

Sponsored Student Program

EVALUATION OF SIDEDRESS FERTILIZATION FOR CORRECTING NUTRITIONAL DEFICITS IN LETTUCE

JAMES SHREFLER
University of Florida
Gainesville 32611

Lettuce production on organic soils in south Florida commonly requires fertilization with nitrogen (N), phosphorus (P) and potassium (K). Soil testing is used to determine nutrient status of soil prior to planting. Soil test calibration was developed based on the use of preplant fertilizer application. Because growers can not always obtain soil test results as

early as desired there are times when it would be convenient to apply fertilizers as a sidedress after the crop is planted. This paper presents results of the evaluation of sidedress fertilizer application to lettuce. It was determined that P could not be effectively applied to establish lettuce through sidedress application. Sidedress applications of N and K did not have a positive effect on lettuce yield either. Phosphorus was the most limiting nutrient under the conditions of the study. Evaluation of sidedress application of N and K under a more severe deficit of these nutrients still needs to be evaluated.

INFLUENCE OF ENDOSULFAN SPRAYS AND SILVER-COLORED MULCH ON SWEET POTATO WHITEFLY POPULATIONS, DISEASE SYMPTOMS, AND YIELDS OF ZUCCHINI SQUASH AND TOMATOES

EVA M. POHNER
IFAS, University of Florida
Gainesville 32611

C. A. Powell and P. J. Stoffella in Ft. Pierce conducted an experiment during the spring to determine the influence of (1) no silver mulch, no endosulfan sprays, (2) no silver mulch, endosulfan weekly sprays (0.31 oz/gal), (3) silver mulch, no endosulfan sprays, and (4) silver mulch and weekly endosulfan sprays on SPWF populations on squash and tomatoes, as well as disease symptoms and fruit yields.

For the squash, endosulfan sprays delayed the SPWF population buildup until 85 days. The incidence of squash silver leaf symptoms was less for those receiving endosulfan but within 85 days all the plants had symptoms. Squash yields

(693-744 bu/acre) were not impacted significantly by any of the treatments.

For the tomatoes, those plots receiving endosulfan sprays had a delayed population buildup (until 95 days), higher marketable yields (1531-1593 25 lb. boxes vs. 456-488 boxes), and less irregular ripening symptoms. The silver mulch did not have any significant effect on yield. The difference in yield may be due to other insects than SPWF. Leafminer, fruit worm damage as well as secondary fungal infections were found in the untreated plots.

One important factor to consider when evaluating these results is that the SPWF population levels in the experimental plot may have been 10 to 1000 times less than those in commercial fields.

CONTROL OF PAPAYA RINGSPOT VIRUS AND COLOR EXTENSION OF LICHÉE

KEITH BIRKHOLD
IFAS, University of Florida
Gainesville 32611

The commercial application of cross protection for the papaya ringspot virus was presented by Dr. R. T. McMillan during the Krome Memorial Institute Section. Inoculation of the avirulent papaya ringspot virus mutant into seedlings was achieved with a 98.7% success rate using a spray gun to apply the mutant virus extract and an abrasive. Although this method slows the spread of the virulent virus, it must be applied to every seedling planted, and cross protection may eventually fail if the site of infection for the virulent strain is apical meristem. The isolation and introduction of a gene

which codes for the virus coprotein appears to overcome these limitations, since once a papaya plant has this gene in its genome the resistance to heritable and protection is conferred even to the apical meristem.

Retention of external color with lichee is a problem, since browning of the peel naturally occurs several days after harvest. Besides refrigeration, several other color extension methods were suggested while talking with Craig Campbell. An approach which he currently employs is the prevention of dehydration through the use of ventilated polyethylene bags. Other methods include a one minute hot water bath dip (50-52°C) which contains 1% Benomyl, or placing fruit into a room with burning sulfur.

EFFECT OF NITROGEN AND LIGHT LEVEL ON GROWTH OF GOLDEN POTROS

GRAHAM WRIGHT
IFAS, University of Florida
Gainesville 32611

The objective of the experiment was to determine the optimum levels of fertilization and light intensity for the production of Golden Pothos at two different times of year. Light levels of 2000, 3500 and 5000 foot-candles and nitrogen levels of 14, 42 and 70 mg N l^{-1} were used in the first experiment, while levels of 3000, 4500 and 6000 foot-candles were used in the second experiment. Nitrogen fertilization levels in

the second experiment were 42, 70 and 98 mg N l^{-1} . The experiments were conducted on 23 April 1990 (Spring) and 19 June 1990 (Summer).

Best variegation and color grade in the first experiment were, while in summer, observed at 3500 foot-candles, with 42 mg N l^{-1} significantly better growth was achieved at 6000 foot-candles with 70 mg N l^{-1} . High N levels led to an increase in the number of chlorotic leaves and an increase in vine length. Under low light intensities, nitrogen toxicity was found.

EFFECTS OF RECLAIMED-WATER ON MINERAL COMPOSITION AND FRUIT QUALITY OF CITRUS

MICHAEL MAUER
IFAS, University of Florida
Gainesville 32611

Irrigation of mature citrus with reclaimed-water was evaluated for a 3 year period in the Conserv II project. Observations were made on 9 control sites with well water, and 21 Conserv II sites using reclaimed-water. High pH was observed in Conserv II mainly due to high nutrient levels in the re-

claimed-water. Increases in total dissolved solids, N, P, K, Ca, Mg, Fe and Na were seen in Conserv II sites, but nutrient levels remained below toxic concentrations. Manganese and zinc levels were lower in Conserv II as compared to the controls. In general, soil moisture levels were higher in Conserv II than the controls. Fruit quality was decreased in Conserv II by a reduction of soluble solids, however overall yield was increased.

PLANNING COLD PROTECTION STRATEGIES

SCOTT KERR
Citrus Institute
Florida Southern College
Lakeland, FL 33801

J. David Martzolf discussed various cold protection strategies. Location, type of freeze and length of freeze are all influential factors in determining cold protection strategies. The most practical type of cold protection is irrigation. Irrigation serves for both cold protection and relieves

drought conditions. Various cold protection methods need to be considered to best suit the topography. If frost is not often a threat, one might consider less expensive methods of cold protection. In more severe locations combined methods such as heater pots and microsprinklers might be used harmoniously to lessen the damage to the grove. Future observations must be made to consider the ultimate cold protection for your individual grove, considering costs of protection and whether it will be justifiable in spending the additional money for the protection.

SCAFFOLD BRANCH IRRIGATION FOR FREEZE PROTECTION

RICHARD J. CRAWFORD
Citrus Institute
Florida Southern College
Lakeland, FL 33801-5698

A scaffold branch irrigation system was installed for freeze protection on five year old 'Washington' navel and 'Owari' satsuma trees. The system was in operation during the 1989 freeze at the LSU Citrus Research Station. Temperatures of -6.7°C or below for 20 continuous hours, and 0°C or below for 80 continuous hours were recorded. The low temperature was -11.1°C .

Trees that were irrigated by the scaffold system had an average tree survival rate of 93.6%. Approximately three-quarters of the scaffold branches survived and 8.6% of the canopy survived. The average amount of trunk damage was low, whereas average shoot regrowth after pruning was fairly high. Trees without irrigation were completely killed.

Scaffold branch irrigation achieved positive results as a means of freeze protection. Majority survival of the scaffold branches allowed quick regrowth of the tree canopies. Variables such as emitter pattern, height, and output are important to the success of this freeze protection method.

EFFECTIVENESS OF SCAFFOLD BRANCH IRRIGATION FOR FREEZE PROTECTION OF LOUISIANA CITRUS DURING 1989 FREEZE

ADAM BUNCH
Citrus Institute
Florida Southern College
Lakeland, Florida 33801-5698

Elevated microsprinklers were used in this experiment to determine the effectiveness of scaffold branch irrigation for freeze protection. The goal in this experiment was to spray the main scaffold branches of 5-year-old Washington navel and Owari Satsuma trees with water. The microsprinklers were placed just above the crotch of the tree to achieve this.

The experiment, conducted at the Louisiana Agricultural Experiment Station by W. J. Bourgeois and A. J. Adams, proved very successful. The average tree survival rate, using this technique, was 93.6%, and the scaffold branch survival

rate was 75.6%. The survival rate of non-protected trees was zero. Post freeze photographs of the trees showed healthy new growth on the scaffold branches where irrigation water was used, with the remainder of the canopy dead in most cases. These trees were pruned in such a way that left the main scaffold branches intact. This enabled the trees to regrow their canopies much more quickly.

The objective of this experiment was not to protect the entire canopy, but only the scaffold branches. The experiment proved successful in this regard. By providing a healthy tree structure for new growth to occur, young citrus trees can recover more quickly from the devastating freezes that have been common in recent years. While not achieving total tree canopy protection, this technique is one of the most promising because of its usefulness in most young citrus plantings.

A SECOND LOOK AT USING HEATERS TO PROTECT CITRUS TREES

WILLIAM JAMES
Citrus Institute
Florida Southern College
Lakeland, FL 33801

After 5 major freezes in Florida in the past 10 years a tremendous amount of highly productive citrus land has been virtually abandoned. When the cost of fossil fuel skyrocketed in the 70's, the use of grove heaters became too expensive. In the following years when petroleum fuel did not continue

to have sharp increases in price, the practice of using grove heaters seemed antiquated. Because of this attitude many growers faced freezes with little or no freeze protection. Due to changing work markets and the price of fuel the cost of saving a producing tree with heaters is beginning to look more economically sound, when compared with the price of replanting and waiting for the trees to come into production. It may be possible in the future to design a cleaner burning and more efficient grove heater.

EFFECTIVENESS OF SCAFFOLD BRANCH IRRIGATION FOR FREEZE PROTECTION

ROBERT WINFREE
Citrus Institute
Florida Southern College
Lakeland, FL 33801

During the 1989 freeze, scaffold branch irrigation was used by the LSU Citrus Research Station to protect citrus trees. This proved to be most effective. Temperatures dipped below 11°C for 20 consecutive hours.

Post freeze damage revealed a 93% tree survival rate with a 75% survival of the scaffold branches and an 8.6% survival of the canopy. The non-protected trees were 100% killed and had to be removed. This method has proved to be useful to growers as a new method of cold protection and will help with the expansion of the Florida Citrus belt.

PLEASE WALK ON THE GRASSES

BRADY STARLING
Citrus Institute
Florida Southern College
Lakeland, FL 33801

Grass plays a drastic role in today's society. It is not only used as a landscape item, but used more for its biological controls.

Aeration and cooling are the two primary uses of grass in a commercial environment such as fleamarkets and shopping

malls. At fleamarkets it is used as a parking area which also acts as an aeration system when cars drive upon it. On the other hand, at shopping malls it is used as a cooling device to compensate for the extreme heat given off by the massive amounts of black top.

Grass is a definite factor in the construction of complexes and residential areas. And even though people think grass is just a cosmetic feature, its scientific values are of more importance.

NITROGEN CARRIER AND RATE EFFECTS ON FIELD-GROWN LAUREL OAK AND JAPANESE LIGUSTRUM

ORRINA R. SPEESE
*Citrus Institute
Florida Southern College
Lakeland, Florida*

A comparison of two nitrogen carriers, controlled release and water soluble, was made on field-grown laurel oaks, *Quercus hemispherical*, and on field-grown Japanese ligustrum, *Ligustrum japonicum*. The trees received three or six pounds N/1000 sq ft/year of Nutricote 40, 180, and 360 or of ammonium and calcium nitrate. Height and trunk caliper were measured. The duration of the experiment was seventeen months.

Results were unequivocal. Supplemental nitrogen affected oak growth only with one exception. There was a slight increase in height associated with the application rate of six pounds N/1000 sq ft/year. There was no difference among carriers. Ligustrum demonstrated improved growth rate with supplemental nitrogen fertilizer, and those receiving three pounds N/1000 sq ft/year were smaller than those receiving the six pound rate. There were no differences among fertilizer carriers. Fertilizing field-grown ligustrum will hasten growth rate, but will not improve the growth rate of laurel oaks.

RELATION OF PHOTOSYNTHESIS, GROWTH, AND ROOTING DURING POINSETTIA PROPAGATION

BONNIE L. COY
*University of Florida
Fort Lauderdale Research and Education Center
3205 College Avenue
Fort Lauderdale, FL 33314*

Use of high light intensities on poinsettia cuttings in relation to photosynthesis and adventitious rooting was studied by Drs. Sven E. Svenson and Fred T. Davies, Jr. For rooting stem tip cuttings of poinsettia, light recommendations in the

past have been as high as 3000 foot candles and as low as 900 foot candles. This experiment showed that at high and low light intensities photosynthesis was low and remained low until root primordia were formed. After root emergence, photosynthesis increased steadily with increasing light levels. Dr. Svenson recommended use of lower light levels prior to root initiation since there is no increase in the photosynthetic rate until visible roots are formed. At the onset of root emergence higher light levels could be established for maximum root growth with less threat of water stress.

A COMPOSITE REPORT ON TURFGRASS

DAVID E. WEDGE
*IFAS Ft. Lauderdale REC
Fort Lauderdale, FL 33314*

Turfgrasses are plants that have undergone natural selection for thousands of years. Animal grazing provided a primary selective process and the need for high light environments further encouraged variation of species. Through further selection by man, turfgrasses have undergone a high degree of directional selection to enhance aesthetic qualities. Turfgrasses are used primarily as highly adapted ground covers for lawn, road and utility rights-of-way, recreational fields, public parks, and extravagantly maintained sports turfs. The physiological stresses placed on grass plants in these varying functional environments influence the final selection of species and their associated cultivars.

Lawn turfs serve not only a decorative function, but also provide atmospheric cooling through transpiration and also convert radiant energy to chemical energy in photosynthesis.

A thick carpet of turf around a home or office building can provide a variety of environmental benefits. Utility turfs exist primarily for soil stabilization along roadsides, airport runways, ski slopes, golf course roughs, and other minimum-use areas. Recent research by Dr. Philip Busey showed that in south Florida, utility turfs can function quite nicely as temporary parking lots while still allowing active infiltration of rainwater, evaporative cooling, and flexibility for future use. Dr. A. E. Duke demonstrated that on both clay and sand soils St. Augustine grass had faster establishment rates for 4-inch plugs versus 2-inch plugs. It is clear that turfgrasses must provide acceptable visual appearance, be functional, and have permanence in the landscape. The testing of turfgrasses can help the consumer in the same way as does the evaluation of other products. Knowledgeable prediction of turfgrass performance characteristics, specific needs, and resources required is essential. Turfgrass testing is an ongoing process which can provide useful knowledge for previously released varieties as they are exposed to new environments.

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 Coordinating Committee—The Chairman of the Executive Committee 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 Committee and designate a chairman thereof. The chairmen of the Sectional Membership Committees shall work closely

with the Membership Coordinating Committee 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.

The Chairman of the Membership Coordinating Committee 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 EXECUTIVE COMMITTEE, 1990

MOTIONS PASSED AND IMPORTANT DISCUSSIONS OF THE FIRST EXECUTIVE COMMITTEE MEETING, LAKE ALFRED, FLORIDA JANUARY 18, 1990

The first meeting of the 1990 Executive Committee (EC) of the Florida State Horticultural Society was held on January 18, 1990 at the Citrus Research and Education Center in Lake Alfred. Chairman William H. Krome presided. Guidelines for selection of the best student paper were presented by Gary Wilfret. Discussion followed regarding importance of scientific merit of papers in the selection process. It was agreed that the guidelines be refined and brought for consideration before the next EC meeting. Editorial Committee report was presented by Norman Childers. The committee is dealing with excessively lengthy papers and with authors who have not submitted manuscripts for publication. The 1989 Proceedings will be published by May 1. The color cover will be provided by David Buchanan of the Ft. Lauderdale Research Education Center, on behalf of the Ornamental Section.

Publication of an "Abstract Booklet" for the annual meeting was discussed. Gary Wilfret estimated that it would cost \$4.40 each to print. Use of camera-ready abstract forms for the abstract booklet also was discussed. Final discussion on both issues was deferred to next EC meeting when Gary Wilfret will report on cost and mechanics of publishing the abstract booklet.

The 1990 meeting will be held December 17, 1990 at the Grosvenor Resort, Lake Buena Vista (Orlando) due to conflict with the American Society for Horticultural Science meeting in November. July 1 was established as the deadline for the abstracts. The Newsletter will be issued three times in 1990. Motion by Norman Childers that the concept of establishing an Endowment Fund was approved. A committee on Horticultural and Environmental matters will be appointed by Mr. W. H. Krome to provide assistance to the legislators and government.

Guidelines for papers intended for publication in the FSHS Proceedings were discussed. Gary Wilfret will have the guidelines ready for discussion at the next EC meeting. President Tom Sheehan moved that the salary of the Society clerk, Mrs. Wanda Leonard, be increased from \$12,000 to \$12,600 annually.

Next EC meeting will be held in Lake Alfred at 10:00 AM, May 9, 1990.

MOTIONS PASSED AND IMPORTANT DISCUSSION OF THE SECOND EXECUTIVE COMMITTEE MEETING, LAKE ALFRED, FL MAY 9, 1990

The second meeting of the Executive Committee was chaired by W. H. Krome at the Lake Alfred Citrus Research and Education Center on May 9, 1990. Paid membership was reported at 1575. A revised publication policy and instructions to authors documents were presented by the editor, Norman Childers. Guidelines for paper publication policy for the Society were discussed and were referred to the editorial committee for resolution.

New and more thorough guidelines for selection of Best student papers were presented by Gary Wilfret and Don Maynard. The committee approved a motion setting the amount of awards at \$100 for first, \$50 for second, and \$25 for third place winners.

A motion by Don Maynard that an Abstract Booklet be printed and distributed to all registered members attending the 1990 annual meeting on a trial basis was approved.

Report of the Ad Hoc Committee on financial status of the Society was presented and distributed by Will Waters, Committee Chairman. No action was taken.

Al Will was appointed chairman of the Commercial Exhibits and R. R. Reed Chairman of the Site Selection Committee for 1992. Richard Henley was appointed as Local Arrangement Coordinator for the 1990 Annual Meeting and \$1500 was allocated to the committee.

Purchase of Software for indexing the Proceedings and the 10-Year index was approved.

Preregistration fees for the 1990 meeting were set at \$35 for members, \$15 for students, and \$15 for spouses. Cut-off date for preregistration is December 1, 1990. Registration fees at the meetings will be \$45 for members and \$20 for spouses.

Chairman Krome appointed David Hall to chair a committee to consider changes in the By-Laws governing the Membership Committee.

The next Executive Committee meeting will be held October 11, 1990 at Lake Buena Vista.

MOTIONS PASSED AND IMPORTANT DISCUSSIONS OF THE FIRST EXECUTIVE COMMITTEE MEETING, LAKE ALFRED, FLORIDA OCTOBER 11, 1990

The third meeting of the Executive Committee of the Florida State Horticultural Society was held at 11:00 am Thursday, October 11, 1990 at the Grosvenor Resort, Lake Buena Vista, Florida.

Membership in the Society was reported at 1651.

The Executive Committee voted unanimously to establish an Endowment Fund and the Society will accept non-taxable gifts.

The Editorial Committee along with the two Members-at-Large, Robert Berry and Donald Maynard, were instructed to examine the Editorial Policy of the Society.

The Executive Committee approved and referred to the general membership a proposed change to the By-Laws which reads as follows:

Membership Coordinating Committee—The chairman of the Executive Committee 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 Committee and designate a chairman thereof. The chairmen of the Sectional Membership Committees shall work closely with the Membership Coordinating Committee 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.

The Chairman of the Membership Coordinating Committee 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.

The proposed change was developed by David Hall, Bob Berry, Bill Wiltbank, and Mohamed Ismail.

Proposal by Bill Wiltbank to recognize Patron Members for their contribution to the Society was approved.

