Business Sessions

Pres. Taylor: We are making good progress on our program, and I am sure we all appreciate the two splendid numbers just rendered. I would like to ask the auditing committee to work with the Secretary and Treasurer during the noon hour today.

No doubt all of you have seen in the morning paper the passing of our former president, one of the best friends the Horticultural Society ever had, and a friend to everything that was in the interest of the State of Florida, L. B. Skinner. He died last evening in his home at Dunedin. I am going to name a committee to prepare resolutions of regret to be adopted by this convention:

Committee.—E. L. Wirt, Babson Park; S. F. Pool, Lake Alfred; W. E. Sexton, Vero Beach.

The other committee appointments to be made now are as follows:

Committee on Greetings to Our Aged and Beloved Members.—H. C. Henriksen, Eustis; F. M. O'Byrne, Lake Wales.

Necrology Committee.—C. D. Kime, Orlando; Max Waldron, Babson Park; W. W. Yothers, Orlando.

Auditing Committee.—A. J. Peacock, Plant City; F. L. Wray, Hollywood; W. L. Floyd, Gainesville.

Nominating Committee.—E. L. Wirt, Babson Park; H. G. Clayton, Gainesville; W. J. Ellsworth, Blanton.

I want to make a statement in respect to this beautiful cup, which was awarded to DeLand last season at Vero Beach for having the largest attendance from any community within the State of Florida at our meeting a year ago. This cup will be awarded at this meeting to the community sending the largest delegation during this session. The attendance cup committee and also the committee on final resolutions will be named a little later. I want you to bear in mind the fact that this cup, when won for three consecutive years, will belong to the community winning it. The largest number of members from any one community wins the cup. It was presented by Mr. Sexton, of the Jungle Gardens at Vero Beach.

Pres. Taylor: I will now announce some further committee appointments:

Resolutions Committee.—R. O. Compton, Orlando; A. S. Rhoads, Cocoa; Grey Singleton, Fort Myers.

Attendance Cup Committee.—R. W. Ruprecht, Gainesville; J. L. Baskins, Orlando.

Final Resolutions Committee.—G. H. Blackmon, Gainesville; C. I. Brooks, Miami.

Dr. Hume: Mr. President, ladies and gentlemen: I have three matters I want to present for your consideration. One relates to the matter of the meeting of the State Horticultural Society at Ocala, April next. You will remember, at the last meeting of the Society, a committee was appointed to see what might be done to celebrate the organization of the society, fifty years ago.

This committee has had it to consider for some time, and now thinks the best thing would be to offer a pageant at that meeting, representative of the development of citrus and horticulture in Florida over the period of half a century. That is a very considerable undertaking, if done properly. It will take much thought, much study and a great deal of money. Just where all the talent is to come from, and the resources, is not entirely clear. The details have not been worked out. It will take a considerable number of months to get the details under way, and the financing of course must be securely taken care of before it is undertaken. It appears, therefore, the best thing would be to authorize the President to appoint a committee to take care of the details of this next meeting in Ocala, a Ways and Means Committee, and everything else connected with it. That committee need not necessarily be composed

entirely of members of the Society, but it might have a wider scope. I move that the President be authorized at this time to appoint at your designation a committee to work out details, ways and means for a proper setting up of the history of this Society at the Ocala meeting.

Motion seconded and carried.

Mr. Hume: The next matter I want to present, Mr. President, has to do with an item that is on your program and was to have been presented by Col. Robert H. Montgomery at last night's meeting. Unfortunately, he found it impossible to be here. This has to do with the organization and starting of what is to be known as the Fairchild Arboretum, near Coral Gables. May I call to your attention that practically every product we grow in Florida comes from a plant coming from some other part of the world. We are dependent entirely upon introduced plants for our commercial products. One of the finest things we could have in this state would be an Arboretum of the kind I have indicated, where plants of different areas of the world could be seen. I am interested in plants and always have been and sometimes I have traveled many miles to see a particular plant, and then many miles to see another which might be closely related; and so, if trees and shrubs could be brought together where one might see them together, there would be a tremendous advantage. This is precisely what is proposed to be done at the Fairchild Arboretum in honor of David Fairchild, who has given his life to the growing of plants.

In this connection, I am going to make another motion, that the President be authorized to appoint a committee of three to work with the organization and the setting up of this Arboretum in an advisory way, to give them such help and counsel as we may, that this Society be represented in that worthwhile undertaking. This calls for no financial obligation on our part, but this Society has had a great deal to do with the development of many organizations functioning in the State. I will make this motion.

Motion seconded and carried.

The next thing I want to present is to call your attention to the fact that there has been organized in Florida the Florida Academy of Science. This morning some of you members asked me if I thought the Florida Academy of Science would interfere with the Horticultural Society, and my reply was "No," because I did not think the members of the Horticultural Society in any large number would understand the language of the other. This Academy of Science, however, will bear a very important part in the development of the biological science, the physical and medical science in this state, for which there has been no clearing house. The organization has been made, there are more than 150 members now, and the first meeting will be held in Gainesville tomorrow. The president is Dr. Kurtz, who is a member of the faculty of the Woman's College at Tallahassee. The secretary is Dr. Kusner of Gainesville, and the treasurer, Dr. Taylor, of the University of Miami.

Many of you are scientifically minded. You have an interest in it. We should know more about the scientific background of our state in all its details, and I am simply calling this matter to your attention to inform you of what is going on and to enlist for this new organization your sympathetic support.

Pres. Taylor: I have here a telegram:

"Fort Lauderdale sends greetings to the Florida Horticultural Society and wishes you a pleasant and profitable 1936 session. We take this opportunity to urge your consideration of Fort Lauderdale and Broward County as the site for your 1938 meeting place. The Society has been in South Florida only twice in the fifty years of its existence. We are most anxious for the opportunity to entertain your group in 1938.

Fort Lauderdale Chamber of Commerce,
August Bergelein, Secretary."

We appreciate this telegram and are happy to have it and appreciate it that any community would like to entertain our Society, but it will be the policy of this Society, until another fifty years roll around, that from now on we will follow the course pursued of having a meeting place selected for the next succeeding meeting, one year ahead. I mention this so that no one will become exercised about the 1938 meeting until the session in Ocala, in 1927, for our fiftieth anniversary and Golden Jubilee.

Mr. G. M. Spangler: May I please say just a few words. We have had a good attendance here, as I think your report will show. Four of our splendid papers have been read by Winter Haven people. In the preparation of this invitation, we were backed by every interest in Winter Haven, and I have here a very earnest, sincere letter written by each of them to your organization. I am not going to take the time to bore you with them; they are all of the same tenor, urging you to give Winter Haven the privilege of being your hosts in 1938.

Our city, through our mayor and business manager; the Chamber of Commerce, through its president and secretary; our Kiwanis Club, through its president, who happens to be Mr. Frank Holland who gave a paper Wednesday; our Lions Club, through its president; our Junior Chamber of Commerce, our American Legion, our Woman's Civic League, our Garden Club, they all earnestly wish to have you there in 1938, and I shall file these letters and just leave this as something to think about. Next year in Ocala we are going to be very aggressive and hope to bring you to Winter Haven in 1938.

Pres. Taylor: I have here a telegram:

"John S. Taylor, President,
Florida State Horticultural Society,
DeLand, Florida.

"Understand Ocala merits Horticultural Society meeting 1937 Stop Tampa wishes 1938 meeting and requests you to present our invitation at this time with pledge heartiest cooperation by citizens clubs the press and all commercial interests for both 1937 and 1938 meetings.

Tampa Convention Tourist Bureau,
Tampa Chamber of Commerce,
Tampa, Florida."

Pres. Taylor: It has been called to my attention that the funeral of our former dearly beloved president, L. B. Skinner, is now in progress, and through respect to him and his great service to this organization and state, I would like you all to stand for one minute and remain standing.

Pres. Taylor: I want to say that I believe the Society will probably come back to DeLand again sooner than they have done since they were last here. The co-operation has been fine, the Chamber of Commerce and Mr. Kepler have kept us supplied with delicious orange juice, and I know the Society appreciates this more than they can say.

Mr. W. E. Sexton: Folks, I hate to make this report of award of the attendance cup but I represent the runner-up and I thought for a while we were going to beat. We did not know this award was to be made this afternoon and did not bring the cup with us, but I have been asked to report that the cup was awarded to Winter Haven. If they can win it two more years, they can keep it. We are pleased to award to Winter Haven the honor of this attendance cup.

