

Sponsored Student Program

'HOMESTEAD', A SUPERIOR GUAVA FOR FRESH MARKET AND FOR PROCESSING

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When guava was introduced in the middle 1800's, it had small fruit size, high acids, and good nutritional value. Crosses made between Ruby and Supreme guava cultivars by Dr. G. D. Ruehle in 1945 resulted in the selection of two red-fleshed fruited trees with good fruit quality and ability to produce. These Ruby Supremes were propagated and distributed worldwide for evaluation. One of the selections, numbered 6-29, was described in this presentation as 'Homestead'. 'Homestead' has high yields of superior fruit. Fruit shape ranges from 4.7-8.0 cm in diameter on the same tree, with an average of 6.3 cm, while weight ranges from 63-292

gm, with an average of 154 gm. 'Homestead' has a dark pink to red pulp which becomes lighter and less sweet after heavy rains. It has excellent flavor and texture, and low acidity, which makes it good for the fresh fruit market. The fruit has about 360 seeds, which take up a large portion of the interior. However, if the fruit is used for juice, there is not much waste. In addition, the thick skins can be used for guava shells. Other uses for guava include puree, preserves, and fresh fruit. Good guavas are tender and must be harvested by hand if for the fresh fruit market, but for processed fruit, the tree is shaken. When planted on a 25' X 25' spacing, yield was 117, 234, and 402 kg for the fifth, ninth, and thirteenth year, respectively. Commercial spacings for 25' X 12-15' can expect yields of 200-250 kg/tree/yr.

COMPARISON OF TWO METHODS IN ESTIMATING POTENTIAL CITRUS EVAPOTRANSPIRATION

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Irrigation water shortages have occurred in southwest Florida during chronic periods of dry weather, in part caused by increased acreage of citrus and competition for water from urban areas. Mandatory cut backs in water supply may be delayed at such times if more precise irrigation scheduling techniques are adopted by citrus growers. At present, traditional methods are not exact, and the potential for over-irrigation exists. An estimate of crop evapotranspiration (ET) is necessary to accurately calculate the water requirements of citrus groves.

The objective of this study was to compare ET estimates from weather data using the Penman equation and ET measured using an evaporation pan. Climatic data were obtained from the weather station of a local grower and pan data from Immokalee Research Station. A linear correlation analysis of mean daily, weekly and monthly potential ET values between the two methods gave correlation coefficients of 0.74, 0.88 and 0.95 respectively, even though the two data collection points were 12 km apart. It was concluded that both methods tested for estimating potential citrus evapotranspiration (ET) should provide sufficiently accurate data for use in irrigation scheduling models.

CITRUS IRRIGATION WITH RECLAIMED MUNICIPAL WASTEWATER

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Increases in urban growth have increased the amount of waste water produced that needs to be disposed. The EPA is concerned with the disposal of waste water in to the environment, so alternative disposal methods have to be found. Conserv II is a project which uses highly treated waste water on citrus for irrigation. At present, 30 groves are under investigation with 9 of these receiving well water with a total of 7000 acres in the project.

Waste water is monitored so that maximum levels of various constituents are not exceeded. Increases in Na, Fe, Mn, N, P, Ca, and MG have been observed in groves irrigated with the municipal waste water. A slight decrease in Zn was also found. Na increased under both irrigation methods possibly due to fertilization practices. Increases in fruit number and fruit size was seen in the waste water groves; however, there was a reduction in soluble solids and acid of fruit from these groves.

A DEMONSTRATION XERISCAPE WITHOUT EXISTING NATIVE LANDSCAPE

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Various Xeriscape design principles have involved the use of existing native vegetation in the landscape design. The average homeowner, on the contrary, usually has very little or no existing vegetation with which to work when doing a landscape design. In addition, restrictions on water use have led many homeowners to switch to a non-vegetative landscape, commonly gravel. These typical obstacles led to the Xeriscape demonstration in Marco Island, Florida. This area in Florida commonly suffers yearly water shortages. A conventional urban lot without existing native vegetation was chosen for the demonstration.

The first step involves a landscape plan to be designed. Drought tolerant plants are the primary choice. In the demonstration, shrubs are used to screen out the undesirable features of the home. The shrubs are also used to separate the main street from the home. The landscape is accented with

minimal use of turfgrass. The remaining areas call for the use of mulch. After the completion of the design on paper, the irrigation is set up. The right size plumbing has to be used to deliver the appropriate amount of water to the plant. Extra hook ups are installed to allow expansion if desired in the future. Following the set up of the plumbing for irrigation, the chosen plants are placed according to the landscape plan. A weed mat is placed in areas where mulch is used to surround the vegetation or on sloped terrain. It helps prevent erosion, caused by water run off. It also helps deter percolation, the loss of water for the plants to ground water. This movement of water, in addition, causes *leaching of minerals*. Upon completion of the planting, the final irrigation set up is required. A combination of low profile nozzles and drip tubing make the landscape design more water efficient. The choice of an advance irrigation control system adds greater versatility.

In the demonstration, a 40% reduction in the average residential turfgrass usage was attained. In addition, water savings are projected to be over 60% the conventionally designed and operated residential landscapes.

EVALUATION OF TRIPLOID WATERMELON CULTIVARS IN CENTRAL AND WEST CENTRAL FLORIDA

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Thirty triploid watermelon cultivars were evaluated in field trials at Bradenton and Leesburg in 1988 and 1989. The cultivars were ranked in the following areas: early yield, total yield, fruit weight, soluble solids, and incidence of hollowheart. The top ten cultivars and a few characteristics of each are listed below.

AMX 7929—highest total yield, little hollowheart;
CFREC 88-2—good color, good soluble solids;
CFREC 88-4—oblong shape, good fruit weight, some hollowheart;
CFREC 89-4—oblong shape, early variety, good fruit size;
Tri X-313—good fruit size, especially free of hollowheart;

ACX 87B7025—large fruits, fair soluble solids, quite a bit of hollowheart;

ACX 87B7026—looks like Tri-X 313, produced largest fruit (16-19 lbs);

HMX 6920—looks like Queen of Hearts, good fruit size, fairly low hollowheart;

XPH 9039—looks like Tri-X 313, good sugars and soluble solids, some hollowheart;

PSR 49087—looks like Sugarbaby, smallest fruited (10-11 lbs), some hollowheart.

The large number of cultivars entered in the trials is proof that there is great interest in improved triploid watermelons. Experimental lines were generally superior to named hybrids, and only one commercial variety was ranked in the top ten. Many new hybrids should be available soon.

THE EFFECT OF KELTHANE ON SNOW SCALE POPULATIONS AND SEX RATIO

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This paper dealt with the effect Kelthane MF has on the population and sex ratio of snow scale. Summer and post-bloom sprays were applied to grapefruit trees which were infested by snow scale. The methods of applying the material was by a high volume hand gun and by a conventional air blast speed sprayer. Different chemical rates and volumes were used, as well as direct spraying of the trunk and scaffold

limbs by hand gun. Populations of female, male and crawlers were counted throughout the experiment. The sex of each scale was very important because Kelthane is thought to change the sex ratio from a greater population of males to more females, which would result in a larger infestation of snow scale. The data that were received showed there was no significant increase in the overall population of scale or a shift in the female to male sex ratio.

The information gained from this research will be beneficial to the citrus grower when Kelthane is used and where there is a population or infestation of snow scale.

