

PROCEEDINGS
OF THE
Nineteenth Annual Meeting
OF THE
Florida State
Horticultural Society

HELD AT

Jacksonville, May 1, 2 and 3, 1906

COMPILED BY THE SECRETARY
Published by the Society

DELAND, FLORIDA:
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1906.

CONSTITUTION.

ARTICLE 1. This organization shall be known as The Florida State Horticultural Society, and its object shall be the advancement of horticulture.

ARTICLE 2. Any person may become a member of the Society by subscribing to the Constitution and paying one dollar. Any person may become a Life Member of the Society by subscribing to the Constitution and paying ten dollars.

ARTICLE 3. Its officers shall consist of a President, three Vice-Presidents, Secretary, Treasurer and Executive Committee of three, who shall be elected by ballot at each annual meeting. After the first election, their term of office shall begin on the first day of January following their election.

ARTICLE 4. The regular annual meeting of this Society shall be held on the second Tuesday in April, except when otherwise ordered by the Executive Committee.

ARTICLE 5. The duties of the President, Vice-Presidents, Secretary and Treasurer shall be such as usually devolve on those officers. The President, Secretary and Treasurer shall be, ex-officio, advisory members of the Executive Committee.

ARTICLE 6. The Executive Committee shall have authority to act for the Society between annual meetings.

ARTICLE 7. The Constitution may be amended by a vote of two-thirds of the members present.

BY-LAWS.

1. The Society year shall be co-extensive with the calendar year, and the annual dues of members shall be one dollar.

2. All bills authorized by the Society or its Executive Committee, for its legitimate expenses, shall be paid by the Secretary's draft on the Treasurer, O. K.'d by the President.

3. 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.

Florida State Horticultural Society.

OFFICERS ELECT FOR 1907:

PRESIDENT:

C. T. McCARTY, Eldred.

VICE-PRESIDENTS:

PROF. P. H. ROLFS, Lake City; F. G. SAMPSON, Boardman;
F. D. WAITE, Palmetto.

SECRETARY:

E. O. PAINTER, Jacksonville.

TREASURER:

W. S. HART, Hawks Park.

EXECUTIVE COMMITTEE:

E. S. HUBBARD, Federal Point; G. L. TABER, Glen St.
Mary; O. W. CONNOR, Tangerine.
President, Secretary and Treasurer, ex-officio.

STANDING COMMITTEES.

CITRUS FRUITS.—M. S. Burbank, Miami; G. M. Wakelin, Lane Park; G. W. Adams, Thonotosassa.

DISEASES, INSECTS AND METHOD OF CONTROL.—E. A. Bessey, Sub-Tropical Laboratory, Miami; H. Harold Hume, Glen St. Marys; A. H. Brown, Manavista; T. P. Drake, Yalaha; C. B. Thornton, Orlando.

PEACHES, PLUMS AND PEARS.—Aubrey Frink, Macclenny; C. C. Shooter, Earlton; Richard Klemm, Winter Haven.

GRAPES, FIGS AND KAKI.—Prof. P. J. Westes, Miami; W. C. Steele, Switzerland; J. E. Bacon, Ormond.

PINEAPPLES AND OTHER TROPICAL FRUITS.—E. N. Reasoner, Oneco; W. R. Hardee, Jensen; D. W. Penny, Ft. Myers.

ORNAMENTALS.—Prof. H. Nehrling, Gotha; W. J. Ellsworth, Jessamine; Mrs. E. C. Hubbard, Federal Point.

FERTILIZERS AND IRRIGATION.—E. S. Hubbard, Federal Point; A. A. Boggs, Coconut Grove; W. N. Gist, McIntosh.

NUT CULTURE.—Dr. J. B. Curtis, Orange Heights; J. A. Bear, Palatka; H. E. Stockbridge, Lake City.

STRAWBERRIES AND MISCELLANEOUS.—C. L. Peck, Starke; E. E. Cannon, Gainesville; J. C. Kingsbury, San Antonio.

VEGETABLES.—E. V. Blackman, Miami; H. H. Chappell, Sanford; A. A. Fannie, Coleman.

SPECIAL REPORTS.—Prof. P. H. Rolfs, Lake City; Dr. A. F. Woods, Washington, D. C.; Prof. C. M. Connor, Lake City.

List of Members.