The Hyatt Regency Westshore at Tampa International was approved by the Executive Committee as the Society's meeting site for 1992.

Society members will be polled at the 1990 meeting on whether to hold an annual banquet at the 1991 meeting scheduled at the Doral Hotel in Miami Beach.

MOTIONS PASSED AND IMPORTANT DISCUSSION OF THE FOURTH EXECUTIVE COMMITTEE MEETING DECEMBER 17, 1990

The fourth meeting of the Executive Committee of the Florida State Horticultural Society was held at 3:05 p.m., Monday December 17, 1990 at the Grosvenor Resort Hotel, Lake Buena Vista, Florida.

A motion was approved authorizing the Secretary not to record the names of the honorary member candidates whose membership has not received the necessary 2/3 vote of the Executive Committee.

Final preparations for the 102nd Annual Meeting was discussed by Ismail, Wilfret, Henley and Reed. A copy of the new Abstract Book was circulated and Gary Wilfred was congratulated for a good job.

Al Will reported that 15 commercial booths were sold generating gross income of \$4500. Free booths were allotted to the University of Florida and Florida Southern College.

A motion to increase the rental fee for booths was set for \$400 and it will include 2 registrations to the meetings.

The Society has 47 Patron Members who sponsor 13 Florida Southern College and 5 University of Florida students. A motion was approved to increase the stipend for students at the Annual Meeting from \$100 to \$125.

The color cover of Volume 103 of the Proceedings will be sponsored by the Krome Memorial Institute, IFAS Tropical Research and Education Center and J. R. Brooks & Son, Inc.

The make-up of the Editorial Committee and its conforming to the By-Laws was discussed and a motion was approved to change the By-Laws to allow for the appointment of 6 Associate Editors and an Editor. The matter will be brought to a vote before the 104th Annual Business Meeting.

An annual salary of \$13,860 for the Society's Clerk (Wanda Leonard) was approved for the period of January 1 - December 31, 1991.

Respectfully submitted,
Mohamed A. Ismail
Secretary

MINUTES OF THE BUSINESS MEETING OF THE FLORIDA STATE HORTICULTURAL SOCIETY AT THE GROSVENOR RESORT DECEMBER 19, 1990

Meeting was called to order by Chairman Sheehan at 4:30 p.m. A moment of silence was observed for deceased members of the Society.

Mohamed Ismail reviewed minutes of the Executive Committee meetings as published in Volume 102 and reports of the 1990 Executive Committee meetings. Bill Wiltbank moved that the reports be accepted as published and reported. Motion was seconded and passed.

R. R. Reed gave the treasurer's report and moved that the report be accepted. Motion was seconded and passed.

Norman Childers reported on the Proceedings for 1989. He also asked that the authors get their papers in as soon as possible. He reported that Volume 102 was published May 30, 1990. He asked that authors cooperate with the vice presidents in getting their papers in and reminded everyone that these men, and the associate editors, had other jobs and that the work they did for the Society was done in their spare time and they were to be commended for the fine work they did.

Editor Childers also reported that an endowment fund had been established and invited anyone who was interested to contribute.

Mohamed Ismail reported that a change in the By-Laws had been published in the Newsletter. He explained why this change in the formation of the membership committee was needed. He stated that a committee of David Hall, Bill Wiltbank, Mohamed Ismail and Bob Berry had been appointed and read the proposed change. Chairman Sheehan asked for a motion. Norman Childers motioned that the change be approved. Motion was seconded and passed.

Gary Wilfret reported on the graduate student papers. Third place winner was Trini Reyes (\$25.00), second place winner was Wilfredo Colon (\$50.00) and first place winner was D. I. Lekovar (\$100.00).

Bill Krome, Mohamed Ismail, R. R. Reed, Norman Childers and the associate editors, Gary Wilfret, Sal Locascio, the six vice presidents, Wanda Leonard, Dick Henley and all other members of the Executive Committee were cited for the good jobs they had done by Chairman Sheehan.

Heinz Wutscher reported that the Nomination Committee offered the following candidates for election to the Society's executive committee:

Chairman—Dr. Tom Sheehan
President—Dr. Larry Jackson
Treasurer—R. R. Reed
Secretary—Mohamed Ismail
Program Coordinator—Gary Wilfret
Editor—Norman Childers
Members-at-Large—Wayne Sherman and Don Maynard
Vice Presidents:
Citrus Section—Linda Russo
Garden and Landscape Section—Ed Gilman
Handling and Processing Section—Roy McDonald
Krome Memorial Institute—Jonathan Crane
Ornamental Section—Michael Kane
Vegetable Section—Joan Dusky

Dick Henley moved that the nominations be closed and that the officers selected by the nominating committee be elected. Motion passed unanimously.

Bill Castle suggested that Frank Bouis' remarks be published before the Proceedings are printed, perhaps in the Newsletter. Chairman Sheehan stated that this was under consideration and that they hoped it could be done.

Dick Henley read the rules for the prize drawings and conducted drawings for door prizes. Third prize was won by A. E. Hendry, second by Sal Locascio and first by J. O. Whiteside.

Meeting was adjourned at 5:30 p.m.

Respectfully submitted,
Mohamed Ismail
Secretary

FLORIDA STATE HORTICULTURAL SOCIETY
Financial Statement
December 31, 1990

Balance on hand January 1, 1990 \$ 6,943.10

RECEIPTS:

Membership Dues:		
1990 Patron	\$ 4,700.00	
1990 Annual	25,625.00	
1990 Student	185.00	
1989 Dues	6,215.00	
1991 Dues	3,795.00	
Index, Proc. & Misc.	1,374.00	
Interest	2,111.14	
Page Overage, Vol. 101	743.75	
Page Overage, Vol. 102	10,115.00	
Booth Rental	4,500.00	
Registration Fees (1989)	30.00	
Registration Fees (1990)	12,040.00	
Spouse Registration	1,125.00	
Student Registration	360.00	
Fruit Crops Breakfast	850.00	
Vegetable Crops Breakfast	320.00	
Endowment Fund	1,500.00	
	<u>\$75,589.69</u>	

DISBURSEMENTS:

Proceedings, 1989	\$29,715.00
Sta., Stamps & Printing	5,901.90
Misc.	2,901.90
Audit	445.00
Clerk Hire	11,550.00
Spouses Program	1,200.00
	<u>\$51,023.92</u>

Balance as of December 17, 1990 \$31,508.87

Investments as of December 17, 1990

	<u>Amount</u>	<u>Interest</u>
Certificates of Deposit		
First Union Bank	\$10,000.00	8.35
First Union Bank	10,000.00	9.15
Mortgage Certificates		
First Mortgage Corps. of Winter Haven	<u>.54,219.93</u>	10.50%
Total Holdings	<u>\$74,219.93</u>	

Respectfully submitted,
R. R. Reed, Treasurer

FLORIDA STATE HORTICULTURAL SOCIETY
Membership Report
December 31, 1990

	<u>Paid</u>	<u>Paid</u>	<u>Total</u>
New Members			
Patron	2	2	
Annual	89	89	
Student	16	16	
Out-of-Country	19	19	
Continuing Members			
Patron	6	46	52
Annual	259	1,023	1,282
Student	30	28	58
Colleges and Libraries	10	19	29
Out-of-Country	74	62	136
Honorary Members			
Total	379	1,304	1,721

**FLORIDA STATE HORTICULTURAL SOCIETY
MEMBERSHIP LIST
for
VOLUME 103, PROCEEDINGS FOR 1990**

PATRON MEMBERS

- Agri-Chem, Inc., P. O. Box 607477, Orlando, FL 32860
 Becker, R. William, Becker Groves, Inc., P. O. Box 1240, Fort Pierce, FL 33454
 Berry, Robert E., P. O. Box 3121, Winter Haven, FL 33881-3121
 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 Nursery, 989 North LRL Ranch Road, Avon Park, FL 33825
 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 Nurseriesmen & 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., III, B. H. Griffin, Inc., 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
 Indian River Citrus League, P. O. Box 519, Vero Beach, FL 32960
 Kahn Grove Service Company, 5301 Oakland Road, Sebring, FL 33870
- Manatee Fruit Company, P. O. Box 128, Palmetto, FL 33561
 Maxijet, P. O. Box 1849, Dundee, FL 33838
 Morton, Julia F., Morton Collectanea, U. of Miami, P. O. Box 8204, Coral Gables, FL 33124
 Nelson, O. F. & Sons Nursery, Inc., 2300 South Sheeler Road, Apopka, FL 32703
 Ocean Spray Cranberries, Inc., 925 S.W. 74th Avenue, Vero Beach, FL 32960
 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
 Rare Fruit Council International, Inc., P. O. Box 561914, Miami, FL 33156
 Reese Citrus Insulators, Inc., 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
 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 Foods Corp., 25450 Airport Road, Punta Gorda, FL 33950
 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
 Zellwin Farms, Inc., 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 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, Howard L., Sakata Seed America, 2709 Swamp Cabbage Court, Fort Myers, FL 33901-9352
 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
 Adams, William G., Adams Citrus Nursery Inc., P. O. Box 1505, Haines City, FL 33845
 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
 Alderman, E. Shaunn, Citrus & Vegetable Magazine, 1819 North Franklin, Tampa, FL 33602
 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., Capital Agricultural Property Services, 5728 Major Boulevard, Suite 305, Orlando, FL 32819-7944
 Alva, Ashok, U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
 Alvarez, Ernesto, Sr., Apartment 100, 201 Crandon Boulevard, Key Biscayne, FL 33149
 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
 Anders, Ken, Chilean Nitrate Corp., 904 South Hillside Court, Winter Haven, FL 33881
 Anderson, Don, Anderson's Tropical Nursery, 3630 Highway 60, East, Bartow, FL 33830
 Anderson, Shirley, 510 N.W. 122nd Street Gainesville, FL 32607
 Anderson, Tim, Daisy Farm, Inc., 9995 S.W. 66th St. Miami, FL 33173
 Andreis, Henry J., U. S. Sugar Corp., P. O. Drawer 1207, Clewiston, FL 33440
 Anglin, Q. Guy, P. O. Box 101, Monticello, FL 32344
 Anwar, Mahmood, P. O. Box 161797, Miami, FL 33116
 App, James L., U. of Fla. IFAS, 1038 McCarty Hall, Gainesville, FL 32611
- April Corp., 2323 Wooster Lane, #1, Sanibel, FL 33957
 Arnold, Calvin, U. of Fla. IFAS-AREC, P. O. Box 5127, Immokalee, FL 33934
 Arnold, Matt, 1195 West Hill Court, Bartow, FL 33830
 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
 Atkins, Oliver H., Atkins Nursery, 3129 Reche Road, Fallbrook, CA 92028
 Attaway, Patty P., Ecology Action, 1260 Ivy Lane, Green Cove Springs, FL 32043
 Augustine, Jimmy J., BHN Research, 16750 Bonita Beach Road, Bonita Springs, FL 33923
 Babb, Raymond, 2410 Babb Road, Kissimmee, FL 34746
 Backus Trading, Inc., 4770 Biscayne Boulevard, #930, Miami, FL 33137
 Bailey, Carol Cloud, 133 N.W. 94th St., Miami Shores, FL 33150
 Baker, Robert A., P. O. Box 3701, Winter Haven, FL 33881
 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, P. O. Box 565, Goulds, FL 33170
 Balerdi, Fermin, 11310 S.W. 44th St., Miami, FL 33165
 Bar, Ilan, Nefasim Irrigation, Inc., 548 North Douglas Avenue, Altamonte Springs, FL 32714
 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
 Barber, Robert J., Inc., P. O. Box 1056, Avon Park, FL 33825
 Barber, William L., 8772 Highway 98, Lorida, FL 33857
 Bardsley, H. C., 600 N.E. 13th St., Homestead, FL 33030
 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
 Barrow, Mark V., 810 East University Avenue, Gainesville, FL 32601
 Bartlett, Rhonda J., 1012 Grand Prix Drive, Sebring, FL 33872
 Basiouny, Fouad, Tuskegee Institute, 203 Milbank Hall, Tuskegee, AL 36088
 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 33801
 Bearss, Paul, Superior Fertilizer Company, 14225 Lake Magdalene Blvd., Tampa, FL 33618

*Indicates Honorary Member

- Beasley, Brian 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
- Beck, John L., 6565 Fiquette Road, Windermere, FL 34786
- Becker, Bill, Becker Groves, Inc., P. O. Box 1240, Fort Pierce, FL 33454
- Bedrosian, Ed, 2125 River Reach Drive, #504, Naples, FL 33942-6960
- Bee, 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
- 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, Bryan, 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
- Bernardi, Franco, Paramount Citrus, 36445 Road 172, Visalia, CA 93291
- Bernecker's Nursery, 16900 S.W. 216th St., Goulds, FL 33170
- *Berry, Robert E., P. O. Box 3121, Winter Haven, FL 33881
- Bewick, 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
- Bickford, Cliff, P. O. Box 492, Zolfo Springs, FL 33890
- Biebel, Joseph P., 6810 S.W. 62nd Court, South Miami, FL 33143
- Biggs, R. H., U. of Fla., IFAS-Fruit Crops, 2143 Fifield Hall, Gainesville, FL 32611
- Bingaman, Charles E., 12349 Ridge Road, Largo, FL 33468
- Bissett, William F., 2929 J. B. Carter Road, Davenport, FL 33837
- Bistline, Fred, The Coca-Cola Company Foods Division, P. O. Box 368, Plymouth, FL 32768
- Black, Charles, A. Duda & Sons, Inc., 12535 Glades Cutoff Road, Port St. Lucie, FL 34987
- Black, Robert, J., U. of Fla., IFAS-Ornamental Hort., 2551 Fifield Hall, Gainesville, FL 32611
- Blair, Robert H., Mount Dora Growers Cooperative, P. O. Box 36, Mount Dora, FL 32757
- Blazquez, Carlos, H., U. of Fla., IFAS-CREC, 63 Westview Lane, Cocoa Beach FL 32931
- Blockes, Alejandro, 508 Lynddale Street, Tallahassee, FL 32301-7036
- Bohde, Fred, IMC, 1175 George St., Bartow, FL 33830
- Boltin, John C., ICI Americas, Inc., 2812 St. Cloud Oaks Drive, Valrico, FL 33594
- Boman, Brian, U. of Fla., IFAS-AREC, P. O. Box 248, Fort Pierce, FL 34954
- Bonnell, J. M., James M. Bonnell, Inc., P. O. Box 15119, Bradenton, FL 34280
- Borel, Hubert, Maran Groves Corp., 10 Sarasota Center Boulevard, Sarasota, FL 34240
- 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
- Boudrias Groves, 8101 Okeechobee Road, Fort Pierce, FL 34945
- Bouis, Frank S., Florida Fruit Company, 27101 U. S. Highway 27, Leesburg, FL 34748
- Bourgeois, Wayne J., LSU, LAES Citrus Research Station, 2417 Knightway Drive, Terrytown, LA 70056
- Bournique, Douglas C., Indian River Citrus League, P. O. Box 519, Vero Beach, FL 32960
- Bowen, Jeffrey, S., 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
- Boyd, Maurice M., McKinnon Corp., P. O. Box 1066, Winter Garden, FL 32787
- Brantley, J. Tyler, U. S. Sugar Corp., Route 2, Box 169, Clewiston, FL 33440
- 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
- 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
- Bronson, Stan C., Callery-Judge Grove, P. O. Box 810, Loxahatchee, FL 33470
- Bronsons, P. O. Box 420879, Kissimmee, FL 34742
- Brooks, Linda, Dow Chemical Co., 130 Rita Blvd., S. Melbourne Beach FL 32951
- Brooks, Robert 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, Reginald L., Florida Fruit & Vegetable Association, P. O. Box 140155, Orlando, FL 32814
- Brown, Richard, P. O. Box 780213, Sebastian, FL 32978
- Brown, Shirley Wear, S. W. Brown Groves, Inc., 228 Ash Lane, Lakeland, FL 33813
- 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 Company, P. O. Box 154, Bartow, FL 33830
- Bryan, Philip R., Lake Garfield Nurseries, P. O. Box 154, Bartow FL 33830
- Bryan, William M., Agrrol Chemical Products, P. O. Box 609, Lake Wales, FL 33859-0609
- Bryant, Tom, 6460 Pine Ave., Lake Worth, FL 33463
- Buchanan, David W., U. of Fla., IFAS-AREC, 3205 College Avenue, Fort Lauderdale, FL 33314
- Bulger, John, 405 Cardenwood Place, Valrico, FL 33594
- Bullis, Harvey R., Jr., 12420 S.W.248th St., Princeton, FL 33032
- Bullock, Robert C., P. O. Box 248, Fort Pierce, FL 34954
- Bunch, Adam, P. O. Box 568, Highland City, FL 33846
- 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
- Busey, Philip, U. of Fla., IFAS-AREC, 3205 S.W. College Ave., Fort Lauderdale, FL 33314
- Buslig, Bela S., Florida Department of Citrus, P. O. Box 1909, Winter Haven, FL 33883
- Buttram, James R., Citrus Systems, Inc., 1300 East Highway 50, Winter Garden, FL 34787
- Butts, Karl M., 2808 East Midway Road, Plant City, FL 33565
- Byrnes, Robert L., Trail Ridge Nursery, P. O. Box 967, Keystone Heights, FL 32656
- Cagley, Mike, USDA-ARS-NCGR, 23418 U.S.D.A. Road, Groveland, FL 34736
- Caid, Russ D., Chiquita Brands, 250 East Fifth Street, 28th Floor, Cincinnati, OH 45202
- Cain, James L., Vero Orthopaedics, 1300 - 36th St., Vero Beach, FL 32960
- Callery, James, Callery-Judge Grove, P. O.Box 810, Loxahatchee, FL 33470-0810
- Calvert, David V., U. of Fla., IFAS-AREC, P. O. Box 248, Fort Pierce, FL 34954
- Campbell, Beverly A., 15301 S.W. 269th Terrace, Homestead, FL 33032
- *Campbell, Carl W., U. of Fla.,IFAS-TREC 18905 S.W. 280th St., Homestead, FL 33031
- Campbell, Craig A., J. R. Brooks & Son, Inc. P. O. Drawer 9, Homestead, FL 33090
- Campbell, James, Chemical Dynamics, Inc., P. O. Box 486, Plant City, FL 33564
- Campbell, Richard J., 15301 S.W. 269th Terrace, Homestead, FL 33032
- Cancalon, Paul F., Florida Department of Citrus, 700 Experiment Station Road, Lake Alfred, FL 33850
- Canham, A. E., 529 Damien Ave., LaVerne, CA 91750
- Cantiliffe, Dan, U. of Fla., IFAS-Vegetable Crops, 1255 Fifield Hall, Gainesville, FL 32611
- Caple Farms Nursery, 18500 S.W. 132nd Ave. Miami, FL 33177
- Carey, Sarah, Citrus & Vegetable Magazine, P. O. Box 7595, Tampa, FL 33673
- Cargill, Inc., Information Center, Attn: Pat Johnson, P. O. Box 5670, Minneapolis, MN 55440
- Carlin, Peter, Shadow Oaks Nursery, Inc., 6700 Porter Road, Sarasota, FL 34240
- Carlton, Gregory A., United States Sugar Corp., P. O. Drawer 1207, Clewiston, FL 33440
- Carne, Gerald G., 3519 Luneta Lane, Fallbrook, CA 92028
- Carnell, Christopher D., Agplast Co., 1111 99th St. NW, Bradenton, FL 34209
- Carpenter, Thomas L., Agri-Tech Services, Inc., 431 Avenida Del Rio, Clewiston FL 33440
- Carpenter, William J., U. of Fla., IFAS-Ornamental Hort., 2541 Fifield Hall, Gainesville, FL 32611
- Carson, David W., Chemical Dynamics, Inc., P. O. Box 486, Plant City, FL 33564
- Carson, W. B., Chemical Dynamics, Inc., P. O. Box 486, Plant City, FL 33564
- Carter, Hugo A., 602 S.W. Pine Tree Lane, Palm City, FL 34990
- Carter, Michael, Ben Hill Griffin, Inc., P. O. Box 53, Frostproof, FL 33843
- Carter, Robert D., Florida Department of Citrus, 700 Experiment Station Road, Lake Alfred, FL 33850
- Cashion, Geraldine J., 2948 Landmark Way, Palm Harbor, FL 34684
- Caso, Jose E., 1225 Ponce de Leon Ave., Santurce, PR 00907
- Cassens, K. D., Cassens' Grove Service, Inc., P. O. Box 613, Fort Pierce, FL 33450
- Castle, William S., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Castro, Ben F., Gadsden Extension Service, 2140 West Jefferson Street, Quincy, FL 32351
- Cauthen, John, Arborform, Inc., P. O. Box 7001, Fort Myers, FL 33911
- Chambers, Burgess, P. O. Box 3316, Winter Park, FL 32790
- Chandler, Craig K., U. of Fla., IFAS, 13138 Lewis Gallagher Road, Dover, FL 33527
- Chase, Ann R., U. of Fla., IFAS-CFREC, 2807 Binion Road, Apopka, FL 32703
- Chase, F. W., Jr., P. O. Box 1836, Sanford, FL 32772
- Chase, Frank K., Chase Grove Service, P. O. Box 2235, Lakeland, FL 33806
- Chen, C. S., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Cherry Lake Tree Farm, Attn: Alan Heinrich, 7836 Cherry Lake Road, Groveland, FL 34736
- Cheshire, J. T., Jr., Cheshire Citrus Care, P. O. Box 909, Lake Placid, FL 33852
- Chesnutt, W. Fleetwood, 1866 First St., Vero Beach, FL 32962-2746
- Childers, Norman F., 3906 N.W. 31st Place, Gainesville FL 32606