TENSIOMETERS FOR IRRIGATION SCHEDULING IN A FLORIDA CITRUS GROVE

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The report on tensiometers in citrus groves was very informative. I found it interesting that they were placing the tensiometers in both wet and dry areas and waiting for both to

read 15 bars before irrigating. In our classroom discussions it had been suggested that the 6" tensiometers were the ones used to schedule irrigation. This same observation was pointed out in the presentation. The presentation recommended using the 18" and 38" tensiometers to judge whether you were irrigating too much.

As water restrictions become a larger influence on our irrigating habits, we will need these kinds of tools to aid us.

PERFORMANCE OF THE AMBERSWEET ORANGE HYBRID

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During the last several years the total citrus acreage has been increasing fast. For the most part, Hamlin juice color is often quite poor thus causing processing plants to encounter problems in meeting current product color standards. In an attempt to solve this problem the citrus breeding program at the ARS-USDA laboratory in Orlando has developed the Ambersweet orange. This orange hybrid has characteristics which

will allow it to be used in the fresh as well as the processed markets. The fruit size and peel thickness closely resemble the Navel orange. The Ambersweet orange can reach minimum taste and color standards by mid-October and can be marketed through December. This will allow it to be harvested before any real threat of cold damage. The tree itself grows quite vigorously and usually produces consistently on Carrizo citrange, sour orange, rough lemon, and Cleopatra mandarin rootstocks. The tree is also quite cold hearty. Research indicates that the Ambersweet orange hybrid should be quite useful to the Florida citrus industry.

NEW FRUIT CROPS FOR FLORIDA

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The one hundred and second annual meeting of the Florida State Horticultural Society was the first meeting that I have attended. I am a Senior horticulture student, and I found the meeting to be very interesting. The papers that I enjoyed and profited from the most were those of the Krome Memorial Section. Although I was not able to attend all of the papers in the Krome section, the ones I attended were on blueberries, carambola, passionfruit and guava, and they were very informative.. There is relatively little information in the literature about these crops in Florida. The research

presented by the members opened up many new ideas for me.

Although the research was inclined toward crop production and processing, the information was relevant to the field of horticulture. As the new fruit crops become more profitable and popular in Florida, it follows that residents in Florida will want these crops in their dooryard gardens, or at least specimen plantings. A nursery that offers such plants, and who is knowledgeable about the growth and flowering habits of these plants is a goal that I hope to achieve one day. Attending this years meetings has answered many of my questions, and has broadened my goals. In the years to come, I hope I will be able to attend the annual meetings, and keep abreast with the developing research.

BLUEBERRIES GROWN IN FLORIDA

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Dr. Lyrene discussed the growth of blueberries from the past years to present in Florida. The main Florida type that is going to be a standard is the Sharpblue highbush. There are a few new types coming into the field that show promise. For

example, the Sebring 2-1. This bush is highbush and it produces high quality berries. The recommendations on how to plant a new grove of blueberries would be every fourth row to put a row of Sebring 2-1's. The reasoning behind this is to assure pollination. The Sharpblue plants are self-pollinating, but to assure the highest yield it is highly recommended to use this planting design. The projected growth in Florida Blueberry production is expected to double in the future because of the high profit involved in the crop.

WHAT IS XERISCAPE?

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Xeriscape is water conservation through landscaping. When we use Xeriscaping we use plants that are drought tolerant and, therefore, do not require much attention. With the proper plant selection we can significantly reduce the amount of water being used, and this is very important considering the water restrictions now in effect in many areas of Florida.

Xeriscape usually means that we use mostly native plants. However, some non-invasive exotics may be used. Examples of such drought tolerant plants are oaks, pines, acacias, citrus and many palms. Along with the use of mulches to help hold water and the use of proper plants, we can grow a beautiful and easy-to-maintain garden. The proper selection and placement of plant groups according to their water needs is important. We do not want to have plants that require a lot of water and plants that require little water growing together because it will be nearly impossible to give each the proper watering.

USING HEAVIER OILS (455 + 476°F) FOR CONTROL OF GREASY SPOT

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In order to control greasy spot, mites, and other pests Florida citrus growers have used spray oils having a distillation temperature of 435°F. Recently, improvements in the oil refining techniques have reduced phytotoxicity risks, and al-

lowed the use of higher distillation temperature oils (455 and 476).

Trials were conducted in the 1987-88 year to determine the effectiveness of these heavier oils.

In 2 out of 5 tests, the heavier oils gave better control of greasy spot on leaves.

When mixed with copper fungicides, however, the lighter (435) oils seem to perform better by controlling greasy spot rind breakdown.

LOW CHILL PEACHES IN SOUTH TEXAS AND POTENTIAL FOR CENTRAL FLORIDA

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There are several varieties of peaches being grown in south Texas, which are making a substantial market. These varieties are being grown in regions that have only about

150-200 chill hours annually. This amount of chilling is comparable to central Florida (Ocala south to Lake Okechobee). The peaches are being harvested in April and May, before the northern peaches reach the market. The peaches have a fine flavor and good color and shape. These peaches should be tried in central Florida to increase the state's agricultural income.

TENSIOMETER FOR IRRIGATION SCHEDULING IN A FLORIDA CITRUS GROVE

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In the citrus industry today, water restrictions are becoming more and more prevalent. Thus, a better way of indicating irrigation needs is a must. Relying on the boot method just won't apply today. Tensiometers seem to be a better answer

for this problem. Giving the grower reliable information about soil moisture availability for his trees can be accomplished through the proper use of tensiometers. The secret to getting accurate information from tensiometers may lie in the way they are arranged in the field. More and more pressure will be placed on the grower to use water more efficiently and the tensiometer can be a helpful tool to do this.

Constitution

Article I—NAME—This organization shall be known as the Florida State Horticultural Society.

Article II—OBJECTIVE—The objective of this Society shall be the advancement and development of horticulture in Florida.

Article III—YEAR—The years shall begin January 1 and close December 31.

Article IV—CLASSIFICATION OF 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 this constitution.

Article V—ELIGIBILITY FOR MEMBERSHIP—Any individual, firm or partnership interested in the development and advancement of horticulture in Florida shall be eligible for membership.

Article VI—DUES—Dues shall be paid annually according to classification at rate as prescribed in By-laws.

Article VII—ANNUAL MEETING—The Society shall hold an annual meeting each year in accordance with the By-laws unless prevented from doing so by causes beyond its control.

Article VIII—SECTIONS—The Society shall be divided into sections representing various horticultural interests as provided in the By-laws.

Article IX—OFFICERS—The officers shall consist of a President, a Vice-President from each section, a Secretary, an Editor, a Program Coordinator, and a Treasurer, which officers shall be elected by a majority vote of the membership present at the annual meeting and shall assume their respective offices as designated by the majority of the Executive Committee. The Editor, Program Coordinator, Secretary and Treasurer shall each be elected for a five year term, and no member shall serve in these offices more than two such terms. To provide continuity, the Executive Committee shall, insofar as practical, arrange that no more than two of these offices terminate at the same time.

Article X—SUCCESSION—In the absence of the President or his inability to serve temporarily the Vice President of the Citrus Section shall serve instead. If the position of President is vacated, the Executive Committee shall designate his successor.

Article XI—EXECUTIVE COMMITTEE—The Executive Committee shall consist of not more than 15 persons including the immediate Past President and all Officers above named, the others to be selected at same time and in same manner as prescribed in Article IX. The immediate Past President shall be chairman of the Executive Committee. The Executive Committee shall have authority to act for the Society between annual meetings.