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 Switzer, W. A., Port Tampa City, Fla.
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 Tarter, C. R., City Point, Fla.
 Tatnall, Richard R., Punta Gorda, Fla.
 Taylor, G. R., St. Petersburg, Fla.
 Taylor, Dr. J. L., St. Petersburg, Fla.
 Taylor, Dr. J. N., Jacksonville, Fla.
 Taylor, Miss Kittie, Huntington, Fla.
 Taylor, Mrs. N. L., Huntington, Fla.
 Terwilleger, A. M., Mims, Fla.
 Thomas, Robt., St. Petersburg, Fla.
 Thompson, C. H., Winter Haven, Fla.
 Thomsen Chemical Co., Baltimore, Md.
 Thompson, W. B., Oneco, Fla.
 Tillinghast, B. F., Davenport, Iowa.
 Tischler, P., Jacksonville, Fla.
 Tompkins, Mrs. T. W., Ft. Pierce, Fla.
 Townsend, C. W., Pittsburg, Pa., 28 Penn.
 Ave., care of Fulton Mfg. Co.
 Townsend, C. Morot, Philadelphia, Pa.
 Tonner, W. E., Steubenville, Ohio.
 Truby, J. M., Starke, Fla.
 Trueman, R. B., Jacksonville, Fla.
 Tucker, R. N., Orange City, Fla.
 Turner, J. P., New Smyrna, Fla.
 Upham, E. S., South Lake Weir, Fla.
 Van Duzie, Col. C. A., St. Paul, Minn.
 Van Gorder, W. D., St. Petersburg, Fla.
 Van Wyck, Miss Marn, Federal Point, Fla.
 Veillard, R., St. Petersburg, Fla.
 Von Luttichau, H., Earlington, Fla.
 Walden, T. D., Highland, N. C.
 Walker, G. W., Huntington, Fla.
 Walker, Mrs. G. W., Huntington, Fla.
 Walker, W. E., Huntington, Fla.
 Walton, W. E., Miami, Fla.
 Wakelin, Amos, Lane Park, Fla.
 Wakelin, G. M., Lane Park, Fla.
 Wakelin, Mrs. G. M., Lane Park, Fla.
 Wakelin, Miss Grace V., Lane Park, Fla.
 Warner, F. D., Gainesville, Fla.
 Warner, Harry, Port Tampa City, Fla.
 Warner, S. C., Palatka, Fla.
 Warnock, W. A., Oak Hill, Fla.
 Warren, G. W., Herradura, Cuba.
 Watts, B. F., Leesburg, Fla.
 Walden, Walter, Miami, Fla.
 Weeks, G. M., Glen St. Mary, Fla.
 Wells, W. T., Melbourne, Fla.
 Westlake, J. Willis, Lake Helen, Fla.
 White, Miss L., Dupont, Fla.
 White, W. Duncan, Mandarin, Fla.
 Whitnall, R. F., Avon Park, Fla.
 Wightman, L., Tampa, Fla.
 William, E. W., Jensen, Fla.
 Williams, H. S., Rockledge, Fla.
 Wilson, J. A., San Juan, P. R.
 Winge, J. Porto Alegre, Brazil.
 Woods, F. A., St. Petersburg, Fla.
 Wood, Geo. H., Tangerine, Fla.
 Woolwine, E. M., Seville, Fla.
 Wyckoff, John S., Citra, Fla.
 Wylie, J. H., Interlachen, Fla.
 Webb, F. F., Winter Haven, Fla.
 Wilson, W. N., Gainesville, Fla.
 Yocum, W. F., Lake City, Fla.

PROCEEDINGS
OF THE
NINETEENTH ANNUAL MEETING
OF THE
Florida State Horticultural Society.

The Nineteenth Annual Meeting of the Florida State Horticultural Society was held in the Auditorium of the Windsor Hotel commencing on the evening of May 1st 1906.

The opening meeting was unusually well attended and the different addresses were greatly appreciated by the audience. Notwithstanding the weather during the three days was intensely hot the sessions were fairly well attended.

The latest introduction into the Society was the "Question Box," and it proved quite interesting, as will be seen by the printed questions and answers in this report. This is a feature that the members can take advantage of, even if they are not in attendance, by sending their questions to the president by mail, which

will be opened and answered during the sessions.

The Board of Trade delighted the members with another one of its famous musicales, rendered by the "Ladies Friday Musicale." So very popular are these musicales that the commodious hall of the Board of Trade building was packed to standing room.

There was a spirited contest when the question of the next place of meeting came up, between those who wanted to come again to Jacksonville and those who preferred to visit other parts of the State. St. Petersburg was well represented, and won the day, so that the Twentieth Annual Meeting will be held in the "Gem City of the West Coast."

Minutes.

FIRST DAY.

EVENING SESSION.

1. Call to order by President C. T. McCarty.
 2. Opening Prayer by Rev. Dr. Hobson.
 3. Address of Welcome on behalf of the city by Hon. D. U. Fletcher.
 4. Address of Welcome on behalf of the Board of Trade by Capt. C. E. Garner.
 5. Response for the Society by G. L. Taber, Glen St. Mary.
 6. Annual Address of the President, C. T. McCarty, Eldred.
 7. Social Hour-Meetings and greetings. Plans and purposes. Introduction of Jacksonville people to members from all parts of the State.
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SECOND DAY.

MORNING SESSION.

1. Address on "Nematode Diseases" by Prof. Earnest A. Bessey, Pathologist in charge of Florida Sub-Tropical Laboratory, Miami, Fla.
2. Report of Standing Committee on Citrus Fruits.
3. Report of Standing Committee on Diseases, Insects, and Method of Control: M. F. Rolfs, Lake City; W. S. Hart, Hawks Park; F. G. Sampson, Boardman; E. S. Hubbard, Federal Point.

AFTERNOON SESSION.