Mr. Spangler: It is indeed a pleasure and an honor to receive this award, and I will take care of the cup and try very hard to win it again.

Mr. Holland: This has to do with the Horticultural protection service:

RESOLUTIONS

Whereas, citrus, truck and other crops and interests are subjected to occasional damaging cold weather and

Whereas, in order to properly protect groves and crops, growers must have warning of approach and probable severity of such colds and

Whereas, frost forecasting service was started in Florida this past season as a joint effort of the U. S. D. A. Weather Bureau and University of Florida Agricultural Experiment Stations and

Whereas, this service has been helpful and by all means must be continued and extended to cover all producing sections of the State for the benefit of the farmers and growers,

THEREFORE, BE IT RESOLVED, that the Florida State Horticultural Society respectfully urges the Florida delegation in Congress, and the Florida Legislature to appropriate or otherwise secure sufficient funds for the continuing and extending of this service, and

BE IT FURTHER RESOLVED, that copies of these resolutions be sent to the members of the Florida delegation in Congress, His Excellency the Governor of the State of Florida, all members of the Legislature which will convene in April, 1937,

to the Chief of the United States Weather Bureau, and Director of the Florida Agricultural Station.

Adopted.

Mr. Barrows: May I ask why we have such a great delay in getting out the Proceedings of the Society? In other words, we have the meeting along in April or May, and sometimes we get the Proceedings published the next December. A lot of us would like to get those more promptly and we were wondering if it was not possible.

Mr. Floyd: I wonder if you ever tried to get out a book and tried to gather up papers when people wont give them to you. We will try, however, to get it out sooner this year. It entails a lot of work on the part of people who are otherwise occupied.

NECROLOGY REPORT*

The year and more that has passed since our anniversary meeting in 1935 is sadly distinguished by the heavy losses that death has brought upon our Society. First, and most conspicuous, is the death of our President, John S. Taylor, our Vice President, S. F. Poole, and our former President, L. B. Skinner. As members, we feel keenly the loss of these men who were so recently active in leadership in our Society and in Florida Horticulture.

On Wednesday morning, May 6th, 1936, at the Forty-Ninth Annual Meeting being held in DeLand, President Taylor announced the passing of former President Skinner and appointed Vice President S. F. Poole a member of a committee to draw up suitable resolutions, little thinking that ere many months had passed, the two of them would join Mr. Skinner in the great Beyond. Mr. Poole died suddenly from a heart attack on Friday, July 31st, and Mr. Taylor from the same trouble early Saturday morning, August 15th.

PRESIDENT JOHN S. TAYLOR was a lifelong resident of Largo, Florida, near which he was born on March 21, 1871, on land that has been in the Taylor family since 1840. He was the son of Wm. J. and Mary F. Taylor. His father, Wm. J. Taylor, was born in Hernando County in 1847 and died in 1912 at Largo. His grandfather, who was also named John S. Taylor, came to Pinellas County with his great grandparents, Mr. and Mrs. William Taylor, from South Georgia, in 1835. The great grandparents are buried at Sylvan Abbey Cemetery near Safety Harbor.

Mr. Taylor was educated in the common schools, meantime working at home on the farm. His first business venture was in 1900 when be built the first citrus packing house in Largo and one of the first in the county. After operating the first plant for a few years, he sold his business and formed a company to erect a larger house. After five years, he again sold out, going into business for himself. He later became associated with Robert Markley (a former member of this Society) and they built a still larger packing house. Their Black Diamond Brand is nationally known to the trade. Eleven years ago, he became affiliated with the Florida Citrus Exchange and his firm was changed to the Citrus City Growers Association, with other members coming into the organization. A year later, the packing house was destroyed by fire and the present modern plant was erected in its place.

Mr. Taylor was a grower of citrus fruits, as well as a shipper. He was the owner of a large acreage of citrus groves and took a keen interest in the growing of fruit and in the growers' problems.

His first venture in politics was in 1904 as a member of the State Legislature from Hillsborough County, of which Pinellas County was then a part. He was not a candidate in the next election but devoted his efforts to the division of Pinellas County from Hillsborough. He was again a member from Hillsborough County in 1909 but did not bring up the issue of county division at that time, but was defeated in 1910 when he ran on a platform advocating division.

He again attended the entire session of the

*Special report prepared after the meeting.

Legislature in 1911 as a division lobbyist and succeeded in having the County of Pinellas created. The following year he was elected Pinellas County's first Senator. He later became a member of the Board of County Commissioners of his county, serving as its chairman for six years. It was during his administration that the first system of road improvement was inaugurated.

After retiring from the County Board, he was again elected a State Senator and was president of that body during the 1925 session. In 1928, he was a candidate for Governor and despite the fact that he entered the campaign very late, he made a strong showing. Had he have entered a month or more earlier, he probably would have been elected.

In the Legislature, he was the leader of every movement that was to help agriculture and horticulture in Florida. He was active in obtaining support for the State Colleges and for the eradication of Citrus Canker and the Mediterranean Fruit Fly, and spent much time in Washington obtaining Federal help for this work. He favored maturity laws for citrus fruit and helped to have laws passed controlling this. He worked for the advancement of common school education, making it possible for the schools in the outlying districts to have as long terms as those in the more thickly settled communities.

He was elected President of the Florida Citrus Exchange in 1932 and held that office until his death. He was appointed a member of the Florida Citrus Commission by Governor Sholtz and was elected its vice-chairman. He was the Democratic nominee for the State Senate from Pinellas County at the time of his death and served as Democratic National Committeeman for several years.

In church circles, he was a leader in Methodism in Florida and was a leading layman in the Methodist Church South. He was a trustee of Southern College at Lakeland; the first Honorary Chancellor of that Institution, and received the honorary degree of Doctor of Laws from there.

His business interests included enterprises of wide scope and importance. Besides his large citrus holdings, he was Vice President and a Director of the Bank of Clearwater and was President of the Guaranty Title and Trust Company of Clearwater. He was also owner of a theater in Clearwater.

Mr. Taylor was a member of the Masonic Lodge, Knights Templar, the Shrine, Knights of Pythias, Benevolent and Protective Order of Elks and several other fraternal and civic orders.

He was elected President of the Florida State Horticultural Society in 1929 and served until his death. His commanding appearance and quiet dignity won for him the love of the members. He had a great interest in the Society and was always present at the Annual Meeting. He attended meetings of the Executive Committee at Winter Haven, driving back to his home at Largo the same night, so as to be ready for other duties the next morning. He was looking forward to the celebration of the Fiftieth Anniversary and urged that this be made an affair in keeping with the place of the Society in the making of Florida history and at the same time enlarge its membership and its field of usefulness.

He was married in 1901 to Flossie Campbell. Their only son is John S. Taylor, Jr. After Mrs. Taylor's death, the Senator was married on October 26, 1930, to Miss Hazel Naugle, who survives him.

VICE PRESIDENT S. FRANK POOLE was born on May 5, 1875, at Jamaica Plain, a suburb of Boston, Massachusetts. He was the son of Dr. Silas and Eldora Lucas Poole. He graduated from Amherst College in 1898 and later received a Master's Degree from Harvard University. He was a science teacher before coming to Florida about 1906. He resided in Bradenton for some time, going from there to Cuba where he had charge of a large citrus planting. He returned to Florida in 1910, becoming horticulturist for the Dr. F. W. Inman properties at Winter Haven. He was later a horticulturist for the Lakeland Highlands Co-operative Association. In 1914, he was appointed Horticulturist to the Fruitland Company at Lake Alfred and was later elected a Vice President of that company, which positions he held until his death on July 31, 1936.

Mr. Poole was one of the best known horti-

culturists in Florida and had many friends and admirers. He was elected a Vice President of the Florida State Horticultural Society in 1916 and continued in that office until the time of his death. He was a regular attendant at all meetings and took an active part in the discussions. He had a wide knowledge of citrus culture and other branches of Florida Horticulture and contributed much to the work of the Society. He was always ready and willing to serve in any capacity in the organization. He had a genial personality and won many friends by his sincerity and the exemplification of true Christian principles.

He was a leading layman in the Baptist Church at Winter Haven and for a number of years was superintendent of the Sunday school. He was a member of the Masonic Lodge and the last rites were conducted by that body.