Article XII—MEETINGS OF THE EXECUTIVE COMMITTEE—The Executive Committee shall meet upon call of the Chairman at such time and place as may be approved by a majority of the Committee. A majority of the Committee shall constitute a quorum. The Committee may be canvassed by mail and vote by ballot in like manner.

Article XIII—COMMITTEES—The Chairman of the Executive Committee shall, with the approval of the Executive Committee, appoint all standing or special committees as provided in the By-laws.

Article XIV—DUTIES OF OFFICERS—The *President* shall be the official head of the Society and preside at the general session of the annual meeting. He shall be directly responsible to the Executive Committee and may be removed from office for cause by an affirmative vote of a majority of the full Executive Committee.

The *Vice Presidents* shall be members of the Executive Committee. 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.

The *Secretary* shall record all records of all meetings of the Executive Committee and shall be responsible except as may otherwise be designated in the By-laws for recording and keeping proceedings of the annual meeting. He shall likewise issue and mail out statements of dues to the membership, notices of meetings and perform such other duties as ordinarily accrue to that position.

The *Editor*, and the *Program Coordinator* shall perform such duties as may be prescribed and authorized by the Executive Committee.

The *Treasurer* shall be responsible for all funds paid into the Society and shall issue and countersign all vouchers paying bills or accounts against the Society. The Treasurer shall be placed under bond in an amount determined by the Executive Committee, premium on which shall be paid by the Society.

Article XV—AMENDMENTS—This Constitution may be amended at any annual meeting upon the recommendation of a majority of the Executive Committee when approved by a majority vote of the membership present.

Article XVI—EFFECTIVE DATE—This Constitution shall become effective immediately upon approval by a majority vote of the membership at the annual meeting in October 1951.

This Constitution was revised at the annual meeting in November 1963, in November 1967, November 1973, November 1986, November 1988.

1. The Society's year shall begin January 1 and end December 31.
2. Dues—dues shall be paid annually for the current year and shall be payable to the Treasurer of the Society. Dues shall be as follows:

Annual Membership	\$ 25.00
Patron Membership	\$100.00
Annual Membership (student)	\$ 5.00

3. Annual Meetings—the Society shall hold an annual meeting in the fall of each year at a place and time selected by a majority vote of the Executive Committee. The order of business at the annual meeting shall be determined in advance each year by the Executive Committee.

4. The meetings of the Society shall be devoted only to horticultural topics, from scientific and practical standpoints, and the presiding officer shall rule out of order all motions, resolutions and discussions tending to commit the Society to partisan politics or mercantile ventures.

5. SECTIONS—The Society shall consist of the following sections:
 - Citrus Section
 - Vegetable Section
 - Krome Memorial Institute
(Tropical and Deciduous Fruits)
 - Ornamental Section
 - Handling and Processing Section
 - Garden and Landscape Section

Other sections may be added on recommendation of a majority of the Executive Committee when approved by a majority vote of the membership present at an annual meeting.

By-Laws

COMMITTEES

Nominating Committee—The President shall appoint a Nominating Committee consisting of not less than 2 persons from each section, 1 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 Executive Committee 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 for that Section. Such nominations by the committee, however, shall

not preclude nominations from the floor. The President shall designate a member of this committee as Chairman.

Membership Committee—The Chairman of the Executive Committee shall appoint a Membership Committee consisting of at least 3 members from each Section initially appointed for 1 to 3 year terms and designated on a rotating basis so after the third year all members will be appointed for a 3 year term with no more than one-third of the members renewed for any given year. The Executive Committee Chairman shall designate the Chairman of this committee as Membership Coordinator. This committee

shall develop plans for soliciting and promoting new memberships throughout the year and for assuring the needs of the membership are being met by the services and activities of the Society. The Membership Coordinator shall meet with the Executive Committee when requested by the Chairman, and shall make recommendations to the Executive Committee on membership enlargement, participation and related activities.

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 the Secretary and Treasurer shall be ex officio members.

Student Affairs Committee—The Chairman of the Executive Committee shall appoint a Student Affairs Committee comprised of 1 member each from the faculties of all educational institutions in the State of Florida offering a 4 year horticultural program leading to a Bachelor's degree, 2 members representing different industries, and 2 student members from different institutions. Membership of this committee shall be initially appointed for 1 to 3 year terms and designated on a rotating basis so after the third year all members will be appointed for a 3 year term with no more than one third of the members renewed any given year. The Chairman of this committee will be the Student Affairs Coordinator, and he shall report to the Executive Committee 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 students at meetings, reports of students and other student-related activities.

Editorial Committee—The Chairman of the Executive Committee shall appoint an Editorial Committee consisting of one Associate Editor from each of five Sections, and the Editor who will serve as Associate Editor for the sixth Section. This Committee shall meet with the Editor as called, and assist him in the editing and preparation of manuscripts for publication in the Proceedings as needed. Names of nominees for Associate Editor positions shall be presented to the Executive Committee along with brief resumes of their background and qualifications. Associate Editors shall then be appointed by the Chairman with the approval of the Editor and the Executive Committee. Such appointments shall be for a 3-year term with option for renewal.

Auditing Committee—The President with the approval the Executive Committee 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 Executive Committee.

Awards Committee—There shall be separate committees on awards, as follows:

(1) *Presidential Gold Medal Award Committee*.—The Presidential Gold Medal Award Committee shall consist of the Chairman of the Executive Committee, who shall act as Chairman, and three or more other members of the Society appointed by the President.

The Presidential Gold Medal shall be awarded to one individual who has contributed most to Florida horticulture through work published in the *Proceedings* over the preceding time period 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 award will 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.

(2) *Best Paper Award Committees*.—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 members who a) most recently have served as vice-president of the respective sections, but b) who were not authors of papers in that volume of the *Proceedings* from which the selection is being made, and c) who remain members of the Society. If less than three 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 Committee will select the best and most meritorious paper as printed in the previous year's *Proceedings* for its respective section.

This award shall consist of a medal and printed certificate suitably inscribed, and an honorarium of \$200.00.

(3) *President's Industry Award Committee*.—The selection of the paper qualifying for the President's Industry Award will be made by a committee consisting of a least one member from each section of the Society, appointed by the President. The award will be presented to the author of the single best paper given at the Florida State Horticultural Society's 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 President's discretion.

(4) *Council Memorial Tomato Research Award*.—This award shall be presented based upon \$2,500, donated to the Society 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 Executive Committee, and four other members of the Society 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 previous calendar years. The senior author of the publication upon which the award is based must be an active member of FSHS. At the discretion of the Chairman, 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 \$200.00 honorarium.

DEPOSITORY

The Executive Committee shall have authority to select a depository or establish a trusteeship for funds of the Society as it may deem in the best interest of the Society.

"All uncommitted funds shall be invested by the Treasurer in Federally-insured investments approved by the Executive Committee. For prudent operation and financial security of the Society, funds in the amount at least 1.5 times Annual Budget shall be maintained whenever possible, and such Reserve Funds shall not be allowed to exceed 2.5 times Annual Budget. Deviations from these practices may be authorized by a majority vote of the Executive Committee."

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 by the President or in his absence the Vice President of the Citrus Section and countersigned by the Treasurer.

RESOLUTIONS

Resolutions may originate either in the Resolutions Committee or in a regularly scheduled sectional business meeting. In the latter case, the resolutions must be supported by a majority vote of those members present and voting. All resolutions will be evaluated by the Resolutions Committee and transmitted with its recommendation to the Chairman of the Executive Committee. He will place them before the full Executive Committee by either (a) calling a special meeting of the Executive Committee or (b) instructing the Secretary to poll the members of the Executive Committee. Those resolutions approved by at least eight members of the Executive Committee will be presented by the Chairman of the Resolutions Committee to the membership at the annual business meeting for action by the Society as a whole.

