

Minnesota State Horticultural Society Records.

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STATE HORTICULTURAL SOCIETY.

The annual meeting of the Minnesota State Horticultural Society, was held in this city, last evening. John S. Harris, Esq., of Houston county, President, in the chair, and J. W. Harkness, of Faribault, Corresponding Secretary, acting also as recording Secretary.

Wyman Elliott, of Hennepin county, Treasurer, made a report, which shows that the Society (financially speaking) is sound.

After considerable discussion it was determined, on motion of P. A. Jewell, of Wabashaw county, to postpone the election of the officers of the Society until the annual Winter meeting.

DISCUSSION ON FRUIT PROSPECTS IN MINNESOTA.

The Society then took up the question of the probability of the success of the cultivation of apples and other fruit in the State, with a request that Col. John H. Stevens, Editor of the Farmers' Union, Minneapolis, report the same.

P. A. Jewell, nurseryman, said, in substance, that in his travels through Southern Minnesota last Spring, he had observed with regret that a number of varieties of standard trees had been injured by the bark being bursted just above the surface of the ground. He was pleased to observe, however, that the Duchess of Oldenburg and Red Astrachan were free from injuries of this character.

His confidence in the success of the cultivation of the apple was not shaken by these injuries, as last season was an unusual one. At the suggestion of Mr. Secretary Harkness, Mr. Jewell observed further that forest trees received the same injury from the early frost that apple trees did. In this suggestion the Society unanimously endorsed him.

S. Bates, of Winona county, said that he, too, lost some fine trees out of his orchard and nursery last season, by the bark bursting, but noticed where he packed the earth solid around the trees they received no injury. He expressed great hopes in the future in regard to the fruit prospects of Minnesota. He spoke highly of the Ben Davies apple and other varieties.

Col. D. A. Robertson, Professor of Agriculture in the State University, in reply to a call upon him for information in regard to the success and prospects of apple growing in the country above Ramsey and Hennepin counties, said that the apple question was settled in that region of the State, that a number of old varieties, including the Duchess of Oldenberg, Fameuse, Plum Cider, Fall Stripe or Saxton, Haps, Sweet Pear, and Tetoffskie, have proved to be adapted to the climate, requiring there only the like soils and culture that are necessary to success in more southern latitudes. He also named a number of new seedlings of great merit, and that there were several hundreds of new seedlings in the State, out of which a selection should be made and named by the society, and recommended for trial and propagation. He was satisfied that a number of new and valuable varieties, Summer, Fall, and Winter, would thus be demonstrated and made known to the pomological world, which would secure a high rank to Minnesota as an apple producing State-that in the originating of new varieties of merit our progress had been most sat sfactory and indeed wonderful.

After very thorough investigation into the origin of the hardiest and best seedling apple trees of the State, he had ascertained that they were all from the seed of standard varieties of apples of the most northern apple-growing regions of this country—from Maine, New Hampshire, Vermont and northern New York chiefly, which he explained was in accordance with the ascertained results of scientific research into the causes of plant variation, which proved that better new varieties could be produced from seed obtained from distant regions of similar climates. For this purpose he had procured, on behalf of the

State University, seeds of the best apples of Russia, for distribution in this State, and production of new seedlings. Col. R. gave the scientific explanation of the cause of the bark splitting off our apple trees-not peculiar to Minnesotawhich occurred near the culm of the trees, close to the ground. The cause was the action of alternate extremes of temperature, freezing and thawing, or sudden changes in the Autumn when freezing weather suddenly followed verwarm weather. The sap eells were then full and from sudden freezing and thawing the partition between the sap and the air cells were torn, disorganized. This breaking up of tissues produced an effect analogous to the sudden thawing and freezing of the animal organization, causing mortification. Drainage from the surface and wrapping with paper early in September before freezing weather, would obviate this bark bursting, as he had proven in his own orchard and observed elsewhere

Mr. I.S. Shearm of the Northwestern Nursery, Rockford, Ill., being called upon, said that it was idle to say that the apple would not thrive in Minnesota. Those on exhibition to day at the State Fair—the product of this State, were the finest specimens of the different varieties on exhibition he ever saw.

In regard to the bark bursting near the surface, it was a common event all through the West. He had observed it not only in Illinois, but in Wisconsin and Iowa, as well as in Minnesota. Of course, this was confined to unusual winters.

D. W. Humphrey of Rice county, thought that the apple question was pretty well settled in this State, but he wanted to say, that in addition to the different varieties recommended by the society, he found around Faribault that the Saxton or Fall Stripe, was doing very well.

Mr. Secretary Harkness, of Faribault, called the attention of the society to the importance of a remark made by Mr. Jewell about top working, or in other words, the grafting or budding of the semi-hardy varieties on those of the hardy kinds. After a very free discussion, this project was endorsed by every member of the society.

Hon. Chas. Hoag, of Hennepin county, had visited every school district in that county, and it afforded him much pleasure te bear testimony to the bright prospects of the raising of apples in that section of the State. He saw several orchards that were full of choice fruit.

The President being called upon, gave a flattering account of the fruit prospects in his neighborhood, and especially in his own grounds. In answer to a question by Col. Robertson, he said that he knew of several Flemish Beauty pears and other varieties that were bearing and appeared hardy. He had no doubt of the ultimate success of the pear in the State. He had lost last Winter a few apple trees, but that was common in all latitudes. He enjoined upon all the necessity of pruning trees—if at all—in June. In reference to winter killing, he was satisfied the injury was done in October. He had a hickory tree killed in his garden, last winter, from the same cause.

He thought pear trees should be set over a trench filled with small stones, which should be properly drained.

New seedlings were of great moment. He coninued his remarks in an interesting manner.

thuck his remarks in an interesting manner.

It was then voted that the President should collect and send samples of southern Minnesota apples to the American Institute, New York,

Also, a committee consisting of Col. D. A. Robertson, of the State University, and Col. John H. Stevens, of Minneapolis, to collect samples in Northern Minnesota, and dispose of them in the same way.

The Society then adjourned to meet in Faribault early in January next.

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Michester Och 4, 1867 The second annual meeting of the Mine. Fruit Growers' association was held at Rocheels Minn. Oct 4, 1817. Vice President Charleng in the chair. I. W. Hartness was appointed Lecretary for tem. of Officers, which resulted as follows: Tresident A. M. M. Kinsty, Saubault Secretary I'm Ithicly Faribuilt Cor. Sec. J. W. Harkness Faitault Treasurer o John R. Reprey Little Vally Executive Committee. 6, 6, bross, Rochester J. M. Rallins, Elgin Myman Elliott, Minnespolis J. S. Harris La Crescent Faribuell On motion of D. O. Harkness the following was ad for Resolved, that we extend a cordial involution to all pursons feeling an interest in the Success of fruit growing in minnesota to cosperate with us by goniene our association. On motion it was Resolved that the Secretary he instruction to correspond with lead. Robertson asking him for a report accupied with be discussion a Fruit growing Sind, die J. W. Harfines See. pro. line,

PROCEEDINGS OF THE

Minnesota Fruit Growers' Convention,

HELD AT FARIBAULT,

Jan. 30 and 31, 1868.

A Convention of the members of the Minnesota State Fruit Growers' Association, and others interested in Fruit Growing, was held in Faribault, pursuant to call, Jan. 30, 1868.

The Convention was called to order by the President, A. W. Mc-Kinstry, who addressed the Convention as follows:

GENTLEMEN: It gives me please

GENTLEMEN: It gives me pleasure to welcome you as members of the Fruit Growers' Convention.— Your presence, representing as you do widely separated portions of the State, evinces the general interest which prevails upon this subject, and is auspicious for the future advancement of this interest. It could scarcely have been anticipated, how-ever, that our youthful society would be as strong as similar organizations in other States, for it is to be remembered that we have peculiar obstacles to encounter. In other States no question exists as to the feasibility of raising fruit, the main points for consideration being thro' what selection of varieties and methods of cultivation to secure in this branch of industry the highest success. Here, on the contrary, we have to encounter at the outset, the strongest doubts as to whether fruit, or apples at least, which constitute the great essential of a fruit country, can be raised at all; or, at the best, can be produced in sufficient quantity to justify our claim to be a fruit growing State. And this doubt is expressed, not by theorists merely, but in a marginal produced in the state of t but in numerous instances by practical men, who have devoted time and means to experiments in this direction. Hence, until this point is definitely settled in the popular mind, it will be in vain to expect a high degree of efficiency and pros-perity in the Association. Yet the existence of this doubt renders all the more necessary the existence of a State Fruit Growers' Association, for the bringing together of men engaged in experimenting in this branch of industry from different sections of the State, through whose intercourse attended with a mutual comparison of experience which has been acquired under widely differing circumstances of soil, and methods of cultivation, we can look for an authoritative solution of this question. If there is any interest in our State which peculiarly requires the advantages arising from mutua co-operation and the most thorough interchange of the results of expe-rience and observation, it is the interest of the Nurseryman and Fruit

One of the most important of controverted points at the present time, and one which, I trust, may receive some elucidation from your deliberations to-day, is with regard to the feasibility of the attempt to produce hardy and desirable varieties of seedlings. There are some, whose

unfavorable experience in attempts to raise hardy trees from nursery stock or the seed, have led them to assume that the only prospect of making an apple producing State of sending to Northern Europe or the Asiatic interior for selections from the hardy varieties which it is alleged are successfully grown there.—
The fact that the climate of Minnesota is exceptional adds considerable force to this suggestion. We are situated on the most elevated table land of the North American Continent, without the advantage of the proximity of the great bodies of water which temper the air of most of our northern sister States. The range of the thermometer is great, the extreme variation at one post of observation in the State during the past year, having been 139°, and the variation between the winter and summer mean having been 54°.—Another peculiarity of our atmosphere arising from the same cause, is its extreme dryness, which experience has shown to be an unfavorable element as respects the growth of fruit. Yet that these facts do not controvert the position that apples can be raised in Minnesota is demonstrated by the truth that in central Russia, which presents a parallel in point of climatic peculiarities, apples are successfully raised, and of excellent quality. It is probable that they have succeeded there only by resean of a series of trials avtent. can be raised in Minnesota is de-monstrated by the truth that in cen-tral Russia, which presents a paral-lel in point of climatic peculiarities, apples are successfully raised, and of excellent quality. It is probable that they have succeeded there only by reason of a series of trials extending through successive generations, during which out of the hosts of varieties which have proved failures, a few hardy kinds have survived.— From the experience of some of our Nurserymen and amateurs there is Nurserymen and amateurs there is reason to infer that success in this direction will reward our efforts here; yet, considering the length of time that is required to test not only the thorough hardiness but the quality of the fruit of a seedling apple tree—time we can ill afford to spare from the brief span of our years. from the brief span of our years-It may well be questioned whether it would not be expedient, while relaxing no exertion in the raising of seedlings here, to secure from North-ern Europe the introduction of the varieties which are the most ap-

varieties which are the most approved there.

And in this connection, a few words may be appropriate with reference to the value of the fruit raising interest to this State as a matter of political economy. I have not the statistics to show what is the aggregate amount of fruit and nursery products now imported into our State, but a few facts under this head will serve to furnish an ap-proximate idea of the extent of the annual drain upon the resource our State growing out of our failure to produce fruit.

There were received at the single station of Faribault last fall, 1727 barrels of green apples, and about 400 barrels of dried fruit, the aggregate barrels of dried fruit, the aggregate value of which would be about \$15,000. Adding to this aggregate the amount received at Dundas and Northfield, and the further amount of the orders filled by nursery agents for trees and stock from abroad, and we shall find the amount annually drawn from Rice county alone, will fall little, if any, short of \$25,000. The statistics of the importations of St. Paul, the past year, show that 20,987 barrels of green, and 3,821 of dried fruits were imported, the aggregate value

unfavorable experience in attempts of which would probably reach \$160,

passing anything the State can offer through immigration agents? And the class which would thus be temptthe class which would thus be tempted to take up their homes upon our broad and fertile prairies, would comprise the best element of our country, being the intelligent, hardy and enterprising farmers of moderate means, from the Eastern and Middle States, who are now held back or turned to Missouri or Southern Iowa by the fear that in coming to Minnesota they must forego the

to Minuesota they must forego the privileges of fruit.

I would suggest that the experience of practical fruit culturists has already been sufficient in the State to warrant the commencement of a to warrant the commencement of a list of hardy varieties which shall furnish a basis for additions as future experience shall warrant.—Such a list would prove of value to those embarking in the cultivation of fruit, and save them from the of fruit, and save them from the waste of time and money into which they might be drawn by unreliable

nursery agents.

I need refer but briefly to the question of small fruits, which—the point being conceded that they can be raised in abundance,—will elicit from our Association only discussion as to the best varieties and methods of cultivation. Yet there is a great deficiency of knowledge on these points, and if this Convention can be the means of stimulating the inbe the means of stimulating the interest of the masses, and turning general attention to the subject, it will confer great and lasting benefits upon the State. To one point under this head, however, it has seemed to me well that the particular attention of the Convention should be invoked. I refer to the cultivation of Cranberries. The facts that this fruit is indigenous to our soil, that it is capable of preserbe the means of stimulating the inour soil, that it is capable of preservation and transportation to a great distance, that the demand at home is not only large and increasing, but that it always finds a ready sale in the eastern markets, should stimulate us to especial effort to enhance the value of this branch of fruit growing. The Cranberry raisers of New Jersey find the fruit so profi able as to justify the expenditure of

from \$500 to \$1,000 per acre in the preparation of their grounds for the business. It may well be questioned whether the marshes of Minnesota, with a much less expenditure, may not be rendered equally productive and remunerative. Would it not be well to take measures for the offer of a premium for the pre-motion of Cranberry cultivation in our State. It has seemed to me advisable to extend the sphere of our Society's operations, by rendering it not alone a Fruit Grower's but a Horticultural Society. It is emi-nently appropriate that the encour-agement of the culture of Flowers, agement of the culture of Flowers, Shrubbery, and the products of the garden, should be combined with that of Fruit, and I would suggest whether it would not be advisable to change the original plan of our Society by converting it into a Horticultural Association.