In June, 1936, Mr. and Mrs. Poole left Lake Alfred to visit the Pacific Coast. They went via McAllen, Texas, to investigate the fruit situation. From there they drove to California. After visiting the Exposition at San Diego and touring the state, they visited Glacier and Yellowstone National Parks, traveling in all near 10,000 miles before their return to Florida.

Mr. Poole is survived by Mrs. Poole, a sister, Mrs. William L. Kirkhuff of Bradenton, and three brothers, all of whom reside in Boston, Mass.

LEE BRONSON SKINNER was born at Watertown, Wisconsin, on January 27th, 1861, the son of Mr. and Mrs. Calvin Bronson Skinner.

He attended law school at Northwestern University, in the same class with William Jennings Bryan, and came to Florida in 1883, where he made his permanent home, coming here by rail to Cedar Keys and thence to Dunedin by boat, a pioneer in an undeveloped country. Dunedin, at that time, consisted of a store, post office and a cotton gin. St. Petersburg had not yet appeared and Clearwater consisted of a general store and a post office. After his arrival in Dunedin, Mr. Skinner sent north for a buckboard which was the first fourwheeled vehicle to appear in Pinellas County. Mr. Skinner also brought to Pinellas County its first automobile in 1906.

He was married to Mary Eleanor Brice of Chicago on October 22nd, 1885.

When his groves were so badly hit by the Big Freeze in the spring of 1895, he did not lose courage but had vision to not only bring his own grove back but to purchase groves which had been abandoned by others.

In 1892 he became interested in the real estate business in Tampa and soon after that was instrumental in bringing the first cigar factory to West Tampa and for the purpose of developing West Tampa, he built the Fortune Street Bridge.

He built his first packing house in about 1900 and in 1909 developed the Skinner Washer, which was used so universally throughout Florida for the washing of citrus fruits, and which resulted in the foundation of the L. B. Skinner Manufacturing Company, now a part of the Food Machinery Corporation.

In 1899, the City of Dunedin was incorporated and Mr. Skinner was the first mayor and served in this capacity for many years.

He was connected with the Hillsboro Hotel, of which the first wing was built in 1911 and eventually purchased the interest of his associates in this enterprise and enlarged it twice after this purchase.

He was active in the Dunedin Yacht Club and at one time was Commodore of this Club. Sailing was one of his hobbies.

He was the owner and developer of the Mandalay Sublivision on the north half of Clearwater Beach Island.

He was active in all efforts for the good of the citrus industry in Florida and for many years was President of the Growers and Shippers League.

In 1925 he and his wife, Mary E. Skinner, built and gave to the First Presbyterian Church the present church building in Dunedin, Florida.

He was the first President of the Peoples Bank of Clearwater, Florida, and the first President of Morton F. Plant Hospital. He was a thirty-second degree Mason and a Rotarian. He was a superintendent of the Presbyterian Sunday school at Dunedin for 25 years and an elder in the church.

He is survived by his wife, Mary E. Skinner, his daughter, Mrs. Elizabeth Skinner Jackson, and three sons, B. C. Skinner, R. E. Skinner, and F. L. Skinner.

Mr. Skinner died at his home in Dunedin on May 5th, 1936, and was buried in the family plot in the Dunedin Cemetery.

Mr. Skinner was elected President of the Florida State Horticultural Society in 1922, serving until 1929 when he was succeeded by his neighbor, another Pinellas County man, Senator John S. Taylor. He was a Vice-President of the Society from 1912 to 1922. His name first appeared in the membership in 1902, and next in 1905. After that time he was a regular attendant at the meetings until the last year of his life. He was actively interested in every movement in the Society to advance the interests of the citrus grower. He was a leader of good judgment, and his advice was always sought in matters pertaining to the Society and its work. He was interested in a movement for the obtaining of parasites from the Orient for the Eradication of the Whitefly and was keenly disappointed when this failed. He was a leader in the movement for the Eradication of Citrus Canker and of the Mediterranean Fruit Fly. He was actively interested in fruit transportation and worked for equitable rail rates to market. He was interested in new varieties of citrus fruits and looked forward to the development of an early variety of pineapple oranges. He was also interested in Avocados and other sub-tropical fruits. While he was primarily a business man, he had a keen horticultural mind and followed with interest the papers and discussions on the programs. The Society has suffered an irreparable loss in his passing.

THEODORE L. MEADE.—The Society lost one of its real horticulturists and its few plant breeders in the passing of Theodore L. Meade who died at a hospital in Sanford on May 4th, 1936, following a paralytic stroke at his home on Lake Charm at Oviedo on April 22nd. Mr. Meade was a gentleman of the old school, well educated, highly refined, widely travelled, of charming personality, but quiet and retiring in manner. He was a great lover of home life and a perfect host. His house was the Mecca for plant lovers, many of whom came from long distances to see his collections of rare plants.

Mr. Meade was born at Fishkill, New York, on February 23, 1852. His ancestors on his father's side came to America in 1642, while his mother was of Hugenot extraction, her forebears having left France after the Edict of Nantes in 1685. The years between ten and twelve were spent with his parents and brother in Germany where he studied French and German. Upon returning home, his education was continued in the public schools preparing for entrance to the College of the City of New York.

In 1867, he entered the Sub-Freshman Class of the City College, but later withdrew and traveled through Europe with his mother, visiting the French Exposition. At Dresden, he became interested in a collection of butterflies which he purchased and built up to the third largest collection of American butterflies in the world. He traveled widely in America, visiting points as remote as Florida, Panama, Colorado and California in quest of specimens.

From 1874 to 1877, he attended Cornell University, graduating from there in 1877 as a civil engineer. In 1890, he received an advanced degree in the same subject from there. He later regretted having taken this course as his greater interest was in biology. Among his friends and fraternity brothers were Col. E. H. House, who later became President Wilson's confidant, and Louis Fuertes, the famous bird artist.

From 1878 to 1881, he traveled in the far west and in 1879 spent a while studying law in the Columbia University Law School. In 1882, he was married to the daughter of Wm. H. Edwards, the author of "The Butterflies of North America" whose publication began in 1868 and continued till 1884. They took their wedding trip to the English Cathedrals, spending some time at Kew Gardens studying plants.

In 1882, he and Mrs. Meade established a home at Eustis, where they lived for six years. Following the cold of 1886 he bought a twenty-acre grove at Lake Charm, near Oviedo, where they made their home during the remainder of their lives. Previous to the freeze of 1894-95, he be-

came interested in the growing of ornamental plants and made a large collection of palms. After the freeze, he followed up his work with ornamentals, taking up breeding work with orchids, amaryllis, crinums, day lilies, gladioli, cacti, bromeliads and caladiums. He obtained plants and seeds from all over the world and introduced many of the ornamentals that are common in Florida today. He published many articles on his work including several in the Proceedings of this Society. The first appearing in our Proceedings was that of the fifth meeting in 1892. Another in 1897 and the last one in 1910.

While Mr. Meade was not a charter member, he was one of the group that incorporated the Society in 1892 and was first vice president at that time. He maintained his membership continually until his death. He published his autobiography in the 1935 Year Book of the American Amaryllis Society, edited by Dr. H. P. Traub of Orlando. The volume of that year was dedicated to Mr. Meade and he is referred to therein as the venerated pioneer horticulturist of the Southeast, originator of the Meade strain of Hippiastrums and a Fellow of the Society.

LORENZO A. WILSON.—The Society lost another of its older members, in the passing of Lorenzo A. Wilson of Jacksonville, Florida. Mr. Wilson's membership began with the fourth meeting in 1891 at Interlachen. He maintained his membership continually until his death in Jacksonville on September 9th, 1936. He was always actively interested in the welfare of the Society and contributed in many ways to its support. He was elected to Honorary Membership in 1934 on account of his long service in the Society.

Mr. Wilson was born at Wilson Beach, Campobello Island, New Brunswick, on December 25th, 1864. He was the son of Lorenzo and Rachel Young Wilson. His father, who was born at the same place, was proprietor of the leading merchandising store at Wilson Beach until 1870. He retired as a merchant and moved with his family to Wellesley, Mass. In 1875 he came to Florida. He located in the town of Altamonte in Orange County, where he became a grower of citrus fruits. He died in 1879.