1. Address by Prof. P. H. Rolfs, Lake City, Director Florida Experiment Station: "The Experiment Station Co-operative Work."
 2. Report of Standing Committee on Peaches, Plums and Pears.
 3. Report of Standing Committee on Grapes, Figs, and Kaki: B. M. Hampton, St. Augustine; J. E. Bacon, Ormond; A. J. Pettigrew, Manatee.
 4. Discussions.
 5. Question Box.
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EVENING SESSION.

1. Report of Standing Committee on Pineapples and other Tropical Fruits: W. R. Moses, West Palm Beach; P. H. Rolfs, Lake City; J. D. Bell, St. Petersburg.
 2. Paper on "Some Notes on Pineapple Experiments at Jensen" by W. A. Blair, Florida Experiment Station, Lake City.
 3. Discussions.
 4. Question Box.
 5. Entertainment, 8:30. Ladies' Friday Musicales.
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THIRD DAY.

1. Report of Standing Committee on Fertilizers and Irrigation; Prof. Flint, Lake City; L. A. Wilson, Jacksonville;

F. D. Waite, Palmetto; L. Heimberger, Tallahassee.

2. Report of Standing Committee on Nut Culture: H. K. Miller, Monticello; J. H. Wylie, Interlachen; C. F. Barber, Macclenny.

Paper: "Florida Immigration—What Shall It Be," by Capt. R. E. Rose, State Chemist, Tallahassee, Fla.

3. Question Box.

Executive Committee—E. S. Hubbard, G. L. Taber, O. W. Connor.

3. St. Petersburg selected as the next place of meeting.

4. Report of Secretary, Treasurer and Executive Committee.

5. Report of Committee on resolutions.

6. Question Box.

AFTERNOON SESSION.

1. Paper on "Geology of Florida in Relation to Its Artesian Water Supply" by Prof. E. H. Sellards, Lake City, Fla.

2. Election of Officers.

President—C. T. McCarty.

Vice-Presidents—P. H. Rolfs, F. G. Sampson, F. D. Waite.

Secretary—E. O. Painter.

Treasurer—W. S. Hart.

EVENING SESSION.

1. Report of Standing Committee on Ornamentals: Mrs. G. S. Gates, Welaka; W. C. Steele, Switzerland.

2. Entertainment, Recitations by Mrs. G. S. Gates.

3. Report of Standing Committee on Legislation.

4. Report of Special Committee on Resolutions.

Addresses of Welcome.

BY HON. D. U. FLETCHER.

Mr. Fletcher spoke extemporaneously and rather rapidly, so we are only able to give more than an outline of his happy and well received address.

Among other things he said: A day or two ago I received a letter from Secretary Painter informing me that he had called me up over the telephone and requested me to perform tonight, that he had printed the programs, putting my name on them and enclosed one, hoping I would be present. I told him that, under the circumstances, I would be here although the notice gave me no chance for any preparation. I approve of the Secretary's way, however. He accomplishes what he wants and in the easiest, most satisfactory manner. He gets his speaker and the latter has no time to make excuses or get nervous.

There is nothing the Horticultural Society could ask of me that I would not make an effort to grant. We give you a warm welcome, but the weather seems inclined to over-do the thing. It is unnecessary for me to emphasize the warmth of our greeting, and I assure you that is equally true of its sincerity.

I would feel very much more at home probably discussing some other subject than Horticulture. If our friend Painter should sell a lot of fertilizer and accept a four months note in payment, which he negotiated at the bank, and the parties refused to pay on the ground the fertilizer was not beneficial, I could say whether or

not he would have it to pay; or if Mr. Taber should send out nursery stock to be paid for at a certain time, reserving the title to the trees, I might answer as to whether or not the purchaser could keep the trees without paying the price as agreed.

If this were an agricultural gathering I would be much more at home. I have had some experience raising nubbin corn and bumble bee cotton. Nubbin corn is that kind too poor to shuck, and the cotton referred to is the kind which a bumble bee can suck the top blossom off while sitting on the ground. You have heard of the Doctor who had a patient with fever, and after doing all he could for him, he gave him some medicine at last that threw the patient into convulsions and when asked why he did so, he stated that he had treated him for days and days for fever and he did not know how to cure the fever, but he did know how to cure fits and so was giving him something to throw him into fits. If I could change this Convention into an *Agricultural* Convention there are many things I could speak of from experience.

Horticulture is a kind of high toned agriculture, or the *elite* of agricultural pursuits. I imagine this thing of standing on the shady side of an orange tree and watching its beautiful leaves and enjoying its odoriferous flowers while cultivating it, following it as the sun moves

from one side to the other, is very much better and more pleasant than chopping cotton or plowing corn out in the open, where the unobstructed rays of the sun beat upon you, and no prospect pleases.

There can be few things more important than this great industry you are developing and fostering. As we recall in 1899, the value of the fruit products of the United States was \$131,000,000 and the vegetable products, not including potatoes was \$131,000,000, and we exported over \$9,000,000 worth during that year. The life of the Horticulturist is one of the most joyous and free allotted to man. If we did not have any freezes, or if we could avoid the consequences of them; or if we were not troubled with foot rot, and if the white fly would leave us alone, and if it rained when it should and ceased when it ought, and if we had satisfactory transportation, and if we could hit the market right, and if we were given proper treatment by consignees, and if a few other things happened, or didn't happen, your meetings would partake more of the nature of an annual celebration and you would be touring the country in automobiles.

