting. Motion by Mohamed Ismail was passed approving the minutes of the 1992 Annual Business Meeting. Reports of the 1993 Executive Committee were presented by Mohamed Ismail as published in the 1993 Newsletter and as read. Motion to approve the reports was made and passed.

Treasurer's Report detailing financial status of the Society was presented by David Buchanan. A \$66,550 Certificate of Deposit was transferred from First Mortgage Corp. of Winter Haven to First Union Bank of Lake Alfred where it is Federally insured. A loss of \$4,269.87 interest was incurred. He moved that the report be accepted. Motion was seconded and was passed.

Mohamed Ismail presented the Membership Report showing total membership of 1491.

The new by-laws were presented by Mike Taylor who asked for comments. The by-laws were published in Volume 5, Issue No. 2 of the Newsletter which was distributed to the membership. A motion was advanced by Mike Taylor to approve the by-laws was seconded and passed.

Student Activities report was presented by Steve Kostowicz who announced the Best Student Paper Awards.

A resolution to honor Wanda Ryan for 25 years of Service to the Society was introduced by W. Grierson and was approved. The Resolution is printed separately following these minutes.

Report of the nominating committee was presented by Michael Irely. The following were nominated:

Salvadore J. Locascio, President
Peter McClure, Vice President, Citrus Section
James Stephens, Vice President, Garden and Landscape Section
Elizabeth Baldwin, Vice President, Handling and Processing Section
Richard Campbell, Vice President, Krome Memorial Institute
Uday Yadav, Vice President, Ornamental Section
Alexander Cszizszky, Vice President, Vegetable Section
George Fitzpatrick, Member-at-Large (2 year term)

Motion to cast a unanimous ballot was introduced by C. Jack Hearn, seconded by Rubert Prevatt and passed by voice vote.

Meeting was adjourned.

Submitted by,
Mohamed A. Ismail,
Secretary

**RESOLUTION PASSED BY GENERAL MEMBERSHIP OF THE SOCIETY
AT ITS ANNUAL MEETING IN MIAMI BEACH, FLORIDA, OCTOBER 21, 1993**

WHEREAS the historic and enviable success of the Florida State Horticultural Society in serving the horticultural industries of Florida is largely due to its efficient organization, and

WHEREAS the Administrative Assistant to the society is responsible for carrying out numerous year round duties that keep the Society functioning smoothly, and

WHEREAS the position of Administrative Assistant to the Society has been filled for over 25 years with notable efficiency, good spirit and personal initiative by Wanda Leonard Ryan,

NOW THEREFORE BE IT RESOLVED that the Florida State Horticultural Society expresses its appreciation to Wanda Leonard Ryan for her more than a quarter century of capable and loyal service and wishes her and her husband many happy years of serene and healthful retirement.

**FLORIDA STATE HORTICULTURAL SOCIETY
Membership Report
December 31, 1993**

Member	New	1992	1993	Total
Patron	0	7	53	60
Annual	65	225	867	1,157
Student	45	36	23	104
Colleges and Libraries	2	16	29	47
Out-of-Country	15	21	55	91
Honorary	0	0	33	33
Totals	127	305	1,060	1,492

**FLORIDA STATE HORTICULTURAL SOCIETY
CHECKING ACCOUNT SUMMARY REPORT AS OF 12/31/93
Prepared January 11, 1994**

Account Balance as of 01/01/1993 **\$22,013.92**

Type	Description	Amount
Dues	1992 Annual	4,525.00
	1993 Annual	21,850.00
	1994 Annual	2,775.00
	1995 Annual	100.00
	1992 Patron	100.00
	1993 Patron	5,000.00
	1992 Student	5.00
	1993 Student	325.00
	1994 Student	30.00
	Total Receipts for Dues	34,710.00

Registration	1993 Member Advance Registration	11,050.00
	1993 Spouse Advance Registration	1,170.00
	1993 Student Advance Registration	765.00
	1993 Non-member Advance Registration	500.00
	1993 Non-member Student Adv. Regist.	15.00
	1993 Member Registration	2,970.00
	1993 Spouse Registration	175.00
	1993 Student Registration	120.00
	1993 Non-member Registration	385.00
	1993 Non-member Student Registration	55.00
	1993 Meeting Registration Late Fee	90.00
	Total Receipts for Registration	17,295.00

All Other	Authors' 1992 Dues Late Fees	15.00
	Endowment Fund Contributions	2,416.00
	Meeting, Booth Rental 1993	1,500.00
	Meeting, 5K Run/3K Walk 1993	160.00
	Meeting, Air Mail Postage 1993	20.00
	Meeting, Fruit Crops Breakfast 1993	1,000.00
	Meeting, Vegetable Crops Breakfast 1993	600.00
	Page Overage 1992, Volume 105	12,303.75

Proceedings &/or Indexes	2,575.50
Proceedings &/or Indexes, Shipping & Handling	388.00
Program/Abstracts	5.00
Proceedings Cover Contribution, 1993	1,800.00
Total Receipts for All Other	22,783.25

General	Bank Charges Refund	73.50
	Interest	728.69
	Meeting, Items Sold, Etc.	257.94
	Meeting, Spouses Prgm. Refund	60.00
	Misc. (from Fla. Southern College Citrus Inst.)	865.00
	Old Proceedings & Index Issues	780.00
	Total Receipts for General	2,765.13