Mr. Wilson went to school in Orange County for a few years, but following the death of his father, was compelled to quit school and go to work. At the age of 17, he entered the fertilizer business in Orange County and in 1886 moved to Jacksonville, where he was associated with his brother, George, in the fertilizer business. In 1893, he founded the Wilson and Toomer Fertilizer Company, which company he continued to head until the time of his death. His business interests were many and extensive. Among his various companies were the Florida Agricultural Supply Company, The Southern States Bag Company and the Holly Hill Grove and Fruit Company. He was owner of a large acreage of citrus groves and took great interest in the welfare of the citrus and vegetable industries in Florida. He was a director in the Florida National Bank of Jacksonville.

Mr. Wilson was an optimist and was very public minded. He was always heading some movement for the benefit of Florida. He loved his adopted state and worked hard and unselfishly for its progress and development. During the early days, he was very active in civic matters in Jacksonville and during the World War worked tirelessly for his state and country. He headed the Florida Agricultural Tariff Association and worked hard to obtain relief for Florida growers. He was the leader in the formation of the Florida Citrus Institute in 1934, out of which was evolved the state legislation that established the Florida Citrus Commission. He was the moving factor in organizing and establishing the Florida State Exhibit at the Century of Progress in Chicago, that so successfully advertised the state; the State Exhibit at Rockefeller Center in New York during the winter of 1935-36, and the Exhibit at the Great Lakes Exposition in Cleveland during the past summer.

He was a director in the State Chamber of Commerce and was a leader in this group and its work. He contributed liberally from his finances to many movements for the benefit of the state and its people and his contributions to charity were much larger than was known even to his closer friends.

Mr. Wilson was a lover of flowers and of

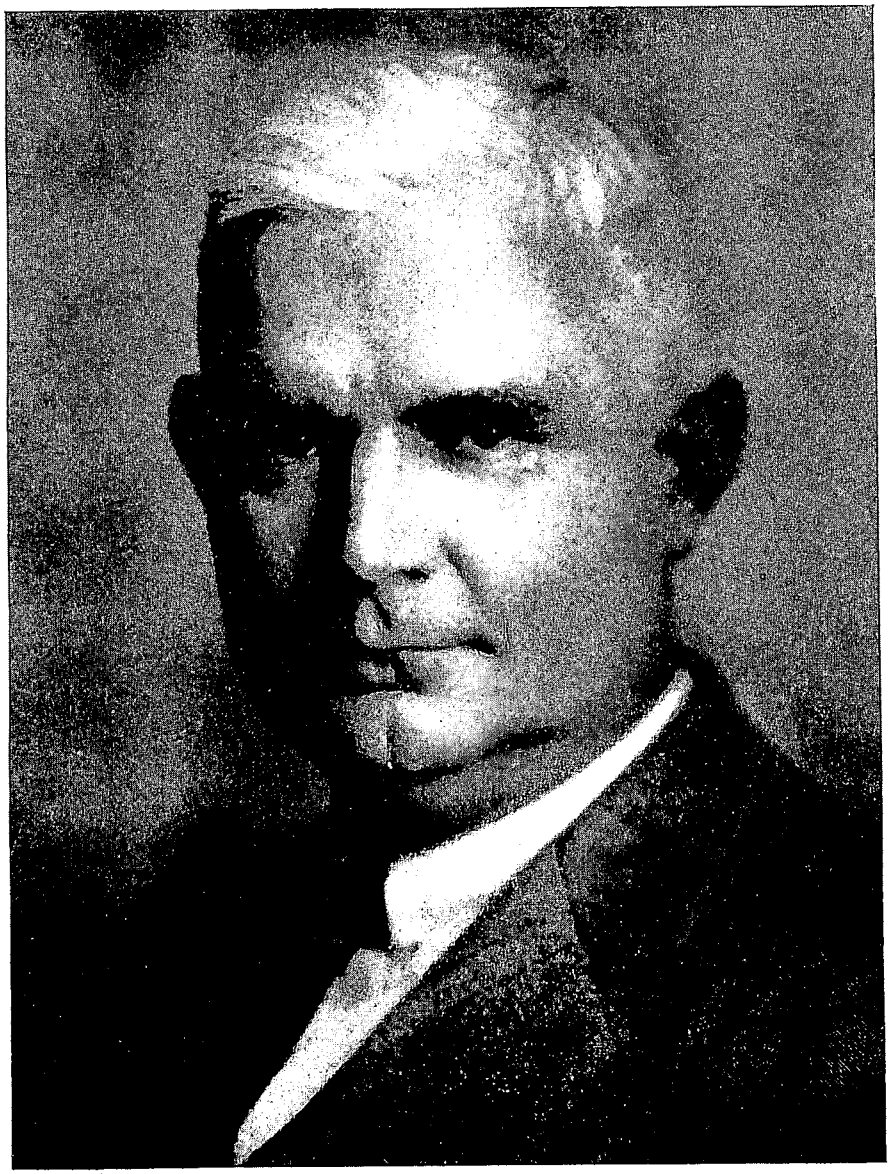
Deceased Members

Before May 4, 1936

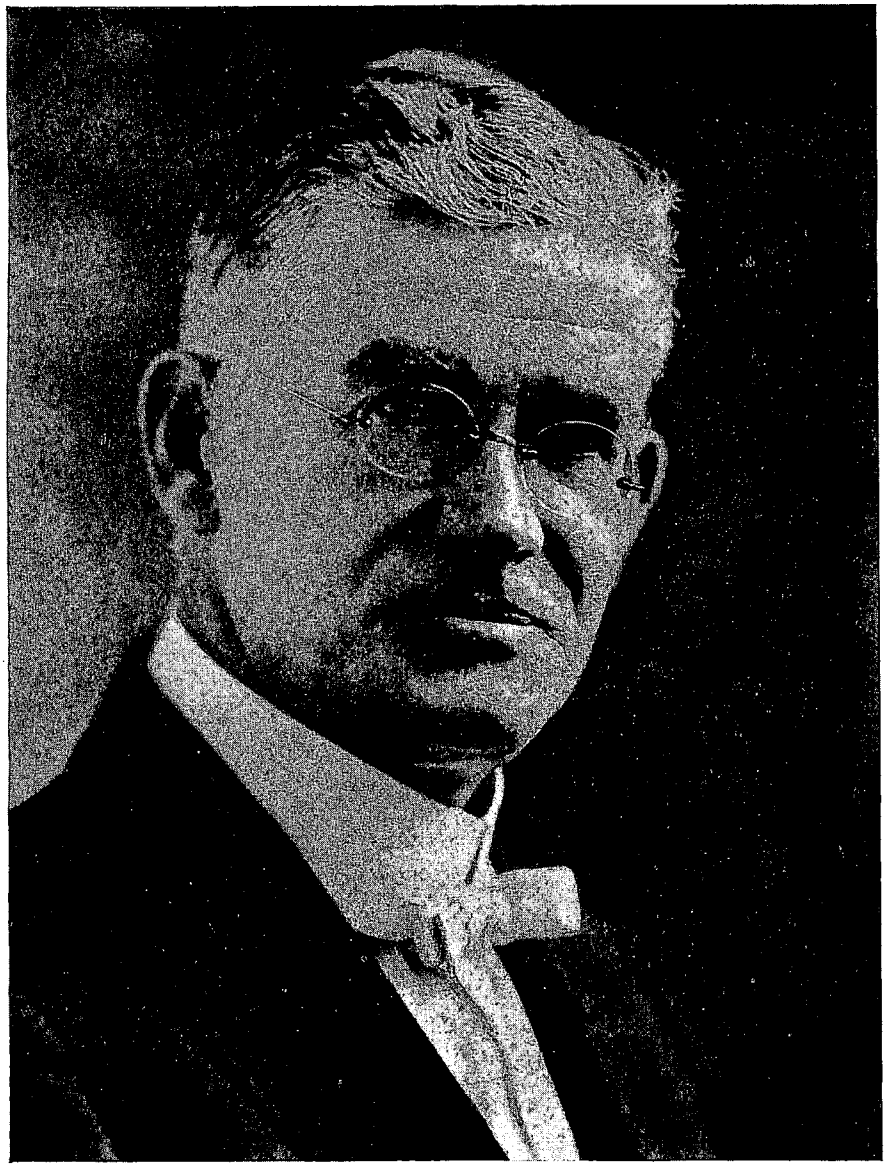
J. Reed Curry - - - - - - - - - Tampa
H. L. Dolive - - - - - - - - - Orlando
Gilman A. Drew - - - - - - - Eagle Lake
M. R. Ensign - - - - - - - - Gainesville
John Gribble - - - - - Philadelphia, Pa.
H. E. C. Howells - - - - Bonita Springs
Theodore L. Meade - - - - - - Oviedo
C. T. Melvin - - - - - - - - - Tampa
Mrs. Wm. T. Murphy - - - Highland Park