- Childs, Reginald L., Diamond R Fertilizer Co., 3803 Sunrise Blvd., Fort Pierce, FL 33482
- Chizala, Cuthbert T., Tuskegee Institute, c/o Dr.F.Basiouny, 203 Miltbank Hall, Tuskegee, AL 36088
- Chun, David T. W., USDA-ARS, Cotton Quality Research Station, P. O. Box 792, Clemson, SC 29633
- Clark, Allen V., Coca-Cola Foods, P. O. Box 368, Plymouth, FL 32768
- Clark, Gary A., U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
- Clement, R. W., P. O. Box 2207, Haines City FL 33844
- Clinton, Dennis, Division of Plant Industry, 1367 N.E. 27th Court, Pompano Beach, FL 33064
- Clough, George H., Hermiston Agr. Res. & Ext. Center, P. O. Box 105, Hermiston, OR 97838
- Cloughley, Jim, Jack M. Berry Grove Corp., 490 - 45th Court, Vero Beach, FL 32968
- Cohen, Mortimer, #221-E, 671 N.E. 195th Street, North Miami Beach, FL 33179
- Collins, Charles R., Ward's Nursery, Inc., P. O. Box 850, Avon Park, FL 33825
- Collins, H. W., 5600 N.W. 28th Terrace, Gainesville, FL 32606
- Colon, Wilfredo, 3619 S.W. 24th Avenue, #12 Gainesville, FL 32607-4447
- Conklin, Alan R., FMC Corp., CMSD, P. O. Box 1708, Lakeland, FL 33802
- Conoly, Joe, 5026 N.W. 36th Drive, Gainesville, FL 32605
- Conover, Charles A., U. of Fla., IFAS-CFREC, 2807 Binion Road, Apopka, FL 32703
- Cook, Bruce A., 9201 Palmer Blvd., Sarasota, FL 34240
- Cook, Ralph W., P. O. Box 1073, Dunedin, FL 33528
- Cooper, Paul E., U. of Ark., Coop. Ext. Service, 100 East First Street, Warren, AR 71671
- Cooper, Talbert, Jr., P. O. Box 1900, Fort Pierce, FL 33454
- *Cooper, William C., 443 Lakewood Dr., Winter Park, FL 32789
- Cooperative Extension Service, 2900 Ringling Blvd. Sarasota, FL 34237
- Cooperative Fruit Company, P. O. Box 607, Lake Wales FL 33853
- Corman, Murray J., Garden of Delights, 14560 S.W. 14th Street, Davie, FL 33325-4217
- Costner, G. C., Costner Caretaking Service, Inc., Route 4, Box 195, Arcadia, FL 33821
- Coulter, Wallace H., 600 W. 20th St., Hialeah, FL 33010
- Council, Travis David, 2723 - 24th Street, S.E., Ruskin, FL 33570
- Counter, Charles, Berry Citrus Products, Inc., P. O. Box 459, LaBelle, FL 33935
- Cox, Robert S., P. O. Box 534, Cashiers, NC 28717
- Coy, Bonnie L., U. of Fla., IFAS-AREC, 3205 S.W. College Avenue, Fort Lauderdale, FL 33314
- Craig, David, Diamond R Fertilizer, P. O. Box 12489, Fort Pierce, FL 34979
- Crane, Jonathan H., U. of Fla., IFAS-TREC, 18905 S.W. 280 St., Homestead, FL 33031
- Crane, Steve, Rohm and Haas, 3682 Liberty Square, Fort Myers, FL 33908
- Craven, William P., 1640 Valley Drive, Venice, FL 34292
- Crawford, John H., Crawford Company, 10 N. Tropical Trail, Merritt Island, FL 32953
- Crawford, Richard J., 1126 West Ruby Street, Lakeland FL 33801
- Creighton, Jack, 3315 - 33rd Street, West, Bradenton, FL 34205
- Crews, C. Elton, Inc., Attn: Eugene E. Swearingen, P. O. Box 1405, Avon Park, FL 33825
- Crocker, Timothy E., U. of Fla., IFAS-Fruit Crops, 1143 Fifield Hall, Gainesville, FL 32611
- Cross, Stephen D., 5858 Meander Drive, San Jose, CA 95120
- Crovetti, Aldo J., Abbott Laboratories, 735 E. Greenview Place, Lake Forest, IL 60045
- Crum, David, Maran Groves, 699 Lake Hollingsworth Drive, Lakeland, FL 33802
- Crumblly, L. Davis, Coca-Cola Foods, P. O. Box 1322, Avon Park, FL 33825
- Crump, Steven S., 12549 Glades Cutoff Road, Port St. Lucie, FL 34987
- Csizinsky, Alexander A., U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
- Cuarezma, Jorge A., Monsanto Agricultural Company, 5700 S.W. 127th Avenue, #1313 Miami, FL 33183
- Cummings, James F., 8400 Picos Road, Suite 101, Fort Pierce, FL 33451
- Cummings, Joseph A., #E5, 6265 S.W. 72nd Street, South Miami, FL 33143
- Curran, Robert R., Rohm and Haas Company, 8416 S. E. Palm Street, Hobe Sound, FL 33455
- Cushman, Michael, Sun Citrus Association, Inc., 5300 Sun Citrus Boulevard, Fort Pierce, FL 34946
- Cusson, Jeffrey L., Becker Groves, P. O. Box 1240, Fort Pierce, FL 34954
- Cuthbert, Edmund R., Jr., P. O. Box 328, Summerville, SC 29484
- D'Albora, J. V. Company, 130 - 43rd Avenue, S.W., Vero Beach, FL 32966-2382
- Dalton, J. D., P. O. Box 570994, Miami, FL 33157
- Dan, Anna J., A & L Agricultural Laboratory, Inc.
- Dancy, Francis L., Sharlyn Citrus Corp., P. O. Box 457, Fort Pierce, FL 34954
- Datnoff, L. E., U. of Fla., IFAS-EREC, P. O. Box 8003, Belle Glade, FL 33430
- Dave, Bhal A., Pennwalt Corp., 1713 S. California Ave., Monrovia, CA 91016-0120
- Davenport, Sally B., P. O. Box 5127, Immokalee, FL 33934-5002
- Davenport, Tom, U. of Fla., IFAS-TREC, 18905 S.W. 280th St., Homestead, FL 33031
- Davies, Frederick S., U. of Fla., IFAS-Fruit Crops, 1143 Fifield Hall, Gainesville, FL 32611
- Davis, Betsy, H.D.R. Engineering, Inc., 5100 West Kennedy Boulevard, Suite 300 Tampa, FL 33609-1806
- Davis, Bob, 269 N. Lake Lulu Dr., Winter Haven, FL 33880
- Davis, Dean F., U. S. Department of Agriculture, 2825 N.W. 21st Ave., Gainesville, FL 32605
- Davis, Jeff, 1701 Courtyard Way, #A103, Naples, FL 33962-5368
- Davis, Paul M., Landscape Architect, P. O. Box 536863, Orlando, FL 32853
- Davis, W. C., Davis Grove Service, Inc., 2849 Johio Shores Dr., Orlando, FL 32818
- Dawson, W. Penn, Jr., 971 Bay Esplanade, Clearwater, FL 33515
- Dean, Mark F., Two Pines, Inc., 7573 Raymary Street, Bokeelia, FL 33922-1919
- Dehgan, Bijan, U. of Fla., IFAS-Ornamental Hort., Gainesville, FL 32611
- Dekazos, Elias D., 408 Sandstone Dr., Athens, GA 30605
- Delaney, S. David, E. I. duPont deNemours & Company, P. O. Box 120818, Clermont, FL 34711-0818
- Delgado, Jose, P. O. Box 2175, Kingshill, St. Croix, VI 00851
- Denmark, H. A., 10930 N.W. 12th Place, Gainesville, FL 32606
- Denmark, J. C., 113 Lake Thomas Dr., Winter Haven, FL 33880-3726
- Deszyck, E. J., 9314 Westmoor Dr., Richmond, VA 23229
- DeVito, Oneida, Bright Life, Inc., P. O. Box 651466, Miami, FL 33265
- Dewenter, Paul A., 73-4438 Paiaha Street, Kailua-Kona, HI 96740
- Diaz, Gilberto, 13025 S.W. 49th Terrace, Miami, FL 33175
- *Dickey, R. D., 1034 N.W. 60th St., Gainesville, FL 32601
- Dickinson, D. Edward, P. O. Box 1203, Haines City, FL 33845
- Dickinson, James H., Jr., P. O. Box 425, Frostproof, FL 33843
- Diem, John R., Southern Agricultural Insecticides, Inc., P. O. Box 218, Palmetto, FL 34220
- 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
- Dillingham, Eric, P. O. Box 1856, Kingshill, VI 00850
- Dinger, Paul, 4500 Buckingham Road, Fort Myers, FL 33905
- Dobson, David J., Collier Enterprises, P. O. Box 1115, Immokalee, FL 33934
- Donselman, Henry M., Rancho Soledad Nurseries, Inc., P. O. Box 1689, Rancho Santa Fe, CA 92067
- Dooley Groves, Inc., P. O. Box 38, Sun City, FL 33586
- Doublerley, Wayne, Kahn Grove Service, 5301 Oakland Road, Sebring, FL 33870
- Douglass, Leonard, Asgrow Florida Company, Route 9, Box 380, Lake City, FL 32055
- Douglass, Spencer G., Douglass Fertilizer & Chemical Co., Inc., 1180 Spring Centre S. Boulevard, #102, Altamonte Springs, FL 32714
- Dowling, C. F., Jr., Division of Plant Industry, 11545 S.W. 107th Court, Miami, FL 33176
- Dozier, James C., Foremost Fertilizer Company, P. O. Box 1085, Leesburg, FL 32748
- Driscoll, Paul J., Driscoll Citrus Service, Inc., 2906 Grove Drive, Fort Pierce, FL 34981
- Driscoll, Paul J., Jr., P. O. Box 1509, Fort Pierce, FL 33454
- Dubin, Rory A., 2462 Briar Oak Circle, Sarasota, FL 34232
- DuBois, Mark, CMC Management, 176 12th Street, S.E., Vero Beach, FL 32962
- Dudeck, A. E., U. of Fla., IFAS, 1531 Fifield Hall, Gainesville, FL 32611
- Dudley, Robert W., P. O. Box 1235, Inverness, FL 32651
- Dufault, Robert J., Coastal Research & Education Center, 2865 Savannah Highway, Charleston, SC 29407
- Dunn, R. A., U. of Fla., IFAS, Nematology Lab., Building 78, Gainesville, FL 32611
- Duppenthaler, Dallas E., Jr., 721 State Road 535, Winter Garden, FL 32787
- DuPuy, Christina, 19901 Coral Sea Road, Miami, FL 33157
- Durkin, John C., Orange-co of Florida, Inc., Route 1, Box 889, Arcadia, FL 33821
- Dusky, Joan A., U. of Fla., IFAS-EREC, P. O. Box 8003, Belle Glade, FL 33430
- Dyal, Robert L., Pelican Groves, Ltd., 1985 S.E. 19th Avenue, Arcadia, FL 33821
- Eastin, John A., P. O. Box 30327, Lincoln, NB 68503
- Echeverria, Ed, U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Ecke, Paul Ranch, P. O. Box 488, Encinitas, CA 92024
- *Edsall, R. S., 3915 First St., S.W., Vero Beach FL 32960
- Edsall, R. S., Jr., Edsall Grove Service, Inc., 3915 First Street, S.W., Vero Beach, FL 32962
- Edwards, George J., 199 Eighth Street, S.E., Winter Haven, FL 33880
- Egan, Bob, DNE Sales, 1900 Old Dixie Highway, Fort Pierce, FL 33450
- Eger, Joe, Dow Chemical Company, 5100 West Kennedy Boulevard, Suite 450, Tampa, FL 33609
- Eide, Elling O., Indiana, 8000 South Trail, Sarasota, FL 34231
- El-Hout, Nael M., South Bay Growers, Inc., P. O. Drawer A, South Bay, FL 33493
- Elliott, Wooda B., Tucker & Branham, Inc., P. O. Box 178, Winter Park, FL 32790
- Ellis, Lynn, Becker Groves, P. O. Box 1240, Fort Pierce, FL 34954
- Ellis, Richard E., Diamond R Fertilizer Company, P. O. Box 1458, Winter Garden, FL 32787
- Elmstrom, Gary W., U. of Fla., IFAS-CFREC, 5336 University Ave., Leesburg, FL 34748
- Elsberry Greenhouse, Inc., 101 Big Bend Road, Ruskin, FL 33570
- Elsberry, Bruce, Elsberry Brothers, 101 Big Bend Road, Ruskin, FL 33570
- Embleton, Tom W., Dept. of Horticultural Science, University of California, Riverside, CA 92502
- Emino, Everett R., U. of Fla., IFAS, 1022 McCarty Hall Gainesville, FL 32611
- Engelhard, Arthur W., U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
- England, Gary K., A. Duda & Sons, Inc., P. O. Box 788, LaBelle, FL 33935
- Engler, Paul B., California Citrus Quality Council, 953 W. Foothill Blvd., Claremont, CA 91711
- Englert, David M., 3745 Dorrit Ave., Boynton Beach, FL 33436
- English, Ed, Pacific Land Co., Route 2, Box 421, Immokalee, FL 33934
- English, Hugh A., Duda & Sons, Inc., P. O. Box 788, LaBelle, FL 33935
- Ennis, W. B., Jr., U. of Fla., IFAS-AREC, 3205 S.W. College Ave., Fort Lauderdale, FL 33314