Total Receipts for Period from 01/01/93 through 12/31/93 **77,553.38**

Sub-total **\$99,567.30**

Type	Description	Amount
Expenses	Clerk Hire	10,469.18
	Clerk, Mileage	193.00
	Meeting, 5K Run/3K Walk T-Shirts 1993	321.50
	Meeting, Awards 1992	175.00
	Meeting, Awards 1993	2,432.73
	Meeting, Awards 1994	161.65
	Meeting, Awards 1995	161.65
	Meeting, Awards 1996	161.65
	Meeting, Awards 1997	161.64
	Meeting, Door Prizes 1993	550.00
	Meeting, Exhibit Expense 1993	1,347.23
	Meeting, Hotel 1992	6,934.27
	Meeting, Hotel 1993	17,892.63
	Meeting, Miscellaneous 1993	27.25
	Meeting, Sponsored Student Program	4,905.00
	Meeting, Spouses Program 1993	522.00
	Meeting, Stationery, Stamps & Printing 1993	3,492.53
	Meeting, Travel & Entertainment 1993	75.72
	Miscellaneous	1,776.38
	Office Equipment	2,171.10
	Proceedings, 1992 (Volume 105)	33,589.60
	Professional Fees & Insurance	1,925.75
	Refunds	95.00
	Software	389.05
	Stationery, Stamps & Printing	4,997.72
	Telephone	101.21
	Total Expenses for Period from 01/01/93 through 12/31/93	95,030.44

Account Balance as of 12/31/93 **4,536.86**

**FLORIDA STATE HORTICULTURAL SOCIETY
INVESTMENTS AS OF 12/31/93
Prepared January 12, 1994**

All investments held in the First Union National Bank of Florida

Entity	Amount	Interest Rate
Florida State Horticultural Society	\$10,000.00	5.25%
Florida State Horticultural Society	\$63,892.48	5.10%
FSSH Endowment Fund	\$2,551.99	7.15%
FSSH Endowment Fund	\$1,559.06	6.60%
TOTAL	\$78,003.53	

**FLORIDA STATE HORTICULTURAL SOCIETY
MEMBERSHIP LIST
for
VOLUME 106, PROCEEDINGS FOR 1993**

PATRON MEMBERS

- A. O. Duda & Sons, Inc., P.O. Box 257, Oviedo, FL 32765
 Abbott Laboratories, Chemical & Agricultural Products Div., 1401 Sheridan Rd.,
 D-91L, North Chicago, IL 60064
 Adams, Bill, Adams Nursery, Inc., P.O. Box 1505, Haines City, FL 33844
 Agri-Chem, Inc., David J. Hall, P.O. Box 607477, Orlando, FL 32860
 Becker, R. William, Becker Trading Co., P.O. Box 12190, Ft. Pierce, FL 34979-2190
 Boliden Enterprises, Inc., Att'n: R.L. Ward, 3379 Peachtree Rd. NE, Ste. 300, At-
 lanta, GA 30326
 Callery-Judge Grove, P.O. Box 810, Loxahatchee, FL 33470
 Campbell, Carl and Becky, Univ. of Fla., IFAS-TREC, 18905 SW 280 St., Home-
 stead, FL 33031
 Childers, Norman F., 3906 NW 31 Pl., Gainesville, FL 32606
 Citrus & Vegetable Magazine, Vance Publishing Group, 4902 Eisenhower Blvd., Ste.
 291, Tampa, FL 33634
 Coca-Cola Co. Foods, C/O Mike Taylor, P.O. Box 247, Auburndale, FL 33823
 Diamond R Fertilizer Co., Inc., 4100 Glades Rd., Ft. Pierce, FL 34981
 Farm Credit Ass'n's of Florida, Att'n: Joe Shirley, President, 1005 N Lake Parker
 Ave., Lakeland, FL 33805
 Florida Celery Exchange, P.O. Box 140067, Orlando, FL 32814
 Florida Citrus Nursery, 989 North LRL Ranch Rd., Avon Park, FL 33825
 Florida Citrus Packers, P.O. Box 1113, Lakeland, FL 33802
 Florida Citrus Processors, P.O. Box 780, Winter Haven, FL 33882-0780
 Florida Citrus Production, P.O. Box 985, Lake Placid, FL 33852
 Florida Fruit & Vegetable Ass'n, P.O. Box 140155, Orlando, FL 32814-0155
 Florida Fruit Co., 27101 U. S. Hwy. 27, Leesburg, FL 34748
 Fruit Crops Ass'n, C/O Lykes Agri Sales, Inc., P.O. Box 1758, Dade City, FL 34297-
 1758
 Green Cay Farms, Inc., Ted Winsberg, Route 1, Box 331 B, Boynton Beach, FL
 33437
 Griffith, Donald M., Royal Palm Citrus Mgt, Inc., P.O. Box 1057, Loxahatchee, FL
 33470-1057
 Haines City Citrus Growers Ass'n, P.O. Box 337, Haines City, FL 33844
 Hermann Engelmann Greenhouses, P.O. Box 1147, Apopka, FL 32704-1147
 Horticultural Enterprises, 170 S Washington Ave., Apopka, FL 32703-4263
 Hunt, G. Ellis, P.O. Box 631, Lake Wales, FL 33853
 IMC Fertilizer Group, Rainbow Operations, P.O. Box 467, Mulberry, FL 33860
 Kahn Grove Svc. Co., Inc., Att'n: R. Wayne Douberley, 5301 Oakland Rd., Sebring,
 FL 33870
 Kennedy, John, Golden Gem Growers, Inc., P.O. Drawer 9, Umatilla, FL 32784-
 0009
 Manatee Fruit Co., P.O. Box 128, Palmetto, FL 34220-0128
 Maxijet, Inc., Att'n: Thomas Hull, P.O. Box 1849, Dundee, FL 33838-1849
 Morton, Julia F., Morton Collectanea, Univ. of Miami, P.O. Box 8204, Coral Gables,
 FL 33124
 Ocean Spray Cranberries, 925 SW 74 Ave., Vero Beach, FL 32968-9702
 Orange-co of Florida, Inc., Route 1, Box 889, Arcadia, FL 33821
 Polk County Fertilizer Co., P.O. Box 366, Haines City, FL 33845
 Raley Groves, P.O. Box 1112, Winter Haven, FL 33882
 Reese Citrus Insulators, P.O. Box 2352, Lakeland, FL 33806
 Scharfenberg, Carl, Yoder Brothers, Inc., P.O. Box 68, Alva, FL 33920
 Snively, Harvey B., Jr., Snively Enterprises, P.O. Box 968, Dundee, FL 33838-0968
 South Bay Growers, Inc., P.O. Drawer A, South Bay, FL 33493
 Southern Citrus Nurseries, P.O. Box 970, Dundee, FL 33838-0970
 The Collier Co., Grove Division, P.O. Box 413038, Naples, FL 33941-3038
 Tropicana Products, Inc., P.O. Box 338, Bradenton, FL 33506
 Turner Foods Corp., 25450 Airport Rd., Punta Gorda, FL 33950
 United States Sugar Corp., P.O. Drawer 1207, Clewiston, FL 33440
 Updike, John, Jr., Alcoma Packing Co., Inc., P.O. Box 231, Lake Wales, FL 33853
 Vigoro Industries, Inc., C/O Larry J. Bates, P.O. Box 1272, Winter Haven, FL 33880
 Ward, Franklin, W. F. Ward Trust, P.O. Box 177, Avon Park, FL 33825
 Wells, Earl, Florida Nurserymen & Growers Ass'n, 5401 Kirkman Rd., Ste. 650,
 Orlando, FL 32819
 Western Ag. Minerals Co., 16800 Greenspoint Park Dr., Ste. 250N, Houston, TX
 77060
 Zellwin Farms Co., P.O. Box 188, Zellwood, FL 32798