After May 4, 1936

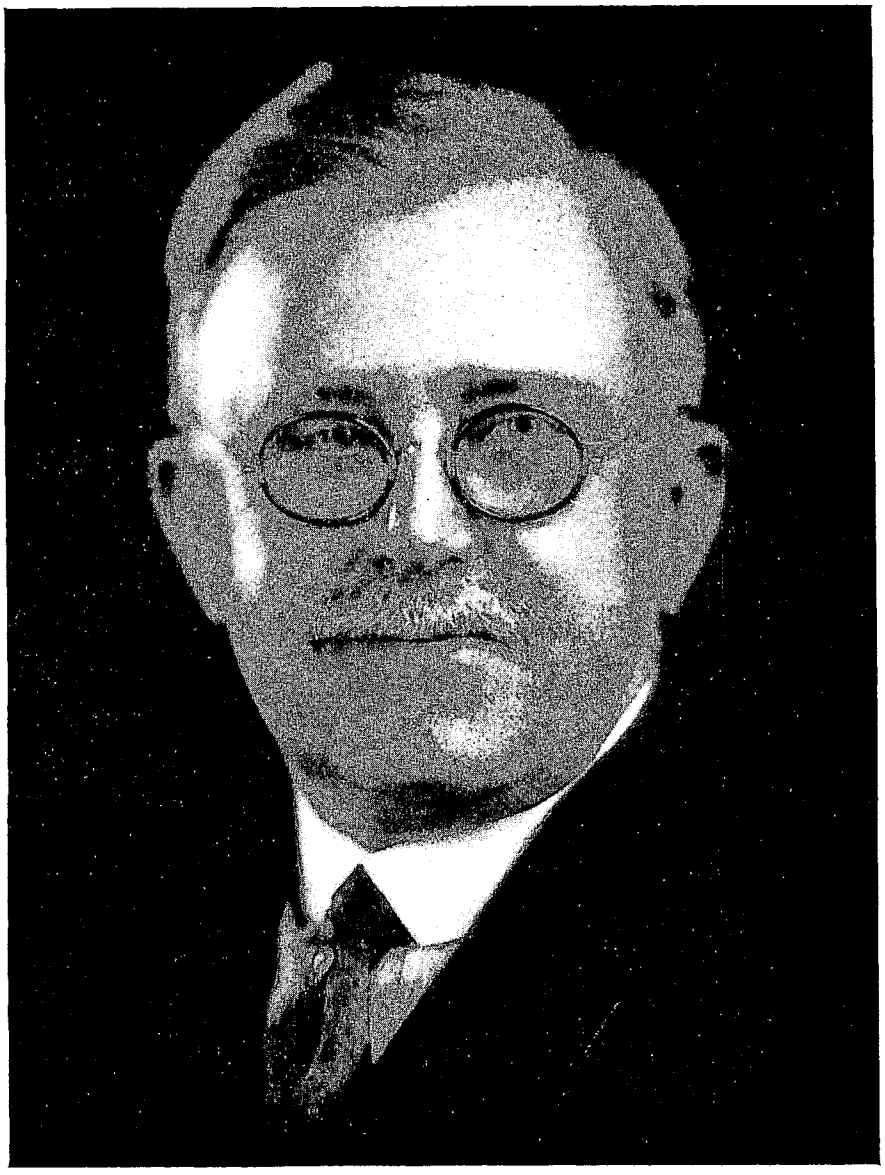
President John S. Taylor - - - - - Largo
Vice-President S. F. Poole - - Lake Alfred
Former President L. B. Skinner - - Dunedin
Lorenzo A. Wilson - - - - - Jacksonville



JOHN S. TAYLOR
1871-1936



S. FRANK POOLE
1875-1936



LEE BRONSON SKINNER
1861-1936

things that grow and he was never so happy as when he could be at his Davenport home, where he had extensive gardens and could be out in the orange groves. He is survived by his wife, Mrs. Eugenia Bouleware Wilson; a daughter by previous marriage, Mrs. R. R. Milam of Jacksonville; and by two sisters and a brother.

CHESTER T. MELVIN was one of the newer members, but was active in the Society in recent years, taking part in the programs. He was deeply interested in the effects of fertilizers on crops, both from a scientific and a practical point of view. As a result of his interest and leadership, the Florida Agricultural Research Institute was formed. It was organized and supported by a group of fertilizer manufacturers for encouraging and sponsoring agricultural research, particularly in reference to citrus.

Mr. Melvin was born October 19, 1883, and has been connected with the fertilizer industry throughout his business career. He was Vice-President of the Gulf Fertilizer Company of Tampa. He was also President of the National Fertilizer Association. His death came on the day of the opening session of the Annual Meeting of that body. For a number of years, he was a member of the Soil Improvement Committee of that Association. In June, 1933, he was elected Vice-President and in June, 1935, its President. He was President of the Independent Fertilizer Manufacturers Association for a number of years.

M. R. ENSIGN.—Another newer member who has passed on is Martin Russell Ensign of Gainesville. Dr. Ensign was born at Brigham City, Utah, on November 24, 1890. He was graduated from Utah College with a B. S. degree in 1912. He studied at Washington University in St. Louis and at Cornell University, taking his Master's Degree at the latter institution, in 1917. He was connected with the Utah Agricultural Experiment Station, did High School teaching and was a plant pathologist with the United States Department of Agriculture. From 1919 to 1920, he operated a farm. From 1920 to 1927 he did agricultural extension work at the University of Arkansas and the University of Florida. In 1927, he was appointed Assistant Horticulturist of the Florida Agricultural Experiment Station. He resigned from this work in 1935 to take up commercial work in which he was engaged at the time of his death. He was the author of a number of publications.

Dr. Ensign took part in the Horticultural Society programs on several occasions and was always ready to co-operate in Society work. He was a hard and productive worker. He had a pleasing personality and made friends wherever he went.

DR. GILMAN A. DREW.—Another member who has passed away during the year is Dr. Gilman A. Drew of Eagle Lake. Dr. Gilman A. Drew was born at Newton, Iowa, on November 15, 1868. He went to school at the University of Iowa, getting his undergraduate degree from there in 1890. In 1898, he received his Doctor's Degree from Johns Hopkins University. Dr. Drew was a zoologist of note and the author of several books. He was widely known as a research man. He was a member of many scientific societies. He was successively Secretary, Treasurer and President of the American Society of Zoology.

Early in this century, he planted an acreage of citrus groves adjoining those of his brother, Professor W. L. Drew, near Eagle Lake. After his retirement, he occupied his beautiful home facing Eagle Lake, where he was living when he passed away. He is survived by Mrs. Drew and his brother, Professor W. L. Drew.

Mr. Wirt: The Committee on Resolutions of Regret would like to offer the following Resolution:

Whereas, in the passing of L. B. Skinner, Past President of the Florida State Horticultural Society,

We realize that we have lost a most valued member who has left us memories rich in service for our Society. For he has given the Society the best of his aid, and counsel over many years of a very busy life.

And since he has always stood for the best and highest ideal in Florida Horticulture,

BE IT RESOLVED, that the members of the Florida State Horticultural Society do extend to the bereaved family our heartfelt sympathy.

AND BE IT FURTHER RESOLVED, that this resolution be spread on the minutes of the Society and a copy sent to the family.

E. L. WIRT,
S. F. POOLE,
W. E. SEXTON,
Committee.

Adopted.

TELEGRAM SENT TO FAMILY

"Mr. Francis L. Skinner,
"Dunedin, Florida.

"The Florida State Horticultural Society learns with deep regret of the passing of its beloved Past President, L. B. Skinner, and extends to the bereaved family its sincere sympathy in their sorrow.

"FLORIDA STATE HORTICULTURAL SOCIETY,
"W. E. SEXTON."

Also this Committee has provided for an appropriate floral offering at the funeral at four o'clock tomorrow afternoon in the First Baptist Church in Clearwater.

Dr. Taylor: I will now ask for the Report of the Committee on Greetings to Aged Members.