- Enochs, Robert H., Agri-Specialty Company, Inc., P. O. Box 1690, Brandon, FL 33509-1690
- Erb, Roberto, 1885 N.E. 175th Street, North Miami Beach, FL 33162
- Erickson, Clair, Monsanto Chemical Company, 691 Keeneland Pike, Lake Mary, FL 32746-3952
- Ericson, Andrew P., 927 Scott Boulevard, Apt. 206, Decatur, GA 30030-1306
- Esnard, Joseph, USDA/ARS, TARS, P. O. Box 70, Mayaguez, PR 00709
- Estes, W. Cody, Estes Citrus, Inc., 3705 - 20th Street, Vero Beach, FL 32960
- *Everett, Paul H., 5762 Beechwood Trail, S.W., Fort Myers, FL 33919
- Eyberg, Dorothy, Asgrow Seed Company, 8200 David Brown Highway, Naples, FL 33999
- Fairchild Tropical Garden, 10901 Old Cutler Road, Miami, FL 33156
- Farm and Garden Supply, P. O. Box 2259, Sarasota, FL 33578
- Farm Credit of Central Florida, P. O. Box 8009, Lakeland, FL 33802
- Farnsworth, Steve, 7080 Hypoluko Farms Road, Lake Worth FL 33463
- Farr, Steve, 1025 C. R. 17, North, Lake Placid, FL 33852
- Farrell, William R., 5540 Cypress Road, Plantation, FL 33317
- Faryna, Nick, P. O. Box 644, Umatilla, FL 32784
- Fathke, William J., 3459 North Stratford Road, N.E., Atlanta, GA 30342-4533
- Fawsett, Charles F., Jr., 2417 N. Ocean Dr., Fort Pierce, FL 34949
- Fazli, Syed F., Plantboy, Inc., P. O. Box 290146, Fort Lauderdale, FL 33329
- Fedemel, Terry, City of Naples, 343 Conners Avenue, Naples, FL 33963-2123
- Fellers, Paul J., Florida Department of Citrus, 700 Experiment Station Road, Lake Alfred, FL 33850
- Felman, Cynthia, Frank's Nursery & Crafts, 6399 E. Nevada, Detroit, MI 48234
- Fennell, Thomas A. III, Fennell Orchid Company, Inc., 26715 S.W. 157th Ave., Homestead, FL 33032
- Ferguson, James J., U. of Fla., IFAS-Fruit Crops, 2111 Fifield Hall, Gainesville, FL 32611
- Fernandez, Daniel, Fernandez Farms, P. O. Box 886, Dove Creek, CO 81324-0886
- Fernandez, Jose L., 41 W. 96th St., New York, NY 10025
- Fernandez, Tom, Horticulture Department, Michigan State University, East Lansing, MI 48823
- Fields, Dan, Agrimar Corp., 2912 San Rafael, Tampa, FL 33629
- Fifield, Willard M., 709 N.W. 22nd Street, Gainesville, FL 32603
- Fine Gardening Magazine, P. O. Box 355, Newtown, CT 06470
- Fischer, Everett H., Winter Garden Citrus Growers Assn., P. O. Box 69, Winter Garden, FL 32787
- Fisher, Robert, Florida Southern College, 111 Lake Hollingsworth Drive, Lakeland, FL 33801
- Fitzpatrick, George E., U. of Fla., IFAS-AREC, 3205 S.W. College Ave., Fort Lauderdale, FL 33314
- Florida Blueberries, Inc., P. O. Box 836, Waldo, FL 32694
- Florida Citrus Nursery, 989 N. LRL Ranch Road, Avon Park, FL 33825
- Florida Fertilizer Company, Inc., P. O. Box 1087, Wauchula, FL 33873
- Florida Foundation Seed Producers, Inc., P. O. Box 309, Greenwood, FL 32443
- Florida Gift Fruit Shippers Association, 521 North Kirkman Road, Orlando, FL 32808
- Florida Land Management, 4602 Dogwood Hills Court, Brandon, FL 33511
- Florida Lime & Avocado Admin. Committee, Attn: Shirley J. Manchester P. O. Box 188, Homestead, FL 33090-0188
- Florida Turf Grass Association, 302 Graham Ave., S., Orlando, FL 32803
- Fluck, Richard C., U. of Fla., IFAS-Agric. Eng., 71 Frazer-Rogers Hall, Gainesville, FL 32611
- Fooshee, W. Chris, 2312 Wekiva Ridge Road, Apopka, FL 32712
- *Ford, Harry W., 350 E. Orange St., Lake Alfred, FL 33850
- Ford, Steve, U. of Fla., IFAS, 1109 McCarty Hall, Gainesville, FL 32611
- Forget, Louis C., Diamond R Fertilizer Company, P. O. Box 281, Fort Pierce FL 34954
- Forget, Phil, Diamond R Fertilizer Company, 3125 Gordy Road, Fort Pierce, FL 34945
- *Forsee, W. T., Jr., 202 Huron Circle, Fort Pierce, FL 33450
- Foster, William J., Grace-Sierra Hort. Prod., 1310 Carson Road, Mobile, AL 36695
- Fowler, C. Wayne, Asgrow Seed Company, 8200 David Brown Highway, Naples, FL 33999
- Fowler, Robert M., 5401 Deleon Avenue, Fort Pierce, FL 34951
- Fox, Kenneth, FMC Corp., P. O. Box 1708, Lakeland, FL 33802
- Francis, John A., Sierra Chemical Company, P. O. Box 4003, Milpitas, CA 95035
- Frantz, Galen, Glades Crop Care, Inc., 949 Turner Quay, Jupiter, FL 33458
- Frasier, Marshall, Kaiser/Estech, 3540 Pine Tree Loop, Haines City, FL 33844
- Fredrick, John M., Atlantic Fertilizer & Chemical Co., 18375 S.W. 260 Street, Homestead, FL 33031
- Freeman, David W., 37 Little John Lane, Rockledge, FL 32955
- Freeman, Robert H., P. H. Freeman & Sons, Inc., P. O. Box 770535, Winter Garden, FL 34777
- Friedlander, Edwin, P. O. Box 272, Lake Wales, FL 33859
- Frost, A. Jack, Jr., Lykes Agri Sales, 1454 Cumberland Court, Fort Myers, FL 33919
- Fuller, Keith, U. of Fla., IFAS, P. O. Box 2097, St. Augustine, FL 32085
- Fuller, Sam, 6101 W. Stafford Road, Plant City, FL 33566
- Fulton, Robert H., 9877 N.W. 49th Terrace, Miami, FL 33178
- Fulton, W. C., Werner C. Fulton, Inc., P. O. Box 98, Alturas, FL 33820
- Futch, Jeff H., Hi Acres, P. O. Box 1593, Sebring, FL 33871
- Futch, Stephen H., U. of Fla., IFAS-CREC, P. O. Box 553, Winter Haven, FL 33882
- Ga. Ag. Chem., Inc. 38304 Coconut Palm Drive, Suite #170, Tampa, FL 33619
- Gainen, Dennis C., Route 2, Box 333, Williston, SC 29853
- Galbraith, Daniel M., 217 Lakewood Avenue, Ventura, CA 93004
- Gallego M., German A., Florida Department of Citrus, 700 Experiment Station Road, Lake Alfred, FL 33850
- Gamper, W. A., Haines City Citrus Growers Assn., P. O. Box 337, Haines City, FL 33844
- Garden Department, Southern Living Magazine, P. O. Box 523, Birmingham, AL 35201
- Garnsey, Stephen M., U. S. Department of Agriculture, 2120 Camden Road, Orlando, FL 32803
- Garrett, David, Lake Trafford Grove, P. O. Box 1304, Bradenton, FL 34206
- Garrett, Richard, Fermenta Plant Protection, 7320 Sean Lane, North Fort Myers, FL 33917
- Garrett, Sharon, P. O. Box 1332, Haines City, FL 33844
- Gaskalla, Richard D., Division of Plant Industry, P. O. Box 1269, Gainesville, FL 32602
- Gates, Philip C., Jr., P. O. Box 609, Fort Pierce, FL 34954
- Gaver, Tim, Diamond R Fertilizer, 4100 Glades Road, Fort Pierce, FL 34981
- Gay, Murray F., Growers Fertilizer Corp., P. O. Box 1407, Lake Alfred, FL 33850
- Geraldson, C. M., 1111 - 99th St., N.W., Bradenton, FL 34209
- Gerber, John F., 3825 S.W. 4th Place, Gainesville, FL 32607
- Gianessi, Leonardo, 1616 P Street, N.W., Washington, DC 20036
- Gibb, William H., Jr., Gibb Groves, 12834 Sunset Avenue, Clermont, FL 32711
- Giblin-Davis, Robin M., U. of Fla., IFAS-AREC, 3205 S.W. College Ave., Fort Lauderdale, FL 33314
- Gies, Larry R., 1840 Huron Trail, Maitland, FL 32751
- Gilliard, Henry D., Jr., P. O. Box 891, Wauchula, FL 33873
- Gilman, Edward F., U. of Fla., IFAS, 1543 Fifield Hall, Gainesville, FL 32611
- Gilreath, James P., U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
- Gilreath, Phyllis R., Manatee County Extension Service, 1303 - 17th St., W., Palmetto, FL 34221
- Giraldo, Louis E., 7525 S.W. 56th Ave., Miami, FL 33143
- Girtman, William L., W. S. Babcock Corp., P. O. Box 497, Mulberry, FL 33860
- Glandon, George, Harris Moran Seed Company, 3311 Long Rifle Drive, Wimauma, FL 33598
- Glass, Bryan J., Hancockkk-Fidelity Citrus, Ltd. Route 2, Box 1210, Clewiston, FL 33440
- Glenn, Raymond D., Matthew's Nursery, 12100 S.W. 43rd Street, Miami, FL 33175
- Goff, K. J., 1817 S. Highland Park Drive, Lake Wales, FL 33853
- Golden Grove, Inc., 1770 Keane Avenue, Naples, FL 33864-1101
- *Goldweber, Seymour, 7900 S.W. 126th Terrace, Miami, FL 33156
- Goochland Nurseries, Inc., 2400 Highway 17 & 98, N., Fort Meade, FL 33841
- Goodwin, Peter L., Verlite Company, P. O. Box 1002, Apopka, FL 32704
- Goodwine, William R., Janssen Pharmaceutica, Inc., 40 Kingsbridge Road, Piscataway, NJ 08854
- Gordon, J. D., 24550 S.W. 188th Ave., Homestead, FL 33031
- Gose, John H., Jr. 108 Tom's Road, Lorida, FL 33857
- Gosen, George, Jr., Merck & Co., Inc., P. O. Box 2000, Rahway, NJ 07065
- Gottwald, Tim R., U. S. Department of Agriculture, 2120 Camden Road, Orlando, FL 32803
- Gough, John Roy, U.A.P. Fla., Inc., P. O. Box 1890, Wauchula, FL 33873
- Graham, James H., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Gramling, Hugh M., 3402 S. Redman Parkway, Plant City, FL 33566
- Grant, Lucie A., American Machinery Corp., 2730 Eunice Avenue, Orlando, FL 32808
- Graves, Hubert, Jr., 4575 Rosedale Road, Vero Beach, FL 32966
- Graves, William C. IV, 4344 Second Square, S.W., Vero Beach, FL 32962
- Gray, Dennis J., U. of Fla., IFAS-AREC, 5336 University Avenue, Leesburg, FL 34748
- Green Heron Landscapes, Inc., 2400 Immokalee Road, Naples, FL 33942
- Green, James L., Department of Horticulture, Oregon State University, Corvallis, OR 97331
- Green, Joan, Green's Gourmet Groves, 10905 S.W. 119 Street, Miami FL 33176
- Greene, B. E., Jr., 2075 - 38th Ave., Vero Beach, FL 32960
- Greer, Bruce, 5900 S.W. 97th Street, Miami, FL 33156
- Gricius, Anthony, 6705 Broken Arrow Trail, S., Lakeland, FL 33803
- *Grierson, William, 18 Golf View Circle, Winter Haven, FL 33881
- Griffis, John, Florida Southern College, 111 Lake Hollingsworth Drive, Lakeland, FL 33801
- Griffith, Donald M., Royal Palm Cultivation, Inc., P. O. Box 1057, Loxahatchee, FL 33470-1057
- Griffith, Keith, Uniroyal Chemical, 6233 Ridgeberry Dr., Orlando, FL 32819
- Griffith, Lynn, A & L Southern Agricultural Labs., 1301 W. Copans Road, Building D-8, Pompano Beach, FL 33064
- Griffith, R. J., P. O. Box 335, Oakland, FL 34760
- Griffiths, J. T., 2930 Winter Lake Road, Lakeland, FL 33801
- Gross, Emil R., 15901 S.W. 157th Ave., Miami, FL 33187
- Grosser, Jude, U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Growers Fertilizer Corp., P. O. Box 1407, Lake Alfred, FL 33850
- Gruber, Donna, 85 N.W. 104th Street, Miami Shores, FL 33150
- Gruenbeck, Eugene R., Red Oak Nursery, 14195 N.E. City Road 315, Ft. McCoy, FL 32134
- Guerndt, Fred, Orange Enterprises, Inc., 206 East Orange Street, Wauchula, FL 33873-2935
- Guilford, Harold E., Citrus & Agricultural Consultant, 521 Bonnie Dr., Lakeland, FL 33803-2005

- Gupta, Seema, FMC Corp., P. O. Box 1708, Lakeland, FL 33802
 *Guzman, Victor L., U. of Fla., IFAS-EREC, P. O. Box 8003, Belle Glade, FL 33430
 Gwin, George H., 1211 Wren, Miami Springs, FL 33166
 H. P. Leu Botanical Gardens, 1730 N. Forest Ave., Orlando, FL 32803
 Hackmann, Michael, Yoder Brothers of Florida, P. O. Box 68, Alva, FL 33920
 Haddox, Jackson A., 706 Tangerine Street, Tavares, FL 32778
 Haeger, James S., 1865 Garden Grove Parkway, Vero Beach, FL 32962
 Haehle, Robert G., 315 S.W. 19th Ave., Fort Lauderdale, FL 33312
 Hagillih, Daniel A., 930 Willowleaf Drive, #407 San Jose, CA 95128-3672
 Haines City Citrus Growers Assn., P. O. Box 337, Haines City, FL 33844
 Hale, Charles W., MH Liners, 12860 Thonotosassa Road, Dover, FL 33527
 Hale, Roger H., Superior Fertilizer & Chemical Co., P. O. Box 776, Anna Maria, FL 33501
 Hall, C. B., U. of Fla., IFAS-Vegetable Crops, Gainesville, FL 32611
 Hall, David G., U. S. Sugar Corp., 1200 Pinewood St., Clewiston, FL 33440
 Hall, William Garvie, Citrus Partners, 3824 S. Florida Ave., Lakeland, FL 33803
 Hallaron, Jay L. Uniroyal Chemical 8595 Tansy Dr. Orlando, FL 32819
 Hallman, Guy J., U. S. Department of Agriculture 13601 Old Cutler Road, Miami, FL 33158
 Hammer, Lisa C., P. O. Box 1551, Homestead, FL 33090
 Hammond, Luther C., U. of Fla., IFAS, 2169 McCarty Hall, Gainesville, FL 32611
 Hampton, Monica Obores, U. of Fla., IFAS-TREC, 18905 S.W. 280th Street, Homestead, FL 33031
 Hancock, Jeff, Turner Foods Corp., 25450 Airport Road, Punta Gorda, FL 33950
 Hancock, Kevin Diamond R Fertilizer Co. 606 Dark Hammock Road Fort Pierce, FL 34982
 Hancock, Steven, Citrus Partners, Ltd., 1525 S.E. Piggyback Road, Arcadia, FL 33821
 Hanna, H. Y., La. State Univ., Citrus Res. Sta., Route 1, Box 631, Port Sulphur, LA 70083
 Harbaugh, Brent K., U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
 Hardison, Allen, Citrus Orchard Service, P. O. Box 217, Corona, CA 91720
 Harowitz, Michael, Griffin Ag Products, 890 S.E. Walters Terrace, Port St. Lucie, FL 33452
 Harrell, James, Division of Forestry, 3125 Conner Boulevard, Tallahassee, FL 32399-1650
 Harris, William E., Gracewood, Inc., 5335 - 8th St., Vero Beach, FL 32968
 Harrison, Dalton S., 300 S.W. 41st St., Gainesville, FL 32607
 Harrison, Gerald, ISK Biotech Corp., P. O. Box 70665, Albany, GA 31707
 Hartle, Benson, Hartle Groves, Inc. 13642 Hartle Road, Clermont, FL 34711
 Hartt, William G., P. O. Box 2196, Lake Placid, FL 33852
 Hassett, Betty, 2401 Ginger Ave., Coconut Creek, FL 33063
 *Hattan, Thurman T., Jr., P. O. Box 68, Chuluota, FL 32766
 Hawkins, C. Wayne, Florida Tomato Committee, P. O. Box 140635, Orlando, FL 32814-0635
 Hawthorne, Stan, 12502 Lake Buynak Court, Windermere, FL 34786
 Hayes, C. J., Florida Atlantic Grove Service, Inc., P. O. Box 6280, Vero Beach, FL 32961
 Hayes, Dale L., Nelson & Co., Inc., P. O. Box 789, Oviedo, FL 32765-0789
 *Hayslip, Norman C., U. of Fla., IFAS-AREC, P. O. Box 248, Fort Pierce, FL 33450
 Hayslip, Norman E., 6147 S. U.S. #1, Fort Pierce, FL 33482
 Hearn, C. Jack, U. S. Department of Agriculture, 2120 Camden Road, Orlando, FL 32803
 Hebb, Jack, St. Lucie County Agric. Complex, 8400 Picos Road, Suite 101, Fort Pierce, FL 34945
 Hebb, Leon H., Division of Plant Industry, 890 S. Oak Ave., Bartow, FL 33830
 Hebert, Susanne Rice, 3038 Sandpiper Court, Clearwater, FL 34622
 Helveston, Percy, Tamiami Flower Growers, Inc., 15940 South Tamiami Trail, Fort Myers, FL 33908
 Hendrix, Charles M., Firmenich/Clermont Office, P. O. Box 120626, Clermont, FL 34712-0626
 Hendry, A. E., P. O. Box 2298, Lake Placid, FL 33852
 Henley, Richard W., U. of Fla., IFAS-CFREC, 2807 Binion Road, Apopka, FL 32703
 Henny, Richard J., U. of Fla., IFAS-CFREC, 2807 Binion Road, Apopka, FL 32703
 Hensel, Dale R., U. of Fla., IFAS-ARC, P. O. Box 728, Hastings, FL 32045
 Hensley, Rich, Owl Hammock Nursery, P. O. Box 430, Immokalee, FL 33934
 Henwood, W. C., Bath Hospital, Hot Springs, VA 24445
 Hepburn, P. L., 1467 N. Leavitt Ave., Orange City, FL 32763
 Hepperly, Paul R., Tropical Agriculture Research Station, P. O. Box 70, Mayaguez, PR 00709
 Herrera, Mike, 24350 S.W. 182nd Avenue, Homestead, FL 33031-1236
 Herrington, J. Michael, Griffin Corp., 4105 Shoal Green Court, Winter Haven, FL 33884
 Hester, W. W., Jr., Hester Groves, 8001 Eureka Dr., Miami, FL 33157
 Hettich, Mark, 1854 Ottawa Avenue, Dousman, WI 53118
 Hewitt, Timothy D., U. of Fla., IFAS-ARC, Route 3, Box 376, Marianna, FL 32446
 Hey, John R., Lake Region Packing Association, P. O. Box 1047, Tavares, FL 32778
 Hilliard, Joe M., Hilliard Brothers of Florida, Route 2, Box 175, Clewiston, FL 33440
 Himborg, James D., 18500 S.W. 134th Avenue, Miami, FL 33177
 Hitchcock, David, Haines City Citrus Growers Assn., P. O. Box 337, Haines City, FL 33844
 Hochmuth, Bob, U. of Fla., IFAS-AREC, Route 2, Box 2181, Live Oak, FL 32060
 Hochmuth, George J., U. of Fla., IFAS-Vegetable Crops, 1255 Fifield Hall, Gainesville, FL 2611
 Hodgin, Steve, Freedom Village, 6501 - 17th Avenue, West, Bradenton, FL 34209
 Hodnett Groves, 6145 Sun Blvd., #211, St. Petersburg, FL 33715
- Hodyss, Loretta B., 559 N. Military Trail, West Palm Beach FL 33415
 Hogan, Joan B., Diamond R Fertilizer Company, P. O. Box 771137, 321 N. Hennis Rd., Winter Garden, FL 34777
 Holcomb, Edgar D., Jr., U. of Fla., IFAS-SWFREC, P. O. Drawer 5127, Immokalce, FL 33934
 Holland, Mariann, The Citrus Industry Magazine, P. O. Box 89, Bartow, FL 33830
 Holloway, Vernon M., 4103 Kipling Avenue Plant City, FL 33567-7221
 Holtsberg, Harold I., 805 S. Indian River Dr., Fort Pierce, FL 34950
 Hooker, Henry F. III, Abel Groves, 600 South Parrott, Okeechobee, FL 34974
 Hopkins, Donald L., U. of Fla., IFAS-CFREC, 5336 University Ave., Leesburg, FL 34748
 Hopkins, William L., Jr., 5200 S.W. 160th Ave., Fort Lauderdale, FL 33331
 Horne, Larry, Helena Chemical Company, P. O. Box 5115, Tampa, FL 33675
 Horne, Lynn D., Ben Hill Griffin, Inc., 1500 Old Eagle Lake Road, Bartow, FL 33830
 Horst, Ray Sinnet, Inc., 3 Skidmore Road, Winter Haven, FL 33884
 Horton, Benjamin A., P. O. Box 2498, Fort Pierce, FL 34954
 Houck, L. C., U. S. Dept. of Agric.-ARS, 2021 S. Peach Ave., Fresno, CA 93727
 Hovey, T. R. Nursery, P. O. Box 716, Ruskin, FL 33570
 Howard Fertilizer Company, Inc., P. O. Box 13800, Orlando, FL 32809
 Howard, Charles M., U. of Fla., IFAS-ARC, 13138 Lewis Gallagher Road, Dover, FL 33527
 Howe, Teresa K., U. of Fla., IFAS-GCREC 5007 - 60th St., E., Bradenton, FL 34203
 Hoyt, C. Way, Tree Trimmers & Associates, Inc., 4301 N.E. 13th Terrace, Fort Lauderdale, FL 33334
 Huff, Paul B., 12 Easy St., Lake Wales, FL 33853
 Huffman, Jerry, 407 Pameto Road, Nokomis, FL 34275
 Huie, Stephen C., P. O. Box 275, Haines City, FL 33845
 Hulbert, Jerry C., Valent USA Corp., 407 Wekiva Springs Road, Longwood, FL 32779
 Hull, DeArmand L., Florida Cooperative Extension Service, 18710 S.W. 288 St., Homestead, FL 33030
 Humphrys, Brooks, P. O. Box 540215, Merritt Island, FL 32954
 Hunt, Frank M. III, P. O. Box 631, Lake Wales, FL 33853
 Hunt, W. Dee, P. O. Box 631, Lake Wales, FL 33853
 Hunter, Arvel H., Agro Services International, Inc. 215 East Michigan Avenue, Orange City, FL 32763
 Hurley, R. Scott, Becker Groves, Inc., P. O. Box 1240, Fort Pierce, FL 34954
 Hurner, G. Timothy, Jr., Florida Cooperative Extension Service, 4509 W. George Blvd., Sebring, FL 33870
 Husted, John C., Waverly Growers Cooperative, 242 Kilmer Lane, S.E., Winter Haven, FL 33884
 Hutchinson, Carol, 1202 Lakeview Drive, Avon Park, FL 33825
 Hutchinson, William F., III, Hutchinson Citrus Nursery, 211 HCN Dr., Sebring, FL 33870
 Ibarra, Julian, 9300 S.W. 80th Terrace, Miami, FL 33173
 Irey, Michael S., U. S. Sugar Corp., P. O. Drawer 1207, Clewiston, FL 33440
 Ismail, Mohamed A., Florida Department of Citrus, 700 Experiment Station Road, Lake Alfred, FL 33850
 J. Wayne Zoffay Grove Service, P. O. Box 535, Frostproof, FL 33843
 Jackson, Jody, 293 Landings Road, Melbourne Beach, FL 32951-3448
 Jackson, John L., Jr., 36545 East Eldorado Lake Drive, Eustis, FL 32726
 Jackson, Keith A., C-1, 2370 - 41st Street, S.W., Naples, FL 33999
 Jackson, Larry K., U. of Fla., IFAS-Fruit Crops, 1143 Fifield Hall, Gainesville, FL 32611
 Jacobs, William C., 4505 Sunset Dr., Vero Beach, FL 32963
 James, William H., 1023 Loves Point Drive, Leesburg, FL 34748
 Jansson, Rick, U. of Fla., IFAS-TREC, 18905 S.W. 280th Street, Homestead, FL 33031
 Jaramillo, Arcesio, Rohm and Haas Company 2600 Douglas Road, Suite 1100, Coral Gables FL 33134
 Jenkins, Tom, P. O. Box 1120, Vero Beach, FL 32961
 Johnson, Georgi, Route 2, Box 472, LaBelle, FL 33935
 Johnson, H. L., Jr., Stoller Chemical Company of Fla., P. O. Box 1227, Eustis, FL 32727
 Johnson, Jon R., Sandhill Research & Education Center, P. O. Box 23205, Columbia, SC 29224
 Johnson, R. S., 4501 Wilkinson Road, Sarasota, FL 34233
 Johnson, Richard H., P. O. Box 850, Immokalee, FL 33934
 Johnson, Robert R., Agricultural Consulting, Inc., P. O. Box 867, Mount Dora, FL 32757
 Johnson, Sherwood J., 8410 Immokalee Road, Fort Pierce, FL 33451
 Johnson, Teiko M., FMC Corp., P. O. Box 1708, Lakeland, FL 33802
 Johnston, Jeffrey B., E. O. Painter Printing Company, P. O. Box 877, DeLeon Springs, FL 32130
 Johnston, S. Dick, E. O. Painter Printing Company, P. O. Box 877, DeLeon Springs, FL 32130
 Jones, Gaston C., Gallery-Judge Grove, 170 Chilean Avenue, D-3 Palm Beach, FL 33480
 Jones, Harold C., 1010 N. McDuff Ave., Jacksonville, FL 32205
 Jones, John Paul, U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
 Joyner, Gene, Florida Cooperative Extension Service, 531 N. Military Trail, West Palm Beach, FL 33415
 Joyner, Margaret, 407-E N.W. 15th Street, Gainesville, FL 32603
 Kader, Adel A., Dept. of Pomology, U. of Calif., Davis, CA 95616
 Kammerer, Steven J., P. O. Box 56871, Jacksonville, FL 32258
 Kane, Michael E., U. of Fla., IFAS, Ornamental Hort. Dept., Gainesville, FL 32611