Gentlemen, I have thus touched upon some of the points which it seems to me may be profitably considered by our Convention to-day. I have no doubt that your practical

I have no doubt that your practical experience will enable you to elaborate and perfect plans looking to the advancement of the fruit-growing interest in the State, in a manner much better than I could suggest, and I will therefore trespass upon

your patience no longer.

At the conclusion of the President's address, the minutes of the last annual meeting of the Association at Rochester, were read by the Recording Secretary, Wm. Wheeler.
On motion of R. A. Mott, a Committee of three forms.

mittee of three was chosen by the Convention, charged with the duty of listening to the discussions, and reporting near the close of the session such resolutions as would seem to embody the views of the Convention upon the various questions dis cussed. The Committee consisted of Messrs. A. A. Hubbard, of Medford, R. A. Mott and Wm. Wheeler, of

Faribault,
J. W. Harkness, Corresponding Secretary, read communications which he had received from Messrs. which he had received from Messrs.
R. Kepner, Little Valley; J. G.
Harris, La Crescent; Samuel Bates,
Stockton; D. A. Robertson, St.
Paul, and B. L. Day, Hastings, expressing regret that they could not
be present, and making valuable
suggestions with respect to the fruitgrowing interest.

growing interest. On motion of R. A. Mott the President was empowered to arrange an order of discussion for the

J. W. Harkness was elected Treas-

on motion of Mr. Hamilton a Committee of three was appointed by the Chair, to report a revised Constitution at the next annual meeting. The Committee consisted of Messrs. Hamilton of Winona, Harkness of Faribault, and Elliott

of Minneapolis.
The President announced the fol-The President announced the following programme for discussion, with time to be devoted to each proposition: 1st, The question of acceiving aid from the Legislature, and the propriety of sending to Europe for hardy stocks and seeds, 30 minutes. 2d, The holding of a State Fruit Exhibition, 15 minutes, 3d, Best methods of securing organization of Branch Fruit Associations, and promoting an interest in fruit-growing among the people, 15 min-utes. 4th, Best varieties of apples, 30 minutes. 5th, Methods of culti-vation, 80 minutes. 6th, Grapes, 30 minutes.

The discussion of the first question was opened by R. A. Mott, Esq.—He thought something should be done for the fruit-growing interest of the State. He read an extract of the State. He read an extract of the State. He read an extract from Col. Robertson's address before the Society last year, with reference to the practicability of securing hardy trees from Sweden and Russia. He thought Col. R. was right. The experience of our fruit growers in attempting to make native varieties suggested had been very unfavorable. succeed had been very unfavorable. Judge Berry had estimated that he Judge Berry had estimated that he had spent enough time and money in experimenting in fruit trees to have furnished himself with all the apples his family would need for twenty-five years. He had set out trees and had better experience than the rest, for he had produced one little, hard apple. Gentlemen from Winona, Wabasha and La Crescent had sent specimens of fruit they had had sent specimens of fruit they had raised; but the proximity of their river renders their location more favorable than Faribault. It was to be questioned whether these varie-ties would succeed in all sections of the State and under all circumstances. It seemed to Mr. M. that the people of Minnesota feel interest enough in this subject to bear the exenough in this subject to bear the expense of sending to Europe to import hardy kinds. Our State last year expended \$10,000 to promote immigration, most of which was spent in printing a pamphlet to tell about Minnesota. Now let the State do something for this object. We should send some gentleman competent to decide upon character of soil, similarity of climate, and adaptation of varieties to our soil.

Mr. Hubbard called for the read-

ing of Col. Robertson's address. It was read by the Secretary.

Mr. Harkness thought it well to look to home for hardy varieties.—

If he had hopes of Legislative aid, would favor the plan of sending abroad; yet he thought that good varieties of Fall and Winter apples could be raised here. He had been through different parts of the State and knew that hundreds of bushels of apples had been rejeed less tween of apples had been raised last year. He thought the object of this society was to encourage raising our native fruits, not discourage it. There are five or six varieties which can be raised in various localities. Some gentlemen had said fruit could not be raised out it do of the blaff. Finit be raised outside of the bluffs. Fruit is raised in the south part of Goodhue Co., in Waseca, in Blue Earth, in Rice and other counties. He would favor asking the Legislature to appropriate several hundred dollars to be expended in premiums for the expendency of raising conditions. the encouragement of raising seed-ling varieties. There are seedlings in several parts of the State which are valuable and would probably be

brought into notice by this course. Mr. Hamilton, of Winona, said that his experience warranted the belief that there are kinds in Wisconsin and Minnesota which are hardy. He had seen apples in some soils near the river prove a failure, while others do well on the same farm. It seemed to him that we should give a chance to native varieties. Among those which he considered suited to our climate he

plish a good deal.

Mr. Dorrance, of East Prairie,
Rice Co., said that nine years agolast March he sent for 900 apple
trees. The Nurseryman sent him
2,000. He could not give the names for he was not acquainted with varieties. He had kept cattle, sheep and hogs out of his orehard; had lived in southern Wisconsin and set out trees three times before he could make them live: he did not consid-er his selection of fruit good; he had Red and Green Sweetings; could recommend the Green Sweeting as hardy; Pippins are not so. He had one hearing tree which came labeled one bearing tree which came labeled Seek-no-farther; supposed it to be such. Some of his trees bore in three and some in four years. His soil was a sandy clay. He had 64 bearing trees; did not think any tree grower should be discouraged; he had heard reports in circulation every year that Dorrance would not raise any more apples; but he raise any more apples; but knows no good reason for them. He would not trim trees; trimming kills them.
Mr. Hubbard referred to the state-

ment of Mr. Dorrance that he had a clay soil. According to his experience that was the best soil, but unfor tunately for Minnesota we have little of it. He had resided in Wisconsin of it. He had resided in Wisconsin for many years, and found that the best orchards were on clay soils or heavy soils. He had been back to Wisconsin four times, and had always been astonished to find their soils so poor compared with ours.— He should be astonished if he had not lived there to find that men could get a living on such poor soils. They raise a number of kinds, but few comparatively, are perfectly hardy. The eastern parts of Minnesota are like Wisconsin, and better adapted to raise apple trees than this section. Ninety-nine one-hundredths here are failing in their efforts to raise apples. Mr. H. spoke of the greater dryness of our climate than in Wisconsin and Iowa. As to varieties he had had the best success with Duchess of Oldenburg. cess with Duchess of Oldenburg.— Had brought a number of varieties Had brought a number of varieties from Wisconsin—Fameuse, Red Astrachan, Talman Sweet, Red Romanite and others, and set them out in Faribault. They killed down: had turned barrels over them, including Fameuse, Talman Sweet and Canada Red, and they killed under the barrels. Duchess of Oldenburg was not injured and Red Astrachan stood next best. He thought it would be money well expended to send abroad, Wauld not discourage raising seedlings, but he did not in Faribault. They killed down: had turned barrels over them, including Fameuse, Talman Sweet and Canada Red, and they killed under the barrels. Duchess of Oldenburg was not injured and Red Astrachan stood next best. He thought it would be money well expended to send abroad. Would not discourage raising seedlings, but he did not expect to live long enough to see such varieties as Mr. Harkness had spoken of raised on this soil. They might grow on Mr. Dorrance's land. A Mr. Allen in Waseca Co. is suc.

Mr. Harkness concurred the view.

Mr. Wheeler proposed to instruct the Committee on Resolutions to prepare a series of questions bearing upon Fruit Growing to be distributed with a request for information. The question as to the best varieties of apples and mode of treatment was then taken up.

Mr. Harkness concurred the Adjourned till 7 P. M.

EVENING SESSION

Convention re-assembled at 7 oclock. The subject of this morning was resumed.

Mr. Harkness concurred the view.

Mr. Harkness concurred to instruct

Mr. Adjourned till 7 P. M.

had got to raise seedlings to stock the State, he didn't want to eat any apples from them. He had a relative on the railroad half-way between Moscow and St. Petersburg, who writes that there is an abundance of fruit there

ance of fruit there.

Mr. Stuart thought we could get cions at less expense by sending to the Agricultural department at Washington. He had tried 150 va-rieties of native fruit, and could recommend none for general cultiva-tion except the Duchess and Siberi-an and Hyslop Crabs.

Mr. Mott had no confidence in the

Agricultural Department. Mr. Dorrance's orchard was peculiarly situated. It is surrounded north, east and west with trees, with large sloughs in the vicinity which may have had an influence on his trees. Not every man can get such a farm.

ry man can get such a farm.

The question of holding a State
Fruit Exhibition was then taken up and discussed.

Messrs. Mott and Harkness favor-

ed the holding of such an exhibi-

Mr. Stuart proposed to appoint a Committee for the purpose of examining fruits which might be sent to

Mr. Stewart suggested that the Farmers' Union published at Minneapolis would be a suitable medium, being an agricultural paper and having a large circulation.

New York trees don't bear as young, but live longer.

Mr. Hamilton spoke of the plan of the Canadian of digging a large hole and putting a large, flat stone in the bottom. These were all

having a large circulation. in the bottom. These were having a large circulation. In the bottom. These were having a large circulation. Mr. Mott thought it would be different branch Mr. Harkness believed from one-thirds of the trees were having a large children having a large children having a large children having an organize efficient branch associations. Faribault was a good town, but it was difficult to keep up an organization here. Thought the an organization here. Thought the best plan was to invite all persons to be the properties to be the properties to be the persons to be the properties to

join our State Association.

Mr. Harkness concurred in this year

would mention the Duchess of Oldenburg, Fameuse, Red Astrachan, Perry Russet, Tetofsky and the Crabs, which give a variety of Fall and Winter fruit. The Fameuse keeps till the middle of January; the Perry Russet till June. With these and the Duchess of Oldenburg for a summer apple, we have a variety which will afford fruit the year round. When we go through the country how few of our farmers do we see who have the small fruits. If the Association would encourage the growth of these it would accomplish a good deal.

cessful in raising seedlings on a stiff will wankee brick. Apples might be grown in bluffy regions along the Mississippi, but we cannot succeed here, and the would mulch; would only prune in June and prune but little then; would mulch his trees some time in the winter and leave till spring. The great cause of from \$5,000 to \$10,000 to send a man to Europe, every man in the State might soon have an orchard. If we had got to raise seedlings to stock the State, he didn't want to eat any apples from them. He had a relative on the railroad half-way between Moscow and St. Petersburg, who writes that there is an abundimpressions were not favorable to this. Some of the best orchards in the State were seeded to clover. A good nurseryman never cultivates his trees except to keep the ground clean about them. He would let trees grow up like bushes, and head within a foot of the ground. Those apples [referring to some fine specimens of the Perry Russett and Northern Spy upon the table] were raised by Mr. C. P. Buck, of Winona, than whom no one was more careless as regarded the cultivation of his garden. They hung as full as any trees he had seen in Michigan, and wereas thrifty, and smooth in their bark. Mr. Hubbard would take issue as to the cultivation of an orchard. He thought grass poison to an orchard tree. Did not object to mulching but one could not go far enough. With trees of a moderate age in an orchard, the roots interlock and one would have to mulch the whole orchard. In Fon du Lac Co., Wis., his father seeded down his orchard, and the result mulch the whole orchard. In Fon du Lac Co., Wis., his father seeded down his orchard, and the result down his orchard, and the result was that he didn't raise his own apples, when he should have had a hundred bushels to spare. The trees grew lousy; many died and the others made no growth. Finally plowed it up and manured it, and now raises fine crops. Trees wont bear pruning as well in the west as in the east. In New York one could cut off limbs as large as his leg with impunity. In Wisconsin trees are safely trimmed from midwinter to last of June. Trees should them and reporting.

Mr. Hubbard doubted whether enough interest would be felt to secure an attendance of people at an exhibition of small fruits. If an exhibition was held, it should be at the time of the State Fair.

On motion a committee consisting of Messrs. Elliott, Hubbard and Stewart was appointed to make arrangements with the Agricultural Committee for holding a Fruit Exhibition in connection with the State Fair. air. The subject of the best method of black and consequently too warm. The subject of the best method of interesting the people in Fruit growing was taken up.

Mr. Hamilton suggested that it would be a good plan to select some one paper to publish articles to be written by members of the Association.

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Adjourned till 7 P. M.

ter killed. He regarded the Red Astrachan as the hardiest one could cultivate. Would place stones under trees, and the soil, whether wet or dry should be three feet deep. Advised making deep drains under the roots 3 to 3\frac{1}{2} feet deep, and filling in small stones. This serves for drainage.

the roots 3 to 3½ feet deep, and filling in small stones. This serves for drainage.

On motion, the President appointed a committee, consisting of Messrs Harkness, Elliott, Hamilton and Hubbard, to report a list of varieties of Apples suitable for cultivation in Minnesota.

On motion of Mr. Mott, the subject of small fruits was then taken up in the following order: 1st. Cranberries; 2d. Raspberries; 3d other small fruits.

Mr. Mott urged the cultivation of the Cranberry in consequence of its certainty, its great productiveness, and adaptation to transportation.—He read a report of the cultivation in New Jersey from the Patent Office Report of 1865.

Mr. Elliott read from Fuller's Fruit Cultivator as to the habits of the Cranberry. He thought the report of 1,300 bushels to the acre in the Patent Office Report dependence of the fruit 1½ inches deep all over the surface. Thought 175 to 200 bushels to the acre would deep all over the surface. Thought 175 to 200 bushels to the acre would

be an average. Ground should be flowed to keep off insects.

Mr. Frink had seen the Cranberry crop gatheered in Shieldsville.— The marshes had no sand, and the Cranberries did not grow where the ground was not overflowed.

The cultivation of Raspberries

was discussed.

Mr. Mott had tried the Doolittle Black Cap, and knew it to be a fine berry. Thinks that in this State we don't need to import varieties. The wild variety is as good as the Doolittle after two or three years cultivation. They should be planted so as to be partially shaded. After fruiting cut out old canes. Hills should be three feet apart, rows six feet apart; three to five canes to the hill. As the branches reach out out. neet apart; three to five canes to the hill. As the branches reach out cut off the ends; keep the ground thoroughly forked up. His berries lasted three weeks last year, and no fruit in his garden afforded him so much pleasure. Had cultivated them nine years, and they had constantly grown better

stantly grown better.