Now, this is the reason you are here; the purpose of this organization is to surmount the obstacles of this little word, "if." There can be no better or higher purpose of any organization. To solve the questions how to preserve for the human race the necessary food products is a work worthy the brightest minds, the greatest skill, the most persistent industry. It demands the highest and best activities of the most gifted men and women. It calls for the exercise of judgment. It proceeds upon investigation and study. It must have the knowledge born of experience.

We read of the great scientists and statesmen who have won distinction and whose names will be known as long as we have history, but I would ask you whether Copernicus, Gallileo, Michael Angelo, or Isaac Newton accomplished more for the world than the men who have made, developed, and placed on our tables our fruits, flowers and vegetables in their perfection. Of these great scientists who have won distinction, is there any one more entitled to fame than the man who introduced and developed the potato, apple, peach, rose, or made the white blackberry and the spineless cactus. Is there one more entitled to fame or to whom mankind is more indebted than to Luther Burbank, the American naturalist?

Our Legislature meets every two years and passes laws affecting the welfare of the people of this State; there is no more important matter which can command the attention of our law makers and officials than the requests of this Society. I can conceive that you might be aided in your efforts by legislation along certain lines and surely there will be found patriotism and public spirit sufficient to give a hearty response to your appeal and a generous support to your work. There is no more important organization in this State than yours, and your work for the industrial development of Florida and for the material welfare of her people should meet with every encouragement from every quarter.

It is a great pleasure to welcome you here—peculiarly wholesome and joyous and an honor to come in touch with the noble men and women from all portions of the State, who live nearest the fountain of life in the Divine Economy!

Jacksonville recognizes that whatever makes for the prosperity of any portion

of the State is a thing to be desired. She has no prejudices—she reaches out to all sections and would promote the good of each. She loves all the people of the whole State and would have them pros-

per and their various undertakings and enterprises succeed. In this spirit she wishes your meeting here may be profitable, and again bids you welcome.

ON BEHALF OF THE BOARD OF TRADE.

BY CAPT. C. E. GARNER.

Mr. President, Ladies and Gentlemen:

In behalf of the Board of Trade and representing the business interests of our city, it is again my pleasure to extend to you Mr. President, the officers, and to every member of the Florida State Horticultural Society, a most hearty and sincere welcome.

I had in mind telling you a great many things. I had conceived of a magnificent oration, expressing my personal sentiments of the Horticultural Society, of its splendid work in behalf of our beloved State, and I also had in mind telling you something of the progress and prosperity of our city; but, to use the yachting phrase, "my little craft has had the wind taken out of its sails" by the eloquence of the gentleman who has just preceded me.

If any one in this audience thinks they can follow the Hon. D. U. Fletcher along the same lines, and especially in the matter of delivering an address of welcome, and say anything original, or anything appropriate to the occasion which has not already been said, I would like for him to step up on this platform and take my place because I feel utterly unable to conceive of anything that is appropriate that would not be a reiteration of what had been stated.

I wish, therefore, to simply express my high appreciation not only of the Horticultural Society as an organization but of the Horticulturists of the State of Florida.

Probably no man within the bounds of the State has been brought in closer contact with them than myself. It is not an acquaintance of a few days or a few years but for a quarter of a century I have known them, and know them intimately, and I wish on this occasion to say that they are in my judgment the bravest, most heroic class of people in this country.

I know of their struggles, I have seen them under all circumstances, of prosperity and adversity, chiefly the latter, and if you wish to measure the heroism of people you must be acquainted with them under all conditions, and I know of no people who have withstood adversity with a braver spirit than have the Horticulturists of this State.

You talk about the rebuilding of your city, the rebuilding of Baltimore, the rehabilitation of San Francisco from the terrible disaster that has just befallen that fair city, I have in mind the struggles of your horticulturists against all sorts of unfavorable conditions and disasters. They have been attacked by the white fly, that threatened their industry; the red

ant, foot-rot, blight, drought, and in some instances too much moisture. They have seen the result of the labor of years leveled to the ground and have surmounted all these and have never appealed, received aid, nor had any insurance, but have gone bravely to work replanting, and today it can be truthfully said that never in the history of the State have the horticultural interests been in as good condition.

I am reminded of an old friend of mine who came to Florida in the early eighties, bought a piece of land on the banks of the St. Johns River, planted a grove and expected it to support him the balance of his days without any further effort on his part. He used to confide his troubles in me, and he was of an optimistic turn of mind. If his crop was a partial failure he would say "Well, that is not altogether bad because I will get better prices." When he lost the entire crop he said, "Well, it is not altogether bad because I can bud better varieties in the stumps. I am learning every day." Said he was going to protect his grove against frost in the future. There was never any disaster so great but in his mind it might have been worse. He was really typical of the average horticulturists of Florida as I have observed them, and he reminds me somewhat of a story that I heard about a man who went out West and engaged in the growing of stock. After being away about ten years he came back and one day walked into the store of an old friend who said "Well, John, where have you been?" John replied "out West."

"How have you been getting along?"