- Karst, Inc., P. O. Box 616625, Orlando, FL 32861
 Karst, Loyd L., 2301 S. Summerlin Ave., Orlando, FL 32806
 Kauffman, John H., Grand Island Nurseries, P. O. Box 358, Grand Island, FL 32735
 Kavouras, Lou, 6035 Forest Creek Dr., Brooksville, FL 34601
 Kay, Ed, Seald-Sweet Growers, Inc., P. O. Box 6152, Vero Beach, FL 32961-6152
 Kazen, Cornelius, Route 2, Box 249, Wauchula, FL 33873
 Keck, Leland E., Jr., 510 West Seminole Avenue, Eustis, FL 32726
 Keiber, H. Frederick, 3601 South Highlands Avenue, Sebring, FL 33870
 Kelley, Perry, 5078 S.W. Greenridge St. Palm City, FL 33490
 Kelly, Judith L., Aeroglide Corp., 100 Aeroglide Drive, Cary, NC 27511
 Kendall, Harold E., South Florida Growers Assn., P. O. Box 458, Goulds, FL 33170
 Kender, Walter J., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
 Kennedy, Gary, Ciba-Geigy, 6974 Edgeworth Dr., Orlando, FL 32819
 Kennedy, John M., Golden Gem Growers, Inc., P. O. Drawer 9, Umatilla, FL 32784
 Kenney, Peggy, P. O. Box 561591, Miami, FL 33256-1591
 Kerr, Robert S., Holly Hill Fruit Products Co., Inc., P. O. Box 708, Davenport, FL 33837
 Kerr, Robert Scott, Jr., P. O. Box 632, Davenport, FL 33837
 Kesden, Daniel, 4850 W. Oakland Park Blvd., Lauderdale Lakes, FL 33317
 Kesinger, Mike, 1027 Spirit Lake Road, Winter Haven, FL 33880
 Keys, Daniel B., City of Miami Beach, 2100 Meridian Avenue, Miami Beach, FL 33139
 Kezer, Scott R., Producers Fertilizer Company, 2804 Hanson Street, Fort Myers, FL 33916
 Kidder, Gerald, U. of Fla., IFAS, 2169 McCarty Hall, Gainesville, FL 32611-0151
 Kilgore, Jack E. II, 8375 Grove Road, Fort Myers, FL 33912
 Kimball, Dan A., California Citrus Producers, Inc., P. O. Box C, Lindsay, CA 93247
 King Groves, 606 Ave.H, N.E., Winter Haven, FL 33881
 King, Jimmie R., 13304 S.W. 73rd Terrace, Miami, FL 33183
 King, John S., Biosys, Inc., 682 N.W. Sunset Drive Stuart, FL 34994
 King, Paul A., Uniroyal Chemical, 3601 E. Celery Ave., Sanford, FL 32771
 Kirby, Stanley, International Citrus Corp., 6375 - 37th Street, Vero Beach, FL 32966
 Kirschner, Henry, Highway 660, Route 4, Box 980, Arcadia, FL 33821
 Klemm, A. R., Ark Industries, Inc., P. O. Box 9085, Winter Haven, FL 33883
 Klinger, Paul E., Jr., Garden Arts Nursery, Inc., 1921 West Lake Brantley Road, Longwood, FL 32779
 Knapp, Joe, U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
 Knauss, James F., Peters Fertilizer Company, 570 Grant Way, Fogelsville, PA 18051
 Knerr, Larry D., Ferry-Morse Seed Co., 1570 County Road 951, North Naples, FL 33999
 Knight, C. Reed, Knight Grove Care, Inc., P. O. Box 6310, Vero Beach, FL 32970
 Knight, D. Victor, Riverfront Groves, P. O. Box 1148, Vero Beach, FL 32961
 Knowles, Steve, Steve Knowles Citrus Nursery, P. O. Box 2241, Leesburg, FL 32749
 Knox, Gary W., U. of Fla., IFAS-AREC, Route 4, Box 4092, Monticello, FL 32344-9302
 Koch, Karen E., U. of Fla., IFAS-Fruit Crops, Gainesville, FL 32611
 Koch, Mary Ann, 6760 Sara-Sea Circle, Sarasota, FL 34242
 Koo, Robert C. J., 2223 - 12th Street, N.W., Winter Haven, FL 33881
 Krome, William H., P. O. Box 596, Homestead, FL 33090
 Kucharek, T. A., U. of Fla., IFAS-Plant Pathology, 1421 Fifield Hall, Gainesville, FL 32611
 Kyle, Melvin L., Rhone-Poulenc Ag Company, P. O. Box 916385, Longwood, FL 32791
 Lake Butler Groves, Inc., P. O. Box 338, Winter Garden, FL 32787
 Lake Garfield Nurseries Company, P. O. Box 154, Bartow, FL 33830
 Lambe, R. C., P. O. Box 1167, Sanibel, FL 33957
 Lamberts, Mary, Dade Co. Cooperative Extension Service, 18710 S.W. 288th St., Homestead, FL 33030
 Lambeth, Clay T., Jr., Atochem North America, Inc., P. O. Box 1347, Palm City, FL 33490
 Lambeth, George S., Jr., Golden River Fruit Company, P. O. Box S, Vero Beach, FL 32960
 Lamikanra, Olusola, Center for Viticultural Sciences, Florida A & M University, Tallahassee, FL 32307
 Lance, Connie J., 18905 SW 280th Street, Homestead, FL 33031
 Land, David, Collier Enterprises, P. O. Drawer AB, Immokalee, FL 33934
 Landrum, Linda B., 3100 East S.R. 44 Deland, FL 32724
 Langford, John S., John Langford, Inc., P. O. Box 67, Alturas, FL 33820
 Lara, Sosonate Pablo, 18550 S.W. 202nd Street, Miami, FL 33187
 Larson, Kirk D., U. of Fla., IFAS-TREC, 18905 S.W. 280th Street, Homestead, FL 33031
 LaSota, E. D. 9724 S.W. 126th Terrace, Miami, FL 33176
 Lawson, Joseph T., 3709 Brooklyn Lane, Lake Worth, FL 33461
 Lee, Ton da, 9331 N.W. 20th Street, Pembroke Pines, FL 33024
 Lea-Cox, John D., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
 Lee, B. W., 393 N. Ashwood Ave., Ventura, CA 93003
 Lee, Dani, St. Lucie Co. Coop. Extension Service, 8400 Picos Road, Suite 101, Fort Pierce, FL 34945
 Lee, Leland W., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
 Lee, Margaret J., 12425 S.W. 209th St., Miami, FL 33177
 Lee, Orie N., 5005 Lillian Lee Road, St. Cloud, FL 34771
 Lee, Richard F., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
 Lee, Ronald C., 3404 Plymouth Sorrento Road, Apopka, FL 32712
 Lehman, Greg, Ronelle Groves, 4612 E. Bloomingdale Avenue, Valrico, FL 33594
 Lehman, Ronald H., O-B-A Ronelle Groves, 4616 E. Bloomingdale Ave., Valrico, FL 33594
 Leong, Stephen, Florida A & M University, Center for Vit. Science, Tallahassee, FL 32307
 Lewis, Kenneth R., Rhone-Poulenc Ag. Company, 3755 CR 210, W., Lot D, Jacksonville, FL 32259
 Lilyquist, Floyd, 3812 Palazzo Street, Sebring, FL 33872-2221
 Lindsey, Ralph J., Florida-Atlantic Grove Service, Inc., P. O. Box 6280, Vero Beach, FL 32962
 Lindsey, Tom, Becker Groves, Inc., P. O. Box 1240, Fort Pierce, FL 34954
 Litton, Donna, Florida Cooperative Extension Service, 2663 Airport Road, S., D-103, Naples, FL 33962
 Litvany, William M., 515 Jennifer Lane, Windermere, FL 32786
 Lloyd, Calvin P. III, Cooperative Producers, Inc., P. O. Box 247, Felda, FL 33930
 Locascio, Sal J., U. of Fla., IFAS-Vegetable Crops, 1233 Fifield Hall, Gainesville, FL 32611
 Lockhart, Jerry Michael, Everglades Celery Corp., P. O. Box H, Loxahatchee, FL 33470
 Logan, P. A., The Procter & Gamble Company, Winton Hill Tech. Lib., 6090 Center Hill Road, Cincinnati, OH 45224
 Londono, Juan C., 3009 S.W. Archer Road, Apt. D-5 Gainesville, FL 32607
 Loukonen, Everett, Barron-Collier Co., 1320 North 15th Street, Immokalee, FL 33934
 Lounds, Ed, Stroller of Florida, 1491 S. Brocksmith Road, Fort Pierce, FL 34945
 Luther, Jerre, Gracewood, Inc., P. O. Box 567, Fort Pierce, FL 34954
 Luther, John M., Gracewood, Inc., P. O. Box 370, Vero Beach, FL 32961
 Lykes Agri Sales, Inc., P. O. Box 1758, Dade City, FL 33526
 Lynn, Holly P., 1304 Grayson Drive, Orlando, FL 32825
 Lyrene, Paul, U. of Fla., IFAS-Fruit Crops, 1137 Fifield Hall, Gainesville, FL 32611
 Mabry, Jean E., Pesticides of Florida, Inc., 1248 Sunset Ave., Lakeland, FL 33801
 MacCubbin, Thomas, 2350 E. Michigan St., Orlando, FL 32806
 Machata, A. Michael, Kissimmee Valley Farm Management, Inc., P. O. Box 209, Lake Wales, FL 33859
 Machek, Robert C., Apt. 107, 150 Cleveland Road, Pleasant Hill, CA 94523
 Maddox, S. Kay, 9999 Lake Lowery Road, Haines City, FL 33844
 *Magie, Robert O., Freedom Village W403 6501 - 17th Ave., Bradenton, FL 34209
 Mahdeem, Har, Zill High Performance Plants, 6803 South 107th Place, Boynton Beach, FL 33437
 Manley, Kent, Manley Farms, 5307-B Shirley St., Naples, FL 33942
 Manners, Malcolm, Florida Southern College, Citrus Institute, 111 Lake Hollingsworth Dr., Lakeland, FL 33801
 Manuel, William H., TreeSource, P. O. Box 727, Dundee, FL 33838
 Mark's Landscaping, Inc., 1055 Oklahoma Street, Oviedo, FL 32765
 Marler, Thomas E., 10955 Old Cutler Road, Miami, FL 33156
 Marotti, Gene, Ridge Citrus Corp., 35 South Lake Elbert Drive, S.E., Winter Haven, FL 33880
 Marotti, Lew, 4001 North Edgewater Circle, LaBelle, FL 33935-5424
 Marously, F. J., U. S. Dept. of Agric., ARS, U. of Fla., IFAS-Ornamental Hort., Gainesville, FL 32611
 Marshall, Richard S., 945 S. Beresford Road, DeLand, FL 32720-3514
 Martich, Julian, Consorcio Agriindustrial Delta, S.A., 6679 Trail Ridge Drive, Lakeland, FL 33813
 Martin, L. Conrad, Sunray Farms, 4101 SR 70 E, Lake Placid, FL 33852
 Martolf, J. David, 3541 N.W. 29th Place, Gainesville, FL 32605
 Masanow, Peter, Sandhill Citrus Nursery, 302 Elkcam Blvd., Pt. Charlotte, FL 33921
 Mathews, David W., P. O. Box 770128, Winter Garden, FL 34777
 Mathews, William H., Winter Garden Citrus Growers Assn., 1009 Buena Vista Court, Orlando, FL 32818
 *Mathias, A. F., 352 W. Graham Park, Haines City, FL 33844
 Matthews, Charles, Florida Fruit & Vegetable Assn., P. O. Box 140155, Orlando, FL 32814
 Matthews, Richard F., U. of Fla., IFAS, 325 Food Science Building, Gainesville, FL 32611
 Maurer, Michael, 1137 Fifield Hall, Gainesville, FL 32608-1329
 Maust, Brian, 389-4 Maguire Village, Gainesville, FL 32603
 Maxwell, Lewis S., Maxwell Publications, 6230 Travis Blvd., Tampa, FL 33610
 Maxwell, Val, Natural Beauty of Florida, P. O. Box 2043, Apopka, FL 32704
 Mayfield, Jim, P. O. Box 478, Lady Lake, FL 32159
 Maynard, Donald N., U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
 Mayo, Steven, Agrimar Corp., P. O. Box 2074, Fort Pierce, FL 34954
 McAdams, Hal B., Jr., 540 - 61st Ave., Vero Beach, FL 32962
 McAdams, Robert, Tilden Groves, P. O. Box 770128, Winter Garden FL 34777
 McClary, Ted, ICI Americas, Inc., 6625 The Corners Parkway, #250, Norcross, GA 30092
 McClure, J. Peter, Becker Groves, P. O. Box 2254, Fort Pierce, FL 34954
 McCollister, Jane, Atlantic Fertilizer & Chemical Company, 18375 S.W.. 260th Street, Homestead, FL 33031
 McCollough, Floyd, FMC Corp., 109 Julie Lane, Brandon, FL 33511
 McConnell, Dennis B., U. of Fla., IFAS-Ornamental Hort., 1541 Fifield Hall, Gainesville, FL 32611
 *McCormack, A. A., 1175 - 13th St., N.W., Winter Haven, FL 33881
 McCoy, Clayton W., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
 McCoy, Paul, American Minerals, Inc., P. O. Drawer 2005, Dunedin, FL 33528