Mr. Stewart said that there were many varieties among the wild as well as the tame raspberries.—

Thought if Mr. Mott had a kind as good as the Doolittle Black Cap, he had something quite valuable.

Mr. Mott said that the variety he had wes not common and records.

had was not common, and people were accustomed to come to the place where he had procured them for their berries, on account of their being better than the usual wild

Mr. Jackson expressed his pre-ference to Doolittle Black Cap to all others, two to one.

Messrs. Jewell and Stewart spoke well of the Philadelphia Raspberry.

The question of strawberries was

The question of strawberries was taken up.

Mr. Frink had set out Hooker's, Hovey's and Wilson's three years ago. Could not discriminate between them now, but the berries now produced on his vines are better than either of the three originals.

A discussion ensued, Messrs. Mott, Hamilton, Jewell and Wood participating, as to the probability of the berries becoming hybridized. The balance of testimony appeared to be that they would not. Messrs. Elliot and Stewart endorsed the Wilson's Albany as the best market berry for Minnesota.

Mr. Hubbard speke of currants. They are are a hardy fruit and too apt to be neglected. Currants should be thinned every year, the new shoots cut away, the old ones left.— Would leave one or two new sprouts to a hill The fruit is much larger when cultivated.

Mr. Stewart planted three feet apart each way; let them stool out and cultivated with a horse plow.—

As the wood gets old and decayed,

cut it out.

Mr. Elliott spoke well of mulching, to keep the ground moist during drouths. Thought it a correct practice to thin out, leaving but two or three new shoots, and also cut away a part of old stocks every year. An acre of currants would produce from \$200 to \$250 per year.

An acre of currants would produce from \$200 to \$250 per year.

Mr. Wood was surprised not to have heard of a different manner of pruning. His practice was to cut the top from every sprout, from two to four inches. Covered the ground with chip manure, and always had good crops. Mr. Dawes from whom he had his system, always trims low, and lets their spread out near the roots.

Mr. Elliott mentioned that the currant worm troubled them some at Minneapolis. He was accustomed to shake them off the bushes on

a cloth and kill them.

Mr. Hubbard wished to hear about plums. Inquired concerning Miner's Seedling.

Mr. Jewell said it was extensively planted in Grant County Wishers

Mr. Jewell said it was extensively planted in Grant County, Wisconsin. Trees grew very large; fruit was not entirely exempt from curculio; thinks it a wild plum related to the Chicasaw variety. Believes no other variety of cultivated plum will be able to stand our climate.

Mr. Mott spoke on behalf of our wild plum. Would not discourage planting cultivated varieties, but by

wild plum. Would not discourage planting cultivated varieties, but by selecting the best wild varieties, might secure an abundance of excel-lent fruit while experimenting with

the others.

Mr. Hamilton recommended the wild plum for a wind break. Such a hedge was better than willow or evergreens, as it would bear fruit, as

well as keep off the wind.

Mr. Elliott spoke of a gentleman
near Fort Snelling, who had excellent success in mulching. Our native plums are very fine. One variety from the grounds of Mr. Wm.
Harrison, was taken to the St. Louis Fair, and pronounced superior to the Miner Plums. Mr. E. makes a practice of grafting from the best trees.

Adjourned to Friday morning at

SECOND DAY.

FRIDAY MORNING, Jan 31.
Convention was called to order by the President. In the absence of the regular Secretary H. C. Whitney was elected Secretary, protem.
The minutes of the preceding day's session were read, corrected and approved.

proved.
The Committee on Resolutions reported as follows:

Resolved, That the Corresponding Secretary be instructed to send out a series of questions to the various Fruit Growers of

the State, for the purpose of eliciting information for the use of the Association, and to present a compiled report of such information at the next annual meeting.

Resolved, That the Legislature be asked to appropriate a sum sufficient to send one or more agents to Europe to procure varieties of fruits adapted to our soil and climate; also to appropriate the sum of \$500 for the purpose of paying premiums on Minnesota grown fruits.

Resolved, That while we would by no means discourage experiments for the introduction and calivation of all varieties of domestic fruit, we would earnestly urge upon all Fruit Growers in the State the importance of further efforts for the careful testing and improvement of the fruits indigenous to our soil, especially Plums, Cranberries, Raspberries and Blackberries.

On motion, report was received

On motion, report was received and laid on the table, and the committee continued.

The Committee on the varieties of fruit submitted the following re-

In recommending a list of Fruits for general cultivation your committee find it very difficult to arrange a list of apples that are adapted to all sections of the State. While we would not wish to misguide any in recommending a list of apples that are not all perfectly hardy in all sections we think that in justice to the more ples that are not all perfectly hardy in all sections, we think that in justice to the more favored localities we should put on that list a few varieties that are worthy of further trial. There are two varieties that are perfectly hardy, worked on hardy stocks, which we would recommend for general cultivation in all soils, viz.: Duchess of Oldenburg and Tetofsky.

We would further recommend for sheltered localities with heavy soils, and in close proximity to water, the Golden Russett Talman Sweet, Fameuse, Red Astracdan, Perry Russett, Hass, Ben Davis and Northern Spy.

All of which is respectfully submitted.
J. W. HARKNESS.

WYMAN ELLIOTT,

WYMAN ELLIOTT, A. A. HUBBARD, A. G. HAMILTON

Mr. Staples, of Wisconsin, had tried growing apples but had met little success except with the crabs. The Tetofsky had been the hardiest and most thrifty of his own trees.—So far as he knew it had done the best in that place.

best in that place.

Mr. Hubbard objected to the recommendation of the Northern Spy.

It was not a first rate hardy apple but might be raised in some localities.

but might be raised in some ties.

Mr. Jewell stated that the Tetofsky is of Russian origin, but not a crab. One of its peculiarities is its very large leaves. It drops its leaves by the 15th or 20th of October, earlier than any other variety, and matures its wood very early—It is as hardy as Siberian crab, and he had no doubt of its entire success in this State. Its roots are peculiar,

he had no doubt of its entire success in this State. Its roots are peculiar, being long and fibring less than roots of other trees. It makes a moderate growth in the nursery.

Mr. Harkness objected to the Tetofsky on the ground of its not havinghad a sufficient trial. He had differed with the majority of the committee in assigning it to the position it occupied in their report.

Mr. Hamilton had corresponded with parties in Wisconsin who

Mr. Hamilton had corresponded with parties in Wisconsin who have had trees bearing for five years. It is not called a crab. Thought it could be recommended for this State. Localities make a great difference, as Winona and other counties can raise fruit while others cannot

not.

Mr. Jewell explained the origin of the Tetofsky. It was obtained of a Mr. Gifford near Milwaukee. Mr. Mr. Gifford near Milwaukee. Mr. Mr. Gifford near Milwaukee. Mr. Gould gave it the name of Russian Crab. Mentioned places in Western Wisconsin where it had succeeded well, but thought it had not been thoroughly tested in the worst localities of the State.

The discussion was continued by Messrs. Humphrey, Elliott, Hamifton, Stewart and Mott, most of them being favorable to the endorsement of the Tetofsky.

The report of the Committee was finally adopted with the exception that the words "in close proximity to any considerable body of water," were inserted, and NORTHERN SPY stricken from the list.

Mr. Mott offered the following resolution, which was adopted:

Resolved, That the Executive Committee be authorized to engage one or more persons to address the Society upon subjects counceted with Fruit Growing, at its next annual meeting.

On motion of Mr. Humphrey, the

On motion of Mr. Humphrey, the subject of Grapes was taken up.

Mr. Stewart recommended Clinton and Concord.

Mr. Humphrey related the experience of a gentleman from Owatonna. His vines had been set three years. He had eight kinds, including Hartford Prolific, Concord, Clinton, Isabella and Delaware. He had concluded it was no use trying to

years. He had eight kinds, including Hartford Prolific, Concord, Clinton, Isabella and Delaware. He had concluded it was no use trying to succeed here, except with Clinton and Concord. He pursued the German method of pruning, which was to cut off 1st year's growth within eight inches of the ground; trained to a trellis 3 feet high; every year after 1st cut back to within two buds of place of last year's cutting.

Mr. Hamilton said that Dr. Ford of Winona, had the best success with Hartford Prolific, Concord, Clinton and Delaware. The Delaware was the best table grape, and had been grown with best success. Thinks all these vines should be laid down and covered. The Black Cluster Grape is raised in Winona. It is a very hardy grape, and never needs covering. Has been exposed to heavy winds and had the leaves all cut from the vines, but bore grapes. The man who owns the original vine raises six or eight bushels from his trellis. The grape is as large as the Isabella. It originally came from New York, under the name of Black Cluster, but that is probably not its true name.

Mr. Jewell confirmed the favorable reports of this vine; there was no question of its hardiness in that locality. Thought the success of the Delaware depended largely on the original vigor of the plants.—The vitality of many vines were injured by the attempts of nurserymen to propagate too fast. The vines should be propagated by layers rather than eyes a cuttings. A straw covering will answer for Delaware and Concord. Isabella, Iona and Adirondae had pot succeeded well as far as known. Rogers' Hybrids have done well.

Afternoon session.

Convention was called to order by

AFTERNOON SESSION.

Convention was called to order by

Convention was called to order by the President.

Mr. Mott explained the law regulating the measuring of fruit.

Mr. Elliott said custom made law, and it had become customary to use wine measure in selling small fruits. He had noticed that the hucksters were accustomed in buying small fruits to use a round tin measure, of the dry measure standard. If he could sell strawberries by wine instead of dry measure, he could save one quart in six.

Mr. Mott offered the following resolution, which was adopted:

Resolved, That the Legislature be re-

Resolved, That the Legislature be requested to regulate the measurement of small fruits.

Mr. Jewell gave a description of the Soulard Crab. It originated with an old gentleman named Sou-lard. Was a hybrid between the

Proceedings of Minnesota Fruit-Growers' Association.

The Minnesota Fruit Growers' Association held its annual meeting at Minneapolis, on Wednesday evening, September 30th, 1868.

The President, A. W. McKinstry, of Faribault, upon taking the Chair made some very happy remarks, congratulating the Association upon its prosperity, and upon the increased indicatious of success in fruit growing in Minnesota.

Col. D. A. Robertson, of St. Paul, addressed the meeting at some length upon the cultivation of fruits in high latitudes. His remarks were full of interest to the Association; abounding as they did in facts the soil. Has never mulched. necessary to the successful growing cation.

Mr. J. W. Harkness, of Faribault, mulched. Corresponding Secretary, made a quite a number of successful fruit recommending Duchess of Olden-3d., Preference for clay soil. 4th, gan to fail. Shelter from winds. 5th, Heavy mulching.

On motion of Col. Robertson, the be placed upon the record.

A motion to adopt the report as mended.

Mr.L. M. Ford was not satisfied with the hardiness of the Duchess. He had known it winter-killed, in good success. He cultivates and several instances.

Col. Robertson thought it perfectly hardy, when properly cared for. following resolution was adopted: He thought trees were often lost by improper treatment. He had lost soil containing an admixture of clay, are some himself by having them necessary to success in growing apple pruned at the wrong season. Trees trees. pruned in either Spring or Autumn The subject of protection from were likely to die. He favored wind was then made the order of summer pruning, last of June the discussion. best time.

Mr. J. S. Shearman thought the from winds was necessary. Haas perfectly hardy; also, the Mr. Ford thought protection from Duchess.

the Duchess stand the winter, ex while others not protected lived. cept some trees from which he had Mr. Elliott thought protection their fruit the next season.

Mr. Cook, of Blue Earth, hac Mr. Stewart would protect from never had the Duchess top-killed it wind by evergreen hedge, and from winter.

The Association adjourned to mee on Thursday evening, Oct. 1st.

SECOND SESSION.

The discussion of the Corresponding Secretary's Report was resumed; speakers being limited to five minutes, and confined to the topics of soil, cultivation and mulching.

Mr. Ford thought clay soil the best; and favored cultivation and mulching.

Mr. Gideon thought clay and lime in the soil indispensable to the growth of the tree; was in favor of mulching, but didn't think cultivation of ground necessary. He had succeeded best with trees in ground sown to grass. He had trees winterkilled in ground cultivated, while bault. those in grass land had stood well, St. Paul. St. Paul. they being heavily mulched all the

Mr. J. S. Harris thought clay and lime in soil necessary; also mulching. He cultivates his ground; would not allow weeds or grass to grow in his orchard, as they exhaust the ground.

Mr. Cook said he has many varieties doing well. His soil is sandy loam on clay subsoil. He cultivates

Col. Robertson thought clay and of apples in Minnesota. A copy of lime in soil necessary. He cultithe address was requested for publi- vates the ground for a short distance name to "MINNESOTA HORTICULaround each tree, but has never TURAL SOCIETY," and providing for

Mr. Stewart favored a clay soil, report embodying the experience of heavy mulching, and thorough cultivation. He told of a Mr. Allen, growers in the State, in reference to of Waseca, who had a seedling orvarieties, soil, culture, shelter, &c. chard which he had cultivated The principal points brought out in while the trees were young. They the report were: 1st, Hardy kinds; grew finely and looked healthy when they came into bearing. He berg and Haas as hardy. 2d, Cul- then seeded his orchard down in tivation of ground among trees. grass and the trees immediately be-

Mr. Gates has some fine Duchess trees in bearing, part of them in cultivated ground, others in clover sod. report was received and ordered to He don't see any difference in their healthiness.

Mr. Snyder, of St. Peter, said his the sense of the meeting, started trees on sandy land had failed, while quite a discussion, which turned those on clay had done well. He chiefly upon the varieties recom- cultivates his ground in the early part of the season. He don't think mulching does either good or harm.

Mr. Bates, of Stockton, has had mulches.

On motion of Col. Robertson the

Col. Bobertson thought protection

winds did no good. He had known Mr. Peter M. Gideon had found trees which were protected die.

cut cions in Autumn; trees so cu from winds absolutely necessary; had either winter-killed or dropped as did also Mr. Andrews, Mr. Sherman, Mr. Stevens, and Mr. Snyder.

sun by having low-headed trees.