ANNUAL AND HONORARY*

- Abrahamson, Sondra, Florida Grower & Rancher, 1331 N. Mills Ave., Orlando, FL
 32803-2598
 Adair, Robert C., Jr., The Kerr Center for Sustainable Agric., 7055 33 St., Vero
 Beach, FL 32966
 Adams, Howard L., Sakata Seed America, P.O. Box 1103, Lehigh, FL 33970-1103
 Adams, Russell S., Gainesville Tree Farm, 3714 NW 39 Ave., Gainesville, FL 32606
 Adams, William G., Adams Citrus Nursery Inc., P.O. Box 1505, Haines City, FL
 33845
 Ahrens, Joseph, Univ. of Calif., Vegetable Crops Dept., 103 Mann Lab., Davis, CA
 95616
 Albregts, Earl E., Univ. of Fla., IFAS-GCREC, 13138 Lake Gallagher Rd., Dover,
 FL 33527
 Albrigo, L.G., Univ. of Fla., IFAS-CREC, 700 Experiment Station Rd., Lake Alfred,
 FL 33850-2299
 Alcoma Packing Co., Inc., P.O. Box 231, Lake Wales, FL 33859-0231
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 4175
 Allen, James E., Jr., Allen Grove Svc., P.O. Box 1065, Lakeland, FL 33802
 Allen, Leon H., Jr., USDA-ARS, Bldg. 164, Univ. of Fla., Gainesville, FL 32611
 Allison, Charles E., Capital Agricultural Property Svc., 201 S Orange Ave., #790,
 Orlando, FL 32801-3470
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 FL 33850
 Alvarez, Jose, 14332 Horseshoe Trace, West Palm Beach, FL 33414
 Amann, Jack, JJ's Ag. Chemicals & Consulting, Inc., P.O. Box 772146, Winter Gar-
 den, FL 34777-2146
 Anderson, Don, Anderson's Tropical Nursery, 3630 Hwy. 60 E, Bartow, FL 33830
 Anderson, Shirley, 510 NW 122 St., Gainesville, FL 32607
 Anderson, Tim, Daisy Farm, Inc., 9995 SW 66 St., Miami, FL 33173
 Andreis, Henry J., U.S. Sugar Corp., P.O. Drawer 1207, Clewiston, FL 33440
 Ansley, Barbara Jean, P.O. Box 6351, Ft. Lauderdale, FL 33310-6351
 App, James L., Univ. of Fla., IFAS, P.O. Box 110210, Gainesville, FL 32611-0210
 Arnold, Calvin E., Univ. of Fla., IFAS-SWFREC, P.O. Box 5127, Immokalee, FL
 33934
 Atkins, Oliver H., Atkins Nursery, 3129 Reche Rd., Fallbrook, CA 92028
 Augustine, Jimmy J., BHN Research, 16750 Bonita Beach Rd., Bonita Springs, FL
 33923
 Ausk, Wayne, Great Lakes Chemical Corp., P.O. Box 2200, West Lafayette, IN
 47906
 Babb, Raymond, 2410 Babb Rd., Kissimmee, FL 34746
 Baldwin, Elizabeth A., USDA-ARS Citrus & Subtrop. Prod. Lab., 600 Ave. S. NW,
 Winter Haven, FL 33881
 Baldwin, James C., 4311 Shadowwood Trail, Winter Haven, FL 33880
 Balerdi, Carlos F., P.O. Box 565, Goulds, FL 33170
 Ball, Joseph E., Florida Gift Fruit Shippers Ass'n, 521 N Kirkman Rd., Orlando, FL
 32808-7645
 Bar, Ilan, Netafim Irrigation, Inc., 548 N Douglas Ave., Altamonte Springs, FL
 32714
 Barber, William L., Lykes Bros., Inc., 7 Lykes Rd., Lake Placid, FL 33852
 Barnum, Robert L., Possum Trot Tropical Fruit Nursery, 14955 SW 214 St., Miami,
 FL 33187
 Barrett, James E., Univ. of Fla., IFAS, P.O. Box 110670, Gainesville, FL 32611
 Barros, Santiago, 1022 Hammock Shade Dr., Lakeland, FL 33809
 Bartz, J. A., Univ. of Fla., IFAS-Plant Pathology, 2559 Fifield Hall, Gainesville, FL
 32611
 Basiouny, Fouad, Tuskegee Univ., 203 Milbank Hall, Tuskegee, AL 36088
 Bassett, Mark J., 2900 NW 32 St., Gainesville, FL 32605
 Bassett, Robert J., 960 14 Ave. S, Safety Harbor, FL 34695
 Bateman, Howard P., Bright Hour Ranch, 6384 SE CR 760, Arcadia, FL 33821-7412
 Bates, Larry J., 9130 W Lk. Ruby Dr., Winter Haven, FL 33884
 Batty, M. Roy, 205 Madison Dr., Naples, FL 33942
 Baucum, Leslie, United States Sugar Corp., P.O. Drawer 1207, Clewiston, FL 33440
 Bearss, Paul, Superior Fertilizer Co., 14225 Lk. Magdalene Blvd., Tampa, FL 33618-
 2321
 Beasley, Brian R., Coca-Cola Foods, 2060 Kirkland Rd., Auburndale, FL 33823
 Beavers, Casey, 2301 Bremen Ct., Punta Gorda, FL 33983-2602
 Beck, John L., 6565 Ficquette Rd., Windermere, FL 34786
 Beer, Victor, Gutwein Groves, Inc., P.O. Box 158, LaBelle, FL 33935
 Beeson, Richard C., Jr., Univ. of Fla., IFAS-CFREC, 2700 E Celery Ave., Sanford,
 FL 32771
 Behnke, Michael, Highwoods Nursery, 144 N Rifle Range Rd., Winter Haven, FL
 33880
 Belcher, Bryan, Berry Citrus Products, Inc., P.O. Box 459, LaBelle, FL 33935