- McCrory, Mabry, U. S. Sugar Corp., P. O. Drawer 1207, Clewiston, FL 33440
 McDonald, Roy, U. S. Department of Agriculture, 2120 Camden Road, Orlando, FL 32803
 McGovern, Bob, U. of Fla., IFAS-SWFREC, P. O. Drawer 5127, Immokalee, FL 33934
 McGuire, John F., U. S. Sugar Corp., P. O. Drawer 1207, Clewiston, FL 33440
 McIntosh, Robert M., Precision AG Products, Inc., 17460 S.W. 297th Terrace, Homestead, FL 33030
 McKown, Bobby, Florida Citrus Mutual, P. O. Box 89, Lakeland, FL 33802
 McLean, David P. B., Broward Community College, 325 Farmington Dr., Plantation, FL 33317
 McMillan, John, Coca-Cola Foods, P. O. Box 589, Sebring, FL 33870
 McMillan, Robert T., Jr., U. of Fla., IFAS-TREC, 18905 S.W. 280th St., Homestead, FL 33031
 McNay, Terence M., 2850 Sunstream Lane, Clearwater, FL 34619
 McRitchie, John J., Division of Plant Industry, P. O. Box 1269, Gainesville, FL 32602
 McSorley, Robert, U. of Fla., IFAS, Nematology Lab., Building 78, Gainesville, FL 32611
 McTeer, Harold B., duPont, 6 Edwards Shores, Haines City, FL 33844
 McVey, George R., O. M. Scott & Sons, 14111 Scottslawn Road, Marysville, OH 43041
 Meagher, Robert L., Jr., Texas Agricultural Experiment Station, 2415 East Highway 83, Weslaco, TX 78596
 Mecklenburg, Roy A., Walt Disney World, Inc., P. O. Box 10000, Lake Buena Vista, FL 32830
 Medley, Micheal A., 1010 N.E. 120th St., Miami, FL 33161
 Meerow, Alan, U. of Fla., IFAS-REC, 3205 S.W. College Ave., Fort Lauderdale, FL 33314
 Meier, Robert P., 4621 Longleaf Lane, Sarasota, FL 34241
 Meister, Charles W., U. of Fla., IFAS, Pesticide Research Lab., Gainesville, FL 32611-0531
 Melchert, Steven J., Agtrol Chemical Products, 7322 SW Freeway, Suite 1400, Houston, TX 77074
 Meline, Chris D., U. of Fla., IFAS-TREC, 18710 S.W. 288th Street, Homestead, FL 33031
 Melli, Claude, FLM, Inc., 4602 Dogwood Hills Court, Brandon, FL 33511
 Mellinger, H. Charles, Glades Crop Care, Inc., 949 Turner Quay, Jupiter, FL 33458
 Melton, Frank M., 2835 Concord St., Sarasota, FL 34231
 Meola, Cheryl Ann, Apt. 107, 12295 S.W. 151st Street, Miami, FL 33186
 Meredith, Filmore, U. S. Department of Agriculture, P. O. Box 5677, Athens, GA 30604
 Merritt, John, Turner Foods Corp., P. O. Box 1581, Lake Placid, FL 33852
 Merksin, Kathleen, 523 West Oak, Arcadia, FL 33821
 Metz, Robert W., Sunshine State K & D, Inc., P. O. Box 2363, Brandon, FL 33511
 Metzger, Howard E., 1248 South View Dr., Sarasota, FL 34242
 Metzger, Todd E., A. Duda & Sons, Inc., P. O. Box 1143, LaBelle, FL 33935
 Midcap, James T., Extension Horticulture Dept., University of Georgia, Athens, GA 30602
 Mihok, Patricia M., 5667 Monterey Drive, Orlando, FL 32811
 Millaway, Bob, Wilson & George Meyer Company, 270 Lawrence Ave., S. San Francisco, CA 94080
 Miller, Betty, A. Duda & Sons, Inc., P. O. Box 257, Oviedo, FL 32765
 Miller, John W., Division of Plant Industry, P. O. Box 1269, Gainesville, FL 32602
 *Miller, Leon W., 4635 Hall Road, Orlando, FL 32817
 Miller, Michael B., Monroe Co. Extension Service, P. O. Box 2545, Key West, FL 33045
 Miller, William M., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
 Miller, William R., U. S. Department of Agriculture, 2120 Camden Road, Orlando, FL 32803
 Miller-Lowenthal, Mary, The Bonsa. Bench, 25601 S.W. 137th Avenue, Princeton, FL 33032
 Minton, B. T., Agri-Business Corp. of Indian River, 8431 Hidden Pines Road, Fort Pierce, FL 34945
 Minton, O. R., Minton Sun, Inc., P. O. Box 670, Fort Pierce, FL 33454
 Minton, O. R., Jr., Triple M Investment Co., 1903 South 25th Street, Suite 201, Fort Pierce, FL 34947
 Mitcham, Beth, USDA/ARS, 2120 Camden Road, Orlando, FL 32803
 Mixon, Eugene A., 2908 - 26th Ave., E., Bradenton, FL 34208
 Mixon, R. Emory, 2908 - 26th Ave., E., Bradenton, FL 34208
 Mixon, Scott S., 2833 - 48th Way, E., Bradenton, FL 34203-3815
 Moherek, Emil A. AM-MO Consulting, Inc. 8134 Florida Boys Ranch Road, Groveland, FL 34736
 Montsdeoca, Fred Y., Dixie Lime Products Company, P. O. Box 2100, Ocala, FL 32671
 Moon, Scott O., P. O. Box 507, Lorida, FL 33857
 Moore, P. B., Horticultural Advisory Services, P. O. Box 953, Palm Beach, FL 33480
 Morgenstern, Jayne H., The Rare Fruit & Vegetable Council, 408 N.E. 23rd Ave., Pompano Beach, FL 33062
 Morrell, Laurence, Morrell Grove Management, 221 Flame Ave., Maitland, FL 32751
 Morris, R. Allen, Tropicana Products, Inc., P. O. Box 338, Bradenton, FL 33506
 Morrison, Harry, Division of Plant Industry, 540 Grand Highway, Clermont, FL 34711
 Morrison, John J., River House, 531 Indian Harbor Road, Vero Beach, FL 32963
 Morse, Paul, Citrican Corp., 114 -- 43rd Avenue, S.W., Vero Beach, FL 32962
 Mortensen, John A., 1603 W. Lancaster Ave., Leesburg, FL 34748
 *Morton, Julia F., University of Miami, P. O. Box 248204, Coral Gables, FL 33124
 Moyroud, Richard, Gemini Botanical Garden, 2000 S. Ocean Blvd., Manalapan, FL 33462
 Mueller, Tom, CMC Farms, P. O. Box 400, Immokalee, FL 33934
 Muir, Robert, Diamond R Fertilizer, P. O. Box 2412, LaBelle, FL 33935
 Muraro, James A., Turner Foods Corp., P. O. Box 2158, Arcadia, FL 33821
 Muraro, Louis J., 12443 Muraro Groves Road, Groveland, FL 34736
 Muraro, Ronald P., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
 *Murdock, Delane, 8500 Contoura Dr., Orlando, FL 32810
 Murphy, Joe, Agra Chem Sales Company, P. O. Box 1356, Avon Park, FL 33825
 Murphy, Travis, Jr., River Country Citrus, P. O. Box 336, Indiantown, FL 33456
 Murphy, Wilton E., 8005 Walker Lake Road, Bartow, FL 33830
 Murrell, Sam E., Jr., Murrell Groves & Orchards, P. O. Box 1748, Orlando, FL 32802
 Mustard, Margaret, 1204 Placetas Ave., Coral Gables, FL 33146
 Muzyk, Kenneth R., American Cyanamid Company, 408 Larrie Ellen Way, Brandon, FL 33511
 Myer, Frank H., 1833 N. Lake Reedy Blvd., Frostproof, FL 33843
 Myers, Donald F., Maag Agrochemical, P. O. Box X, Vero Beach, FL 32960-3023
 Myers, Joseph A., 1679 Quail Dr., West Palm Beach, FL 33409
 Nagata, Russell T., U. of Fla., IFAS-EREC, P. O. Box 8003, Belle Glade, FL 33430-8003
 Nagy, Steven, Florida Department of Citrus, 700 Experiment Station Road, Lake Alfred, FL 33850
 Nance, Libby, N.P.I., 417 Wakara Way, Salt Lake City, UT 84103
 Nanney, James C., P. O. Box 236, Terra Ceia, FL 34250
 Nanney, William E., 4201 S.W. 74th Avenue, Fort Lauderdale, FL 33314-3034
 Narki, Frank, Plant Science Associates, 4525 U.S. 27 North, Lake Wales, FL 33853
 Naugle Growers, P. O. Box 572, Plant City, FL 34289
 Neitzke, Jack, C. J. Neitzke, Inc., P. O. Box 99, LaBelle, FL 33935
 Nelson, O. F. & Sons Nursery, Inc. 2300 S. Sheeler Road, Apopka, FL 32703
 Nelson, Roy O., Sabrosa Groves, Inc., 23705 S.W. 157th Ave., Homestead, FL 33031
 Nemec, Stanley, U. S. Department of Agriculture, 2120 Camden Road, Orlando, FL 32803
 Newcomb, Albert, 738 Glendale Avenue, Ashland, OR 97520
 Newcomer, Drew T., BASF Corp., P. O. Box 1699, Perry, GA 31069-1699
 Newlin, Jerry, Orange-co of Florida, Inc., Route 1, Box 889, Arcadia, FL 33821
 Newton, Roger, 5339 S. CR 579, Seffner, FL 33584
 Nguyen, Ru, 6625 N.W. 57th Way, Gainesville, FL 32606
 Nicole, E. Dame, Fresh Mark Chemical Corp., P. O. Box 1245, Maitland, FL 32751
 Niederhofer, Meg, City of Gainesville, P. O. Box 490, Station 27, Gainesville, FL 32602
 Nikdel, Seifollah, Florida Department of Citrus, 700 Experiment Station Road, Lake Alfred, FL 33850
 Nisperos-Carriero, Myrna, U.S.D.A. Citrus & Subtropical Products Lab., P. O. Box 1909, Winter Haven, FL 33883
 Nitzani, Yoel, 2718 Cedarcrest Place, Valrico, FL 33594
 Nokomis Groves, 111 S. Albee Farms Road, Nokomis, FL 33555
 Norcini, Jeffrey G., U. of Fla., IFAS-AREC, Route 4, Box 4092, Monticello, FL 32344
 Nordby, Harold E., 804 Lake Jessie Drive, Winter Haven, FL 33881
 Norden, David, 1005 McDowell Street, Archer, FL 32618
 Nordmann, Thomas E., Ben J. Nordmann, Inc., P. O. Box 621, DeLand, FL 32720
 Norris, John C., P. O. Box 1276, Palm City, FL 33990-1276
 *Norris, Robert E., P. O. Box 2, Little Switzerland, C 28749
 O'Neal, Hubert R., Agtrol Chemical Products, 7322 S.W. Freeway, Suite 1400, Houston, TX 77074
 Obern, Charles, 5581 Frost Lane, Delray Beach, FL 33484-2501
 Obreza, Thomas A., U. of Fla., IFAS-SWFREC, P. O. Drawer 5127, Immokalee, FL 33934
 Ogden, Mary Ann H., Abbott Labs., 5806 Regency Court, Gurnee, IL 60031
 Ogilby, John, Lake Trafford Grove, P. O. Box 1304, Bradenton, FL 34206
 Oglesby Nursery, Inc., Route 2, Box 16, Altha, FL 32421
 Ohtlinger, Beth Wirt, Flying "O" Nursery, P. O. Box 147, Babson Park, FL 33827
 Olson, J. Roger, Coca-Cola Foods, P. O. Box 518, Fort Pierce, FL 34954
 Olson, Stephen M., U. of Fla., IFAS-NFREC, Route 3, Box 4370, Quincy, FL 32351
 Olszack, Reed, J. R. Brooks & Son, 19801 S.W. 318 St., Homestead, FL 33030
 Ondrovic, John M., 110 Hampden Road, S.E., Winter Haven, FL 33884
 Orman, Charles R., Sunkist Growers, Inc., P. O. Box 3720, Ontario, CA 91761
 Orsenigo, J. R., Sci-Agra, Inc., P. O. Box 98, South Bay, FL 33493
 Orth, Lisa M., 2593 Carambola Circle, North, Pompano Beach, FL 33066-2422
 Orth, Paul G., 25360 S.W. 182nd Avenue, Homestead, FL 33031
 Oswald, Cheryl, 12930 S.W. 189th Street, Miami, FL 33177
 Oswald, T. W., Florida Cooperative Extension Service, 1702 Highway 17, S., Bartow, FL 33830
 Oswalt, W. Chris, 948 Sable Lane, Rockledge, FL 32955
 *Overman, Amegda J., U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
 Ozaki, Henry, U. of Fla., IFAS-EREC, 498 E. Conference Dr., Boca Raton, FL 33486
 Pabor, Charles E., 521 Hillcrest Dr., S.E., Winter Haven, FL 33884
 Pacific Isle Nursery, Suite 1415, 745 Fort Street, Honolulu, HI 96813
 Painter, John E., Jr., 4965 Mars Street, Fort Myers, FL 33905
 Pandolph, Don, Pandolph Farms, P. O. Box 123, Osteen, FL 33764
 Parera, C. A., U. of Fla., IFAS, Vegetable Crop Department, Gainesville, FL 32611
 Parish, M. E., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850

- Parnell, John R., City of St. Petersburg, 1635 3rd Ave., North, St. Petersburg, FL 33731
- Parrado, Jorge L., U. of Fla., IFAS, 9960 Bahia Dr., Miami, FL 33189
- Parsons, Ken, P. O. Box 5710, Riverside, CA 92517
- Parsons, Larry, U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Parvin, P. E., P. O. Box 826, Kihei, Maui, HI 96753
- Paschke, Edwin, 26216 Mountain Lake Road, Brooksville, FL 34602
- Patrick, M. C., W. R. Grace & Company, P. O. Box 1426, Lake Alfred, FL 33850
- Paul, Bryan, P. O. Box 2274, LaBelle, FL 33935
- Paul, John R., Jr., P. O. Box 301, LaBelle, FL 33935
- Pauk, Ginger P., P. O. Box 844, Eagle Lake, FL 33839
- Paulson, John C., Mineral Research & Development Corp., One Woodlawn Green, Suite 250, Charlotte, NC 28217
- Payne, Chris, Rhone-Poulenc, 8018 S.W. 42nd Avenue, Gainesville, FL 32608-3647
- Peace River Packing Company, P. O. Box 816, Fort Meade, FL 33841
- Pearson, E. J., Jr., Diamond R Fertilizer Company, 36 Tera Lane, S.W. Winter Haven, FL 33880
- Peeples, Woody, U. S. Sugar Corp., P. O. Drawer 1207, Clewiston FL 33440
- Pehrson, John E., 22963 Carson Ave., Exeter, CA 93221
- Pena, Jorge E., U. of Fla., IFAS-TREC, 18905 S.W. 280th St., Homestead, FL 33031
- Perkins, L. E., 1496 Corona Lane, Vero Beach, FL 32963
- Permar, Thomas A., Demeter Corp., 632 Hermits Trail, Altamonte Springs, FL 32701
- Pfeiffer, Gaylon, BASF Corp., 14135 Stonegate Drive, Tampa, FL 33624
- Phelps, Cynthia A., 722 Springdale Road, Orlando, FL 32804-7129
- Phillips, James S., Certi-Fine Fruit Company, P. O. Box 129, Ocoee, FL 32761
- Phillips, Joel P., Jr., 450 Mallard Circle, Winter Park, FL 32789
- Phillips, Richard L., Treasure Coast Citrus, 1450 Bell Avenue, Fort Pierce, FL 34982
- Phillips, William J., 3901 S.W. Fifth Ave., Ocala, FL 32674
- Pike, Andrew B., Citrus Consultant, 105 - 15th Ave., Vero Beach, FL 32962-2723
- Pike, Richard S., Grower Pike Group 4290 Fifth Street, S.W., Vero Beach, FL 32968
- Pilles, Mark C., 19 Massachusetts Road, Lehigh Acres, FL 33936
- Pinner, Raymond, Growers Fertilizer Corp., P. O. Box 1407, Lake Alfred, FL 33850
- Pitts, Donald J., U. of Fla., IFAS-SWFREC, P. O. Drawer 5127, Immokalee, FL 33934
- Pixley, William C., P. O. Box 908, Zellwood, FL 32798
- Plants of Ruskin, Inc., P. O. Box 994, Ruskin, FL 33570
- Platts Groves, Inc., 719 Texas Court, Fort Pierce, FL 33450
- Poe, Leslie N., Florida Fresh Produce Exchange, P. O. Box 542, Belle Glade, FL 33430
- Pohner, Eva M., Route 3, Box 564, Newberry, FL 32669
- Polk Nursery Company, Inc., 890 Lake Myrtle Road, Auburndale, FL 33823-9317
- Pollard, Herb, Berry Citrus Products, Inc., P. O. Box 459, LaBelle, FL 33935
- Poole, Hugh A., CoHort Associates, P. O. Box 1090, Trenton, FL 32693
- Poole, Richard T., U. of Fla., IFAS-CFREC, 2807 Binion Road, Apopka, FL 32703
- Popenoe, John, Fairchild Tropical Garden, 10901 Old Cutler Road, Miami, FL 33156
- Poppell, Joe, Miller Chemical & Fertilizer Company, 406 E. Roseland Ave., Plant City, FL 33566
- Porpiglia, Peter J., Ciba-Geigy Corp., 7145 -- 58th Avenue Vero Beach, FL 32967
- Porter, James H., 28644 Highway 54, W., Zephyrhills, FL 34249
- Powell, Charles A., U. of Fla., IFAS-AREC, P. O. Box 248, Fort Pierce, FL 34954
- Powell, Mary D., Indian River County Library, 1028 - 20th Place, Vero Beach, FL 32960
- Prange, Edwin, 6355 First Street, S.W., Vero Beach, FL 32968
- *Pratt, J. B., 101 Fairway Drive, Haines City, FL 33844
- Pratt, Jared, 1906 - 8th Street, Haines City, FL 33844
- Prekschat, Robert A., Cuproquim Corp., 604 Amaryllis Drive, Barefoot Bay, FL 32976
- Pressley, Robert R., 1131 S. Lake Reedy Blvd., Frostproof, FL 33843
- Preston, Whiting H. II, Manatee Fruit Company, P. O. Box 128, Palmetto, FL 33561
- Prevatt, J. Walter, U. of Fla., IFAS-GCREC 5007 - 60th Street, E., Bradenton, FL 34203
- Prevatt, Robert W., 2705 Collins Ave., Lakeland, FL 33803
- Price, Barry, Jack Berry Groves, P. O. Box 5609, Winter Haven, FL 33880
- Price, David, Bok Tower Gardens, P. O. Drawer 3810, Lake Wales, FL 33853
- Price, Ed H., Jr., P. O. Box 9270, Bradenton, FL 33506
- Price, James F., U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
- Price, Karick, Jr., Inland Fruit Company, 2060 DeLeon Avenue, Vero Beach, FL 32960-4168
- Prokop, James, 26 Meadowcroft Lane, Greenwich, CT 06830
- Provost, Jeanette H., 4756 Cambridge St., West Palm Beach, FL 33463
- Pugh, James, H. M. Buckley & Sons, Inc., 7501 North Airport Road, Naples, FL 33942
- Pulling, John, Jr., The Fernery, 6500 Airport Road, W., Naples, FL 33942
- Purcifull, Dan E., U. of Fla., IFAS-Plant Pathology, Fifield Hall, Gainesville, FL 32611
- Purdy, L. H., 1519 N.W. 25th Terrace, Gainesville, FL 32605
- Purdy, Lloyd, A. Duda & Sons, Inc., P. O. Box 257, Oviedo, FL 32765
- Purvis, Dwight E., 7344 Jog Road, Lake Worth, FL 33467
- Race, Joe B., Southern Citrus Nurseries, Inc., P. O. Box 970, Dundee, FL 33838
- Radnia, P. Matthew, Brogdex Company, 1441 West Second Street, Pomona, CA 91766
- Raid, Richard N., U. of Fla., IFAS-EREC, P. O. Box 8003, Belle Glade, FL 33430
- Raju, Boligala C., Weyerhaeuser Tissue Culture Center, 4051 Fudge Road, Apopka, FL 32703
- Raley, Mrs. W. L., P. O. Box 1112, Winter Haven, FL 33882
- Raley, William L., Dundee Citrus Growers Association, P. O. Box 1739, Dundee, FL 33838
- Raley, William L., Jr., Raley Groves, P. O. Box 1112, Winter Haven, FL 33882
- Rauth, Robert G., 5723 Sims Road, Delray Beach, FL 33445
- Read, Paul E., Department of Horticulture, University of Nebraska, Lincoln, NB 68583
- Reddish, Gregory D., 4217 Ilene Court, Orlando, FL 32806
- *Reed, R. R., Tennessee Chemical Corp., 4201 Sylvan Ramble, Tampa, FL 33609
- Reese, Rand L., 3535 Southcrest Blvd., Lakeland, FL 33813
- Reese, Stanton L., Reese Groves, 3505 Bridgefield Drive Lakeland, FL 33803
- Rehberg, Bob, Estech Branded Fertilizers, Inc., P. O. Box 512, Winter Haven, FL 33882
- *Reitz, Herman J., P. O. Box 1293, Lake Alfred, FL 33850
- Remick, M. Dean A. Duda & Sons P. O. Box 208 Belle Glade, FL 33430
- Renick, Peter T., 3319 Jon Jon Drive, Orlando, FL 32822
- Reuther, Walter, Dept. of Botany and Plant Science, University of California, Riverside, CA 92502
- Reyes, Trinidad, U. of Fla., IFAS-Environmental Hort., 1545 Fifield Hall, Gainesville, FL 32611
- Rickard, David A., Great Lakes Chemical Corp., P. O. Box 2200, West Lafayette, IN 47906
- Risse, Lawrence A., USDA-ARS, c/o American Embassy, APO New York, NY 09159
- Ritter, Steven, 18710 S.W. 288th Street, Homestead, FL 33030
- Robbins, William, Robbins Landscape Service, Inc., P. O. Box 7568, Fort Lauderdale, FL 33338
- Roberts, Mark S., 10143 Ramblewood Drive, Coral Springs, FL 33071
- Roberts, Paul, 5121 Westminster Drive, Fort Myers FL 33919
- Robertson, James A., USDA/ARS P. O. Box 5677, Athens, GA 30613
- Robinson, M. Larue, Pinellas County Coop. Ext. Service, 12175 - 125th Street, North, Largo, FL 34644
- Robitaille, Henry A., The Land, EPCOT Center, P. O. Box 40, Lake Buena Vista, FL 32830
- Roby, David A., #1724, One Tampa City Center, Tampa, FL 33602
- Rocha-Pena, Mario A., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Rogers, Chris, Turner Foods Corp., P. O. Box 673, Arcadia, FL 33821
- Rogers, Frank, South Lake Apopka Citrus Growers Assn., P. O. Box 8, Oakland, FL 34760
- Rogers, J. Faye, 1845 - 46th Ave., Vero Beach, FL 32960
- Rojas, Christine E., 10151 S.W. 138th Street, Miami, FL 33176
- Rollins, W. H., Rollins Grove Service, 37935 Phelps Road, Zephyrhills, FL 33541
- Roman, Sam, Route 1, Box 421, Palmetto, FL 33561
- Rood, Roy S., Rood Landscape Company, Inc., P. O. Box 3768, Tequesta, FL 33469-0768
- Rose, Andrew J., Jr., 3600 S. Florida Ave., Inverness, FL 32650
- Rose, S. A., Florida Cooperative Extension Service, 3044 Knox McRae Dr., Titusville, FL 32780
- Rou, H. Jennings, Inc., P. O. Box 1130, Eustis, FL 32727
- Rountree, Hurley, Jr., 6566 First St., S.W., Vero Beach, FL 32962
- Rouse, Bob, U. of Fla., IFAS-SWFREC, P. O. Drawer 5127, Immokalee, FL 33934
- Rozar, L. L., Jr., P. O. Box 217, San Antonio, FL 33576
- Rubino, Frank, 2551 Trapp Avenue, Miami, FL 33133-3823
- Rucks, Phillip, Becker Groves, Inc., P. O. Box 1240, Fort Pierce, FL 34954
- Rudisill, Ken, 2234 East 15th Street, Panama City, FL 32405
- Ruehman, Bill, Fellsmere Management Company, P. O. Box 395, Fellsmere, FL 32948
- Rumler, Irwin, Growers Fertilizer Corp., P. O. Box 1407, Lake Alfred, FL 33850
- Ruppert, Kathleen C., U. of Fla., 2549 Fifield Hall, Gainesville, FL 32611
- Russ, Charles R., P. O. Box 852, Clermont, FL 32711
- Russakiss, Nick, Diamond R Fertilizer, 4100 Glade Road, Fort Pierce, FL 34981
- Russell, Ed, Route 1, Box 420, Arcadia, FL 33821
- Russell, Gillie C., Lake Placid Caretakers, P. O. Box 902, Lake Placid, FL 33852
- Russell, J. C., Soil Fumigants Company, P. O. Box 1447, Sanford, FL 32772
- Russo, Linda W., Coca-Cola Foods, 8997 Southview Road, Maitland, FL 32751
- Ruter, John M., Department of Horticulture, Coastal Plain Experiment Station, Tifton, GA 31793
- Ryland, William V., 2446 Granada Circle, E. S., St. Petersburg, FL 33712
- S.B.N. Grove Maintenance, P. O. Box 806, Immokalee, FL 33934
- Sakovich, Nick, 800 S. Victoria, Ventura, CA 93009
- Salyani, Masoud, U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Samilian, Mike, P. O. Box 307, Bushnell, FL 33513
- Sanchez, Pedro A., Imperial Products, Inc., 624 MacArthur Drive, Orlando, FL 32809
- Sanderson, Kenneth C., Dept. of Horticulture, Auburn University, Auburn, AL 36830
- Sanger, Richard A., 3716 Heather Lake Circle, Sarasota, FL 34235
- Santa Rosa Tropicals, P. O. Box 6183, Santa Rosa, CA 95406
- Sapp, Bill M., 1302 Ranchwood Dr., Clearwater, FL 34624
- Sapp, Vincent D., P. O. Box 720, Fort Myers, FL 33902
- Sargent, Steven A., U. of Fla., IFAS-Vegetable Crops, 1253 Fifield Hall, Gainesville, FL 32611
- Sauls, Julian, Texas A & M Extension Service, 2401 E. Highway 83, Weslaco, TX 78596
- Saunders, Fred, Lake Butler Groves, 1780 Ramie Road Clermont, FL 32711