Mr. Jewell thought protection from wind unnecessary. He had known numerous instances in whiel

trees protected had died, whilst others exposed to the winds had done well. He thought trees should

be protected from the sun in Spring. Mr. Bates considered a good windbreak indispensable to an orchard.

Several resolutions were offered expressive of the sense of the meeting, but none of them seeming to express it very fully, the subject of the Secretary's Report was laid over for discussion at the next meeting.

The following officers were elected for the ensuing year:

President—Chas. R. Hoag, Minneapolis. Vice-President—J. S. Harris, La Crescent. Recording Sec'y.—Wm. Wheeler, Fari-

Treasurer-Wyman Elliott, Minneapolis

EXECUTIVE COMMITTEE. D. A. Robertson, St. Paul. H. Lowater, Goodhue. J. W. Harkness, Faribault. E. H. Kenedy. S. Bates, Stockton.

On motion of Col. Robertson the following resolution was adopted:

Resolved. That the Secretary be instructed to make a compiled report of the proceedings of the Association, for the past and the present year, and present the same to the Governor of the State.

The Constitution of the Associaa division of the State into districts, each of which should have a vicepresident.

Col. Robertson, Chas. R. Hoag, Wyman Elliott and Truman Smith were constituted a Committee of arrangements for the next meeting of the Society.

The Secretary was ordered to have the proceedings published in the leading papers of the State.

On motion, the Society adjourned to meet in St. Paul, in January-the day to be fixed by the Executive

WM, WHEELER, Secy.

Not one twentieth of the questions sent out have been answered. I have received a few very good Communications; but not one hundredt part of what the importance of the Subject demands: and the Camparative Luccess in various portions of the State would warrant on to expect: The following summary presents The essential points of the Communications received Other Communications show those mentimed were received; but those presented serve to give The experience of the whole.

Im G. Lincoln of Habasha I have planted Red Astrachan Januare, Northern Spy, Price's Sweet and brake. I think these and Sallman's Siver perfectly hardy and suited to our climate. I have fruited Red Astrachan and Hyslop Crab. May grands are a quarter of a mile from the mesistippe Siver, sheltered on The South and West by bluffs. Soil a landy loam, with clay subsoil, well enriched with Makle manure. I mulch trees every fall units Course manure. Frame in Spring after trees are in blassom.

John Dean of Blue Court City That planted Duchess Oldenburgh, Perry Russell, Samense, Red astruction Sallman Sweet. These are well tested and hardy with him; he has other varieties not well tested. His grands are a high, undulating prairie; Soil, a Sandy loam, on Clay lubsoil; protected by an artificial grove, Tives same Cultivation as for Com, Ceasing about the middle of july. Late in Autumn plans dist up to trees. Trunes in June.

J. A. Bake of Northfield has planted nearly all hunds Rept by murserymen; finds Red Astrachan, Duchers Oldenhogh, Janueuse, & Perry Kussit quite hardy. Has fruited a number of sudlings, Lome of them quite fromeing. Has about a dozen trees in bearing. His ground is high planning, sandy loundoil on clay Subsoil; eastern exposure - punished with well rotted manne, He considers Cultivation necessary to enecess: Thinks Corn a good crop to raise in Orchard. Lost one ochard by seeding Joun to grass: mulches with manure - Fremer lightly in June,

Mor G. It. Sylvester of Hundland Habshaw les has planted many Varieties, Amongst to thethe are Sopo of Wino, Saxon, Gullman Sweet, Perry Russet, Harvest Bough. Bushbudge White, Red Astrachaw, & Duches Wheelings These he considers his hardrest Kinds, Has raised from five to twenty bushuls of supplies a year for six years. The principal Kinds fruited being Those here named, Has gravn some seedlings, a few of which have borne. His ground is aak openings-high-with Souther ly position - Sheltered on the Mouth. Would prefer northern deshirt

suclimation, so sheltered. Soil; a black lown, on clay Rubsonl, Thinks it adverable not to cultimate much or late, thinks it unduces a grick and late growth, leaning. the word not fully repeired, and trofull of eap to withstand a Levere writer, Recommends muldry freely instead of Cultivation. Homes at all leasons; thinks fine the best. Has had trees succeed well on new grand, planted Lecond Leasen after breaking. plants about Der inches deep. Has Tilemish & Leanty Pears, in Lod ground doing well.

In examining this correspondence I have been struck with the great Similarly of experience of those Who have succeeded in raising fruit. All have succeeded = with about the same varieties; those recommended by your Convention in January. All are in favor of Cultivation early in the season: in favor of mulching, with one exception, en favor of Summer Jouning. High lacations, with northern exposur Deem to have directed best. Shelter for The trees has too been an important point with all. Trees on clay pubsoil seemed to the the mark favorable that them to have succeeded

better than on any other. Although There are many localities where trees are doing well on the open frame under very unfavorable Cercunstances It is very gratifying to leave that there have been so many varieties fruited here that are known to be lender in Wisconsin, and are seldom raised there except by top grafting onthe Diberian Crab or some other hardy etock. I cannot close This report without going some of my views upon this subject. I think the surest road to success to be that of top grafting on crahs & howe the foresent Deason seen tender varieties doing

doing remarkably well top grafted On the Loulard, Sebenan , Frans. Crabo. the with forement of the I have on small, that beg lop grafting we can raise many varieties here that are now considered bender, and Even our hardy kinds, or those That succeed well in favored locations, as the Jameuse Red Astrachan, Perry Trus self toller Russet will or much better top grafted on harry trees, Crahs. Than They It root grafted. The Duchess of Oldewhugh is about The only true that is get known

15 in all localities. to be perfectly reliable took griftet. The Haas or Maryland Lucen seems however to be growing in favor; and in my aprimion, will he formed to be as hardy as The Duchess-In planting A is very inportant that The soil Should he throwighly prepared; and thrown up in such a manuer that the trees shall stand upon ridges. In Cultivation the grand Should be left Smooth in Suhmer, with furrows between the rows to carry of the maler. And it really seems that the orchard is of enough importance to

de entitled to the undesputed right of the soil, in such case, all the Cultivation necessary is ploning of the season, always throwing the soil towards the trees, but not against Thew, afterwards harrow smooth. If grass & weeds grow up late in The Deason mon them from and let Them remain on the ground. It is my apineon that more trees are killed by injudicions francing Than by any other one cause. I shink Jeme the most favorable time, if it do mirch cannot be paid upon The importance of good wind-breaks

It is to be hoped that our ligislature will follow the Example of some of our Fiter States and make some law for the Eucomagement of the Cultivation timber, The day is Counning, and not for distant. When to han been Fin James on a Draine farm without having a but of trubu for Chetter will be a Reprouch to any farmer. A word him as to The trut fourt Trees to plant, and drive Close. The Soft Maple & Cotton wood are Eusily Profrigulia, and an good protection, Other Knids might be newtioned The European Earch and Thonway Dpruce The nest odlumble of all. Ensily hansplanted and rapid growers. One instance (out of many) of which Swill i'Mention of the latter Knid is on the grounds of R. Douglass of Haukigan. Il-

13 gras ago the tree was transplanted bring then Our foot in hight, I Recently measund, and found ih to for 46 inches in Circumfunce. 18 inches from the ground. and at least 31 fut high

State Horticultural Society.

The annual winter meeting of the State Horticultural Society convened in St. Paul on Wednesday, the 2d of Tebruary. In the absence of the Presont, John S. Harris, Esq., of Houston anty, the Hon. R. J. Mendenhall, of Hennepin county, was elected President pro tem. J. W. Harkness, of Rice

county, Corresponding Secretary, was elected Recording Secretary pro tem.

Hon. R. J. Mendenhall, Chas. M.
Loring and Robt. W. Cummings were received as delegates from the Hennepin County Horticultural Society.

On motion it was ordered that the session of the present meeting be continued for two days.

Ordered, That J. W. Harkness and Col. D. A. Robertson be a committee to communicate with the House of Representatives for the purpose of obtaining the use of the hall for the evening session.

Ordered, That both branches of the legislature be invited to attend the evening

lature be invited to attend the evening meeting during the delivery of the annual address by Col. J. H. Stevens.

A committee was appointed consisting of Amasa Stewart, M. W. Leland, of Olmsted, S. Bates, of Winona, Judge

of Olmsted, S. Bates, of Wholm, stage Baker, of Ramsey, and P. M. Gideon, of Hennepin, on order of exercises.

On motion the Secretary was directed to prepare a report of the proceedings of the mosting for publication, which should only be considered the of-

The Society then adjourned until 4 o'clock P. M.

AFTERNOON SESSION.

Society met pursuant to adjourn-

Mr. Stewart, from the committee on exercises, made the following report:

- 1. Soil and location best adapted to the growth of apples.
- growth of apples.

 2. Variety of apples.

 3. Taking up, handling and planting.

 4. How extensively should fruit be cultivated to receive the recommendation of the
- Society.
 5. The Pear culture.
- Cherries.
- 8. Grapes.
 9. Currants.
 10. Gooseberries.
 11. Raspberries.

The committee recommend rules of action governing nurserymen sending out stock. They also recommend a small ap-propriation from the State, to be used by the Agricultural Farm in growing and test-ing fruits.

Which was adopted.

On motion of Col. D. A. Robertson, a committee consisting of Judge Baker, Messrs. C. M. Loring, Leland and Jordon, was appointed to report at the next meeting a system of organization.

The Society then took up the report of the Committee on Exercises, and the first subject was considered, viz: Soil and location best adapted to the growth

Mr. Bates, of Winona county, said he had resided in this State for 15 years. His location was considered favorable by many for growing fruit, but he considered it no more so than many others. He raised apple trees as well on his grounds as they can be produced in the east. He thinks trees will do well in dry soil if not the constant of dry soil if not too much exposed from bleak winds. Mr. Aldrich, of his neighborhood has over 1,000 trees in an orchard that are very promising. His land is clay soil.

Mr. Stewart, of Hennepin county, thought high locations the best—near water, favorable. The best soil is a

sandy loam, clay sub-soil.

Mr. Gideon has been planting trees for fifteen years, some are doing well; has tried different soils; has found lithas tried different soils; has found in-tle difference in lecality; tried north hillside soil, rather ligh, with good suc-cess; never had good growth on black soil until he set the trees deep—say from 6 to 12 inches above the collar; has an orehard with trees surrounded

by timber on the north. He cited many instances of good results from deep planting: has sold many trees planted on clay soil which did better than those he planted on his own

Mr. Leland said that with a northern slope protected by timber, deep working and no manure, with winter mulching and proper care, trees will be suc-

cessful in any locality.

Mr. Jordan thought the northern slope the most preferable. The sap starts, on the southern slope, in the His conclusions were that any soil with lime in it is good. He believed in protecting bearing trees.

Adjourned to 7 P. M.

EVENING SESSION.

The president announced the subject or discussion to be the "varieties of

On motion the discussion was postponed to the morning session and Col. Col. Stevens delivered the following address:

Mr. President and Gentlemen of the State Mr. President and Gentlemen of the State Horticultural Society:—In responding to the resolution passed at the last annual meeting, I will now proceed to deliver the annual address, but I cannot assume the responsibility without much diffidence.

Permit me to congratulate you on the successful labor of the society for the past year. Again has the old adage proved true that patience and perseverance will accomplish many things.

that patience and perseverance will accomplish many things.

We meet under the most favorable auspices. Since this time last winter the vine has produced more than forty kinds of grapes. The fruit of all fruits, the apple exceeded our expectation. We were favored with an abundance of small fruit. Choice varieties of ornamental trees have been introduced. The delicate, beautiful flower bloomed and imparted its fragrance to the air. An increased interest is being manifested by the people in that which is so closely connected with horticulture. The labor of the society has not been in The labor of the society has not been in

The labor of the society has not been in vain.

Horticulture is as much a branch of industry as agriculture. It is fraught with as much moment to the world. It is a necessity as well as a luxury.

Said Horace Greeley a few years since to Woolfred L. Wilson 'I would not live in Minnesota." 'Why?" asked Mr. Wilson. 'Because," replied Mr. Greeley, "you cannot raise apples." Now, there are thousands who agree with Greeley that a country which is barren of fruit is not fit to live in. This however cannot be applied to Minnesota now. We are becoming a fruit producing people. The past season apples were raised from the Lowa line through the great rich belt beyond the Sauk Rapids. Those who should know best believe we shall eventually supply the Valley of the Mississippi with this fruit, as we now do portions of the east with wheat and flour. This may appear visionary if we had predicted in 1849 that the embryo state was in subsequent years to furnish New England with the staff of life, and yet the probabilities are more favorably now in regard to the apple than it was then to the wheat.

True we were under a cloud for a long time. We planted but did not harvest.

probabilities are more tavorably how in regard to the apple than it was then to the wheat.

True we were under a cloud for a long time. We planted but did not harvest. Our trees withered and perished. Whether it was the frosts of winter, or the sun of summer that caused them to prematurely die no one has been able to determine. Plant as we would the trees sickened and died. Possibly and probably tender varieties were used, which may account for a portion of the difficulty.

No wonder, then, we became discouraged. Orchards, to the third and fourth planting, failed; a constant drain on the pocket without a ray of light in the future, influenced us in abandoning the enterprise. But those days, with their trials, have passed away. It is said that the same difficulties in regard to the propagation of the apple, has to be encountered in all new countries.

An yet some persevered. The far north was visited. Seed was gathered instead of trees. The germ of a few—very few, perhaps one in ten thousand, may be one in twenty thousand, some say one in one hundred thousand—has brought forth fruit. Be this as it may, we have over two hundred varieties of seedling apples thus propagated, some of which are of nare merit, and few of an inferior quality. One of these seedlings, the Wealthy, propagated by Peter M. Gideon, of Hennepin country, is pronomneed by eastern pomologist, the society can provid by his experience. Your attention is most respectfully directed to the success of Truman M. Smith, of St. Paul, in the culture of this superior fruit.