"Well," he said, "not so very good and not so very bad."

"What have you been doing," inquired the friend.

"I went into the sheep business."

"Well," said the friend, "that is good."

"Well," said John, "not so very good because the sheep all died."

His friend said, "Well that is bad."

"Not so very bad," said John, "because a rich widow sympathized with me in my misfortune and I married her."

"Well," his friend said, "that's good."

John said, "Well, not so very good because she was a regular virago and had a terrible temper."

"Well," his friend said, "that's bad."

"Well," said John, "not very bad because she built a great big fine house."

The friend remarked, "Well, that certainly was good."

"No," said John, "not so very good because the house burned down."

The friend said, "Well," that certainly was bad."

"No," said John, "that was not so very bad because the woman was consumed with the house."

So it is with my friend. He says now that he sees a great many good things that have grown out of the freeze. He had diversified his crops; is more prosperous possibly than if the freeze had not occurred, and he and the other horticulturists of the State, who are a people that adversity cannot overcome, and that no amount of prosperity can spoil, are entitled to all the success that should come to intelligence, industry, perseverance, and courage.

Response to Addresses of Welcome.

BY G. L. TABER.

Mr. President, Ladies and Gentlemen:

In a Society like ours there are sometimes pleasant duties to perform and the task you have assigned me, of replying to these generous words of welcome, is amongst these pleasant ones. During our annual meeting some of our members are called upon to speak on certain well defined subjects, assigned them in advance that have to do with the different phases of Horticulture; and while these duties, never considered onerous, are generally cheerfully complied with, the members who make these Committee Reports, as well as others that follow in discussion, are supposed to confine themselves, rather closely, to the subject in hand. In my case, however, Mr. President, it is different, for custom has decreed, wisely or unwisely, that more than the three words "We thank you" is expected of him who makes response to an Address of Welcome; and this, notwithstanding all the heart-felt sincerity with which those words can be imbued, or the emphasis with which they can be spoken.

And now, Mr. President, having defined my independent position, permitted to touch on few or many things, and these in a light or serious vein as my fancy dictates—I wish to tell a story. My story originated in a State some distance removed from Florida, namely. North Dakota.

An automobilist traveling through that untropical country found himself with a disabled machine and without proper tools to repair it.

He called at a near by farm house and asked the owner, a Swede, for a monkey wrench. The Swede replied that he had none. "Do you know of anyone in the vicinity who has a monkey wrench"? asked the traveler. "Nay" replied the Swede, "may bradder, 'bout eigh miles from hayer ban got cattle ranch, may bradder-law, Ole Olson, 'bout sex miles, ban got shape ranch; but Nort' Dakota too blame cauld for anybody keep monkey ranch." Now Mr. President notwithstanding the more favorable climatic conditions that exists here, I have never heard of a monkey ranch in Florida, and, even if there were, I take it that you would rule its discussion out of order unless introduced in some Horticultural connection, such as "Anima(1a)ted Ladders," "monkeys as orange pickers" or "The horticultural possibilities of our friend and one time relative, the monkey." Mr. President upon mature consideration I am convinced that even under any such horticultural disguises as those mentioned, further consideration of the subject would be bootless. I therefore request you that all future allusion to the subject be barred and particularly that no monkey business be allowed to enter the question box—which will be opened later.

Mr. President, there is one danger that always besets a man who is tempted to make humorous remarks and that is that having made them (provided always that his hearers interpret them as such) he finds it rather hard work to get back on

to serious ground; or at least to convince his audience that the lighter vein has been abandoned. I wish to assure you, however, that the remaining words I have to say are strictly and sincerely serious.

Eighteen years ago the Florida State Horticultural Society was organized at Ocala. By a coincidence the figures eighteen also represent the number of our charter members. Of these just one-half have since passed into the Great Beyond. Of the remainder some have removed from the State, others are incapacitated by sickness, and a survey of this audience fails to reveal the presence at this meeting of a single conferee who assisted me at the birth of this Society. Looked at from the standpoint of losses of illustrious members, both of those who were with us at the beginning and others who joined afterwards, retrospection carries with it so much of sadness that I hasten to turn to the brighter side. That there is a brighter side is plainly evinced by the fact that notwithstanding our heavy losses by death and otherwise our last annual report showed a membership of 519. While the majority of these are located in the State, yet a review of the addresses shows that in addition to Florida, seventeen States and nine foreign countries are represented in our membership, as follows:

States: Connecticut, Georgia, Indiana, Illinois, Iowa, Louisiana, Massachusetts, New York, New Jersey, North Carolina, Ohio, Pennsylvania, Rhode Island, South Dakota, Texas and Vermont.

Foreign Countries: Australia, Asia, Cuba, Hawaii, Jamaica, Mexico, New Zealand, Porto Rico and South Africa.