HONORARY MEMBERS

Any individual who has rendered especially meritorious service to the Society and to the advancement of horticulture in Florida may be designated by a two-thirds vote of the full Executive Committee of the Society as an Honorary Member of the Society. Such honorary members shall not be required to pay dues.

EXECUTIVE COMMITTEE MEMBERS-AT-LARGE

For service in 1987 one of the Members-at-Large of the Executive Committee shall be elected for a two-year term and one for a one-year term.

For service in 1988 and thereafter, one Executive Committee Member shall be elected each year for a two-year term.

REPORT OF THE EXECUTIVE COMMITTEE, 1989

MOTIONS PASSED AND IMPORTANT DISCUSSIONS OF THE FIRST MEETING JANUARY 12, 1989

Financial status of the society was discussed. Reserves are low due to unusual expenses of Centennial Meeting and the considerable increase in the cost of printing the Proceedings. Motion that the Society's financial situation be reviewed at the end of the year was passed. Status of graduate student paper awards was discussed. Motion passed that the awards be continued for another year. A suggestion was made to identify graduate student papers and to schedule them better. Changes in the cover of the Proceedings were discussed. A proposal by the editor to print a color cover at his expense was tabled to allow members of Executive Committee to give it appropriate consideration. Changes in the honorary membership application were addressed. It was stressed that the new nominating form should center around what the member had done to Florida horticulture and to the Florida State Horticultural Society. Motion to approve a new form was tabled. New election procedures were discussed. They involve election of the secretary, treasurer, program coordinator and editor to five year terms as outlined in the By-Laws. Exact method of election was not specified in the By-Laws. Chairman Hatton requested that the Nomination and Election Committees meet again and report at the next Executive Committee meeting. Motion passed not to have a meeting abstract booklet this year and that the subject be tabled until a report of expenses involved are presented by the Program Coordinator. Status of the Newsletter was discussed. It was decided that only 2 issues be published this year and to include the President's Letter in the first issue. Executive Committee approved appointment of associate editors and expressed confidence in IFAS administration. Motion that the Society pay for the Chairman's expenses at the Annual Meeting was approved.

MOTIONS PASSED AND IMPORTANT DISCUSSIONS OF THE SECOND MEETING APRIL 13, 1989

Norman Childers, Editor of the Florida State Horticultural Society offered to pay the cost of a new color picture cover of the Society Proceedings. After discussion, Mr. Krome moved to accept the offer. Motion passed. The question whether to continue the picture cover will be placed on the agenda for the next Executive Committee meeting. Sal Locascio, editor of the first FSHS Newsletter, was complimented for a fine job of editing and publishing the Newsletter. The Society will have for the first time commercial/educational exhibits at the 1989 Annual Meeting. Al Will was given approval by the Executive Committee to contract with a commercial company to provide 30 booths. New election procedures with two nominees run for each office was presented by Pete Stofella, Chairman of the Election Committee. Following lengthy discussion, motion was passed to rescind actions taken by the Executive Committee on August 24 and November 1, 1988, and that the Society should maintain its old election procedures. New application form for nomination of Honorary member in the Society was discussed and a motion to accept it was approved. Bill Wiltbank reported that the Society has 49 Patron Members whose dues subsidize students attendance of the Annual Meeting. Motion passed to authorize Site Selection Committee to negotiate with the Doral Hotel in Miami Beach as a possible site for the Society's 1991 meeting. Information was presented by Norman Childers on establishment of Endowment Fund for the Society. Motion to approve registration fees for the 1989 meeting was approved. Motion passed approving \$1200.00 for door prizes in 1989. Discussion on term of office for Society officers was resumed. Motion passed that the 5-year term of secretary would start in 1990, 1991 for the editor, 1992 for program coordinator and 1993 for the treasurer.

MOTIONS PASSED AND IMPORTANT DISCUSSIONS OF THE THIRD MEETING August 29, 1989

Gerald Zachariah, Vice President of Agricultural Affairs, will be Principal Speaker at the Annual Meeting in Tampa. The Proceedings' color cover was discussed. A committee was appointed to establish guidelines for determining acceptability of color pictures for the cover. Guidelines will be published in the Newsletter. Cost of printing the Proceedings was \$4000 more than anticipated. The Newsletter publication will follow Executive Committee meetings. Student membership due will be kept at \$5/year. Julia Morton was elected Honorary Member by unanimous vote. The 1990 meeting of the Florida State Horticultural Society at the Grosvenor Resort Hotel in Lake Buena Vista (Orlando), conflicts with the 1990 meeting of the American Society for Horticultural Science in Tucson, Arizona. Consensus was that such conflict will cut into FSHS paper presentations and attendance. Committee was appointed to renegotiate a new meeting date with the Grosvenor Hotel and avoid any penalty as a result of the change. A contract with the Doral Beach Resort of Miami Beach for the 1991 meeting on October 29, 30, and 31 was presented. Motion to approve meeting dates was passed. Topics for section workshops were discussed. No reduction in dues for retired members was approved. A straw vote of the Executive Committee on having a banquet was 8 for, 6 against. Motion not to have a banquet in 1989 was approved. George Edwards of the Citrus Research and Education Center was appointed official photographer for the Society during the 1989 Annual Meeting.

MOTIONS PASSED AND IMPORTANT DISCUSSIONS OF THE FOURTH MEETING October 31, 1989

Final details of annual meeting were presented and discussed. Four hundred and forty-seven preregistrations were recorded and 80 spouses registered for the luncheon. Many local horticultural businesses donated plants and flowers, including gladiolus from California.

The 1990 meeting of the FSHS has been rescheduled for December 17, 1990 at the Grosvenor Resort Hotel in Lake Buena Vista because of conflict with the American Society of Horticultural Science meeting in Tucson, Arizona, November 4-10. The new date was selected following lengthy consultations with department chairman in Gainesville, several individuals at research centers and members of the Executive Committee.

A contract for the 1991 meeting has been signed with the Doral Hotel in Miami Beach. The meeting is scheduled for October 28-31.

An Ad Hoc Financial Review Committee was appointed by Chairman Hatton. The committee will be chaired by Dr. Will Waters. Three associate editors were reappointed for 3 years.

Chet Townsend presented guidelines for the Color Photo cover for the Proceedings. A Cover Selection Committee of 5, including a minimum of 2 growers will select suitable covers. Coverage will rotate between sections. Executive Committee must approve covers. Sponsorship of color covers will be solicited and sponsors will be acknowledged. Immediate past president from eligible section will chair the committee.

Establishment of Endowment Fund was discussed. Subject was tabled till January Executive Committee meeting.

Resolution passed by unanimous vote in recognition of George J. Edwards contribution to FSHS.

Contract with Painter Printing Company was approved by the Executive Committee.

Possibility of printing one program was discussed but no change in the present system was approved.

Publication of Summaries of Executive Committee meeting in the Newsletter was approved to eliminate their reading at the annual business meeting.

A motion to modify the registration form in 1990 to reflect members' interest in various sections was approved.

President Krome suggested that the Society form a committee on the environment to provide technical information to legislators, government officials, and private organizations on matters of environmental and horticultural concerns. The committee should identify resource persons within the Society who can provide information. Motion to approve proposal was passed. The committee will be appointed by the President within the next few months. It will be known as the Committee on Horticultural and Environmental Matters.