Whether a very great improvement can be made in the introduction of new varieties of punt remained and distandard varieties have reached and subtrill maturity, those to the manor have represented as the full maturity, those to the manor have reached as a very desirable. While most all the old standard varieties, and the full maturity, those to the manor have represented as the full maturity, those to the manor have remained and the full maturity, those to the manor have being cultivate

As the country becomes improved, as on soil becomes reduced to a proper state of cultivation, it seems that the Pyrus Nithe particularly in certain localities succeed it reaching maturity. Where the soil or the climate, or some strange fitality was poison to them a few short years ago, they flower than the country of the particular our seasons are changing the country of the cou

to them a few short years ago, they flourish now. Perhaps our seasons are changing. Evidently we have much to hope from certain standard varieties of apples as well as those seedlings of a Minnesota birth.

But should all of these fail we have a reserve to fall back upon which is impregnable. The Siberian family are as hardy as the oak. They should be extensively cultivated. In our success with the Pyrus Manus do not let us forget their half brother, the Siberian. A few years since had we known their value we should have prized

the Siberian. A few years since had we known their value we should have prized them more than silver or gold.

Let us "render to Cæsar the things that are Cæsar's." Let us pay tribute to our Harrises, Robertsons, Bates, Gideons, Summers, Rollins, Kellys, Posts, Fords, Stewarts, Elliots, Brainards, Grimes, Drakes, Brimhalls, Goodyears, Cooks, Bells, Hoags, Ways, Woodruffs, Martins, Harvey Wilsons, Norrises, Dorrances, Perkins, Woodwards, Hawkins, Truman Smiths, and others who never faltered as the clouds lowered through so many dark years of failure.

Our soil, climate and latitude seem favorable for prolific crops of small fruits. In the fall of 1856, Mr. E. Whitefield, the artist, sent some McLeod county soil to Prof. Hays, of Boston, to analyze. That learned gentleman said that such soil should produce strawberries as large as New England walnuts. Why, the treasurer of this society raised last year near three hundred bushels of this fruit. By a copious use of this healthy berry, fevers are banished from our thresholds. The strawberry of Minnesota is not the strawberry of the Egyptian region of Illinois. Ours is juicy, plump, fat—suitable feasts for the gods. Our raspberries, currants, gooseberries, blackberries, blueberries, are all cultivated with so little labor, and so reliable and hardy that it is in the province of every household to have them.

have them.

The cranberry, too, is a profitable luxury. Large quantities of the wild fruit are shipped every autumn. We have the testimony of Wyman Elliot and A. D. Foster, gentlemen of acknowledged horticultural worth, that the cranberry can be cultivated with great profit. Late frosts in the spring are the bane of this fruit in New England and New Jersey, but here we are free from such visitations, which renders it unnecessary to overflow the marshes to prevent the sary to overflow the marshes to prevent the frosts from destroying the blossoms. It is reduced to a certainty that from four to six hundred dollars per acre can be realized from properly cultivated fields of cranberries

For the first time we gathered tame cherries last season. Previously we failed.
This valuable fruit in the early years of the
State seemed to follow the apple and was
thrown aside. It may now be considered

State seemed to follow the apple and was thrown aside. It may now be considered as one of our profitable products.

The record on grapes is satisfactory and more favorable than expected. Some forty varieties are in bearing. From one vine four years old, Richard J. Mendenhall, the able President of the Hennepin County Horticultural Society, harvested over two bushels of Delaware grapes. The quality of the grapes are infinitely superior to those from below. As Mr. Mendenhall is an educated horticulturist as well as a thorough entomologist, the society can profit by his experience. Your attention is most respectfully directed to the success of Truman M. Smith, of St. Paul, in the culture of this superior fruit.

Whether a very great improvement can be made in the introduction of new varieties of plums remains to be seen. Our natives are very desirable. While most all the old standard varieties have reached a doubtful maturity, those to the manor born are being cultivated, and the quality of fruit greatly improved. The Excelsior, Harrison and several other varieties are quite equal to the Miner and Wico Goose,

olice to Vick, Bliss and Peter Lawns and flower gardens are Frequent roses, scarlet lilies, thinbing vines command the the lades. The royal dahlia, petama fuchias, geraniums neliotrope, hyacinths, pelargoni as, verbenas and kindred flower plants are becoming household words early spring is wilcomed by white, yel-lilac, blue and striped crocus in ad-e of the bright, wellow, honest blossom of the dandelion. These gifts are God's countiful blessings. The home is happy where the flowers bloom.

where the flowers bloom.

The list of shade and ornamental trees should receive the affention of the society. We have those that are upright and those that are weeping. We can select from native varieties and from those that are imported. We have the elm and maple, which are so beautiful in New England, and to which that section of the Union is so much indebted for a large proportion of its picturesque scenery. We have the mountain ash with its energld foliage and its picturesque scenery. We have the mountain ash with its emerald foliage and crimson fruit; the linden, hackberry, the silver-leaved poplar, coffee tree, the golden and white birch. This is a native list. Why not dot the roadsides with them?—skirt the fields, fill the yards—a home for singing birds, a pleasure for every one who has life and being? We have, too, the green-bourhed upper condenses a present on the present of green-boughed pine, cedars, spruce, bal-sams, with their quiet and gentle ways, to weave into the different nooks, corners and by-places, thus adorning our city homes and making the village residences so hand-handsome, and pretty in the free, broad country, which God made.

Of ornamental shrubs such as the acacia flowering almond, barberry, snowberry and snow balls, spireas syrenga with the ever green, holly leaved shrubs, selections can be made that cannot fail to be satisfactory. The society should lend its influence in

The society should lend its influence in encouraging the cultivation of timber on the prairies. In less than a decade from the time it is lodged in the ground, the European Larch will be of a sufficient size for a fence post. This is a question which must be met. We cannot conceal the fact of the existence of a large treeless district west of range thirty—extending to the Dakota line. This wast tarritony contains Dakota line. This vast territory contains the richest soil in the state. 'Rough hew it as we will" fuel is becoming less and less

it as we will" fuel is becoming less and less as each year rolls around. How easy to reverse this misfortune.

The attention of the society should also be bestowed upon the propriety of the early introduction of live fences or hedges. They are the cheapest, the best fence in use, and a system of hedges can be inaugurated which will be lasting.

The cultivation of several products of a semi-tropical character, such as the sweet potato has received considerable attention for the past few years. The experiment has proven satisfactory. We are assured that it is a law of nature that all plants, fruits and roots as well as flowers, reach greater perfection in a climate visited by snow in the winter, but the climate should be of a sufficient length to afford time for them to reach ripeness before interfered with by the frosts. It is demonstrated by actual experience that those products of a tropical or semi-iropical origin becomes matured in less time in this state than in the latitude of St. Louis. It is also proven actual experience that those products of a tropical or semi-tropical origin becomes matured in less time in this state than in the latitude of St. Louis. It is also proven that the properties, richness, and qualities of these products compares favorably with those raised at any point north of the rapids of the Lower Massissippi in the neighborhood of Keokuk, Louis, or in Central Iowa, and in some instances they are pronounced of a superior quality.

The importance of devising ways and means for the protection of our orchards

means for the protection of our orchards from the severe winds, will not be questioned. These wind-breaks must necessarily be composed of beits of trees, because air is necessary for the good health of the fruit trees, and it won't do to cut it off from a free circulation in the orchard by a solid wall. Deciduous trees, such as the willow and ash and evergreen, say the News wall. Decidious trees, such as the willow and ash and evergreen, say the Norway spruce and red pine, are fast growers. We have been obliged to ferret out our own hordcultural difficulties. We have no precedents to follow. That which is a balm in New England and other states is a poison. New England and other states, is a poison

We have much to expect from a proper system of hybridizing. It is said that the bee and other insects, as well as the wild. bee and other insects, as well as the wind, have an agency in transmitting the pollen of the blossom from one tree to another. When these things are understood, it would seem that we could accomplish much in the production of new varieties of the apple, and perhaps other fruit. It is supposed that the Transcendent, Hislop, Grant, Colfax and other apples so common that the production of the petition of the society.

This is the land of insects. Our bugs and worms, our caterpillars, leaf and bark lice, ticks, ants, flies, millers, moths, borers and maggots eat long, devour late, consume the foliage of vegetation, and frequently strip an apple tree at one sitting. They are destructive when in the larva, as well as when full grown. They are the terrible enemies of the Minnesota horticulturist. How necessary it is for us to have a State Entomologist. The study of entomology should by studies in our schools.

It is to be hoped that the day is not far distant when every school house will have its flower garden and nursery, so that the scholars may also be taught the art of grafting, budding and other matters appertaining to horticulture.

Experience has taught us that mulching.

tity of strawberries and other fruit produced. It is presumed that an amendment of
the law to this effect would meet with the
hearty approval of the people.

The society at its last annual meeting
passed resolutions respectfully asking a
small appropriation to be expended under
he auspices of the society. As an incident
of the beneficial aid secured from the State,
tansas last season through the legislature
of that state granted the small sum of five
aundred dollar* to their state horticultural
ociety. With this money all the new seeding apples were gathered and forwarded to
the American pomoligical society at its the American pomoligical society at its meeting in Philadelphia. The result was that the new state took the first premium that the new state took the first premium

in our gardens, are the accidental results of hybridizing of the Siberian with the common apple. If by the result of accidental propogation choice and new varieties of fruit have been introduced, there is no end to the bright hopes that may be realized by the educated hand of man in the same field.

The society will have occasion to use their influence to protect the people of the State from the imposture of tree peddlers. These sharks frequent every locality. It is only safe to purchase trees from reliable nurserymen and their agents.

This is the land of insects. Our bugs and worms, our caterpillars, leaf and bark

ing to horticulture.

Experience has taught us that mulching is necessary. There is not a tree that bears fruit, not a shrub, or vine, or cane that produces berries but all are the better for this handiwork. Plant as we may, cultivate as we will, or whatever may be the quality of the soil, or however favorable our grounds may be, mulching is indispensable. It is necessary in cold weather, in warm weather—necessary at all seasons.

it winter as we will, or whatever may be the quality of the soil, or however favorable our grounds may be, mulching is indispensable. It is necessary the cold weather, in warm weather—necessary at all seasons.

The important matter of pruning will occupy your attention. We all want to know at what season of the year it is best to apply the pruning-kinfe. Some of use favorable to early spring, some one time, others at another. My own experience is that the first of June is the best season. Trees should be cut back for their own good, and the question is, at what season of the year should this be carried into execution?

The society should impart to the people of the state what varieuses of soil is best adapted for setting out orchards. The lay of the land, or the exposure of the sunface should be considered. A morther exposure with clay subsoil, is desirable.

The subject of grafting is one fraught with much moment to us, and we are now educated to one fatt in this matter, and that is, the only reliable trees for this section are those which are grafted in the root. Slock grafting will not answer for purposes at all. Many of our unassymen who propagate only hardy trees are prone to use tender varieties of apple tootser of grafting purposes. In consequence of this over sight, unless the trees use protected by heavy mulching, they are liable to root-kill in the winter. Thousands of Siberian crabs were killed a few years sincein consequence of being grafted into the tender varieties of apple tootser or grafting purposes. In consequence of this over sight, unless the trees use protected by heavy mulching, they are liable to root-kill in the winter. Thousands of Siberian crabs were killed a few years sincein consequence of being grafted into the tender varieties of apple tootser or grafting purposes. In consequence of this over the proper orficers to make animal returns of the quantity of grain miked, the number of horizon. The social proper orficers to make animal returns of the quantity of grain miked, the number o wanted to make us ravored beyond the lot of almost any people, is more attention to horticultural matters. This can be done without neglecting our crops of grain, our great healthy fat stock, and the general

great healthy fat stock, and the general work on the farm.

Croakers we have. They are found in every community, but they are growing less and less each year. It is expected that there will be no croaking by and by. They are becoming convinced. When they see the same varieties of apples, such as the Duchess of Oldenburg, the tetofsky, the transcendent one-third larger—of an infinitely superior quality over those grown in the east and further south—it is expected they will be willingly convinced. Probably it is a law of nature that all apples that reach maturity here are larger than those raised from five to ten degrees south of us. When we consider what has been accom-When we consider what has been accomplished, the manner in which so many obstacles have been overcome, we cannot but feel that we have a bright prospect for our future success. Let the society then renew

It is to be regretted that the President.
John S. Harris, the best horticulturist in
Houston county, cannot be with us. He is
confined to his home by severe illness, but
he sends his heartfelt greetings, and assures the society of his continued co-operation with the members in forwarding the
good work. He writes that his faith increases every year that we are to have a good work. He writes that his intentile low heads.

creases every year that we are to have a low heads.

Col. Robertson—If we follow nature,

able address.

The third subject of discussion, "Taking up, handling and planting,"

"Taking up, handling and planting,"
was taken up.
Gideon.—Objected to cutting off the tap root; took great pains in planting to have foots in plenty; did not tramp the dirt, but pressed it with his hands; mulched; never watered. In packing, used moss, taking pains to have it between the roots; considered dry straw next to nothing.

"Taking up, handling and planting,"
ing trees impracticable; if successful it was miraculous. The tree might put on growth, but would seareely bear fruit.

Mr. Stewart agreed with Mr. Robertson; had moved a tree in the fall, transplanted three times previously and the nast

tween the roots; considered dry straw next to nothing. In setting out, cut back in proportion to the amount of root; had cut some back to stubs, but they did not grow; would leave some top preferring low ones—under one foot; those with a tap root always do best; preferred No. 1. one year old trees. He never had a low-headed tree sunburned.

Transplanted three times previously, and the next season it bore forty-seven apples.

Mr. Grimes instanced similar successes, but thought Col. Robertson's theory of moving bearing trees impracticable in Minnesota.

Mr. Smith, of Ramsey, thought the pruning of bruised roots a very important item; he instanced the cutting of roots by a gopher, which brought the

sunburned.

Grimes—We cannot be too careful about cutting or bruising the roots; as to ago, recommended from one to two years old, never over three. In setting years old, never over three. In setting out, would trim the roots from beneath—if not so cat, they may become diseased; approved Mr. Guleon's plan of setting, excepting he would dip the roots in water; mulching was equal to a life policy; in the fall-planting would mound up, but preferred spring-setting; would procure trees in the fall and head in.