- Sauvage, Terry L., Rhone-Poulenc, Inc., 725 Tradewind Dr., North Palm Beach, FL 33408
- Savoy, Clifton F., 519 Oakland Avenue, Tallahassee, FL 32301
- Schaffer, Bruce, U. of Fla., IFAS-TREC, 18905 S.W. 280th St., Homestead, FL 33031
- Schall, William L., U. of Fla., IFAS-AREC, 3245 College Avenue, Davie, FL 33314
- Schirard, Brant, Southeastern Ag Services, P. O. Box 2667, Fort Pierce, FL 34954
- Schirard, John H., P. O. Box 670, Sanford, FL 32771
- Schlottman, Jim, 6367 Nightwind Circle, Orlando, FL 32818
- Schmelzer, G. Richard, Verlite Company, P. O. Box 16457, Tampa, FL 33687-6457
- Schmidt, G. Michael, U. of Fla., IFAS, Rogers Hall, Gainesville, FL 32601
- Schueneman, Thomas J., 1263 Stoneway Lane, West Palm Beach, FL 33417
- Schluthis, Jonathan, Dept. of Hort. Science, N. C. State Univ., P. O. Box 7609, Raleigh, NC 27695
- Schumacher, C. R., Withers & Harshman, Inc., P. O. Box 1299, Sebring, FL 33871
- Schuster, David J., U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
- Scott, Jay W., U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
- Scotto, Dominic, D. L. Scotto & Co., Inc., 1110 North 2nd Street, Fort Pierce, FL 34950
- Scudder, Walter T., 4001 S. Sanford Ave., Sanford, FL 32773
- Seay, R. Erick, E. I. DuPont, 840 Second St., Clermont, FL 34711
- Seligman, Bret D., 2414 Palm Glade Drive, Belle Glade, FL 33430
- Semer, Charles R. IV, U. of Fla., IFAS-Plant Pathology, 1453 Fifield Hall, Gainesville, FL 32611
- Sexton, Randy, Jr., Sexton Grove Service, Inc., 4325 - 17th Street, S.W. Vero Beach, FL 32968-5912
- Shadow Oaks Nursery, 6700 Porter Road, Sarasota, FL 34240
- Sharp, Jennifer, USDA-ARS, 13601 Old Cutler Road, Miami, FL 33158
- *Sharpe, Ralph H., U. of Fla., IFAS-Fruit Crops, 1183 McCarty Hall, Gainesville, FL 32611
- Shaw, Jonathan, Bok Tower Gardens, P. O. Box 3810, Lake Wales, FL 33859-3810
- Shaw, Joseph C., Shaw Nursery & Landscape Company, 8510 S. Red Road, South Miami, FL 33143
- Shaw, Lawrence N., U. of Fla., IFAS-Agric. Eng., 1 Frazer Rogers Hall, Gainesville, FL 32611
- Shay, H. M., 3322 Lee Street, Hollywood, FL 33021
- Sheehan, Thomas J., U. of Fla., IFAS-Hort. Dept., 3823 SW 3rd Ave., Gainesville, FL 32607
- Shelby, Mark E., 2402 N.W. 57th Place, Gainesville, FL 32606-1964
- Shemberger, Rick, 1307 Third Ave., S.W., Okeechobee, FL 33472
- Sherer, Stephen H., P. O. Box 1120, Vero Beach, FL 32961
- Sherman, Mark, The Pillsbury Co., R. & D., 311 Second St., S.E., Minneapolis, MN 55414
- Sherman, Wayne B., U. of Fla., IFAS-Fruit Crops, 1217 Fifield Hall, Gainesville, FL 32611
- Shine, James M., Jr., Florida Sugarcane League, Star Route, Box 8, Canal Point, FL 33438
- Shinn, Charles M. III, Citrus Shops, Inc., 665 S.W. 32nd Avenue, Vero Beach, FL 32968
- Shook, Matt, Chain of Lakes Groves, Inc., P. O. Box 1399, Winter Haven, FL 33882
- Shovein, John, 2420-H North Main Street, Salinas, CA 93906
- Showalter, Lowell E., 7460 N.W. 7th St., Plantation, FL 33317
- *Showalter, R. K., U. of Fla., IFAS-Vegetable Crops, 1213 Fifield Hall, Gainesville, FL 32611
- Shrefler, James, U. of Fla., IFAS-Dept. of Agronomy, 304 Newell Hall, Gainesville, FL 32611
- Shu, Huang, U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Shuler, Kenneth D., Florida Cooperative Extension Service, 12657 - 158th Court, N., Jupiter, FL 33478
- Shulock, Michael, 2966 - 59th Ave., Vero Beach, FL 32966
- Shultz, D. Scott, Walt Disney World Nursery, P. O. Box 10000, Lake Buena Vista, FL 32830-1000
- Siles, Jacqueline, 4117 S.W. 20th Avenue, Apt. 222, Gainesville, FL 32607
- Simmons, Gary, Coca-Cola Company Foods Division, 517 Hibiscus Ave., Stuart, FL 34996
- Simmons, Wayne, Cooperative Producers, Inc., P. O. Box 247, Felda, FL 33930
- Simone, Gary W., U. of Fla., IFAS-Plant Pathology, 1453 Fifield Hall, Gainesville, FL 32611
- Simons, John N., JMS Flower Farms, Inc., 1105 - 25th Ave., Vero Beach, FL 32960
- Simpson, H. James, Jr., 445 Limit St., Mount Dora, FL 32757
- Simpson, Jimmy, The Packers of Indian River, 1166 36th Ave., Vero Beach, FL 32960
- Sims, Charles, U. of Fla., Food Science & Human Nutrition Dept., Gainesville, FL 32611
- Singh, Megh, U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Skimina, Conrad A., Monrovia Nursery Company, P. O. Box Q, Azusa, CA 91702
- Skinner, James R., Midway Fruit Company, P. O. Box 500, Tallevast, FL 34270
- Skiscim, Michael J., 1423 - 20th St., Vero Beach, FL 32960
- Smajstrla, Allen G., U. of Fla., IFAS-Agric. Eng., 115 Rogers Hall, Gainesville, FL 32611
- Small, R. Keith, 816 Minnesota St., Lantana, FL 33462
- Smathers, Frank, Jr., Four Fillies Farm, 11511 S.W. 57 Ave., Miami, FL 33156
- Smith, Albin W., 789 Inlet Drive, Marco Island, FL 33937
- Smith, Brent, 3355 Gordon Drive, Naples, FL 33940
- Smith, Cecil N., 1633 N.W. 14th Ave., Gainesville, FL 32605
- Smith, Frank A., 930 Fulton Lane, N.E., Palm Bay, FL 32905
- Smith, Gordon, Citrus & Vegetable Magazine, 1505 Haven Bend, Tampa, FL 33613
- Smith, Herb, United Agri Products, P. O. Box 1198, Fort Valley, GA 31030
- Smith, J. Powell, P. O. Box 1005, Conway, SC 29526
- Smith, James R. E., 101 Danforth Dr., Charlotte Harbor, FL 33980
- Smith, Janell, 13565 Eagle Ridge Drive, #1122 Fort Myers, FL 33912-1865
- Smith, Joseph, FMC, Route 1, Box 238, Wauchula, FL 33873
- Smith, Larry, PACS, 1010 Ayshire Ave., Orlando, FL 32803
- Smith, Newell A., Wardlaw Pioneer Groves, Inc., P. O. Box 986, Frostproof, FL 33843
- Smith, Paul F., 2695 Ashville St., Orlando, FL 32818
- Smithers-Oasis, Marketing Dept., P. O. Box 118, Kent, OH 44240
- Smoak Groves, Inc., 1025 S.R. 17, N., Lake Placid, FL 33852
- Smoak, Claude E., Jr., P. O. Box 676, Minneola, FL 34755
- *Smoot, John J., 1308 Lindenwood Lane, Winter Park, FL 32792
- Snell, Ralph R., P. O. Box 103, Homeland, FL 33847
- Snively, Harvey B., Jr., P. O. Box 968, Dundee, FL 33838
- Snively, James A., Turner Foods Corp., P. O. Box 1581, Lake Placid, FL 33852
- Snyder, George H., U. of Fla., IFAS-EREC, P. O. Box 8003, Belle Glade, FL 33430-8003
- Snyder, Harry, 3151 S. Kanner Highway, Stuart, FL 34994
- Soil and Plant Laboratory, Inc., P. O. Box 6566, Orange, CA 92613
- Sommerfeld, Mark L., A. Duda & Sons, Inc., P. O. Box 208, Belle Glade, FL 33430
- Sonoda, Ron U. of Fla., IFAS-AREC, P. O. Box 248, Fort Pierce, FL 34954
- Soowal, J. M., East Marsh Nursery, Inc., 7100 Hillsboro Canal Road, Pompano Beach, FL 33067
- Soule, James, U. of Fla., IFAS-Fruit Crops, 2141 Fifield Hall, Gainesville, FL 32611
- Southwell, Jerald S., Route 2, Box 420, Wauchula, FL 33873
- *Spalding, Donald H., Sugarmill Woods, 43 Chinaberry Circle, Homosassa, FL 32646
- Speese, Orrinna, 5701 Stratford Lane, Lakeland, FL 33813
- *Spencer, E. L., P. O. Box 444, Brookfield, VT 05036
- Spiers, James M., U. S. Department of Agriculture, P. O. Box 287, Poplarville, MS 39470
- Spillers, Bill, Plants by Tropico, 21200 S.W. 177th Ave., Miami, FL 33187
- Sprunt, Susan V., 228 Apache Street, Tavernier, FL 33070-2103
- Spyke, Pete, 13300 Okeechobee Road, Fort Pierce, FL 34945
- Stall, R. E., U. of Fla., IFAS-Plant Pathology, 1453 Fifield Hall, Gainesville, FL 32611
- Stall, William M., U. of Fla., IFAS-Vegetable Crops, 1243 Fifield Hall, Gainesville, FL 32611
- Stamps, Robert H., U. of Fla., IFAS-CFREC, 2807 Binion Road, Apopka, FL 32703
- Stansly, Phil A., U. of Fla., IFAS-SWFREC, P. O. Drawer 5127, Immokalee, FL 33934
- Starling, Howard, 904 New Market Road, Immokalee, FL 33934
- Staton, Tom, Quality Turfgrass, 41-937 Waikupanaha Street, Waimanalo, HA 96795
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- Stenstream, Barbara D., Barbara Dickerson Interiors & Antiques, 898 Azalea Street, Boca Raton, FL 33486
- Stephens, Clyde S., Tela Railroad Co., B.T.S.R., P. O. Box 1776, Gulfport, MS 39501
- Stephens, G. Martin, 41243 Silver Drive, Umatilla, FL 32784
- Stephens, James M., U. of Fla., IFAS-Vegetable Crops, 1255 Fifield Hall, Gainesville, FL 32611
- Stevens, Robert H., 15401 S.W. 84th Court, Miami, FL 33157
- Steward, Lynn M., Route 2, Box 786, Arcadia, FL 33821
- Stewart, Charles I., 1851 Peninsular Dr., Haines City, FL 33844
- Stewart, Ivan, 1851 Peninsular Dr., Haines City, FL 33844
- Stickl, Joseph A., Sandoz Crop Protection, 62 Wingo St., Tequesta, FL 33458
- Stiles, Herbert D., Southern Piedmont Center, P.O. Box 448, Blackstone, VA 23824
- Stinson, Joy M., 1600 N.W. Fourth Avenue, #Gainesville, FL 32603
- Stoffella, Peter J., U. of Fla., IFAS-AREC, P. O. Box 248 Fort Pierce, FL 34954
- Stoll, Richard, Sun-Ag, Inc., 1636 51st Court, Vero Beach, FL 32966
- Stone, William J., Asgrow-Florida, 4144 Highway 39 N, Plant City, FL 33565
- Storch, David, #121 S.W. 105th Avenue, Miami, FL 33174
- Strang, Fred Foy, 1329 North Lake Otis Drive, S.E., Winter Haven, FL 33880
- Strazzulla, Frank, Strazzulla Brothers Company, P. O. Box 3152, Fort Pierce, FL 34948
- Strazzulla, Joseph P., Strazzulla Brothers Company, P. O. Box 3152, Fort Pierce, FL 34948
- Strickland, Richard, Orange-co of Florida, Inc., Route 1, Box 889, Arcadia, FL 33821
- Stricklen, Albert L., 13900 Yale Hammock Road, Umatilla, FL 32784
- Stritter, J. M., 6295 S.W. 92nd Street, Miami, FL 33156
- Stromnes, Russell, Orange-co of Florida, Inc., Route 1, Box 889, Arcadia, FL 33821
- Strong, Michael, Kahili Farms, P. O. Box 30, Kilauea, HI 96754
- Sturrock, Thomas T., 1010 Camellia Road, West Palm Beach, FL 33405
- Subramanya, Subu, 980 S.E. Fourth St., Belle Glade, FL 33430
- Sullivan, R. Keith, Coca-Cola Company Foods Division, P. O. Box 336, Frostproof, FL 33843
- Sullivan, Victor H., 1216 S. Scenic Highway, Frostproof, FL 33843
- Sultenfuss, Paul, Sultenfuss Properties, 27 Davis Blvd., Suite B, Tampa, FL 33606
- Summerfield Nursery, P. O. Box 601, Weirsdale, FL 32195
- Sutton, Brent W., Lykes Agri Sales, P. O. Box 726, Fort Pierce, FL 34954