Next Executive Committee is scheduled for January 18, 1990 in Lake Alfred.

Respectfully submitted,
Mohamed A. Ismail
Secretary

MINUTES OF THE 102ND ANNUAL MEETING November 2, 1989 Tampa, Florida

Meeting was called to order by President Krome at 4:20 p.m. A moment of silence was observed in honor of Dr. A. H. Krezdorn and Dr. Chester D. Leonard, long-time members who had passed away during the year. The Secretary moved to adoption of the minutes of the 101st Annual Business Meeting as published in the Society Proceedings Volume 101, page 418. Motion was seconded and carried.

The Secretary read the report of the Executive Committee for 1989. Motion that it be accepted was made by Bill Grierson, seconded by George Edwards. Motion passed. The report is published elsewhere in the Proceedings.

Mohamed Ismail reported that the Society currently had a membership of 1,817.

Norman Childers, Proceedings editor, thanked authors of papers from the 1988 meeting for their cooperation in getting papers ready so that the Proceedings could be published by May. He announced that Associate Editors Sal Locascio, Vegetable Section; Paul Lyrene, Krome Memorial; Steven Verkade, Ornamental Section; Adair Wheaton, Citrus; Bob Baker, Handling and Processing and George Fitzpatrick, Garden and Landscape have been appointed to a 3-year term.

P. R. Reed, Treasurer, read the financial statement. He moved that it be accepted as read. Motion was seconded and passed.

Dr. Carl Campbell read a resolution by the executive Committee commending George Edwards for his efforts as photographer for the Society's meetings and for his contributions to its proceedings, and presented the resolution to him. Carl Campbell moved for the adoption of the resolution. Motion was seconded and passed.

Gary Wilfret presented awards for graduate student papers. Honorary mention went to K. D. Larsen and C. A. Martin. Bruce Topp was presented the award for best graduate student paper. He receives a certificate and a check for \$100.00.

President Krome reported that 84 people had worked together to make the 1989 meeting a success. He cited particularly Norman Childers, Sal Locascio, Gary Wilfret, Chet Townsend, Bob Berry, Al Will, A. J. Overman, R. R. Reed and Mohamed Ismail.

Peter Stofella reported for the nominating committee. Nominated as officers for 1990 were:

President—Thomas J. Sheehan
Chairman—William H. Krome
Vice Presidents:
Citrus—Charles O. Youtsey
Garden & Landscape—Robert L. Byrnes
Handling & Processing—Jeffrey K. Brecht
Krome Memorial—Gene Joyner
Ornamental Section—Robert H. Stamps
Vegetable—Ken D. Schuler
Secretary—Mohamed A. Ismail
Treasurer—R. R. Reed
Editor—Norman F. Childers
Program Chairman—Gary J. Wilfret
Members-at-Large—Donald N. Maynard
Robert E. Berry

President Krome asked for nominations from the floor. Jim Griffiths moved that a unanimous ballot be cast for the above nominees. Motion was seconded and passed.

Door prizes were awarded to:

Phyllis Galreath—Package of carambolas
Charles R. Orman—Carry on bag
G. Eldon Brown—Telephone answering machine
Michelle Curtis—Nikon Camera
D. L. von Windeguth—Trip to Savannah

There being no further business, the meeting was adjourned at 5:00 p.m.

Respectfully submitted,
Mohamed A. Ismail
Secretary

FLORIDA STATE HORTICULTURAL SOCIETY Membership Report December 31, 1989

	1988	1989	Total
New Members			
Patron		1	1
Annual		100	100
Student		30	30
Colleges and Libraries		—	—
Out-of-Country		17	17
Old Members			
Patron	5	48	53
Annual	303	1,108	1,411
Student	21	28	49
Colleges and Libraries	39	15	54
Out-of-Country	64	87	151
Honorary Members			42
Totals	432	1,434	1,908

FLORIDA STATE HORTICULTURAL SOCIETY
Financial Statement

Balance on hand January 1, 1989 \$ 9,548.37

RECEIPTS:		
1989 Patron	\$ 5,100.00	
1989 Annual	27,305.00	
1989 Student	270.00	
1988 Dues	3,890.00	
1990 Dues	3,635.00	
Index, Proc. & Misc.	4,183.36	
Interest	2,192.39	
Page Overage, Vol. 100	616.25	
Page Overage, Vol. 101	10,602.75	
Booth Rental	5,700.00	
Registration Fees	14,105.00	
Spouse Registration	890.00	
Student Registration	415.00	
	<u> </u>	\$78,904.75
		<u>\$88,453.12</u>

DISBURSEMENTS:		
Proceedings, 1988	\$32,262.13	
Sta., Stamps & Printing	5,629.08	
Fla. Agric. Council Dues	100.00	
Misc.	2,363.86	
Audit	500.00	
Clerk Hire	12,000.00	
Spouses Program	1,411.35	
Door Prizes	1,270.33	
Executive Committee Meeting	1,640.35	
Student Program	3,744.12	
Meeting Expenses	14,105.62	
Exhibit Expenses	4,583.18	
Awards	1,900.00	
	<u> </u>	\$81,510.02
Balance as of January 1, 1980		<u>\$ 6,943.10</u>

Investments as of Decembr 31, 1989

<u>Certificates of Deposit</u>	<u>Amount</u>	<u>Interest</u>
First Union Bank	\$10,000.00	8.35
First Union Bank	10,000.00	9.15
 <u>Mortgage Certificate</u>		
First Mortgage Corp. of Winter Haven	50,235.15	10.50%
Total Holdings	<u>\$70,235.15</u>	