*Indicates Honorary Member

Bell, Paul David, Florida Southern College, P.O. Box 174, Ft. Meade, FL 33841
 Benedict, J. Frank, 19711 Franjo Rd., Miami, FL 33157
 Bernardi, Franco, Paramount Citrus, 36445 Rd. 172, Visalia, CA 93291
 Bernecker's Nursery, 16900 SW 216 St., Goulds, FL 33170
 Berry, Jack M., Jr., Berry Holding Corp. of Winter Haven, P.O. Box 459, LaBelle, FL 33935
 *Berry, Robert E., P.O. Box 3121, Winter Haven, FL 33881
 Best, Carolyn H., Coop. Exten. Svc., 3811 Palm Dr., Punta Gorda, FL 33950
 Bethea, Sandra, Univ. of Florida, 2001 SW 16 St., Apt. C1, Gainesville, FL 32608-1426
 Biamonte, Richard L., Grace-Sierra, Iron Run Industrial Park, 6656 Grant Way, Allentown, PA 18106
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 Black, Charles, A. Duda & Sons, Inc., 12535 Glades Cutoff Rd., Port St. Lucie, FL 34987
 Black, Robert J., Univ. of Fla., IFAS-Ornamental Hort., 2551 Fifield Hall, Gainesville, FL 32611
 Blair, Robert H., Mount Dora Growers Coop., P.O. Box 36, Mount Dora, FL 32757
 Blanton, Chris, Blanton's Hilltop Nursery, Inc., 11405 Dead River Rd., Tavares, FL 32778-5103
 Bohde, Bill, Florida Southern College, 1175 E. George St., Bartow, FL 33830
 Bohde, Fred, IMC Fertilizer, Inc., 1175 E. George St., Bartow, FL 33830
 Bolla, Mary Ann H., 235 Gillett Ave., Waukegan, IL 60085-2013
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 Boman, Brian, Univ. of Fla., IFAS-AREC, P.O. Box 248, Ft. Pierce, FL 34954
 Bonnell, James M., James M. Bonnell, Inc., 7308 18 Ave. NW, Bradenton, FL 34209
 Borel, Hubert, Maran Groves Corp., 10 Sarasota Center Blvd., Sarasota, FL 34240
 Borland, Richard, Becker Groves, Inc., 3503 Peterson Rd., Ft. Pierce, FL 34947
 Botts, Daniel A., Florida Fruit & Vegetable Ass'n, P.O. Box 140155, Orlando, FL 32814-0155
 Bouis, Frank S., Florida Fruit Co., 27101 U. S. Hwy. 27, Leesburg, FL 34748
 Bourgeois, Wayne J., LSU, LAES Citrus Research Station, 2417 Knightway Dr., Terrytown, LA 70056
 Bournique, Douglas C., Indian River Citrus League, P.O. Box 519, Vero Beach, FL 32961-0519
 Bowen, Jeffrey S., Jack H. Bowen Grove, 1850 Avondale Cir., Jacksonville, FL 32205
 Boyd, Maurice M., McKinnon Corp., P.O. Box 771066, Winter Garden, FL 34777-1066
 Brecht, Jeffrey K., Univ. of Fla., Hort. Sciences Dept., P.O. Box 110690, Gainesville, FL 32611-0690
 Brewton, William S., Division of Plant Industry, 1115 Anastasia Ave., Coral Gables, FL 33134-6337
 Brigham, Hillary, Univ. of Fla., IFAS-FLREC, 3205 College Ave., Ft. Lauderdale, FL 33314-7700
 Brinen, Gary H., Alachua County Exten. Svc., 2800 NE 39 Ave., Gainesville, FL 32609
 Broadaway, Dennis P., P.O. Box 121067, Clermont, FL 34712-1067
 Broda-Hydorn, Susan, USDA-APHIS, PPQ, P.O. Box 59-2136, Miami, FL 33159
 Bronson, Stanley C., Callery-Judge Grove, P.O. Box 810, Loxahatchee, FL 33470
 Brooks, Robert F., Citrus Consulting, Inc., P.O. Box 307, Lk. Hamilton, FL 33851-0307
 Brooks, Valerie A., 15350 SW 83 Ct., Miami, FL 33157
 Broschat, Timothy K., Univ. of Fla., IFAS-AREC, 3205 SW College Ave., Ft. Lauderdale, FL 33314
 Broughton, Dan E., 4173 Domestic Ave., Naples, FL 33942
 Brown, E. A., Rhone-Poulenc Ag Co., P.O. Box 12014, Research Triangle Park, NC 27709
 Brown, G. Eldon, Univ. of Fla., IFAS-CREC, 700 Experiment Station Rd., Lk. Alfred, FL 33850-2299
 Brown, Reginald L., Florida Fruit & Vegetable Ass'n, 2576 Westminster Terr., Oviedo, FL 32765
 Brown, Stephen H., Lee County Exten. Svc., 3406 Palm Beach Blvd., Ft. Myers, FL 33916
 Bruemmer, Joseph H., 4214 Swann Ave., Tampa, FL 33609
 Bryan, Herbert H., Univ. of Fla., IFAS-TREC, 18905 SW 280 St., Homestead, FL 33031
 Bryan, James L., Lk. Garfield Nurseries Co., P.O. Box 154, Bartow, FL 33830
 Bryan, Philip R., Lk. Garfield Nurseries Co., P.O. Box 154, Bartow, FL 33830
 Bryant, Theo, Heart of Florida Greenhouses, Inc., Route 1, Box 265, Zolfo Springs, FL 33890
 Buchanan, David W., Univ. of Fla., IFAS-FLREC, 3205 College Ave., Ft. Lauderdale, FL 33314
 Bullock, Robert C., Univ. of Fla., IFAS-AREC, P.O. Box 248, Ft. Pierce, FL 34954-0248
 Burch, Derek, 4044 SW 4 St., Plantation, FL 33317
 *Burgis, Donald S., 1016 38 St. W, Bradenton, FL 34205
 Burke, Martha R., Ceres 2000, Inc., 450 SR 540, Winter Haven, FL 33880
 Burkhart, Carole L., I.H.S. Farms, 2600 NE Roan St., Arcadia, FL 33821
 Burnett, John A., Brevard Groves, Inc., 9155 Babcock St. SE, Palm Bay, FL 32909
 Burns, Jacqueline K., Univ. of Fla., IFAS-CREC, 700 Experiment Station Rd., Lk. Alfred, FL 33850-2299
 Buslig, Béla S., Florida Dept. of Citrus, 600 Ave. S. NW, Winter Haven, FL 33881
 Byrnes, Robert L., Trail Ridge Nursery, P.O. Box 967, Keystone Heights, FL 32656
 Callery, James, Callery-Judge Grove, P.O. Box 810, Loxahatchee, FL 33470-0810