Stevens—Trees should be taken up without bruising or drying them; thought side roots more beneficial than the tap root; thought transplanting benefitted the trees.

Gideon had trees of the same varie-

ty, some of which died, the others doing well; on examination he found in each instance that the dead ones had no tap root. They were, however, set on the shallow plan; had not adopted the deep planting until last spring. He generally leaned his trees to the south-

Jordan—Nature favors the tap-root had not favored the practice of cutting off the roots; thought the most successful plan was to set the whole root using No. 1 one year trees, and head-

Mr. Dart had, in Wisconsin and in Minnesota, two thousand trees in orchards; he paid no attention to the tap root; never watered; at first adopted the low top plan, but tired of it because he could not cultivate; trees must be cultivated. He then brimmed up so that he could cultivate with horses, and had good success; thought that with side roots the tree grew faster; thought many of the new seedlings must fail; did not favor the large hole —it stimulated too large a growth; favored large trees; the low trees were only "fashionable;" would mulch in severe drought; had injured trees by mulching and then neglecting it—if it is commenced, it must be followed up; clean cultivation is the best; favored

Mr. Wheeler asked what would make a tree bear.

Mr. Theo. Bost, of Carver, said h and two trees, one near a cattle yard, which was thrifty but barren; the other, further from the yard, was not so thrifty in growth, but bore well.

Col. Stevens tavored young trees and one heads.

In concluding this imperfect address, I hope you will permit me to suggest to the society the necessity of a correct report of our deliberations. The people should not be deceived, but a correct report of the proceedings should be sown broadcast over the whole Street. the tree—cited numerous authorities to confirm his statement; trees were made A word more and I am done. There is no reason why a person who propagates a new variety of apples should not have all the benefits of that discovery. The property is a much his as any property on his farm, and he should receive the benefits of his property. Trusting that our labors may be crowned with success, I leave all these matters to your better judgment.

A vote of thanks was tendered for the able address.

tree into bearing.

Mr. Bates did not use heavy wax on

grafts; did not care for the fibrous roots in transplanting; if you removed

to the top.
Mr. Brush would mulch in winter and remove after frosts; favored day's cultivating before setting trees; set about ten feet apart.
Adjourned until 9 o'clock, A. M.

SECOND DAY.

The Society met pursuant to adjournment, the President, R. J. Mendenhall,

of the Society?"

of the Society?"

A few remarks by Mr. Stuart.

Mr. Dart explained the object, as he supposed it to be.

Mr. Elliot read from Miller's Western Pomological Record the rules of the American Pomological Society, in explanation of the training of the state of the best kinds. The Golden Cap is the best and most hardy of the yellow varieties.

S. T. Grimes, of Minneapolis, agreed with what Mr. Truman Smith said in regard to the different varieties of raspplanation of the topic, as he supposed Discussion by Messrs, Leland and

Stuart upon the record read by Mr. Considerable discussion followed in regard to the rules, when the following rule No. 1 was amended to read as fol

That no variety of fruit shall be recommended by the Society for general cultivation until it has been cultivated for at least three years in three different sections or localities of the State.

The other rules presented was refer-

standard pears, and they all are doing well. Mulched with swamp hay, reclose planting; until the last year his experience had been in Wisconsin.

Mr. Gideon never took the mulch away; when it rotted he added more to it; thought a high topped tree was about as useful as a six-foot-neck on a suseful as a six-foot-neck on a six-foot

Mr. Hamlinton moved that the society recommend the Flemish Beauty for trial. Carried.

On motion of Mr. Harkness it was Resolved, That the sense of this society btained by taking the vote of the memb on the different varieties recommended for culture—in their order as to hardiness, No. 1, 2, 3, &c. No. 1 shall be understood to be recommended for general cultivation; No. 2, for favored locations; No. 3, for fur-

Carried.

Moved that discussion on varieties of apples be postponed until the afternoon

Mr. Leland offered the following resolution which passed:

Resolved, That this society recommend he public to be cautious of buying fruit rees from any but well known and reliable persons, preference being shown to Minneota grown trees.

It was then, on motion of S. Bates, determined that the society take measures to be represented at the next annual meeting of the State Pomological

Society.

Mr. C. M. Loring offered the follow ing resolution, which was unanimously

Resolved, That a committee of three be appointed by the chair to visit the State University and Agricultural College, for the purpose of gaining information in regard to the Horticultural education of the fruit.

Mr. Stewart agreed with Mr. Robertson; had moved a tree in the fall, transplanted three times previously, and the next season it bore forty-seven in the several papers, for the information of the people of the State.

put the motion, and it was unanimously adopted.

SMALL FRUITS.

roots in transplanting; if you removed the leaves in transplanting it would not kill the tree, and fibrous roots were to one of these trees what the leaves were to the top.

Mr. Brush would mulch in winter

The subject of small fruits was then taken up for consideration, and Mr. C.

M. Loring, of Minneapolis, stated that he had a variety of blackberry, which he was cultivating, that was very hardy he was cultivating. and quite prolific, which he called the Bolton from the name of the gentle-

man who propagated it. It was a seedling of rare merit.

Mr. Truman Smith, and all, agreed that sandy soil was the best for this de-

scription of fruit. and Brinkle Orange, the best kinds The Kirtland is the best of the blacks

berries.

Mr. Truman Smith has cultivated both the Miami and Mammoth Cluster.

He had noticed that the roots of the latter were always black, while those of the first were white. He did not protect in any way any of his blackcap berries. He also spoke of Long's Everbearing in high terms. His practice is to keep his vines well cut down, which has a tendency to make

more fruit.

The subject of cherries having been taken up, Mr. Truman M. Smith, in reply to a question, stated that he had at different times tried at least fifty The other rules presented was referred to the committee on by-laws and the constitution to report at the next annual meeting.

The other rules presented was referred to the committee on by-laws and the constitution to report at the next warieties of cherries. The early Richmond, or Early May, he said, was the best of all when grafted on the Black Morillo stock. The English Morillo for the design of the committee of the committe was then taken up. Col. Robertson had planted dwarf pears worked on the Quince, all were killed. He planted 60

Morillo stock. The English Morillo has fruited and done very well, but is not as good as the Early Richmond. The Black Tartarian, May Duke, and others of that class are not hardy, and others of that class are not hardy, and

Framan M. Smith wanted to hear from the Society in regard to grapes.

Mr. Gideon's experience the last sea

Jacob Miller, of Ramsey county, thought that every thing depended on planting. The ground should be side trenched. The side hills was the best ground for them. Gravel he said was ground for them. Gravel he said was the best. If there is no gravel fill up the best. If there is no gravel fill up the trenches with rocks or bones. In summer they should be cut back, say the second week in August. Delaware was the best grape to plant. He illus-trated his mode of planting grapes. He trimmed the roots every year. Wine made from grapes raised in clay soil was never clear. He planted his grapes from six to eight inches deep. from six to eight inches deep.

Mr. Smith said that last season was

the worst for grapes for several season was the worst for grapes for several seasons, but he had about two tons. The Delaware was the best grape for general use. Considerable discussion followed in regard to grape culture, which was participated in by several of the members.

ticipated in by several of the members.

Mr. Grimes offered the following resolution, which was adopted:

Resolved, That the professional and amateur horticulturists of the State be requested to furnish specimens of Minnesota seedling fruit trees and plants to the experimental garden of the State University, for trial and exhibition.

Mr. Dart offered the following

Mr. Dart offered the following 'reso-

lution:

Resolved, That three feet is the proper average height at which apple trees should branch in the orchard, and that sixteen feet each way is the proper distance between

After discussion the resolution was adopted.

The selection of apples was then re-commended, when the secretary was directed to send circulars to all persons in the State engaged in the cultivation

of fruit.

Mr. F. M. Smith moved that the chair appoint a committee of three from the south part of the State to recomment varieties of apples and fruit for general cultivation in that part of the State and a similar committee from the north part of the State to report to the secretary. Adopted. secretary, Adopted.

The president appointed the following gentlemen as such committee: J. S. Harris, S. Bates, A. C. Hamlinton for the southern part of the State, and for the northern district, Col. Stevens, Wyman Elliott, Lewis Martin.

Col. Robertson asked if there was any way by which the amount of apples raised last season could be ascertained, when it was decided that at least 15,000 bushels were raised.

Committee appointed on wine : Col. Robertson, Mr. Leland and C. M. Lo-

ring, who made a favorable report.
On motion of Col. Stevens, it was resolved that when the society adjourns, it stand adjourned to meet at Minneap-olis on the 4th of July next.

On motion, the President appointed the following gentlemen to write essays on the following subjects:

1st, Preparation of orchard ground be-fore planting—O. F. Brand, of Rice coun-

2d, Varieties of apples, and to what soil adapted—Wyman Elliot, of Hennepin county.

3d, Orchard cultivation, site and protection, and distance to plant—S. Bates, of Winona county.

4th, What constitutes inherent, organic hardiness, and what properties of soil are essential to hardy growth—Col. D. A. Robertson, of Ramsey county.

ertson, of Bamsey county.

5th. Timber trees, and how to cultivate,

Theodore Bost, of Carver county.

6th, Cultivation of small fruits—C. M. Loring, of Minneapolis,

By Mr. Loring:

Resolved, That the thanks of this Society be tendered to the North Star Grange of the Patrons of Husbandry, for the free use of this Hall.

Resolved, That the thanks of the society be and they are hereby tendered to the Pacific, the Milwaukee, St. Paul & Minne-

apoirs, the St. Paul & Sioux City and the Winona & St. Peter railroads, for half fare tickets, and that a copy of this resolution be forwarded to the presidents or superintendents of each of these roads by the secretary of the society. retary of the society.

The society then requested all persons who are raising fruit in this state to send their names to the correspond-

to send their names to the corresponding secretary at Faribault, Rice county, at as early a day as possible, so that they may receive copies of the report.

The official report will be published in pamphlet form in a few weeks. This report will contain all the proceedings of the society since its organization.

J. W. HARKNESS, Sec.

General Proceedings.

new inquiry in apple trees which has developed in the garden of Mr. Wm. M. Harrison of this city. Messrs. Mendenhall, N. Washburn and J. S. Shearman, of Illinois composed the latter committee. A proposition that individuals joining the Society now be considered members until the annual meeting in the autumn of 1871 was found to meet the approval of those present.

The meeting alignment of the second of th committee. A proposition that indi-The meeting adjourned until Tuesday proaching fall Fair. morning at eight o'clock.

MORNING SESSION.

The State Horticultural Society met at the rooms of the Board of Trade on Tuesday morning, John S. Harris, the President presiding.

The committee chosen at a former meeting, Messrs. Mendenhall, Washburn and Shearman, to examine the apples in the State. trees in the garden of Wm. M. Harrison, Esq., which had recently shown a peculiar blight, had attended to their J. W. Harkness were appointed such duty and submitted the result of their

Mr. Mendenhall remarked that the insect was a compensating agent of nainsect was a compensating agent of nature, and that often they went to the healthicst tree as well as any other.

This blight was a new phenomenon in this quarter, and he felt it was a question of great invertance.

**Eurgreens — Norway Spruce, Scotch, Austrian and White Pines, Arbor Vite, Red Cedar.

**Deciduous Trees — Box Elder, White Maple, Mountain Ash, White Birch, White Elm, Butternut. tion of great importance.

Mr. Washburn, who submitted the report said that the trees of this garden journed. were transplanted into a soil too much enriched, nature had been forced by this method of manuring and dressing so that she revolted at the treatment, and by checking this superabundance of growth had sent this little agent to bore into the new twig at the base and thds given us to understand that we must study better our soils and the cultivation of fruits. Mr. Washburn presented the veritable bug as found in one of the branches, and Mr. Mendenhall gave the history and habits of the creature as authorized by Harris' treatise on insects.

Mr. Shearman, of Illinois, said that it had long been an anxious matter with him in regard to what caused the blight in apple trees which was prevalent in Mr. Harrison's grounds at this time. He had often wanted to lay it at the doors of an insect, but until this morning he had never discovered them. But Mr. Mendenhall's investigations satisfied him.

It was moved by Mr. Charles Hoag, that the committee hold this subject in charge through the season, and at the annual meeting present a full written report of their investigations regarding the nature and habits of this insect. Adopted.

PREPARATION OF SOILS FOR TREES.

This topic of discussion was enlarged upon by the President and others. Mr. STATE HORTICULTURAL SOCIETY. Harris said a difference of opinion prevailed. He thought we should avoid A DISCOVERY IN THE BLIGHT IN APPLE digging a deep hole and filling with rich earth or manure. Ground should be well plowed, and trees planted rather shallow, well mulched, and cleanly cul-The State Horticultural Society held tivated—avoid late cultivation, or late a preliminary meeting on Monday after- mulching, which will promote a late noon at four o'clock, at which the growth. Trees are lost the first winter principal business transacted was the because the wood does not ripen, being appointment of committees to arrange pushed so late in the fall. Mr. Menthe order of business at the following denhall corroborated the statements day's session, and to investigate the and endorsed the views of Mr. Harris. Adjourned to 11 P. M.

AETERNOON SESSION.

After an extended discussion in regard to matters appertaining to horticulture,

It was determined that the State Society should appoint a committee to visit the different orchards in Minnesota; report the manner in which the trees are cultivated, the variety of soil, the kinds of apple raised, together with all and every information that may be necessary for those who wish to raise

After a full consultation Col. John H. Stevens, Hon. R. J. Mendenhall and committee.

The following is a list of shade and ornamental trees recommended for general planting by the Society:

After the transaction of business of ordinary importance the Society adEron's (writer 1870) 7 AVENDS

4 his were mistrateen!

disturbed pasturage we may now behold broad fields, stretching away

plums, wild grapes, strawberries,

certain localities of limited extent.

a little with which to locate in some

their lives. How many a poor wife is almost broken-hearted, and weeps

bitter tears when memory compels her to contrast her present lot with

the past, the days and the home of

her girlhood, an i she would almost exchange every hope of her life for one day's ramble in the orchard and garden of the old home,

that she might feast her eyes upon the rosy-cheeked apples, golden

peaches, and luscious, melting pears, and regale her senses with the fragrance of the little flower bed in the garden, and she cries, "Alas! alas! will it always be so?" No, my

friend, it will not always be so.