Respectfully submitted,
R. R. Reed, Treasurer

**FLORIDA STATE HORTICULTURAL SOCIETY
MEMBERSHIP LIST
for
VOLUME 102, PROCEEDINGS FOR 1989**

PATRON MEMBERS

- Agri-Chem, Inc., P. O. Box 17477, Orlando, FL 32860
 Alandco, 515 N. Flagler Dr., Suite 1100, West Palm Beach, FL 33401
 Becker, R. William, Becker Groves, Inc., P. O. Box 1240, Fort Pierce, FL 33454
 Berry, Jack M. Grove Corp., P. O. Box 5609, Winter Haven, FL 33883
 Brooks, J. R. & Son, Inc. P. O. Drawer 9, Homestead, FL 33030
 Callery-Judge Groves, P. O. Box 810, Loxahatchee, FL 33470
 Childers, Norman F., 3906 N.W. 31st Place, Gainesville, FL 32606
 Coca-Cola Company Foods Division, P. O. Box 247, Auburndale, FL 33823
 Costa Nursery Farms, Inc., 22290 S.W. 162nd Ave., Goulds, FL 33170
 Diamond R Fertilizer Company, Inc., P. O. Box 938, Fort Pierce, FL 33454
 Duda, A. & Sons, Inc., P. O. Box 257, Oviedo, FL 32765
 Engelmann, Hermann Greenhouses, Inc., P. O. Box 1147 Apopka, FL 32704
 Farm Credit Services of Florida,
 Florida Celery Exchange, P. O. Box 140067, Orlando, FL 32814
 Florida Citrus Packers, P. O. Box 1113, Lakeland, FL 33802
 Florida Citrus Processors Association, P. O. Box 780, Winter Haven, FL 33882
 Florida Citrus Production Managers Association, 3915 First Street, S.W. Vero Beach, FL 32968
 Florida Fruit & Vegetable Association, P. O. Box 140155, Orlando, FL 32814
 Florida Fruit Company, 5000 South Highway 27, Leesburg, FL 32748
 Florida Nurserymen & Growers Association, Suite 650, 5401 Kirkman Road, Orlando, FL 32879
 Green Cay Farms, Inc. Route 1, Box 331 B, Boynton Beach, FL 33437
 Griffin, B. H., Jr., P. O. Box 368, Frostproof, FL 33843
 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 Service Company, 5301 Oakland Road, Sebring, FL 33870
 Kennedy, John, Golden Gem Growers, Inc., P. O. Drawer 9, Umatilla, FL 32784
 Lykes-Pasco Packing Company, P. O. Box 97, Dade City, FL 33525
 Manatee Fruit Company, P. O. Box 128, Palmetto, FL 33561
 Maxijet, P. O. Box 1849, Dundee, FL 33838
 Nelson, O. F. & Sons Nursery, Inc., 2300 South Sheeler Road, Apopka, FL 32703
 Ocean Spray Cranberries, Inc., 7006 Bayard Road, Fort Pierce, FL 33451
 Oglesby Nursery, 3714 S.W. 52nd Ave., Hollywood, FL 33023
 Orange-co of Florida, Inc., P. O. Box 127, Lake Hamilton, FL 33851
 Polk County Fertilizer Company, P. O. Box 366, Haines City, FL 33844
 Reese Citrus Insulators, Inc., P. O. Box 2352, Lakeland, FL 33806
 Riverfront Groves, Inc., P. O. Box 6490, Vero Beach FL 32961
 Schirard, J. Brantley, Dole Citrus-Florida Division, P. O. Box 1120, Vero Beach, FL 32961
 Snively, Harvey B., Jr., Snively Enterprises, P. O. Box 968 Dundee, FL 33838
 South Bay Growers, Inc. P. O. Drawer A, South Bay, FL 33493
 Southern Citrus Nurseries, Inc., Container Tree Division, P. O. Box 970, Dundee, FL 33838
 Tennessee Chemical Company, #401, 3400 Peachtree Road, N.E., Atlanta, GA 30326-1107
 The Collier Company, Grove Division, P. O. Box 413038, Naples, FL 33941-3038
 The Florida Mango Forum, P. O. Box 970371, Miami FL 33197
 Tropicana Products, Inc. P. O. Box 338, Bradenton, FL 33506
 Turner Corp., Citrus Operations, Route 1, Box 6B, Immokalee, FL 33934
 Updike, John, Jr., Alcoma Packing Company, Inc., P. O. Box 231, Lake Wales, FL 33853
 Ward, W. F. Trust, P. O. Box 850, Avon Park, FL 33825
 Western Ag. Minerals Company, 16800 Greenspoint Park Drive, Suite 250N, Houston, TX 77060
 Yoder Brothers, Inc., P. O. Box 68, Alva, FL 33920
 Zellwin Farms, Inc., P. O. Box 188, Zellwood, FL 32798

ANNUAL AND HONORARY*

- Abrahamson, Frank, Florida Grower & Rancher, 1331 N. Mills Ave., Orlando, FL 32803
 Achhireddy, Nagi R., Yoder Brothers Inc., P. O. Box 68, Alva, FL 33920
 Adair, Robert C., Jr., The Kerr Center for Sustainable Agriculture, 7055 Cherry Lane, Vero Beach, FL 32966
 Adams, Alvin J., Louisiana State Univ., Citrus Res. Sta., Route 1, Box 628, Port Sulphur, LA 70083
 Adams, Bill, Adams Citrus Nursery Inc., P. O. Box 1505, Haines City, FL 33845
 Adams, Dale H., Adaco Products and Sales, P. O. Box 1023, Clermont, FL 32711
 Adams, Howard L., Sakata Seed America, 4100 Corporate Square, Suite 158, Naples, FL 33942
 Adams, Russell S., Gainesville Tree Farm, 3714 N.W. 39th Avenue, Gainesville, FL 32606
 Adams, Steve, Loxahatchee Nursery, P. O. Box 855, Palm City, FL 34990
 Ahrens, Joseph, U. of Calif., Vegetable Crops Dept., 103 Mann Lab., Davis, CA 95616
 Albig, Michael D., Coca-Cola Foods, 8997 Southview Road, Maitland, FL 32751
 Albrigo, L. Gene, U. of Fla. IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
 Albritton, Ben, P. O. Box 1784, Wauchula, FL 33873
 Alcoma Packing Company, Inc., P. O. Box 231, Lake Wales, FL 33853
 Allen, James E., Jr., Allen Grove Service, P. O. Box 1065, Lakeland, FL 33802
 Allen, Leon H., Jr., USDA-ARS, Building 164, U. of Fla., Gainesville, FL 32611
 Allison, Charles E., A. Duda & Sons, Inc., P. O. Box 257, Oviedo, FL 32765
 Alvarez, Jose, 14332 Horseshoe Trace, West Palm Beach, FL 33414
 Amann Jack, JJ's Ag. Chemicals & Consulting, Inc., P. O. Box 772146, Winter Garden FL 34777
 American Fruit Grower, 37841 Euclid Avenue, Willoughby, OH 44094
 Andersen, Peter C., U. of Fla., IFAS-AREC, Route 4 Box 63, Monticello, FL 32344
 Anderson, Don, Anderson's Tropical Nursery, 3630 Highway 60, East, Bartow, FL 33830
 Andreis, Henry J., U. S. Sugar Corp., P. O. Drawer 1207, Clewiston, FL 33440
 Anglin, David, Orange-co of Florida, Inc., 15500 Orange Ave., Fort Pierce, FL 34945
 App, James L., U. of Fla. IFAS, 1038 McCarty Hall, Gainesville, FL 32611
 April Corp., 2323 Wooster Lane, #2, Sanibel, FL 33957
 Aquilino, Tony, Merck & Co., Inc., 12329 Areaca Dr., West Palm Beach, FL 33414
 Arnold, Calvin, U. of Fla. IFAS-AREC, P. O. Box 5127, Immokalee, FL 33934
 Arpaia, Mary Lu, University of California, Batchelor Hall Extension, Riverside, CA 92521
 Arrington, William S., Jr., South Lake Apopka Citrus Growers Assn., P. O. Box 8, Oakland, FL 32760
 Artes, Gonzalo, Florida Southern College, P. O. Box 111, Lakeland, FL 33801
 Atkins, Oliver H., Atkins Nursery, 3129 Reche Road, Fallbrook, CA 92028
 Augustine, Jimmy J., BHN Research, 16750 Bonita Beach Road, Bonita Springs, FL 33923
 Austin, Lester III, Hi Acres Services, Inc., 305 North Park Avenue, Winter Garden FL 32787
 Auto-Pak, 3101 Airport Industrial Avenue, #2, Fort Pierce, FL 34946
 Babb, Raymond, 2410 Babb Road, Kissimmee, FL 34746
 Bailey, Carol Cloud, 133 N.W. 94th St., Miami Shores, FL 33150
 Baker, Robert A., U. S. Department of Agriculture, P. O. Box 1909, Winter Haven, FL 33883
 Baldwin, Elizabeth A., U.S.D.A. Citrus & Subtropical Lab., P. O. Box 1909, Winter Haven, FL 33883
 Baldwin, James C., 4311 Shadowwood Trail, Winter Haven, FL 33880
 Balerdi, Carlos, Kendall Foods Corp., P. O. Box 565, Goulds, FL 33170
 Balerdi, Fermin, 11310 S.W. 44th St., Miami, FL 33165
 Bar-Zvi, David, Flamingo Garden, 3750 Flamingo Road, Fort Lauderdale, FL 33330
 Baranowski, R. M., U. of Fla., IFAS-TREC, 18905 S.W. 280th St., Homestead, FL 33031
 Barben, Robert J., Inc., P. O. Box 1056 Avon Park, FL 33825
 Barber, Deborah A., Ward's Nursery, P. O. Box 1877, Avon Park, FL 33825-1877
 Barber, Thomas, Ward's Nursery, Inc., P. O. Box 1877, Avon Park, FL 33825
 Barmby, Bruce A., Fla. Cooperative Extension Service, 2350 E. Michigan St., Orlando, FL 32806
 Barnum, Robert L., 14955 S.W. 214th St., Miami, FL 33187
 Barros, Santiago, 1022 Hammock Shade Dr., Lakeland, FL 33809
 Bartz, J. A., U. of Fla., IFAS-Plant Pathology, 2559 Fifield Hall, Gainesville, FL 32611
 Basiouny, Fouad, Tuskegee Institute, 203 Milbank Hall, Tuskegee, AL 36088
 Bass, Barney, Orange-co of Florida, Inc., Route 1, Box 889, Arcadia, FL 33821
 Bass, Murray, Barron-Collier Co., 1320 North 15th Street, Immokalee, FL 33934
 Bassett, Mark J., 2900 N.W. 32nd St., Gainesville FL 32605
 Bateman, Howard P., Bright Hour Ranch, Route 1, Box 144, Arcadia, FL 33821
 Bates, Carl, 1532 Hollyhock Road, Wellington, FL 33414
 Bates, Larry J., 9130 West Lake Ruby Dr., Winter Haven, FL 33884
 Bates, Robert P., U. of Fla., IFAS-Food Sci. & Human Nutrition, 303 Food Science Building Gainesville, FL 32611
 Batty, M. Roy, 205 Madison Drive, Naples, FL 33942
 Baxter, John, FMC Corp., P. O. Box 1708, Lakeland, FL 33802
 Beard, Christine, Route 1, Box 3, Ogden, IL 61859
 Bearrs, Paul, Superior Fertilizer Company, 14225 Lake Magdalene Blvd., Tampa, FL 33618
 Beasley, B. R., Coca-Cola Company Foods Division, 2060 Kirkland Road, Auburndale, FL 33823
 Beasley, Larry, A. Duda & Sons, Inc., P. O. Box 257, Oviedo, FL 32765
 Beauchamp, Paul H., Plant Fruit Company, P. O. Box 1118, Plant City, FL 33566
 Beck, John L., 6565 Fiquette Road, Windermere, FL 34786
 *Beckenbach, J. R., 2805 N.W. 83rd St., #SC 105, Gainesville, FL 32606-6215
 Bedrosian, Ed, Natural Pak Systems, Inc., P. O. Box 10504, Bradenton, FL 34282
 Beer, Victor, Gutwein Groves, Inc., P. O. Box 158, LaBelle, FL 33935
 Beeson, Richard C., Jr., U. of Fla., IFAS-CFREC, 2700 East Celery Avenue, Sanford, FL 32771