 Calvert, David V., Univ. of Fla., IFAS-AREC, P.O. Box 248, Ft. Pierce, FL 34954-0248
 *Campbell, Carl W., Univ. of Fla., IFAS-TREC, 18905 SW 280 St., Homestead, FL 33031
 Campbell, Richard J., Fairchild Tropical Garden, 11935 Old Cutler Rd., Miami, FL 33156
 Cancalon, Paul F., Florida Dept. of Citrus, 700 Experiment Station Rd., Lk. Alfred, FL 33850-2299
 Cannavino, Bette O., Seminole County Master Gardener, 210 Nob Hill Cir., Longwood, FL 32779
 Cantliffe, Dan J., Univ. of Fla., Hort. Sciences Dept., 1255 Fifield Hall, Gainesville, FL 32611
 Cargill Information Center, Att'n: Pat Johnson /#70, P.O. Box 5670, Minneapolis, MN 55440-5670
 Carlton, Gregory A., United States Sugar Corp., P.O. Drawer 1207, Clewiston, FL 33440
 Carpenter, Thomas L., Agri-Tech Svc's, Inc., 431 Avenida Del Rio, Clewiston, FL 33440
 Carpenter, William J., Univ. of Fla., IFAS-Environmental Hort., 2541 Fifield Hall, Gainesville, FL 32611
 Carson, David W., Chemical Dynamics, Inc., P.O. Box 486, Plant City, FL 33564-0486
 Carson, Webster B., Chemical Dynamics, Inc., P.O. Box 486, Plant City, FL 33564-0486
 Carter, Hugo A., Carter, Roderick & Gilio, Inc., 602 SW Pine Tree Ln., Palm City, FL 34990
 Carter, Michael A., Ben Hill Griffin, Inc., P.O. Box 53, Frostproof, FL 33843
 Cashion, Geraldine J., 1303 17 St. W, Palmetto, FL 34221-2998
 Cassens, K. D., Cassens Grove Svc., Inc., P.O. Box 613, Ft. Pierce, FL 34954-0613
 Castle, William S., Univ. of Fla., IFAS-CREC, 700 Experiment Station Rd., Lk. Alfred, FL 33850-2299
 Castro, Ben F., Gadsden Co. Exten. Svc., 2140 W Jefferson St., Quincy, FL 32351
 Chandler, Craig K., Univ. of Fla., IFAS-AREC, 13138 Lewis Gallagher Rd., Dover, FL 33527
 Charron, Craig, Univ. of Florida, 2124 SW 39 Dr., Gainesville, FL 32607
 Chase, Ann R., 2614 Thunderbird Dr., Thousand Oaks, CA 91362
 Chason, James, Grace/Sierra, 2365 SE Watercrest St., Port St. Lucie, FL 34984
 Chellemi, Dan O., Univ. of Fla., IFAS-NFREC, Route 3, Box 4370, Quincy, FL 32351
 Chen, C. S., Univ. of Fla., IFAS-CREC, 700 Experiment Station Rd., Lk. Alfred, FL 33850-2299
 Cherry Lk. Tree Farm, Attn: Alan Heinrich, 7836 Cherry Lk. Rd., Groveland, FL 34736
 Cheshire, J. T., Jr., Cheshire Citrus Care, P.O. Box 909, Lk. Placid, FL 33852
 Chesnut, W. Fleetwood, 1866 First St., Vero Beach, FL 32962-2746
 *Childers, Norman F., Univ. of Florida, 3906 NW 31 Pl., Gainesville, FL 32606
 Childs, Reginald L., Diamond R Fertilizer Co., Inc., 3805 Sunrise Blvd., Ft. Pierce, FL 34982
 Citrus Ventures, Inc., Roy R. Carpenter, Jr., 5811 Pelican Bay Blvd., Ste. 625, Naples, FL 33963-2752
 Clark, Gary A., Univ. of Fla., IFAS-GCREC, 5007 60 St. E, Bradenton, FL 34203
 Clarke, Anthony J., Mountain Lk. Corp., P.O. Box 832, Lk. Wales, FL 33859
 Clinton, Dennis, Division of Plant Industry, 1367 NE 27 Ct., Pompano Beach, FL 33064
 Clough, George H., Hermiston Agr. Res. & Exten. Center, P.O. Box 105, Hermiston, OR 97838
 Cloughley, Jim, Jack M. Berry Grove Corp., 490 45 Ct., Vero Beach, FL 32968
 Coca-Cola Co., Technical Information Svc's, P.O. Drawer 1734, Atlanta, GA 30301
 Cohen, Mortimer, 671 NE 195 St., Apt. 221, Miami, FL 33179
 Collins, Charles R., Ward's Nursery, Inc., P.O. Box 850, Avon Park, FL 33825
 Combs, Brian, Horticultural Mgt, Inc., P.O. Box 2337, Vero Beach, FL 32961
 Compton, Margaret S., EPCOT, The Land Agric. Support, P.O. Box 10,000, Lk. Buena Vista, FL 32830-1000
 Compton, Michael E., Univ. of Fla., IFAS-CFREC, 5336 Univ. Ave., Leesburg, FL 34748
 Conklin, Alan R., FMC Corp., CMSD, P.O. Box 1708, Lakeland, FL 33802
 Conover, Charles A., Univ. of Fla., IFAS-CFREC, 2807 Binion Rd., Apopka, FL 32703
 Cook, Bruce A., 9201 Palmer Blvd., Sarasota, FL 34240
 Cook, Ralph W., Cook Machinery Co., P.O. Box 1073, Dunedin, FL 33528-1073
 Cooper, Talbert, Jr., P.O. Box 1900, Ft. Pierce, FL 34954
 Corman, Murray J., Garden of Delights, 14560 SW 14 St., Davie, FL 33325-4217
 Costner, G. C., Costner Caretaking Svc., Inc., Route 4, Box 195, Arcadia, FL 33821
 Coulter, Wallace H., CC Tropicals, P.O. Box 169015, Miami, FL 33116-9015
 Counter, Charles, Berry Citrus Products, Inc., P.O. Box 459, LaBelle, FL 33935
 Coy, Bonnie L., U of Fla., IFAS-AREC, 3205 SW College Ave., Ft. Lauderdale, FL 33314
 Crane, Jonathan H., Univ. of Fla., IFAS-TREC, 18905 SW 280 St., Homestead, FL 33031-3314
 Crane, Stephen E., Rohm and Haas Co., 3682 Liberty Square, Ft. Myers, FL 33908
 Craven, William P., General Delivery, Great River, NY 11739-9999
 Crawford, John H., Crawford Grove Svc., Inc., 10 N Tropical Trail, Merritt Island, FL 32953
 Crawford, Richard J., Univ. of Florida, 2267 Honeycomb Lane, Lakeland, FL 33801-7535
 Crnko, G. Stephen, 417 Brookhaven Dr., Baton Rouge, LA 70808-4824