I perceive that I am digressing from my subject and I will again

return to it. This cry against the

possibility of raising apples was at

its height in the years 1865 and '66. About this time Col. Robertson, of

St. Paul, entered upon the work of collecting the experience of those

who had attempted to raise fruit,

with the view of digesting and sift-ing it to see if there was not a ray of

hope that by some process of cul-ture a few varieties might be found

that would endure our climate and

produce fruit. This work resulted in stimulating a few persons, who

had never given up to the popular opinion, to make a more thorough

trial and a final settlement of the

whole country that apples could not be raised in Minnesota, this Society

developed as by magic.

Annual Convention

OF THE

Minnesota State Horticultural Society.

Tuesday, Jan. 17th, 1871. The Convention assembled at Firemen's Hall, in Faribault, at 2 P.M.
The president, J. S. Harris, of LaCrescent, called the Convention to order. In the absence of the recording secretary, A. W. McKinstry of Faribault, was elected secretary of Faribault, was elected secretary

The minutes of the last meeting were read and approved.

On motion the president's annual address was made the special order

for Wednesday at 2 P. M.

Mr. Leland from the Committee appointed to prepare a new Consil-tution and By-Laws, submitted a the president.

report.

The report was accepted. It was moved that the Constitution be taken up and acted upon article by ar
The president.

The minutes of Tuesday's proceedings were read by thesecretary, corrected and approved.

Mr. Mott, in behalf of the Direction of the

rately after some amendment.

The By-Laws were adopted, after vitation for the

The question coming up upon the Constitution and By - Laws, as to accept the invitation for Thurs-

amended, on motion the subject was laid upon the table.

Mr. Brand moved that the Chair appoint a committee of three to report topics for discussion. Carried.

Mr. Brand moved that the Chair appoint a committee of three to report topics for discussion. Carried.

He would like to become a life mem-

O. F. Brand, P A Jewell, and Wyman Elliott were appointed such
committee.

On motion the treasurer proceedwould like to become a life included ber, but was was waiting for the Society to issue suitable certificates.
Col. Stevens suggested that it
would be better to have them lithoed to collect the annual dues. Ad- graphed. journed to 7 P M.

EVENING SESSION.

The convention was called to order by the President.

tural Society.

The Committee on topics for discussion made a report. The report be printed. Carried.

[The essay is necessarily deferred]

The report of the Committee on until next week.]

On motion of Mr Harkness, the the Constitution was taken up and lebated.

Mr. Jewell moved to lay the report on the table for future consid-Carried.

On motion, Convention proceeded to the discussion of the topics preof Business

The first was read by the Secretary, viz: "The expediency of electing a delegate to attend the next annual meeting of the American Pomological Society."

was, on motion, declared unani-

mously elected.

Mr. Jewell declared his willing-ter. ness to go, as the Society wished, and hoped every member of the Con-vention would aid in furthering the of ject of his mission by sending to him specimens of the finest apples, and other fruits the State produced.

Mr Cook moved the appointment a committee of three by the chair to solicit an appropriation of \$500 from the Legislature to further

the objects of the Society. Adopted. The chair appointed Col J H Stevens, Wyman Elliott and Truman Smith.

The 2d topic was announced, viz: The expediency of securing a report oncerning all the orchards in the State.

Mr Mott moved the appointment of a committee of three to visit the orchards of the State, in accordance

the language of the proposition by adding the words "as far as practicable." Carried. Carried.

Mr Leland moved as a further amendment that two more be added to the committee. Adopted, and the resolution as amended was then carried.

The president appointed as the committee Wyman Elliott, of Minneapolis, A C Hamilton, of Winona, P C Cook, of Blue Earth, O F Brand and J W Harkness, of Faribush bault.

Mr Jewell announced the presence of Mr Chas Waters, an experienced nurseryman of western Wisconsin, and moved his election as an honorary member. Adopted. Adjourned to 8 o'clock Wednes-

morning. WEDNESDAY MORNING.

Convention was called to order by

cle. Carried. tors and Superintendent of the The articles were adopted sepa- Asylum for the Deaf and Dumb and the Blind, presented an inconvention to visit that institution.

Mr. Dartt moved that the matter

be referred to a committee of three. The Chair appointed Mr Dartt, A W McKinstry and Col Stevens

der by the President.

The Secretary read a communication from D. Wilmot Scott, Secretary of the Northern III. Horticultural Society.

The hour having arrived for the reading of essays, one was read by O F Brand, entitled "A Fundamental Principle for the Minnesota Horticulturist."

Col. Stovens moved that the essay

other members designated to pre-pare essays who had not done so, were requested to prepare them and hand to the committee on publica-

to the discussion of the topics presented by the Committee on Order of Business.

The first was read by the Secretary, viz: "The expediency of the convention proceeded to the discussion of the fourth topic, viz: The best plant to be used for hedging purposes, and method of cultivation.

The Chair announced that the question would be divided, the subject of varieties being first discussed. can Pomological Society."

Mr. Leland moved that the Society elect a delegate to attend such

Convention Carried

Mr Brand presented a communication in favor of the Barberry, written by Mr H Thacker, of Onei-

da Community, which was read.

Mr Mott related his experience On balloting for such delegate, P.

A. Jewell, of Rochester, having received all but two of the votes cast, hedge four years ago and did not hedge four years ago and did not think he had lost a plant. Had cov-ered with loose straw the first win-

Mr James Hoffman had tried almost everything, and had failed, but believed that cottonwood would make a good hedge. Could have a hedge in four years from the time of

setting.
Mr Jordan had no faith in the Osage Orange, and gave his experience with the White Willow. Had put out cuttings four years ago and now had a good fence.

Mr Leland approved the willow. If set two feet apart they will produce large timber. If set eight inches apart nothing will get through. They will grow twenty through. They will grow twenty feet high in two years if let alone.

Mr Harkness preferred willow next to barberry. Thought the prin-cipal objection to them to consist in with the proposition.

Mr Harkness moved to amend Considered cottonwood a nuisance.

Mr Mott said the plum had been mentioned. Dr Jewett had planted the wild plum, but it became such a nursery of worms that he had to cut it down. He would suggest the

prickly ash.

Mr Kenworthy said the ash was very thorny; the willows except the river willow would seed everywhere within twenty rods; were a

Mr. Dartt favored the white willow; thought the barberry would not turn beasts.

Mr Hoffman's statements respecting willows seeding agreed with Mr Kenworthy's.

Mr Jewell said both cottonwood and willow might turn cattle in a few years, but they impoverish the soil; would spoil half the crop with-in range of their roots, besides they grow too high for a hedge. The bar-berry is perfectly hardy; had seen bushes 15 to 20 yrs old; had no doubt of its affording protection against cattle; thought Mr Mott's test of the Sage orange not a fair one, as his hedge might have been protected by

Mr Jewell opposed cottonwood on account of its sowing its seed broad-

Mr Harkness offered the following

resolution:

Resolved, That we recommend for trial as hedges, first, the Barberry; 2d, the White or Grey Willow; 3d, Lombardy Poplar; 4th, Wild Plum; 5th, seedlings of he cultivated crabs. Mr Dartt offered an amendment

to put willow first in the list.

Mr Waters strongly favored the barberry. Considered it useless to grow a hedge of any plant that could not be clipped to keep it in bonds.

Amendment lost. Mr Howe offered an amendment

to add the crab to the list as fifth in order, and spoke highly in its favor for hardiness and beauty.

Mr Dartt moved to lay the motion upon the table. Carried.

Mr Harkness offered a resolution to recommend for trial first, the barberry, second, the white willow.

The question was divided, and taken first upon the barberry, which was decided in the affirmative.

The question was then submitted upon the white willow and lost.

On motion of Mr Harkness the 5th and 6th topics were made the special order immediately after the President's address, in the after-

Mr Harkness moved that the president appoint a committee of three to change the form for the submission of those topics. Carried.

Chair appointed Messrs Stevens,

Harkness and Howe. The Chair offered the following

resolution: Resolved, That in the opinion of this Society, the nursery and orchard trees in this State are in good condition for wintering safely, up to the present time.

The question was discussed by Messrs Jordan, Mott, Brand, Jew-Hoffman, Herkness, and the

Mr Elliott submitted as a substitute for the resolution, the follow-

Resolved, That in the opinion of this Society the nursery and orchard trees of this State are in good condition for wintering up to the present time, where properly mulched, and that in consequence of the lack of a sufficient quantity of snow, we recommend to all who have not mulched their trees to do so immediately, to pre-

The resolution was adopted. Convention adjourned to 2 o'clock P M.

WEDNESDAY AFTERNOON.

The Convention was called to order by the president, who proceeded to deliver his annual address.

ADDRESS OF PRESIDENT HARRIS.

Although I am an enthusiastic lover of Horticulture, I feel my inat that time was raised in my orcompetency to deliver an address suited to this occasion. I would like chard; but I was a stranger to every Horticulturist in the State, and hailed from a locality unknown to Straw to give you a history of the progress the art of Horticulture has made the majority of the people in attendance at the fair. But meagre as the since the first currant bush and geranium slip was brought into the display was, and unknown as was State, on the rear end of an emithe exhibitor, it created a sensation grant wagon, down to the present date; but it would require the labor which resulted in the organization of months to gather the statistics to enable me to do so with any degree of accuracy, although it extends over but a few years of time. It is scarce have transpired, the majority of the people now believe in the ultimate twenty years since the whole of our success of the apple. The ball is rolling on. The exhibition of fruits State was a wilderness—the home of the wild Indian. Where beautiful is beginning to be a leading feature of our fairs, and thousands of trees and stately mansions now stand, scare a decade of years since the blue are being planted now where dozens smoke curled upward from the rude were then. wigwam, and where then the buf-The people all over the State are falo and deer found ample and unawakening to the importance of planting trees, and now the oppor-

tunity occurs for us to exercis until lost in the distance, that in summer are covered with golden influence for good. It devolves upon us to ascertain the causes of the many failures that still occur, and grain, furnishing the staff of life to millions of human beings. Thrivthe way by which they may be avoided. Some action should be ing villages are springing up all over the State and its resources are being taken at this meeting in reference to new Minnesota Seedlings. I am in-Previous to 1865 the fruits of the State were chiefly wild crabs, wild clined to believe that we may hope for much from this source, if adopt measures to thoroughly test plueberries and cranberries, and the many varieties now growing in many of these were found only in the State. I recommend only such to be propagated and sold as were A great many trees of apple, plum, hardy, productive, and reasonably good. This would enable the peoand cherry, had been planted pre-viously, but they met with such good. This would enable the peo-ple to purchase intelligently, and certain and speedy death during the could not possibly be any disadvanfollowing winters, that it came to be believed by about ninety-nine out of every hundred that it was tage to the nursery men. And for the greater protection of the people, And for all agents representing nurseries in other States should be required to ueeless to attempt to raise fruit in such a cold country. The farmers settled back upon this opinion and have a certificate from the proprietor of such nursery showing that they are authorized agents, which should be endorsed by the President claimed that our natural fruits must suffice them until they could make or some member of the Executive Committee of this Society. I have better country. A majority of our citizens have lived in the eastern other suggestions to make having a States and been accustomed to an direct bearing upon the usefulness and prosperity of the Society, but they will come in more naturally at unstinted supply of apples, peaches, pears, plums, cherries, &c., and to be deprived of them and have no the close of my remarks and I will hope of ever seeing or using them more, takes all the poetry out of pass on to notice another depart-

ment of our work. Up to the present time we have scarcely entered upon the field that lies open before us, the apple question being considered s tous that it has occupied the greater part of our attention, but there are other fruits but little behind that in importance which ought to be grown by every farmer—yes, by every household in the State. It devolves upon this Society to array them before the public and point out the best varieties and instruct in the best methods of propagation, cultivation and protection.

Ignorance of the scientific part of Horticulture is one of the most prolific causes of failure. No doubt the majority of the people are excusable for this ignorance, for they have been their own schoolmasters, but if this Society will collect, digest and disseminate the information that can be derived from the experience of the best and most successful fruit growers and encourage experiments, nis darkness will begin to lift, and the quantity, quality, and variety of the fruits grown and consumed will continue to increase very rapid understood, I believe that Minnesota will produce pears that will rival those of California in size and beauty and excel them in quality, and at an early date they should be discussed question. Soon after this, and while it was yet believed throughout the in our meetings.

Grapes are already coming into be raised in Minnesota, this Society was organized, and scarce a dozen men could be found in the State that would enter into this Horticultural organization, because they had

no faith that it would result in a success. Nearly all the fruit on exhibition at the State Fair being heid which to plant, and save themselves at that the property of the save that the save that the save that the save that the property of the save that th the vexation of waiting for grapes and lo, they have nothing but wild

Strawberries and Raspberries are perfectly at home in our climate, and so easily grown that there is no excuse for being without them, and the Currant will yield its fruit for every one who will take the trouble of this Society and the dawn of a to plant the bushes. Still this Society may do much to improve and though but little over five years them. Thus far the tame plum (Prunus Domestica) has succeeded but very indifferently, and in most localities it is money thrown away to plant them extensively. But we have native plums but little inferior to the best of them, and if they were looked up and brought into cultiva-tion they would very likely improve and become good enough. It is claimed by the best Botanists that the Sloe (*P. Spinosa*) is the original parent of the tame plum. If such

large and delicious fruit as the Washington and Bleeker Gages have been derived from so humble a parentage what may we not expect from our own (P. Americana). I fancy our children may yet produce the fruit as large as goose eggs, and better than the gages.