GREETINGS TO AGED MEMBERS

Mr. H. C. Henricksen: The Florida State Horticultural Society has been a leading factor in the horticultural development of this state. This was the case especially in the earlier years, and it was due primarily to the enthusiasm and untiring efforts of those who were the leaders of the Society's destinies at that time. Most of them are unfortunately, not with us now, but there are yet a few living to whom it is fitting the Society should do a slight honor at this time by means of a few words of appreciation.

A member who has contributed largely to the success of the Society is W. S. Hart, of New Smyrna, for 34 years Treasurer of the Society. We had hoped that Mr. Hart might be with us this year, but his frail condition prevents. We append a record of the life and work of this wonderful and lovable character. Your committee is wiring Mr. Hart in the name of the Society as follows:

"Your absence is keenly felt. We send felicitations for many successful years in horticulture."

Mr. L. W. Lipsey is one of the charter members of this Society, the only surviving charter member. He is in attendance at this meeting and has served the Society and horticulture ably and loyally for many years. We trust that he may join in our Golden Jubilee next year. Mr. Lipsey, the Society salutes you!

Mr. H. B. Stevens has been a member of the Society for about forty-eight years. He has been the champion of non-cultivation for many years; the originator of the Stetson method of carloading and many other innovations. We appreciate his attendance at our meetings and wish him many more fruitful years.

Mr. S. W. Johnston, of the E. O. Painter Printing Company, has been a member of the Society since 1893. He has printed our Proceedings "since the mind of man runneth not to the contrary." He was of invaluable financial assistance when our funds were very low. We appreciate his continued interest and support.

Adopted.

President Taylor: We will now have the Secretary and Treasurer's Reports.

SECRETARY'S REPORT

Balance Sheet

Cash in Bank	$121.50	
Treasurer	292.50	$414.00

Liabilities

B. F. Floyd	$414.00

Statement of Operations

Annual Memberships 1935	$286.00	
Contributions	50.00	
Sale of Proceedings	23.86	
Bank Refund	5.19	$365.05
Expense (15 Items)		$338.57
Receipts in excess of Expenditures		$ 26.48

Cash Receipts

Balance—Apr. 9, 1936	$ 95.02	
Receipts	365.05	$460.07

Disbursements

Expense		
(See operating statement)	$338.57	
Cash in Bank May 5, 1935	$121.50	$460.07

TREASURER'S REPORT

April 8, 1935, to May 1, 1936

Balance on hand at time of April 8, 1935, report $668.13

Receipts

147 annual memberships, 1935, @ $2.00	294.00	
189 annual memberships, 1936, @ $2.00	378.00	
10 5-year Perennial memberships @ $10.00	100.00	
4 2-year Perennial memberships @ $4.00 (paid twice)	16.00	
1 Life membership	25.00	
2 Copies of Proceedings, back numbers, at $2.00	4.00	
Advertising in 1934 Proceedings	75.00	
Advertising in 1935 Proceedings	290.00	
Overpayment, Daetwyler Perennial Membership	1.00	
Deposited to Horticultural Society account by error, to be returned to Florida Rose Society	2.00	
Bank error in deposit April 16, 1935	2.00	$1,855.13

Disbursements

Stamps (for membership campaigns, mailing receipts, Proceedings, and general correspondence	$ 62.55
Office and stenographic expense	75.00
Book for Bank acct., etc.	.45
Sewell Printing Co., envelopes and letterheads	16.90
Treasurer's Convention Expense	26.75
E. O. Painter Printing Co., 1934 Proceedings (bal.)	469.12
E. O. Painter Printing Co., 1935 Proceedings (total amt.)	843.94
Clarke Barney Insurance Co., 1935 Bond for Treasurer	12.50
Clarke Barney Insurance Co., 1936 Bond for Treasurer	12.50
Decorations for 1934 Convention (paid to Daetwyler, who returned 2 checks, $11.00 and $4.00, through error, intending to donate the $1.00, for which we gave him a 5-year Perennial membership and refunded $4.00, showing overpayment of $1.00 in receipts)	15.00

Refund to M. J. Daetwyler on above Decoration bill	4.00	
Bank service charge	2.49	$1,541.20
May 1, 1936, Balance		$ 313.93

STATEMENT OF ENDOWMENT FUNDS
May 1, 1936

First Liberty Conv. 4¼ Bonds	$1,100.00
Savings Account Balance	2,156.85
	3,256.85
Plus Loan to Society	1,300.00
TOTAL ENDOWMENT	$4,556.85

REPORT OF AUDITING COMMITTEE

We, the members of your Auditing Committee, beg to report that we have examined the books, vouchers and holdings of the Secretary and Treasurer, and find them to be correct.

A. J. PEACOCK,
W. L. FLOYD.
FLOYD L. WRAY,

Report approved and adopted as read.

REPORT OF EXECUTIVE COMMITTEE

By BAYARD F. FLOYD

The spring meeting of the Executive Committee was held in the Haven Hotel, Winter Haven, on the evening of March 20, 1936. There were present Messrs. O'Byrne, Robinson, Hume, Floyd and Taylor, with the following visitors: Mr. and Mrs. S. F. Poole, of Lake Alfred; and Pres. F. H. Hammer of the DeLand Chamber of Commerce. The Committee approved the action of the Secretary in contracting for the printing of the 1935 Proceedings. The time for holding the 49th Annual Meeting of the Society at DeLand was set at May 5, 6 and 7. A proposed program was discussed in detail and the Secretary was instructed to proceed to complete it. There being no further business, the Committee adjourned to meet at the call of its Chairman.

REPORT OF NOMINATING COMMITTEE

The Nominating Committee beg leave to report as follows:

We place in nomination the following:
For President, John S. Taylor.
For Vice-President, S. F. Poole.
For Vice-President, C. W. Lyons.
For Vice-President, Charles I. Brooks.
For Secretary, Bayard F. Floyd.
For Treasurer, N. A. Reasoner.
For Members of Executive Committee, F. M. O'Byrne, H. Harold Hume and T. Ralph Robinson.

Respectfully submitted,
E. L. WIRT,
H. F. CLAYTON,
W. J. ELLSWORTH,
Committee.

President Taylor: Are there any other nominations?

Mr. .....: I move that the polls be closed and that the Secretary be instructed to cast a unanimous ballot for the candidates.

Seconded and carried.

REPORT OF FINAL RESOLUTIONS COMMITTEE

Whereas, the forty-ninth annual meeting of the Florida State Horticultural Society, held in DeLand on May 5, 6 and 7, 1936, has been a source of great pleasure and profit, and

Whereas, its members, officers and guests wish to extend their thanks to those whose assistance aided in making the meeting successful and interesting, now, therefore,

BE IT RESOLVED, that the thanks of the Society are hereby extended to: DeLand Chamber of Commerce, which through its President, F. H. Hammer, and its Secretary, G. E. Gilliland, and staff, anticipated the needs of the Society and its guests in making arrangements for the various activities of the Society and the Krome Memorial Institute.

To Mayor A. C. Hatch for extending the courtesies of the City during the meeting and to its officials for completing the arrangements.

To President W. S. Allen of Stetson University for allowing the use of the auditorium in Elizabeth Hall and various other facilities.

To the faculty and students of the University for the extent and variety of musical entertainment, and also to those who furnished musical entertainment for the Krome Memorial Institute in the Chamber of Commerce auditorium.

To the DeLand Garden Club and its members for holding their Flower Show at this time, in order to allow visitors to view the floral display.

To the Putnam Hotel for courtesies extended in arrangements for and throughout the meeting.

To R. J. Kelper, Jr., who so kindly furnished orange juice throughout the meeting, much to the enjoyment of the members and guests, and to the young ladies who assisted in serving.

To the Press, both local and State, particularly the Citrus Industry and the Florida Grower.

To the Woman's Club and others who assisted, for floral and plant decorations in various places.

G. H. BLACKMON,
CHARLES I. BROOKS.

President Taylor: I want to offer our apologies to the persons who were on the program for this evening. We have had an interesting session. We have had very good attendance. We realized this noon that a great many of the people would have to go home and came to the conclusion that the attendance would be very small tonight, and thought it best to close the meeting this afternoon at the end of the program. We regret that it seemed to be best to do that. Our apologies to these people who would have been on the program tonight. Their papers will appear in the Proceedings of this meeting. I am sure it will be to the interest of all that we adjourn at this time.

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Insure Better Control
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Non-poisonous combined Insecticide and Fungicide

Controls Gladiolus Thrips, Chinch Bugs in Lawns, Black-Spot and Mildew on Roses.