*Indicates Honorary Member

Begeman, John P., Court Plaza, D-103, 2663 Airport Road, S., Naples, FL 33962
Behnke, Michael, Highwoods Nursery, 144 North Rifle Range Road, Winter Haven, FL 33880
Belcher, Brian, Berry Citrus Products, Inc., P. O. Box 459, LaBelle, FL 33935
Bellinger, Paul L., Wekiwa Gardens, Inc., 496 North Lake Pleasant Road, Apopka, FL 32712
Bergmann, Eric R., California Agri-Marketing, 7735 Prospect Place, LaJolla, CA 92037
Bernardi, Franco, Paramount Citrus Association, P. O. Box 548, McFarland, CA 93250
Bernecker's Nursery, 16900 S.W. 216th St., Goulds, FL 33170
*Berry, Robert E., P. O. Box 3121, Winter Haven, FL 33881
Beswick, Bryan, 412 E. Belvedere St. Lakeland, FL 33803
Bewick, Thomas A., U. of Fla., IFAS 1255 Fifield Hall, Gainesville, FL 32611
Biamonte, Richard L., W. R. Grace & Co., P. O. Box 789, Fogelsville, PA 18051
Bice, John R., Brogdex Company, 1441 W. Second St., Pomona, CA 91766
Biel, Joseph P., 6810 S.W. 62nd Court, South Miami, FL 33143
Bierman, Krongchit, 2321 Canal Drive, Niceville, FL 32578
Biggs, R. H., U. of Fla., IFAS-Fruit Crops, 2143 Fifield Hall, Gainesville, FL 32611
Bingaman, Charles E., 12349 Ridge Road, Largo, FL 34648
Bissen, Charles J., Orange-co of Florida, Inc., 15500 Orange Ave., Fort Pierce, FL 34951
Bistline, Fred, The Coca-Cola Company Foods Division, P. O. Box 368, Plymouth, FL 32768
Black, Bob, U. of Fla., IFAS-Ornamental Hort., 2551 Fifield Hall, Gainesville, FL 32611
Black, Charles, A. Duda & Sons, Inc., 12535 Glades Cutoff Road, Port St. Lucie, FL 34987
Blair, Robert H., Mount Dora Growers Cooperative, P. O. Box 36, Mount Dora, FL 32757
Blazquez, Carlos, U. of Fla., IFAS-CREC, 63 Westview Lane, Cocoa Beach FL 32931
Bohde, Fred, IMC, 1175 George St., Bartow, FL 33830
Bolton, John C., ICI Americas, Inc., 319 N. Parsons Ave., Seffner, FL 33584
Boman, Brian, U. of Fla., IFAS-AREC, P. O. Box 248, Fort Pierce, FL 33454
Bonnell, J. M., James M. Bonnell, Inc., P. O. Box 15119, Bradenton, FL 34280
Bostdorff, Richard, Speedling, Incorporated, P. O. Box 7129, Sun City, FL 33586
Botts, Dan, Florida Fruit & Vegetable Association, P. O. Box 140155, Orlando, FL 32814
Bourgeois, Wayne J., LSU, LAES Citrus Research Station, Route 1, Box 628, Port Sulphur, LA 70083
Bournique, Douglas C., Indian River Citrus League, P. O. Box 519, Vero Beach, FL 32960
Bowen, Jeff, Jack H. Bowen Grove., 1850 Avondale Circle Jacksonville, FL 32205
Bowers, Michael D., Fresh Mark Corp., P. O. Box 1245, Maitland, FL 32751
Bowers, Steven R., American Machinery Corporation, P. O. Box 3228, Orlando, FL 32802
Bowman, John B., 117 Sebring Circle, Lehigh Acres, FL 33936
Boyd, Maurice M., McKinnon Corp., P. O. Box 1066, Winter Garden, FL 32787
Bradford, Ned, Weyerhaeuser Tissue Culture Center, 1203 Lynwood Avenue, Apopka, FL 32703
Brecht, Jeffrey K., U. of Fla., IFAS-Vegetable Crops, 1207 Fifield Hall, Gainesville, FL 32611
Brewton, William S., Division of Plant Industry, 1115 Anastasia Ave., Coral Gables, FL 33134
Brickweg, Tom, FMC Citrus Machinery Services Div., P. O. Box 1708, Lakeland, FL 33802
Brinen, Gary H., Alachua County Extension Service, 2800 N.E. 39th Avenue, Gainesville, FL 32609
Broadaway, Dennis P., P. O. Box 121067, Clermont, FL 34712
Brodie, Matthew W., 2790 N.W. 4th Terrace, Miami, FL 33125
Bronson's, Inc., P. O. Box 879, Kissimmee, FL 32742
Bronson, Stan C., Callery-Judge Grove, P. O. Box 810, Loxahatchee, FL 33414
Brooks, Linda, Dow Chemical Co., 130 Rita Blvd., S. Melbourne Beach FL 32951
Brooks, R. F., P. O. Box 307, Lake Hamilton, FL 33851
Broschat, Timothy K., U. of Fla., IFAS-AREC, 3205 S.W. College Ave., Fort Lauderdale, FL 33314
Brown, E. A., Rhone-Poulenc Ag. Company, P. O. Box 12014, Res. Triangle Park, NC 27709
Brown, George Eldon, U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
Brown, H. Donovan, Plantaciones Oscar de la Renta, 6679 Trail Ridge Drive, Lakeland, FL 33813
Brown, Lawrence G., Division of Plant Industry, P. O. Box 1269, Gainesville, FL 32602
Brown, Reginald L., Florida Fruit & Vegetable Association, P. O. Box 140155, Orlando, FL 32814
Brown, Richard, P. O. Box 780213, Sebastian, FL 32978
Brown, S. T., Jr., S. T. Brown Citrus Nursery, Route 2, Box 506, Groveland, FL 32736
Brown, Shirley Wear, S. W. Brown Groves, Inc., 228 Ash Lane, Lakeland, FL 33813
Brown, Sydney Park, Florida Cooperative Extension Service, 5339 State Road 579, Seffner, FL 33584
Browning, Harold W., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
Bruemmer, Joseph H., 4214 Swann Avenue, Tampa, FL 33609
Bryan, Don S., Lake Garfield Nurseries Company, P. O. Box 154, Bartow, FL 33830
Bryan, Herbert H., U. of Fla., IFAS-TREC, 18905 S.W. 280th St., Homestead, FL 33031
Bryan, James L., Lake Garfield Nurseries, P. O. Box 154, Bartow, FL 33830
Bryan, Philip R., Lake Garfield Nurseries, P. O. Box 154, Bartow FL 33830
Bryan, William M., Agtrol Chemical Products, P. O. Box 609, Lake Wales, FL 33859-0609
Bryant, Tom, 6460 Pine Ave., Lake Worth, FL 33463
Bryson, John K., Fermone Corp., 607 S.E. Crescent Ave., Port St. Lucie, FL 34984
Buchanan, David W., U. of Fla., IFAS-AREC, 3205 College Avenue, Fort Lauderdale, FL 33324
Bulger, John, 405 Gardenwood Place, Valrico, FL 33594
Bullis, Harvey R., Jr., 12420 S.W. 248th St., Princeton, FL 33032
Bullock, Robert C., 1706 Wyoming Avenue, Fort Pierce, FL 34982
Burch, Derek, 4044 S.W. Fourth St., Plantation, FL 33317
*Burgis, Donald S., 1016 - 38th St., W., Bradenton, FL 34205
Burke, Martha Roe, Ceres 2000, Inc., P. O. Box 2927, Winter Haven, FL 33883
Burnett, John A., Brevard Groves, Inc., 9155 Babcock Street, S.E., Palm Bay, FL 32909
Burns, Bob, U. of California, 3104 Grove St., Ventura, CA 93003
Burns, Jacqueline K., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
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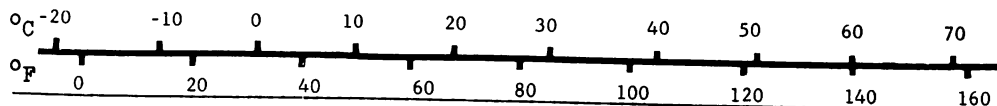
CONVERSION: U.S. & METRIC MEASURES