- Crocker, Timothy E., Univ. of Fla., IFAS-Fruit Crops, 1143 Fifield Hall, Gainesville, FL 32611
- Crovetti, Dr. Aldo J., A. J. Crovetti & Associates, Inc., 735 E. Greenview Pl., Lk. Forest, IL 60045
- Crum, Jesse, Lykes Bros., Inc., 8772 Hwy. 98, Lorida, FL 33857
- Crum, John, Maran Groves Corp., 10 Sarasota Center Blvd., Sarasota, FL 34240
- Crumbly, L. D. (Dave), Coca-Cola Foods, P.O. Box 1706, Avon Park, FL 33825
- Cruse, Mariko, 2215 Holly Oaks River Dr., Jacksonville, FL 32225
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- Cummings, James F., St. Lucie Co. Coop. Exten. Svc., 8400 Picos Rd., Ste. 101, Ft. Pierce, FL 34945
- Curbelo, Juan, Univ. of Florida, 1740 NW 3 Pl., #12B, Gainesville, FL 32603
- Curran, Robert R., Rohm and Haas Co., 8416 SE Palm St., Hobe Sound, FL 33455
- Cushman, Michael, Sun Citrus Ass'n, Inc., 5300 Sun Citrus Blvd., Ft. Pierce, FL 34946
- Cusson, Jeffrey L., Becker Groves, Inc., 16434 Okeechobee Rd., Ft. Pierce, FL 34988
- Cuthbert, Edmund R., Jr., P.O. Box 328, Summerville, SC 29484
- Dancy, Francis L., Sharlyn Citrus Corp., P.O. Box 457, Ft. Pierce, FL 34954
- Darnell, Rebecca L., Univ. of Fla., IFAS-Hort. Sciences, Fifield Hall, Gainesville, FL 32611
- Dave, Bhal A., 3731 Pico Cir., LaVerne, CA 91750-3247
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- Davenport, Tom, Univ. of Fla., IFAS-TREC, 18905 SW 280 St., Homestead, FL 33031
- Davies, Frederick S., Univ. of Fla., IFAS-Fruit Crops, 1143 Fifield Hall, Gainesville, FL 32611
- Davis, Bob, 4448 Glens Landing, Winter Haven, FL 33884
- Davis, W. C., Davis Grove Svc., Inc., 2849 Johio Shores Dr., Orlando, FL 32818-9026
- Dawson, W. Penn, Jr., 971 Bay Esplanade, Clearwater, FL 33515
- De Marco, Debra, Horticultural Svc's, 6730 SW 75 Terr., South Miami, FL 33143
- DeChirico, Gregg W., P.O. Box 700203, Miami, FL 33170
- Delaney, S. David, E.I. duPont deNemours & Co., 13147 Casper Ln., Clermont, FL 34711-9323
- Deszyck, E. J., 9314 Westmoor Dr., Richmond, VA 23229
- Dewenter, Paul A., P.O. Box 44489, Kamuela, HI 96743-4489
- Diaz-Fontana, William R., 235 Chancery Rd., Baltimore, MD 21218
- Dickinson, D. Edward, P.O. Box 1203, Haines City, FL 33845
- Dickinson, James H., Jr., P.O. Box 425, Frostproof, FL 33843
- Diem, Darrin R., Florida Southern College, 7911 DeSoto Mem. NW, Bradenton, FL 34209
- Diem, John R., Southern Ag. Insecticides, Inc., P.O. Box 218, Palmetto, FL 34220-0218
- Dilley, James R., Roland L. Dilley & Son, Inc., P.O. Box 1666, Avon Park, FL 33825
- Dilley, Roland L., Roland L. Dilley & Son, Inc., P.O. Box 1666, Avon Park, FL 33825
- Dinger, Paul, Chemical Dynamics, Inc., 4500 Buckingham Rd., Ft. Myers, FL 33905
- Dobson, David J., Collier Enterprises, P.O. Box 1115, Immokalee, FL 33934
- Dodson, Jeffrey, 8654 69 St. N, Pinellas Park, FL 34666
- Dole Citrus, Director of Operations, P.O. Box 11183, Bakersfield, CA 93389-1183
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COMMENTS ON DEVELOPMENT OF THE ENDOWMENT FUND Of The Florida State Horticultural Society