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Controls all types of insects on Flowers, Plants, Fruits, and Vegetables. Ask your dealer or write for descriptive folders.

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For Everything that Grows in Florida . .

Gulf "Friendly Fertilizers" are made expressly for Florida soils and crops. Because they are keyed to your soil, crops receive maximum plant food value—and you are assured of long-run economy.

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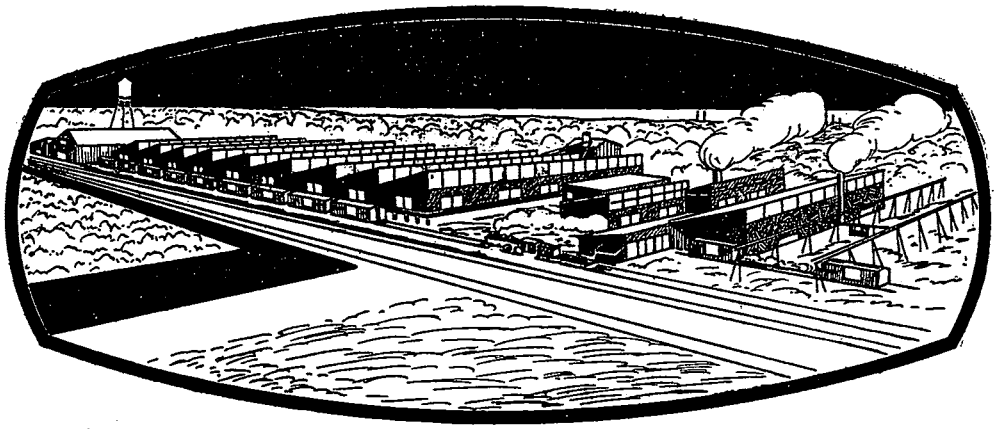

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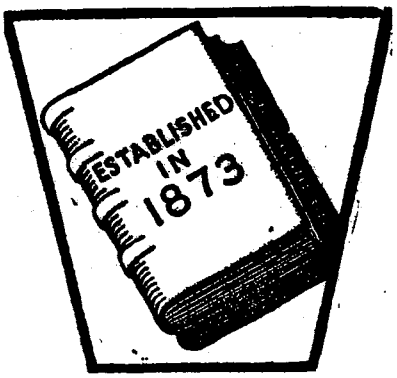

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BETTER FRUIT PROGRAM

Spray and Dust Schedules for 1936-'37 Season

SELECT THE SCHEDULE MOST APPLICABLE TO YOUR CROP AND STICK TO IT

SCHEDULE A

FOR USE WHEN SCAB AND MELANOSE ARE EXPECTED TO BE SEVERE AND FOR SCALE, RUST MITES, WHITEFLIES AND RED SPIDERS

I. Scab and melanose dormant spray, just before growth starts, usually applied Jan. 1 to Feb. 10. Use either bordeaux 3-3-50 or its fungicidal equivalent in other forms of copper which have been proven satisfactory. Oil emulsion at ¼ to ½% actual oil or some other suitable spreader should be included.

II. If scab control is most important apply when two-thirds of petals have fallen. If melanose control is most important apply 2 to 3 weeks after bloom has shed. Use either bordeaux 1½-1½-50 (see footnote on copper sprays) or its fungicidal equivalent in other forms of copper which have been proven satisfactory. As a rule mineral oil spreaders are not used in this application but some spreader should be included. Wettable sulfur 5 to 10 lbs. per 100 gals. may be added for the control of scale crawlers and rust mites.

III. For rust mites, 3 to 6 weeks after application II or sooner if rust mites appear. Use either (1) Liquid lime-sulfur 2 gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 5 to 8 lbs. per 100 gals. plus wettable sulfur as above, or (3) Sulfur dust.

IV. For scale and whiteflies, May through August but May 15 to July 15 preferred. Use oil emulsion, 1 to 1 and two-thirds per cent. actual oil. **Note: Use dilution recommended by manufacturer of oil used. See footnote on oils.** Be sure foliage is dry. This spray should not follow closer than 3 to 4 weeks after application III, or longer if noticeable quantities of sulfur are present on the foliage.

V. For rust mites, July 15 through October, as needed. Preferably use sulfur dust on early fruit. On late fruit use either (1) Liquid lime-sulfur 1¼ to 1½ gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 4 to 6 lbs. per 100 gals. plus wettable sulfur as above, or (3) Sulfur dust.

VI. *December or January*, if rust mites are numerous. Use either (1) Liquid lime-sulfur 2 gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 5 to 8 lbs. per 100 gals. plus wettable sulfur as above.

SCHEDULE B

FOR USE WHEN MELANOSE IS EXPECTED TO BE SEVERE BUT SCAB IS OF MINOR IMPORTANCE, AND FOR SCALE, WHITEFLIES, RUST MITES AND RED SPIDERS

I. In some interior sections of the state the following dormant spray will help to prevent minor infections of scab. Use either (1) Liquid lime-sulfur 3 gals. per 100 gals., if fruit has been removed, 2½ gals. per 100 gals., if fruit is still on the trees, or (2) Dry lime-sulfur 6 to 10 lbs. per 100 gals. Wettable sulfur, 5 to 10 lbs. per 100 gals. may be added to either of the above.

II. Apply 2 to 3 weeks after bloom has shed. (See footnote on copper spray). Use either bordeaux 1½-1½-50 or its fungicidal equivalent in other forms of copper which have been proven satisfactory. As a rule mineral oil spreaders are not used in this application but some spreader should be included. Wettable sulfur 5 to 10 lbs. per 100 gals. may be added for the control of scale crawlers and rust mites.

III. Apply 3 to 6 weeks after II if no wettable sulfur was used in II, but 6 to 8 weeks if wettable sulfur was used. Use either (1) Liquid lime-sulfur 2 gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 5 to 8 lbs. per 100 gals. plus wettable sulfur as above, or (3) Sulfur dust.

IV. May through August, but May 15 to July 15 preferred. If scale are numerous use oil emulsion, 1 to 1 and two-thirds per cent. actual oil. **Note: Use dilution recommended by manufacturer of oil used. See footnote on oils.** If scale are scarce use either (1) Liquid lime-sulfur 1¼ to 1½ gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 4 to 6 lbs. per 100 gals. plus wettable sulfur as above, or (3) Sulfur dust as needed, if oil is used and rust mites appear before August.

V. September 20 to October 15. Use either (1) Liquid lime-sulfur at 1¼ to 1½ gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 4 to 6 lbs. per 100 gals. plus wettable sulfur as above, or (3) Sulfur dust. If scale are numerous use oil emulsion 1 to 1 and two-thirds per cent. actual oil in September or October. **Note: Use dilution recommended by manufacturer of oil used. See footnote on oils.** Sulfur dust should be used on early fruit.

VI. December or January, if rust mites are numerous. Use either (1) Liquid lime-sulfur 2 gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 5 to 8 lbs. per 100 gals. plus wettable sulfur as above.