U.S. Units ^z	Metric Equivalents	Conversion Factors Metric to U.S.
<u>Length or Thickness</u>		
1 mile	= 1.6093 kilometers (km)	X 0.6214
1 yard	= 0.9144 meters (m)	X 1.0936
1 foot (ft)	= 0.3048 m	X 3.2808
1 inch	= 2.5400 centimeters (cm)	X 0.3937
1 mil (1/1000 inch)	= 0.0254 millimeters (mm)	X 39.3700
<u>Area</u>		
1 square inch (inch ²)	= 6.4516 square centimeters (cm ²)	X 0.1550
1 square yard (yd ²)	= 0.8361 square meters (m ²)	X 1.1960
1 acre	= 0.4047 hectares (ha)	X 2.4710
1 section (mile ²)	= 258.988 ha	X 0.0039
<u>Volume or Capacity</u>		
1 pint	= 0.4732 liters	X 2.1133
1 gallon (gal)	= 3.7853 liters	X 0.2642
1 bushel (bu)	= 35.2381 liters	X 0.0284
1 acre-inch	= 102.7938 cubic meters (m ³)	X 0.0097
1 Fla. field box (4,800 inch ³)	= 0.7866 hectoliters (hl)	X 1.2713
1 Fla. citrus carton (4/5 bu)	= 0.2822 hl	X 3.5436
<u>Weight</u>		
1 ounce (oz)	= 28.3495 grams (g)	X 0.0353
1 pound (lb.)	= 0.4536 kilograms (kg)	X 2.2046
1 hundredweight (cwt)	= 45.3592 kg	X 0.0220
1 ton	= 0.9072 metric tonnes	X 1.1022
<u>Rate or Yield</u>		
1 grain/pound (gr/lb.)	= 0.1429 grams/kilogram (g/kg)	X 7.0000
1 pound/acre (lb./acre)	= 1.1208 kilogram/hectare (kg/ha)	X 0.8922
1 ton/acre	= 2.2417 metric tonnes/hectare	X 0.4461
1 gallon/acre (gal/acre)	= 9.346 liters/hectare	X 0.1070
1 Fla. field box/acre	= 1.9437 hectoliters/hectare (hl/ha)	X 0.5162
1 bushel/acre (bu/acre)	= 0.8705 hl/ha	X 1.1488
1 pound/100 gallons (lb./100 gal)	= 1.1983 grams/liter (g/liter)	X 0.8345
1 cubic foot/minute (ft ³ /min)	= 0.4720 liters/second (liters/sec)	X 2.1186
<u>Energy, Light, & Pressure</u>		
1 horsepower (HP)	= 0.7457 kilowatts (kw)	X 1.3410
1 foot candle (ft-cp)	= 10.7639 lux	X 0.0929
1 pound/square inch (psi)	= 70.3069 grams/cm ²	X 0.0142
1 British Thermal Unit (BTU)	= 0.2530 kilogram calories (kg-cal)	X 3.9526

Temperature

$$\text{Fahrenheit} = \frac{(\text{C} \times 9)}{5} + 32$$

$$\text{Celsius (Centigrade)} = \frac{(\text{F} - 32) \times 5}{9}$$



^zNote that these are United States measures which often differ from British, eg., the ton, hundredweight, bushel, gallon, etc.

EDITORIAL POLICY

The Society follows the editorial policies of the American Society for Horticultural Science. The only exceptions to this relate to the need to serve growers, amateur members, and others for whom the more cryptic abbreviations, purely metric measures, etc. may be an inconvenience.