I have an old-time friend, Dr. Carl Bittner, retired Fruit Extension Specialist at Pennsylvania State University, University Park, who started an Endowment Fund over 15 years ago as a member of their very active State Horticultural Association of Pennsylvania. (Carl and I served on the American Society for Horticultural Science Endowment Fund Committee for a few years and helped build it to its present status.) Back in 1988 when our Society Committee was trying to initiate our own Fund at the FSHS Board Meetings, I asked Carl Bittner for some details on how they got their Fund started and operating. Parts of his reply are given below which may be of interest in further development of our Fund.

“Dear Norm:

“Our Endowment Fund Committee did not develop By-laws for our Constitution as you did (see our FSHS Society By-laws in Vol. 104, pp 289-290. 1991). However, we did develop a brochure. The whole idea probably originated with me. I am a bit hep on endowments. Some years ago I spoke to Dr. Al Krezdorn when he was President (1978) of the American Society for Horticultural Science, to try to get one started with that Society which since has happened and they have well over \$100,000.

“Here is one of my main reasons for promoting the Fund in Pennsylvania. I wanted the scientist who was willing to work on long-term projects to have assured funding over a period of years. All too many researchers today are so anxious to get their names on publications so they will look good on resume's and hasten their promotions, so they work only on short-term projects. Also, much of the money is being allocated over only two- to three-year periods. How can you work on a long-term project like “Winter injury on peaches” unless funding is assured?

“Well, anyway, long-term projects was my aim and so I suggested committee members have long tenure so some over-anxious do-gooder couldn't sway the committee too much in any one year. The stability of the Committee would prevent this. I thought it advisable to have an odd number (nine) of committee members as further protection against rash moves.

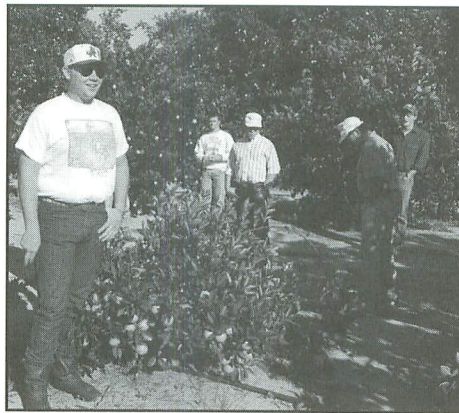
“Our progress has been a bit slow as expected. After a few years of the Fund's existence, we have only reached a bit over \$60,000; our goal is \$100,000 before we start allocating funds from interest earned. We already are earning over \$4,000 interest yearly. I started the Fund by donating \$2,000 and a friend of mine also contributed \$2,000. All of our Committee members except one have donated \$1,000. Donations from bequests are usually generous, but someone has to die to get the larger donations. We are getting there (1988), but more slowly than I like (by 1993 they are above \$100,000).”

It took a little under 15 years for the Pennsylvania Committee to reach their goal of \$100,000 before using the interest. Let's hope we also can have that success. Our Fund now is approaching \$5,000. I shall be leaving the Endowment Fund Committee of FSHS this year (1994), which is the last of the original Committee of William Krome, Carl Campbell, and N. F. Childers. The new Committee of five for 1995 is: Norman Todd, Harvey Snively, Jr., Ed Holcomb, and Ted Winsberg with Charles Conover, Chairman, each serving a 5-year term, a new member appointed each year as one member leaves.

Norm Childers, Chairman
FSHS Endowment Fund Committee to 1995
Editor of Proceedings



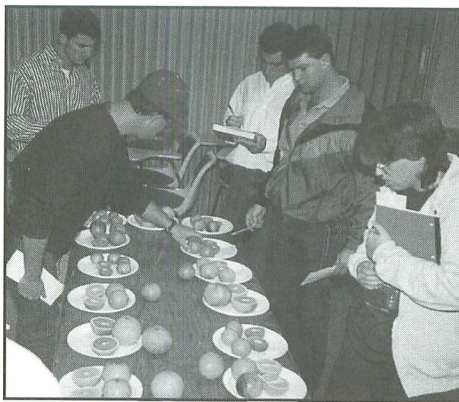
Studying citrus cultivars in campus grove.