SCHEDULE C **FOR THE CONTROL OF SCALE, WHITEFLIES, RUST MITES AND RED SPIDERS WHEN NEITHER SCAB NOR MELANOSE IS IMPORTANT**	SCHEDULE D **USE FOR RUST MITES ONLY**
I. Omit dormant spray.	I. Omit dormant spray.
II. March 20 to April 10. Use either (1) Liquid lime-sulfur 2 to 2½ gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 5 to 8 lbs. per 100 gals. plus wettable sulfur as above. **This spray is very important.**	II. March 20 to April 10. Use either (1) Liquid lime-sulfur 2 to 2½ gals. per 100 gals. plus 3 to 6 lbs. wettable sulfur, or (2) Dry lime-sulfur 5 to 8 lbs. per 100 gals. plus wettable sulfur as above, or (3) Sulfur dust. **This application is very important.**
III. Three to 8 weeks after II, **if rust mites appear.** Use either (1) Liquid lime-sulfur 2 gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 5 to 8 lbs. per 100 gals. plus wettable sulfur as above, or (3) Sulfur dust. Use sulfur dust instead of spray if oil emulsion is to be used in IV, below.	III. May 10 to June 10. Use either (1) Liquid lime-sulfur 2 gals. per 100 gals. plus 3 to 6 lbs. wettable sulfur, or (2) Dry lime-sulfur 5 to 8 lbs. per 100 gals. plus wettable sulfur as above, or (3) Sulfur dust as needed.
IV. May through August, but May 15 to July 15 preferred. If scale are numerous use oil emulsion, 1 to 1 2/3% actual oil. **Note: Use dilution recommended by manufacturer of oil used. See footnote on oils.** If scale are scarce use either (1) Liquid lime-sulfur 1¼ to 1½ gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 4 to 6 lbs. per 100 gals. plus wettable sulfur as above, or (3) Sulfur dust as needed if oil is used and rust mites appear.	IV. During summer if rust mites appear. Use either (1) Liquid lime-sulfur 1¼ to 1½ gals. per 100 gals. plus 3 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 4 to 6 lbs. per 100 gals. plus wettable sulfur as above, or (3) Sulfur dust as needed.
V. September 20 to October 15. Use either (1) Liquid lime-sulfur 1¼ to 1½ gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 4 to 6 lbs. per 100 gals. plus wettable sulfur as above, or (3) Sulfur dust. If scale or whiteflies are numerous substitute oil emulsion 1 to 1 2/3% actual oil in September or October. **Note: Use dilution recommended by manufacturer of oil used. See footnote on oils.**	V. September or October. Use either (1) Liquid lime-sulfur 1¼ to 1½ gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 4 to 6 lbs. per 100 gals. plus wettable sulfur as above, or (3) Sulfur dust as needed.
VI. December or January, if rust mites are numerous. Use either (1) Liquid lime-sulfur 2 gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 5 to 8 lbs. per 100 gals. plus wettable sulfur as above.	VI. December or January, if rust mites are numerous. Use either (1) Liquid lime-sulfur 2 gals. per 100 gals. plus 5 to 10 lbs. wettable sulfur, or (2) Dry lime-sulfur 5 to 8 lbs. per 100 gals. plus wettable sulfur as above.

FOOTNOTES: In addition to Bright Fruit, other benefits of a complete spray program include: **Less Dropping of Fruit; Less Breakdown of Fruit in Packing and Shipping; Decreased Pruning Costs, and Increased Regularity of Better Crops.**

THOROUGHNESS OF APPLICATION: All spray and dust applications should be made with thorough coverage of foliage and fruit in mind. Lack of coverage reduces efficiency of any spray or dust material. This is particularly true in connection with scale control, as limbs and branches must be covered as well as the foliage.

Too little sulfur dust is commonly used, ½ to 1½ pounds per tree per application should be applied, preferably when the air is calm.

COPPER SPRAYS: Bordeaux 1½-1½-50 is recommended for post bloom sprays in preference to 3-3-50 since experimental evidence indicates that under practically all conditions the lower concentration is preferable. Under conditions in which melanose has been very persistent in past years or in very wet springs, it may be desirable to repeat the application 4 weeks later or to substitute 3-3-50 at the first application in A II and B II. On oranges, in dry springs, this application may be made between April 20 and May 10 when only one spray is applied. No method of melanose control is really efficient unless the trees are reasonably free of dead wood.

All copper sprays are more effective when a spreader is included. Oil emulsions in small quantities are good spreaders but under some conditions other spreaders are preferable. There are several good spreaders on the market, some of which are better for some types of sprays and applications than they are for others. Consult your field man if in doubt about the spreader to use in any particular spray. Some wettable sulfurs have highly efficient spreaders embodied in them and where such sulfurs are used, no additional spreader is needed. **Do not add lime-sulfur to copper sprays.**

SULFURS: Liquid lime-sulfur, wettable sulfur or dry lime-sulfur should not be used in combination with oil emulsions, unless recommended especially by the manufacturer. Use dry lime-sulfur dilution recommended by manufacturer within ranges specified in this schedule.

Any application of sulfur should not be closer than 3 weeks to an oil application and this period may need to be extended in dry or cool weather. The wettable types of sulfur are less caustic than lime-sulfur, and for that reason amounts of same are increased and the quantity of lime-sulfur is decreased as the season grows warmer.

Tangerines are very susceptible to spray damage during late winter and early spring, and if rust mites and six-spotted mites are present on foliage during this period use dusting sulfur instead of a spray.

OILS: The oils used in the manufacture of oil emulsions vary in chemical composition and physical characteristics. It is consequently important that the recommendation of the manufacturer be followed for the particular oil emulsion used.

For effectiveness with oil sprays the foliage should be dry and thorough coverage is essential. Do not apply oil spray when trees are wilted or near wilted; also oil sprays applied after November increase the susceptibility of trees to cold injury. Oil applied under either of these two conditions may cause severe leaf drop. Oil applied after July 15 on tangerines, August 15 on early fruit, or September 30 on mid-season or late fruit may interfere with coloring.

ZINC. Zinc sulfate in various types of sprays has been very effective in controlling "frenching." Apply preferably January 1 to June 1. General recommendations: 5 pounds 89% zinc sulfate or equivalent, 2½ pounds hydrated lime to 100 gallons water, use spreader. Dissolve zinc sulfate slowly in tank first, then add lime. In case of mild frenching reduce to 4 and 2 pounds respectively. Lime sulfur or bordeaux may be added to the above. Do not apply with ripe Valencias on the tree. Be prepared for scale control after zinc sprays.

SPECIAL RECOMMENDATIONS: Research has shown that the best times to control scale, rust mites, whiteflies and red spiders are as follows:

Late March Early April	Late June Early July	Late September Early October

The most effective control of scale is obtained during the June and July period. Summer control of scale is very important especially on early maturing varieties. See IV on all schedules. The dates given above are applicable mainly to central Florida. Modifications will have to be taken into consideration for extreme south Florida and the northern part of the citrus belt.

SPECIAL POINTS ON RUST MITES AND SIX-SPOTTED MITES: Winter damage caused by mites may be severe to mature fruit. This emphasizes the importance of application VI on all schedules. If applications I to IV inclusive are thoroughly made, it may in some instances be possible to omit application V with little damage to the crop.

RED SPIDERS: This is a group name and includes both the six-spotted mite and the purple mite. The former is practically always found on the under side of the leaf and causes a yellow spotting and sometimes a distortion of the leaf; in cases of severe infestations a heavy droppage of leaves may occur. The latter causes a slatey discoloration of the foliage and fruit.

APHIDS: Aphid control is particularly important on young trees, older trees that are slow in growing and sparse of foliage, or where infestation is very heavy during blooming period. If control is necessary, it should be done while infestation is light and foliage young. If large percentage of leaves are curled or growth nearly mature (4 to 5 inches long), control is not practical. **Coverage is very important. Schedule:** January and February—Spot spraying or dusting for small colonies. March and April—Spray or dust before many leaves are curled. Use either (1) 3% nicotine-lime dust, applied during calm weather, or (2) Nicotine sulfate 1-2400 plus oil emulsion at ½% oil, or (3) Nicotine sulfate 1-2400 plus a highly sulphonated oil specially prepared for this purpose at 1-130, or (4) Nicotine sulfate 1-1600 plus liquid lime-sulfur 1-60 plus 5 pounds wettable sulfur per 100 gallons, or (5) Nicotine sulfate 1-800 plus 1 to 2 pounds soap, depending on the kind used and the hardness of the water. Rotenone, and pyrethrum derivatives are also effective and for these use dilution recommended by the manufacturer.

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THIS PROGRAM compiled by Advisory Committee to the Florida Citrus Commission, consisting of representatives of the Commission itself, the Florida Citrus Experiment Station, Florida Agricultural Extension Service, United States Department of Agriculture, Florida State Plant Board, Florida State Horticultural Society, professional consultants and commercial firms. The schedule is for this season only; schedule for next season may be modified depending on information developed meanwhile. Changes in times of making applications may be caused by variation in seasonal conditions. The Advisory Committee will try to advise the public in such event, when possible, the Committee recommending the development in future years of a state-wide scouting service to make this feature of the program more effective.

For additional information see your County Agent, Packing House Manager, Salesman, Field Man, Consultant, or write the Florida Citrus Commission at Lakeland, Agricultural Experiment Station or Extension Service at Gainesville, the United States Department of Agriculture Laboratory at Orlando, or the Citrus Experiment Station at Lake Alfred.

FLORIDA CITRUS COMMISSION

LAKELAND, FLORIDA

(See "THE BETTER FRUIT SPRAY AND DUST PROGRAM OF THE FLORIDA CITRUS COMMISSION," page 26 of these Proceedings)

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