Now, Mr. President, it is not my purpose to go into detail of what this Society has accomplished. Our comprehensive annual reports, published for many

consecutive years past, contain full records of our efforts and our accomplishments. But I make the broad assertion that no other State Horticultural Society in America has done more toward furthering the horticultural progress of a State and that none other can show such an interest in its work as evinced by a worldwide membership. I wish also, Mr. President, to call the attention of these gentlemen, who have so kindly welcomed us, to the fact that what we have accomplished we have done within ourselves, without outside help. The only exception to this statement is that a dozen years ago, for two years in succession, 1893 and 1894, our proceedings were published by the State Department of Agriculture, through Hon. L. B. Wombwell, Commissioner. While many State Societies have looked to liberal legislatures to assist them in their efforts toward upbuilding the Horticultural interest of their States, we have looked only to our own membership; whatever assistance has been necessary has, with the exception already cited, come from within our ranks.

Now, Mr. President, I believe this is all wrong. The fault may have been with ourselves in not having sufficiently appreciated or urged our claims, but I believe the time has come when we should ask, and should receive, from the Florida Legislature appropriations which shall in some measure relieve the, approximately, five hundred members of this Society from carrying on at their own expense a work that is of so much benefit to every one of the more than 500,000 people that comprise our population. For, Mr. President, it is so true as to be axiomatic that back of the lasting commercial prosperity of a country stands the producer, the one who evolves from Mother Earth her fin-

ished products; and just to the extent that he can throw safeguards around these productions, increase their quantity and improve their quality, just to that extent is the commercial prosperity of that country confirmed and enhanced.

I hold in my hand, Mr. President, a copy of the "Transactions of the Florida State Horticultural Society for 1905"—a fair sample of many that have preceded it. We have been issuing them annually ever since 1892. This copy of our transactions covers 132 pages of revised Horticultural advice obtained from experience—and experience that has to do with Florida conditions. It contains more than that. It contains 22 additional pages of catalogue, in which all the different fruits that are grown in Florida are listed in such a way as to give the comparative value of each variety to any given section of the State; whether it be Western North Florida, Eastern North Florida, Central Florida, or South Florida. The work entailed in getting out this annual edition in the creditable manner in which it is presented is unknowable except to someone who has had experience in this direction.

The price of the book, which also includes membership in the Society is \$1.00. If we have 500 annual, and say ten new life members (life memberships are \$10.00) our income for the year would be \$600.00, out of which we have to pay for stenography, secretary's salary, printing of the book, stationery, stamps and all minor expenses. The secretary's salary has in time past been, of necessity, so absurdly small, as compared with the work, that it has been repeatedly turned back into the Treasury by past secretaries, as a gift.

Not that we want or expect the secretary to do this; on the contrary we want sufficient funds provided from the source from which it should be provided, the State, to enable us to meet proper expenses in a manner that shall comport with our own dignity and that of the great Commonwealth we are trying to serve.

Mr. President, I think that you will pardon me if I say that I have had an almost, or quite, unequalled opportunity to know the amount of work performed by this Society. This from the double fact that I have been a member from the beginning, and that, since then, I have filled every office but one that it was in the society's power to confer. I was its first Secretary, then, successively, Vice-President, President, and now, a member of the Executive Committee. I have never yet been elected Treasurer, and know but one reason—or possibly two—why I have been overlooked in this connection. The first is that the handling of the society's funds is too easy a job, and the second—but perhaps I had better not allude to the second one.

Mr. President, our work has to do with the aiding, up-building and uplifting of Horticultural pursuits throughout our State. It is gratifying to know that we, as a society, are held in esteem both at home and abroad; and it is doubly gratifying to know that in this city of Jacksonville, where so many pleasant meetings have been held in the past, we are still received with open arms. To you gentlemen who in behalf of the City and the City's Board of Trade, have so cordially welcomed us, we feel profoundly grateful, and again say with heart-felt sincerity and with emphasis, we thank you.

President's Annual Address.

BY C. T. MCCARTY.

Members of the Florida State Horticultural Society, Ladies and Gentlemen:

This audience will forgive me while I indulge in some retrospection. It is worth while sometimes to lift the veil of the past and behold the achievements of the then actors. That picture reveals to us lessons which suggest progress, hope and advancement. At the outset of this address, it is well for me to take my bearings and to see what is the duty I have assigned myself. To see and to study the standards that have been set for me in the similar efforts of the past; to study the men and the times that have produced the annual addresses of the past eighteen years.

Our Society came forth almost full-fledged from its birth. In response to the demands of the times, it immediately took its place among the great Horticultural Societies of the age. Fortunately, it had as its first president, one of those rugged, fearless and intrepid characters that were transplanted, decades ago, from the great prairies of the Northwest to the tropical and subtropical conditions of our state. With the accumulated wisdom and experience of a life-time, he led the van in the early years of the society's history and led them with unvarying satisfaction and success. In its first decade it had become so prominent that it received and entertained with success some of the foremost scientists of this and other lands. The energy and persistence, the skill and

faith, the merit and the accomplishment of its first president, Dudley W. Adams, are now matters of history. After all it is acts not words, that count in the life impression one leaves upon his age and generation. Judge by this standard what a splendid life was his. It is my duty as well as my pleasure, to put on record the high appreciation this society feels today for its first president after he has for well nigh a decade, felt upon his face the breath of the Eternal morning.

Good foundations, like good principles and good practices, never fail to bequeath to subsequent generations their manifold blessings.