- Svenson, Sven, U. of Fla., IFAS-REC 3205 College Avenue, Fort Lauderdale, FL 33314
- Swanson, Stewart, South Bay Growers, P. O. Drawer A, South Bay, FL 33440
- Sweet, Claude, 7488 Comet View Court, San Diego, CA 92120
- Syvertsen, J. P., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Talbot, Michael T., U. of Fla., IFAS-Agr. Eng., 113 Rogers Hall, Gainesville, FL 32611
- *Talbott, George M., Florida Celery Exchange, P. O. Box 140067, Orlando, FL 32814
- Tate, Gregory L., Suite 300-B, 174 E. Bay St., Charleston, SC 29401
- Taylor, John B., Ciba-Geigy, 1400 Intl. Sadwy Blvd., DeLand, FL 32724
- Taylor, John Forrest, 1305 East Fifth Street, Lehigh Acres, FL 33936
- Taylor, Mike, Coca-Cola Company Foods Division, P. O. Box 247, Auburndale, FL 33823
- Taylor, Ruth Berry, The Berry Ranch, 7025 S. Tamiami Trail, Venice, FL 34293
- Teets, Thomas M., 32 Akron Road, Lake Worth, FL 33467
- Tepper, Brian L., Rhone Poulen Ag. Co. P. O. Box 12014 R.T.P. NC 27709
- Terry, Robert R., U.S.D.A.--Ag. Stat. Service, 1222 Woodward St., Orlando, FL 32803
- Tharrington, Starkey L., Apt. 17, 925 Apollo Beach Boulevard, Apollo Beach, FL 33572
- Thayer, Tom, Maxijet, P. O. Box 1849, Dundee, FL 33838
- The Ranch Nursery, P. O. Box 5204, Hudson, FL 34674
- Thomas, Berl, Plant Gro, 2701 Manatee Avenue, W., Bradenton, FL 34205
- Thompson, Bill, P. O. Box 3267, Stuart, FL 34995
- Thompson, James E., Jr., Thompson Fruit Company, 1050 Snively Avenue, Winter Haven, FL 33880
- Thompson, John H., Southwest Florida Water Management District, 2379 Broad Street, Brooksville, FL 34609-6899
- Thompson, Ken, Orange Enterprises, 206 E. Orange St., Wauchula, FL 33873-2935
- Thompson, Mike, Orange Enterprises, 206 E. Orange St., Wauchula, FL 33873-2935
- *Thompson, Ralph P., Apt. 701, 700 Mirror Terrace, Winter Haven, FL 33881
- Thorndike, Raymond S., 1991 - 42nd Street, North, St. Petersburg, FL 33713
- Timmer, L. W., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Timmerman, Andrew, 12100 U. S. 98, Sebring, FL 33870
- Timmons, Lamar, Willits & Newcomb, Inc., P. O. Box 428, Arvin, CA 93203
- Tiner, Larry, P. O. Box 430, Immokalee, FL 33934
- Tison, Robert L., Agricultural Management Services, 601 Crawford St., Arcadia, FL 33821
- Todd, Norman, Latt Maxcy Corp., P. O. Box 547, Frostproof, FL 33843
- Tomasello, Rudolph P., P. O. Box 6697, West Palm Beach, FL 33405
- Tomlin, John B., III, 225 Fernery Road, Lakeland, FL 33809
- Toole, Jack D., Florida Department of Agriculture, 2809 Ave. U, N.W., Winter Haven, FL 33881
- Topp, Bruce L., U. of Fla., IFAS-Fruit Crops, 1137 Fifield Hall, Gainesville, FL 32611
- Torbert, James A., Agrimar Corp., 4190 Pleasantdale Road, Atlanta, GA 30340
- Townsend, Charles E., Jr., Turner Foods Corp., 2100 Ft. Denaud Road, Alva, FL 33920
- Townsend, K. G., 1001 Fourth St., Vero Beach, FL 32962
- Tress, Mitchell, 6400 S.W. 106th St., Miami, FL 33156
- Tropical Juice Services, Inc., Suite 13, 6700 South Florida Avenue, Lakeland, FL 33813
- Truscott, Duane, The Backyard Gardner, P. O. Box 4046, Key West, FL 33041-4046
- Tucker, David P. H., Florida Cooperative Extension Service, 700 Experiment Station Road, Lake Alfred, FL 33850
- Tucker, Edward F., IT Supply, Inc., P. O. Box 4201, Homestead, FL 33092
- Tucker, Janet B., U. of Fla., 1350 Turlington Hall, Gainesville, FL 32611
- Turkey Creek Farms, Inc., P. O. Box 27224, Houston, TX 77227
- Turner, Jim, Micro-Flo Company, P. O. Box 5948, Lakeland, FL 33807
- Turner, Rick, Hi Hat Citrus, 11708 Fruitville Road, Sarasota, FL 34240
- Ueoka, Noriyuki, Nori's Nursery, 431 Kalua Road, Wailuku, Maui, HI 96793
- Ugi, Joseph J., Town of Palm Beach, P. O. Box 2029, Palm Beach, FL 33480
- United American Citrus, Ltd., #104, 3015 North Ocean Boulevard, Fort Lauderdale, FL 33308
- Updike, Ray, Abbott Labs., 1533 Tredegar Dr., Fort Myers, FL 33919
- Van Den Berghe, D. L., Agriminar Corp., 3095-E Presidential Dr., Atlanta, GA 30340
- Van Sickle, John J., U. of Fla., IFAS, 1191 McCarty Hall, Gainesville, FL 32611
- Vanderlaan, Pieter W., Mineral Research & Development Corp., 8325 S.W. 155th Terrace, Miami, FL 33157
- Vandervort, Nick W. III, 3800 S.W. 34th Street, #B-9, Gainesville, FL 32608
- Vathakos, Michael, Rhone-Poulenc Ag Products, 1451 Medoc Lane, Fort Myers, FL 33919
- Vavrina, Charles S., U. of Fla., IFAS-SWFREC, P. O. Drawer 5127, Immokalee, FL 33934
- Veasey, Walter, 1156 N.W. 110th St., Okeechobee, FL 34972
- Veech, Alex B., Jr., Ford Avalon Grove, P. O. Box 457, DeLand, FL 32721
- Veldhuis, John F., 32136 Elizabeth Avenue, Tavares, FL 32778
- Velaz-Colon, Ruben, HC 02 Box 7115, Juana Diaz, PR 00665-9601
- Ven-Mar Irrigation, 3905 Ninth St., S.W., Vero Beach, FL 32968
- Verkade, Stephen D., U. of Fla., IFAS-AREC, 3205 S.W. College Ave., Fort Lauderdale FL 33314
- Vincent, Robert M., B-V Associates, Inc., 48845 West Road, Wixom, MI 48393
- Volin, Ray, Rogers NK Seed Company, 10290 Greenway Road, Naples, FL 33961
- Von Hahmann, Kenneth M., The Coca-Cola Company Foods Division, P. O. Box 247, Auburndale, FL 33823
- VonWindeguth, Donald L., U. S. Department of Agriculture, 13601 Cutler Road, Miami, FL 33158
- W & W Groves Co., Inc., c/o Harold Webman 6625 Santona, Coral Gables, FL 33146
- Waddill, Van, U. of Fla., IFAS-EREC, P. O. Box 8003, Belle Glade, FL 33430
- Wagner, Chris, Dole Citrus, P. O. Box 9269, Ontario, CA 91762
- Walker, Donald, 1311 S. Osceola Ave., Orlando, FL 32806
- Walker, George, RR 1, Box 6-E, Immokalee, FL 33934-9801
- Wallace, Susan R., Bok Tower Gardens, P. O. Box 3810, Lake Wales, FL 33859
- Wallis, Ed, Orange-co of Florida, Inc., Route 1, Box 889, Arcadia, FL 33821
- Wan, Shu-Hui, 14023 S.W. 282nd Street, Homestead, FL 33033
- Wang, Yin-Tung, Texas Agricultural Experiment Station, 2414 E. Highway 83, Weslaco, TX 78596
- Ward, R. L., Tennessee Chemical Company, 3400 Peachtree Road, N.E., Suite 401, Atlanta, GA 30326
- Wardowski, W., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Warren, Norman O., Warren Estate, Inc., 330 W. Lake Otis, Winter Haven, FL 33880
- Waters, Roger D., Automatic Machinery Corp., P. O. Box 713, Winter Haven, FL 33882
- Waters, Will E., U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
- Watkins, Buz, Watkins Motor Lines, Inc., P. O. Box 95002, Lakeland, FL 33804
- Watkins, Marshall O., 3501 W. Knights-Griffin Road, Plant City, FL 33566
- Wear, Ledley H., 639 Lake Hollingsworth Dr., Lakeland, FL 33803
- Webb, Charles, Division of Plant Industry, P. O. Box 725, Macclenny, FL 32063
- Webb, Susan E., U. of Fla., IFAS-CFREC, 5336 University Avenue, Leesburg, FL 34748
- Weber, Alan M., 10341 S.W. 114th Terrace, Miami, FL 33176
- Weber, Ken, S.W.F.W.M.D., 2379 Broad Street, Brooksville, FL 34609-6899
- Wedderspoon, Ian M., duPont, 11704 S.W. 102nd Court, Miami, FL 33176
- Wedge, David E., 1044 Macy St., West Palm Beach, FL 33405
- Wedgworth Farms, Inc., P. O. Box 2076, Belle Glade, FL 33430
- *Wedgworth, Ruth S., P. O. Box 2076 Belle Glade, FL 33430
- Weems, Howard V., Jr., Florida State Collection of Arthropods, 11208 N.W. 12th Place, Gainesville, FL 32606
- Weingartner, David Peter, U. of Fla., IFAS-ARC, P. O. Box 728, Hastings, FL 32045
- Weitermann, Gary, 145 Morning Glory Drive, Lake Mary, FL 32746
- Wells, Earl, Florida Nurseries & Growers Assn., Inc., 5401 Kirkman Road, Suite 650, Orlando, FL 32819
- Wesson, Doc S., Jr., 1002 S. Success Ave., Lakeland, FL 33803
- West, William H., Indian River Community College, 14920 Orange Ave., Fort Pierce, FL 34945
- Whatmore, David, P. O. Box 541, Kilauea Kauai, HI 96754
- Wheaton, T. Adair, U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Wheeler, Curt, Wheeler and Wheeler, Inc., P. O. Box 2416, Lakeland, FL 33803
- Whitcomb, Carl E., Lacebank, Inc., Route 5, Box 174, Stillwater, OK 74074
- White, A. C., 817 W. Fairbanks Ave., Orlando, FL 32804
- White, Celeste T., Seminole Co. Agric. Center, 250 West County Home Road, Sanford, FL 32773
- White, David E., 895 E. Lillian St., Bartow, FL 33830-5716
- White, Donald R., Jr., Florida Department of Citrus, 700 Experiment Station Road, Lake Alfred, FL 33850
- White, James M., U. of Fla., IFAS-AREC, 2700 E. Celery Ave., Sanford, FL 33771
- White, Mark E., Collier Enterprises, P. O. Drawer 137, Immokalee, FL 33934
- White, Ralph W., Turfgrass Management Consultants, Inc., 11227 Dead River Road, Tavares, FL 32778
- White, William A., FMC Corp., 606 Downs Avenue, Temple Terrace, FL 33617
- Whiteside, Jack O., 410 North Echo Drive, Lake Alfred, FL 33850
- Whitman, William F., Rare Fruit Council, 189 Bal Bay Dr., Bal Harbour, FL 33154
- Whitney, Jodie D., U. of Fla., IFAS-CREC, 700 Experiment Station Road, Lake Alfred, FL 33850
- Whitton, Gil, 1300 Casa Vista Dr., Palm Harbor, FL 34683
- Whitty, Robert B., Florida Cooperative Extension Service, 2614 S.E. Dixie Highway, Stuart, FL 34996
- Wiitala, David C., 8401 South Elizabeth, Palm Beach Gardens, FL 33418
- Wilcox, Merrill, U. of Fla., Agronomy Dept., Herbicide Metabolism Lab., Gainesville, FL 32611
- Wilfret, Gary J., U. of Fla., IFAS-GCREC, 5007 - 60th St., E., Bradenton, FL 34203
- Will, Albert, Jr., Broward Community College, 1661 S.W. 27th Ave., Fort Lauderdale, FL 33312
- Williamson, Jeff, U. of Fla., IFAS, 2113 Fifield Hall, Gainesville, FL 32611
- Williard, R. P., Citrus World, Inc., P. O. Box 1111, Lake Wales, FL 33853
- Willis, Leah, 11935 Old Cutler Road, Miami, FL 33156-4242
- Wilson, James C., Chilean Nitrate Corp., 109 East Main Street, Suite 601, Norfolk, VA 23510
- Wilson, Jay M., ABC Citrus Caretaking Service, Inc., 4964 South Orange Ave., Orlando, FL 32806
- Wilson, W. C., 1616 Villa Court, Marco Island, FL 33937
- *Wiltbank, W. J., U. of Fla., IFAS-Fruit Crops, 1137 Fifield Hall, Gainesville, FL 32611
- Winfree, Robert, 103 Pasco Road, S.E., Winter Haven, FL 33880
- Wingate, R. A., P. O. Box 1019, Zolfo Springs, FL 33890
- Winkler, Kurt, R.G.B. Labs, Inc., 1531 Charlotte, Kansas City, MO 64108

OUT-OF-COUNTRY

Han, Hae-Ryong, Cheju National Univ., Dept. of Hort., Faculty of Agric. San 1, ARA-Dong, Cheju City, Cheju Province, Korea
 Heap, Robert D., Shipowners Refrigerated Cargo Research Assn., 140 New Market Road, Cambridge, United Kingdom CB5 8HE
 Hibberd, A. M., Department of Primary Industries, P. O.Box 327, Cleveland, Queensland, Australia 4163
 Horticultural Research Centre, USSO 2235, Private Bag, Levin, New Zealand
 Indian Agricultural Research Institute, Head Library Services, (Pusa) Library, New Delhi 110012, India
 Indian Institute of Horticultural Research, Lake B.P.O., Hessaraghatta, Bangalore North 560 039, Karnataka State, India
 Institut Phytopathologique Benaki, Kiphissia, Athens, Greece
 Instituto de Agroquimica y Tecnologia de Alimentos, Jaime Roig 11, Valencia 10, Spain
 Instituto de Investigaciones Agropecuarias, Casilla 439, Correo 3, Santiago, Chile
 Ist. Orticoltura Floricoltura Universita', Via Valdisavoia 5, 95123 Catania, Italy
 Ist. Sperimentale Floricoltura, C.50 Degli Inglesi 508, 18038 Sanremo, IM, Italy
 Iwahori, Shuichi, Kagoshima University, Dept. of Hort., Faculty of Agriculture, 21-24 Korimoto 1, Kagoshima 890 Japan
 Jack, Michael J. c/o C.D.C., Apdo.721, San Jose, Costa Rica, C. A.03/21
 Jackson, S. P., 108 Berima Street, Wynnum, Queensland, Australia 4178
 Kagawa University, Nogakubo Toshokangun, 305 Mikicho, Kidagun, Kagawaken, Japan 761-07
 Kagoshima Daigaku, Chuo-Toshokan, Koorimoto 1-Chome, Kagoshima 890, Japan (Kin)
 Kang, Tae-Hong, Cheju Experiment Station, Rural Development Adm. 1696, O-Deung Dong Cheju City, Cheju Province Korea
 Karger Libri Ag, Karger Libri Ag., P. O. Box CH-4009 Basel, Switzerland
 Kawada, Kazuhide, Kagawa University, Miki, Kita, Kagawa 761-07, Japan
 Kim, Han Yong, Cheju Experiment Station, Rural Development Adm., 1696 O-Deung Dong, Cheju City, Cheju Province, Korea
 Kim, Seung-Hwa, Cheju Experiment Station, Rural Development Adm., 1696, O-Deung Dong, Cheju City, Cheju Province, Korea
 Ko, W. W., MARDI 39007 Tanah Rata, Cameron Highlands, Pahang Darulmakmur, Malaysia
 Kowarick, Douglas E., PCA Morungaba 112, Sao Paulo, Brazil 01450
 Kwon, Hyok-Mo, Cheju Experiment Station, Rural Development Adm., 1696, O-Deung Dong, Cheju City, Cheju Province, Korea
 Laffite, Rene, Frudas Tropicales, S.A., P. O. Box 83, LaCeiba, Honduras, C.A.
 Lakshminarayana, S., UAM, Iztapalapa, Apdo. Postal 55-535, Mexico DF 09340, Mexico
 Leal, Freddy, Apartado 4736, Maracay-Aragua 2101 A, Venezuela, S.A.
 Lee, Kuo-Chuan, National Chung Hsing Univ., Dept. of Hort. 250, Kuokuang Road, Taichung, Taiwan, Republic of China
 Lin, Shue-Cheng, 8 Kwanghua Road Chung-Hsin Village Nan Tou, Taiwan, R. O. China 54054
 Loret de Mola Diaz, Francisco, 60a #459 Alcala Martin, Merida, Yuc., Mexico
 Loria, Willy, B. Cordoba Casa No. 3307, El Zapote, San Jose, Costa Rica
 Lture Kochi University, Library, Faculty of Agriculture, Monobe Nankoku-Shi, Kochi-Ken, 783 Japan (Kin)
 Manuel, Edward A., Department of Agriculture, Fisheries & Parks, P. O. Box HM 834, Hamilton HM 834, Bermuda
 Milan, Abd Rahman, MARDI, Fruits Div., P. O. Box 525, Kluang, Johore, Malaysia 86009
 Moon, Doo-Khil, Cheju National Univ., Dept. of Hort., Faculty of Agric., San 1, Ara-Dong, Cheju City, Cheju Province, Korea
 Moon, Duck-Young, Cheju Experiment Station, Rural Development Adm. 1696, O-Deung Dong, Cheju City, Ceju Province, Korea
 Mountaga, Radwan, P. O. Box 259, Gaza, Israel
 Nian, Zeng Xin, Horticultural Research Institute, Jiangxi Academy of Agricultural Sciences, Nanchang, Jiangxi Prov. PR of China 330200
 Nikolas Warmerdam, Nikolas Warmerdam & Associates, P. O. Box 431, Alstonville, 2477 Australia
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 Oram, Mrs. A., P. O. Box 126, Rockhampton 4700, Queensland, Australia
 Orihue, Benito, Germanias 22, 46700 Gandia, (Valencia) Spain
 Panhwar, M. H., Research & Developmeni Engineers, 54 - D, Block 9, Clifton, Karachi, Pakistan
 Parada Flora Feliz S.A., E. Alfonso Apartado 60, Cartago, Costa Rica
 Pascual Hermanos, S.A., Attn: Carlos Fernandez G. Cronista Carreres, 11, 46003 Valencia, Spain
 Piaggio, Fausto, Fundo Santa Rosalia, Sucre 511, San Isidro, Lima, Peru
 Pressler, Craig R., 2 PH Farms, 2 Glover Street, Kepnock, Bundaberg, Queensland, Australia 4670
 Puiggros, Javier P., Av. Salaverry 2387, San Isidro, Lima 27, Peru
 Rampinini, Giorgio Via Dante, 56, 20023 Cerro Maggiore, (MI), Italy
 Roesch, George D., American Mail & Message, P. O. Box 598, , Puerto Plata, Dominican Republic
 Rushing, James W., Depto. C-503, Las Condes, 600 Manquehue Norte, Santiago, Chile
 Saamin, Shaharudin, Mardi Hilir Perak, 36307Sg.Sumun, Perak, Malaysia
 Salleras Marco, Jose Ma. Molino 1, 17141 Bellcaire, (Gerona) Spain
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 Shikoku Nogyo Shikenjo, 3 Zentsuji Cho, Zentsujishi Kagawa, 765 Japan (SSB)
 Sierra, Hector E., 3 Ave. 8 Calle, #8, Tegucigalpa, Honduras C.A.
 Siriphanich, Jingtair, 6/2 Suthisarn #1, Bangkok, Thailand 10400
 Sprenger Instituut, Haagsteeg 6, 6700 AA Wageningen, Holland
 Story, Geoffrey, 230 Stenner St., Toowoomba, Queensland, Australia 4350
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 Swedish University of Agricultural Sciences, The Alnarp Library Box 51, S-230 53 Alnarp, Sweden
 Taiwan Banana Research Institute, P. O. Box No. 18, Chiuju, Pingtung, Taiwan 901, ROC
 Takada, Norishisa, Kikko Foods Company, 3748, Shimizui-Cho Numata, Gunma, Japan
 Tenorio, Humberto, A.A. 1221, Cali, Colombia
 Tompsett, Philip J., Apartado 578, Merida, Venezuela
 Tropical Fruit Research Station, P. O. Box 72, Alstonville, N.S.W. Australia
 Umali, D. L., IRRI, P. O. Box 933, Manila, Philippines
 Universiteitsbibliotheek, Rozier 9, B-9000 Gent, Belgium
 University of Agriculture, Malaysia/Bintulu Campus, P. O. Box 396, 97008 Bintulu, Malaysia
 University of Natal Library, Periodicals Librarian, P. O. Box 375, Pietermaritzburg, South Africa 3200
 University of Stellenbosch, University Library, Private Bag 5036, Stellenbosch 7600, South Africa
 Vasconcellos, Luiz A.B.C., Depto. de Horticultura-ESALQ-Universidade de Sao Paulo, Av. Padva Dias, 11 Cx Postal 09, 13400 Piracicaba, Sao Paulo, Brazil
 Vegetable & Ornamental Plant Research Institute, Library, Private Bag X293, Pretoria, South Africa 0001
 Werner, Hubert, FH-Osnabruck, Oldenburger Landstr. 24, 4500 Osnabrück, Germany 4500
 Wong, Fernando, Federico Villarreal #508, San Isidro, Lima, Peru
 Xiaozhong, Liu, Citrus Research Institute, Chinese Academy of Agric. Sciences, Xie Ma Xiang, Chong Qing, Sichuan Province, People's Republic of China
 Yamato, Hirokuni, Tokushima Horticultural Experiment Station, Katsuura, Tokushima, 771-43 Japan
 Yami, Inyoni, Swaziland Irrigation Scheme, P. O. Box 1, Tshaneni, Swaziland
 Yen, Chung-Ruey, Chia-Yi Agric. Exp. Sta., 2 Min-Chaun Road, Chia-Yi, 60014 Taiwan 60014, ROC
 Yonemori, Keizo, Laboratory of Pomology, Faculty of Agric., Kyoto University, Sakyo-ku, Kyoto 606, Japan

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