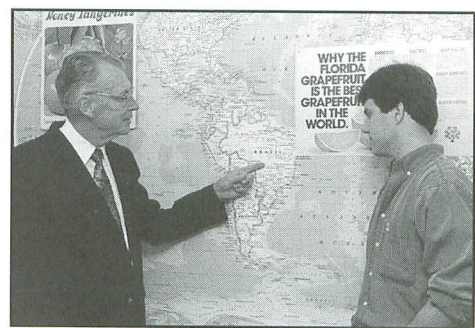
Field trip to experimental plantings.

For more information about FSC's horticultural education programs, contact Rubert W. Prevatt, Chairperson, Department of Citrus and Ornamental Horticulture, Florida Southern College, 111 Lake Hollingsborth Drive, Lakeland, FL 33801-5698; phone 813/680-4333, fax 813/680-4208.

In the 1970s, the Citrus Institute was established to facilitate beyond-the-classroom assistance to students majoring in citrus and ornamental horticulture. A major objective of the institute is to assist students in acquiring the right job after completing their degrees at FSC. The college's location in the heart of Florida's citrus-growing, packing, and processing industries and its proximity to major foliage, floriculture, and vegetable producers is unique. This felicitous situation gives the student the opportunity to establish close associations with outstanding individuals and organizations within these fields, often leading to employment after graduation. The commitment of the department and the institute to provide quality education and to assist in job placement has resulted in virtually a 100% placement rate for its graduates for many years. FSC graduates hold positions of leadership throughout Florida's citrus and horticulture industries. Rubert W. Prevatt serves as director of the Citrus Institute and as department chairman.



Identification of citrus varieties.



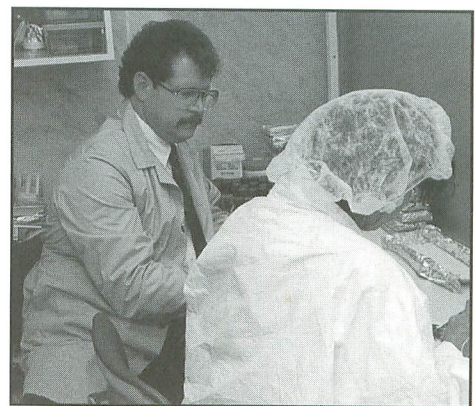
Mr. Schreiber points to a country involved in international citrus marketing.



Landscape laboratory



Flower operation – field trip

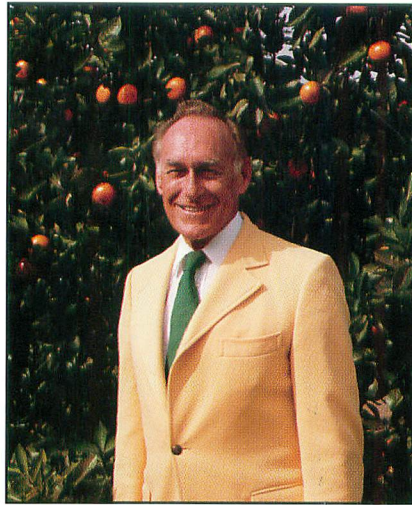


Dr. Griffis assists student in the tissue culture class.

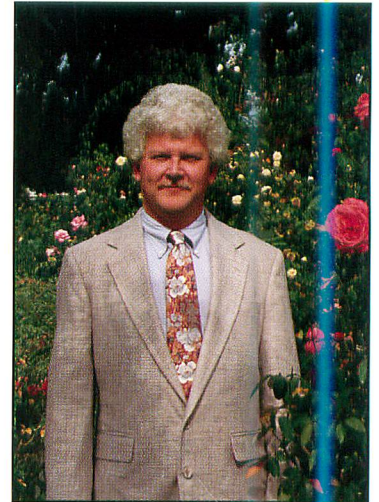
The faculty of the Citrus and Ornamental Horticulture Department, Florida Southern College, Lakeland, Florida.



John Griffis, Assistant Professor of Ornamental Horticulture



Rubert W. Prevatt, Director of Citrus Institute and Chairperson of Citrus Department



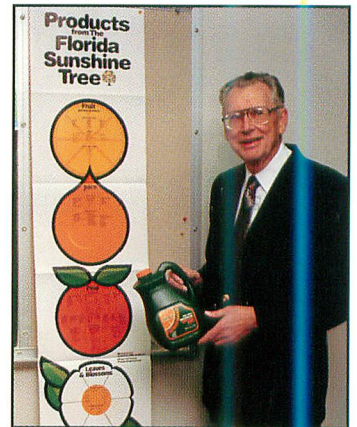
Malcolm M. Manners, Associate Professor of Citrus and Ornamental Horticulture



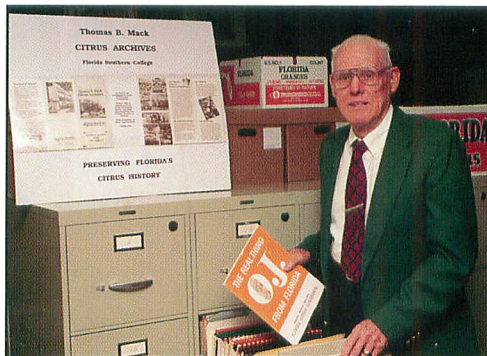
Dr. Robert E. Berry, Adjunct Professor



The Jack M. Berry Citrus Building



Fred Schreiber, Adjunct Professor



Thomas B. Mack, Professor Emeritus