In studying the history of our Society during this period of eighteen years, I find impressed upon this latter half, the large-hearted, good-natured, genial personality and natural ability of its last president, George L. Taber.

How fortunate our Society was when called upon to bear a sudden vacancy in its Chief Executive, that one so able, so thoroughly equipped for its duties, so willing to bear and forbear, should be ready trained at hand. The annual addresses of President Taber always contained a message of importance to the Society. In times of progress and prosperity it brought congratulations and good-cheer. In times of adversity, it brought hope, courage and manhood, and faith in skill and science to overcome difficulties or adverse climatic conditions. His

cheery tones were ever on the side of optimism, were ever turning towards the bright side of the picture of horticultural struggle and endeavor in this state, were ever pointing to new means of combatting the elements, of overcoming the natural enemies of our chosen industries and bolstering up those of less faith and courage. Through all these annual addresses runs the constant tone of enlargement and improvement, constantly increasing in power, thought and literary finish, his last annual address became a fitting climax to the long series of addresses with which he has enriched the literature of our Society. I can well imagine his feelings when preparing his "Message from the Woods." Like that felt by Bryant when he wrote his *Thanatopsis*, when he gave to his age, in poetry, his conception of a proper appreciation of nature and natural surroundings. Like him feels John Burroughs, the nature lover, the poet and admirer of the brook, the field, the orchard and the forest. How much of beauty and poetic feeling and love of nature and nature's God are embodied in the president's last annual address, only future generations shall fully appreciate.

Of retrospection this is sufficient. The past at least is secure. Our Society having passed safely the rapids of its upper course and glided successfully along into its middle course, now moves forward in the direction of its lower and broader course. It has met the questions of the past. It has accumulated wisdom by experience. It should be, and doubtless it is today, well equipped to meet the questions of the present, to maintain the reputation of the past and to lay broad and deep foundations for the achievements of the future. The problems of to-

day are not more difficult than in the past, but they are more complex and diverse. There are in them a greater number of factors even if each factor is of less vitality. What message does the present bring to us?

What duty do we owe the today? What accomplishments can the tomorrow claim logically founded upon today? Are there messages that the horticultural conditions of the state at this moment require bringing to your attention? Fortunately we stand in the presence of no calamity. We do not surround, as we have sometimes done in the past, those conditions that buried the hopes of thousands of our people. But even those clouds had their silver lining, unseen then, but plainly visible now. We are in the midst of prosperity long continued and pronounced. Our industries have been enlarged both in number and in volume. Our output is greatly increased in every department of horticulture. Our sources of knowledge, our ability to handle the drawbacks, the pests and the evils of our diversified industries have been largely increased. What then is there to consider? It frequently happens that the most dangerous periods are those of greatest prosperity. It has been well said that, "Security is mortal's chiefest enemy."

In the line of thought I shall take tonight, I may be straying from the beaten path, may be leading the way into battle fields where the valiant, the sagacious and the steadfast of purpose alone can be found at the front. The commercial battles of the present dwarf into insignificance the battles with insects, with climatic conditions, with all our other obstacles combined. The struggle for new markets, for cheaper production, for fairer treatment by our agents in the markets,

for fair rates and rapid transit, do not these demand our attention and challenge the best brains among us? Of what avail is it that we devote our time and capital to the problems of production if the other and more complex problems of economy, distribution, transportation, receive not their proper attention? These things are as much a part of our legitimate business as the cultivation of the soil, the fertilizer we shall use or the various matters of every day occurrence. What man is there before me who has not felt like this? The season has been a good one, I have fertilized judiciously and wisely, I have cultivated, I have sprayed, I have spared no pains to produce a fine crop. How shall I market it to the best advantage? Have you not realized that you were then confronted with harder conditions than those of production and ones less within your control or management?

The original scope of our Society being much narrower than its present one curtailed the range of topics considered at our meetings to a very narrow margin. The original thought of the founders of this Society was to make it apply almost exclusively to orange growing, to citrus fruits and their allied subjects. As the years have come and gone its scope has been widened so that it now covers, not only semi-tropical, but also tropical fruits, vegetables and many of the fruits of the temperate zone. This enlargement of its sphere has injected into it new relations and new problems for annual consideration. Let us briefly discuss a few of the important items worthy of thought. This is an age of organization, co-operation and consolidation. It is not sufficient that the horticulturist of today knows how to produce the fruits and the products of the soil but that he knows as well how to

successfully transport, distribute and market them. Perhaps the largest field for present and future investigation is the one covering the problem of marketing. This problem involves the element of business experience and study of the relations of the cost of production and transportation to the market value of our products; the study of the laws of supply and demand as applied to each particular product; a study of the value of organization in the securing of reasonable and satisfactory rates of transportation; of the proper commissions to be paid our selling agents; and the proper distribution of the crop so as to prevent surplus in one portion of the country and deficiency in another. Were there no such thing as organized effort among those whose financial interests are opposed to ours there should be no necessity for organization on our part. The value of farmers and fruit growers' organizations is in direct proportion to the tenacity with which they adhere to them and the vigor with which they enforce the principles involved. I do not deem it necessary to go into arguments supporting the needs for compactly united organizations in each of our principal industries. The need for organization must be apparent to all. For greatest efficiency consolidation of all for the handling of problems common to all is only common sense. Questions like transportation, tariffs for protection, rates of commission and kindred broad matters can only be handled powerfully and conclusively in the hands of one central organization. The methods and direction taken by each interest must be dictated by themselves.

It can do no harm to crystallize among them, into some definite form the best ideas of the most intelligent and energetic of the growers, nor need it be be-

lieved that the only value in horticultural organization is that of the maintenance of the price or cheapening the cost of the production and the proper regulation of the matter of transportation. In numerous other ways organized effort is superior to individual effort. The tendency of the times is to the enlarged costs of the material used for the packing and package purposes, the costs of living and indeed, increased cost in everything that the horticulturist purchases. The only fair method of safeguarding the growers and producers' interests is to see that increased revenue accrues to him sufficiently to meet the increased cost of production as well as the cost of living and the necessities and luxuries of life.

Concurrent with this comes the thought of the reduced cost of production by better management, more intensive cultivation, decreased cost of fertilizing by taking advantage of cheaper sources of nitrogen and other kindred economies. All of these are well and should never be forgotten. The opening up of new fields of production have helped swell the volume of material in our markets and should set us to thinking of how to overcome this new competition.

The solution of these problems will call for the best thought, the best persistent effort and the most constant watchfulness of the thoughtful classes in our midst. Among the hopeful signs of the present are the cordial relations existing between the country and the city; between the producer and the carrier; between the producer and the consumer. In these better understandings of each others' relations we see the future solution of these problems. So long as the different classes understand and appreciate each other, realize their mutual inter-dependence on

each other, maintain their mutual respect for each other, that long will harmony and material prosperity exist. In passing, it might be said that the accentuation of the self-interests of the horticultural classes does not necessarily mean war upon or antagonism of any other interest.

The recent report of the U. S. Department of Agriculture calls attention to the enormous resources of American agriculture and horticulture. In comparison, all other interests combined sink into insignificance. The sums are so stupendous that we can scarcely realize their magnitude. Of this grand total we are a considerable part. It is just cause for congratulation that the importance, vitality and dignity of the horticultural classes is being recognized.

Do our horticultural classes sufficiently appreciate the value of and the necessity for diversification? Do we realize the full meaning of living at home? Is it not a fact that too great a proportion of the income from our products goes for that which can and should be grown in our own state and possibly in our own neighborhood? We hear it discussed on all hands, but have not acted on it vigorously. While this thought is trite, I risk once more calling the attention of our people to its vital importance.

I have felt strongly impelled at this meeting to press upon your attention these important matters. To give vent to the thought that has been growing in my mind for some years, that the most vital and far-reaching questions now calling for solution by Florida producers were not cultural questions but commercial ones; not planting but marketing; not fertilizing but transportation. Let us think about these things, talk about them, study them, conquer them. If this thought.

talk and study take not the form of action then have we labored in vain.

During the past few months, I addressed a circular letter to every member of the society, in which I asked for an expression of opinion on many matters of importance, and asked for suggestions. The replies have been numerous and my reward ample for the trouble I took. Much to enlighten and cheer the Society has come to me. Encouragement for the future, and splendid appreciation for the past of the Society has breathed from many of the much-valued letters received. I desire to thank you, most sincerely for these expressions of your better selves. In the quiet of your homes, you have said things that you would not say on the floor of this house. You have my promise to use the good suggestions in so far as I shall be able. These heart-to-heart letters shall bear fruit.

Among the weighty subjects discussed in those letters, was that of "State Aid" in the printing of our annual reports. A careful tabulation of the replies show about an equal number favoring and opposing the acceptance of such aid. Among those favoring, are some of our oldest and most thoughtful and experienced members. On the other side, can be found those of equal experience and wisdom. Some have cited other states in which State Aid is supposed to be the cause of their ruin as a society, while others point out other states in which it has had the opposite effect. The array of arguments pro. and con. is formidable and shows the ability and reasoning resources of our members. It is not my province or wish

to discuss the question or to express an opinion on it. If the matter comes up, all the reasoning, on all its sides and phases, will be developed and the society can then pass upon it intelligently. Without taking the time to discuss them here, I will say that many of the suggestions made by members will be carried out during the progress of the meeting, as they shall fit into our work.

We are to be favored by a number of eminent persons, with addresses and papers, during the progress of the meeting, as a glance at the program will show. Will these friends of the Society allow me to express, if ever so feebly, our sincere thanks for their kindness and our high appreciation of their valued efforts.

But, what of the work? We have six sessions before us, occupying two full days. We shall have seven formal addresses and papers. We shall listen to the reports of sixteen committees, and these reports will be ably and exhaustively discussed. In the course of these discussions will come out much of the real value of our gathering. Don't hesitate to stuff our "Question Box." Show me by your patronage of this box that you appreciate a chance to ask questions. Work, fast and furious, is our portion for the next few days. At the close of the meeting may we feel that we never had a better one. Amidst the friends of many years, in the city of hustle and progress, with words of welcome to inspire our efforts, with the social feasts before us, our tasks shall be light and their accomplishment assured.