There are many other varieties of

fruit that are worthy of your notice, but I will pass them by for the prebut I will pass them by for the present and call your attention to the flowers, the loveliest of all God's gifts to fallen man. The love of them is almost universal. It seems to be a principle of the human soul to love the good and the beautiful. This love manifests itself in the child at a very early age, and ought to be encouraged and cultivated. It is in the power of man to make his is in the power of man to make his home a paradise but little below that garden "in the eastward of Eden," where the Beneficent placed our first parents before the earth was cursed for their disobedience and made to bring forth "thorns and thistles." What is so attractive to the traveler as that modest, unpretending cottage where the ivy, the woodbine, and the honeysuckle twine about the piazzas like pleasing memories about the good man's life, and the rose, the queen of flowers, stands sentry upon the neatly kept lawn, and the pinks, verbenas, and violets trail or peep out along the walks, regaling each passer-by with their soul-reviving fargrance? In the back ground stands the welltrained orchard, groaning beneath its load of fruit. There are no briars or thistles crowning the fence corners. No rubbish piled in the street. No weeds upon the lawn. Good books lie upon the table within and pictures hang upon the walls. Without there is an air of comfort. Without there is an air of comfort. Within peace, virtue and love. The owner has the respect of his fellowman, and good angels hover about and keep his loved ones. He that is so poor or lives in a clime so ungenial that he cannot have such accountable to the cannot have a contract the cannot have a contract to the contract to surroundings, merits our pity and our prayers. Such a home exalts the mind of its possessor, reveals to him that he possesses a soul, and lifts him up toward the great God who gives the fruits and makes the flowers so beautiful that "Solomon in all his glory was not arrayed like one of these."

It is the mission of this Society to encourage Floriculture and home adornment, by bringing such influences to bear upon it as shall arouse and set into action this love. It may be nearly crushed out of the majority of the householders of this age, in some by greed of gain, in others by the trials and hardships of pioneer life, but it never entirely dies, but if it did, we might teach wheat and pork is not all that gives enjoyment in this life. To further this end, I hope our Society will hold Floral exhibitions and award premiums, not so much to remunerate the professional gardener as to encourage the sons and daughters of the farmer and mechanic.

I am not satisfied with what I have said on this subject. Had I the talents of a Clay or Webster, or had I the eloquence of a Patrick Henry, could I speak with the tongues of fire and paint in pictures of gold, I would exhaust them all in trying to persuade my fellow Minnesotians to beautify their homes. Never, never, can I forget the expression of joy that I have seen light up the eyes of the toil-worn, almost broken-hearted, wives of farmers at the sight of a rose-bud or recommend the sight of a rose-bud or recommend to the sight of a rose-bud or recommendation to the sight geranium leaf, and then, what sadness came over them when the husband was asked to purchase a little plant for them, and replied by asking what they wanted with such trash. I would be most happy if I could influence their husbands and sons to raise a few flowers or at least furnish them for their wives and sisters to cultivate. I do not hope to transform our whole State in one generation. There are men whom we cannot reach by any direct means. They do not subscribe for any Agricultural or Horticultural papers, or read any books upon these subjects. They cannot see any beauty in the row of shade trees along the roadside, or any utility in the flower-bed, and think the door-yard is the finest kind of a place for pasturing the calves. They know just what their fathers did and no more. They will not become members of this Society because they do not see the dollar's worth in it, and will never have any fruit except what they purchase or is given to them, and there will be such a dreary, repelling air about their bleak homesteads that their children will desert them and leave them to spend their declining years alone, because there is no memory of pleasant associations and happy days clustering about the old home.

I will now conclude with a few suggestions: First, we should secure a hall or room in some town that is easy of access, and commence making a collection of Horticultural books, papers, magazines, &c.
We should adopt measures to sewe should adopt measures to secure the annual reports of all the State Societies in the Union. We should gather a collection of one or more specimens of every variety of fruit that originates in the State, to jealousy, and that all of our discussions tay he profitable to corrected. be preserved in wax or by colored plates, accompanied with the name, place of origin, history, and name of originator. We should also get up a museum of Ornithological and Entomological specimens, accompanied with the history of the habits of each individual specimen. Such a museum would prove an interesting feature in our future exhibitions.

Jealousy, and that all of our discussions and be profitable to ourselves and useful to others, that all members may have a desire to receive and a willingness to impart information, and if at any time any member is more successful than we in the pursuit of Horticulture, let us rejoice with him and learn of him.

On motion of Col Stevens, the ing feature in our future exhibitions.

To secure this we must have money, and I recommend that we memorialize the present I crickety memorialize the presen and I recommend that we memorialize the present Legislature to appropriate for our use \$1,000 per year. This is certainly a very modest sum to ask for, when we consider the vast amount of money that would be saved to the State if we can raise our own fruit.

I would recommend for your consideration the establishment of one or more specimen orchards in the State, in which every new variety of fruits can be tested before they are offered for sale, and where a system of experiments could be carried.

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their sons to raise truits and their on in the way of originating new daughters to cultivate flowers which would give them present gratificating of the seeds. I am aware that the several varieties recommendately the seeds of the seeds. tion and lead them onward and up-ward to future happiness and let the world and "old folks" know that wheat and pork is not all that gives

and bees.

I think that it would be of great benefit to this Society and the State at large to be represented at the next meeting of the American Pomological Society, and therefore I suggest that before we adjourn this annual meeting we appoint a delegate who will represent us and exhibit of our fruits, and ask the State to defray

the expense.

I notice that the practice of warranting trees to live is becoming very prevalent among nurserymen. I think this practice is very unwise and a disadvantage to the honest purchaser. It gives the tree peddler who hails from unknown parts and never expects to sell in the same locality the second time, an advantage cality the second time, an advantage over the honest nurseryman who is striving to build up and maintain his reputation by selling only hardy Elliott had failed both with the and perfect stock, because this pedder's trash can be furnished for less than half of the cost of raising and marketing such trees as are wanted in this State, consequently the nurseryman is compelled to raise cheaper stock and the purchaser is the nurseryman is compelled to raise cheaper stock and the purchaser is the nurseryman is compelled to raise cheaper stock and the purchaser is the nurseryman is compelled to raise cheaper stock and the purchaser is the nurseryman is compelled to raise cheaper stock and the purchaser is the nurseryman is compelled to raise cheaper stock and the seed. Motion to strike out carried.

Motion made to strike white oak from the list. Tree defended by Mott, Howe and Harkness. Lost.

Mr Harkness inquired about American large both with the seed. Motion to strike out carried.

Motion made to strike white oak from the list. Tree defended by Mott, Howe and Harkness. Lost.

Mr Harkness inquired about the purchaser is the nurseryman is compelled to raise the nurseryman tempted to neglect giving the proper care in planting and cultivation because he expects to get a new tree next year for every one that dies.

I know of one man that has his row the swamp and planted them on of dead trees become the same and planted them on dry sandy projets. of dead trees, keeping them as carefully as others do the living, and will not purchase any more because dry sandy prairie with success. Some were now five inches through.

Mr Jewell favored the European will not purchase any more because
he expects the agent to come around
and give him some live ones. I would last as long as the red cedar,
think those dry branches will bud, blossom and bring forth fruit long as long as the white cedar.
before that agent comes back and Motion to adopt the American before that agent comes back and makes the warrant good; also, if the nurseryman is compelled to make good the losses of the careless planter, he must make up for the loss by charging a higher price to the careful, which, to say the least, is unjust. I do not know that we can take any direct action upon this, but it is worthy of our notice.

Gentlemen: We have accomplished something. Let us continue untiring in our work until every home in our State becomes a second Eden.

Motion to adopt the American Motion to adopt the American tarch was lost, and Convention voted to strike it from the list.

On the suggestion of members other trees were added to the list, which, as finally adopted for general cultivation stands as follows:

European larch, blue and white ash, cottonwood, soft maple, ash leaved maple, black walnut, white or rock elm, sugar maple, Scotch pine, white pine, butternut, white

in our State becomes a second Eden,
until our beauiful prairies become
dotted over with orchards, gardens,
and groves of deciduous and everand groves of deciduous and ever-Hudson.

ed were then taken up and adopted without opposition, with the following exceptions:

Mr. Jewell moved to pass over the ash leaved maple or box alder as an

Gen Nutting said it was a good sugar-producing tree, and grew ex-tensively near Fort Abercrombie. Had seen it two or three feet in diameter. Mr Jewell said it had been decided not profitable as a sugarproducing tree in Illinois. Mr Harkness said it was highly recommended for that purpose by the III. Horticultural Society.

It was placed on the list.
Mr Harkness moved to strike out
the Lombardy poplar. Carried.

tree had proved a success in various

mental trees for general cultivation.
The committee submitted a list

Indson.

I now retire from the office of presplitting of the limbs arose from the

Bird Cherry and Balm of Gilead

were stricken off.

Mr Cook moved to add the Buckeye or Horse Chestnut to the list.—

The list was adopted, complete, as follows: Norway Spruce, Scotch Pine, European Larch, Siberian Arbor Vite, Hackberry, Dwarf Pine, Ash-leaved Maple, American Hop tree or Iron wood, Balsam Fir, American Spruce, American Straw-berry tree or Wahoo, Soft Maple, Rock Elm, Mountain Ash, Black Cherry, Black Walnut, Sugar Ma-ple, Austrian Pine, Butternut, White Birch, High-bush Cranberry,

Red Cedar, Kentucky Coffee tree.
On motion of Mr. Jewell, the 8th topic was made the special order for the evening.
Mr Harkness moved the appoint-

ment of a committee of three to nominate standing committes, and designate subjects for their consider-

ation. Adopted.

The president appointed L Nutting, J. W. Harkness and P. A. Jewell. Wednesday Evening, Jan. 18. Wednesday Evening, Jan. 18.
Convention called to order by the Mr Dartt described the trees as president.

The treasurer's report was read and adopted. The balance in the treasury was \$64.17.

Mr Dartt offered the following res-

them to be identical. Other members were of the same opinion.

Mr Harkness presented a list of apples, and the convention proceeded to discuss the different varieties apples, and the convention proceeded to discuss the different varieties apples, and the convention proceeded to election of officers:

THURSDAY AFTERNOON.

Convention called to order at the hour of meeting, by the president.

On motion, proceeded to election of officers:

apples, and the convention proceeded to discuss the different varieties separately.

The Haas was first taken up.

Col Stevens said it is becoming much cultivated. It is very hardy, as much so as the Duchess of Oldenburg, Does well as far north as Anoka, all through the Big Woods, and in fact in most parts of the State, and upon all kinds of soil.

Mr Waters, of Wis, stated that the Autumn as hardy as other on the list for favorable localities.

Mr Humphrey considered it as hardy as the fruit was originated, or at least was carried; three dissenting votes. Staton or Fall Stripe—Mr Humphrey considered it as hardy as the fruit was originated, or at least was first brought to notice in 1801—phrey considered it as hardy as the fruit was originated, or at least was first brought to notice in 1801—phrey considered it as hardy as the outer bar for trial was carried; three dissenting votes. Staton or Fall Stripe—Mr Humphrey considered it as hardy as the outer for trial was carried; three dissenting votes. Staton or Fall stripe—Mr Humphrey considered it as hardy as the outer for the list of state, and upon all kinds of soil.

Mr Waters, of Wis, stated that the Autumn and Early Strawberry—(I) was decided that the Autumn and Early Strawberry are different varieties. Mr Borath end Autumn as hardy as other on the list for for favorable localities.

Mr Humphrey considered it as hardy as the votes but four, was on meitien, declared unanimously elected. The following officers were also dail the votes but four, was on meitien, declared unanimously elected. The following officers were also dail the votes but four, was on meitien, declared unanimously elected. The following officers were also dail the votes but four, was on meitien, declared unanimously elected. The following officers were also dail the votes but four, was on meitien, declared unanimously elected. The following officers were also deceted by a unanimous vote:

Ist Vice President, On water of the state was the votes of the State and very productive essenting votes.

faction. It should head the list; is prising the following varieties:
of red color, good size and No. 1 flaTalman Sweet, Plumb's Cider, Sops of
Wine, St. Lawrence, Price's Sweet, AlexMr Hoffman said it is a very rapid
grower and very thrifty, more so
than the Duchess of Oldenburg; had
seen many fine specimens in different parts of the State.

Mr Waters had trees bear in 4 yrs
Mr Waters had trees bear in 4 yrs
Mr Waters had trees bear in 4 yrs
In answer to inquiry it was stated
In answer to inquiry it was stated

Mr Sweet, Plumb's Cider, Sops of
Wine, Sweet, Plumb's Cider, Sops of
Wine, Sweet, Plumb's Cider, Sops of
the good will manifested toward
him by the Society during his Presidency, and his hearty wishes for
its prosperity.

In the absence of the newly elected President, the 1st Vice President,
Mr Dartt, assumed the Chair.

Mr Jawrence, Price's Sweet, Alexhim by the Society during his Presits prosperity.

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In the Absence of the Sops of the good will manifested toward
him by the Society during his Preshim by the Society during his Presits prosperity.

In the Absence of the newly elected President, the 1st Vice President,
him by the Society during his presits prosperity.

Mr Hewelt had known the fruit to keep till March when picked early.

Mr Humphrey said it would keep till May. Mr Hoffman has trees 3 and 4 yrs old full of blow buds.

The Convention adjournment of the convention and the convention at the conventi

peen sold, hence the failure to do

well in many cases.

Mr Elliott had bought some poor are good trees now. Must be hardy or they would have been dead.

Mr Dartt thinks cutting off the top injures the tree; thinks it as hardy as any tree on the list; grows alongly first year; more residly af

slowly first year; more rapidly afterwards; bears at 4 to 6 years old; would make a good dwarf; has seen 9 large apples on a tree 18 inches

stocky and straight; limbs curve upward; bark is of reddish color especially during the latter part of winter and in spring. Foliage unusually large.

In sewell presented a mandashing seedling apple originating with him and requested Mr Mott to name 1t. It was named the "Bonnie Lassie."

Mr Dartt offered the following resolution:

Resolved, That no variety of fruit should be recommended for cultivation by this society until its value is fully known, and the stock is sufficiently increased so that the demand can be supplied at reasonable rates.

After considerable discussion was laid on the table.

The report of the committee on Topics for standing committees not being ready to report the convention

Col Stevens inquired if the Winona Chief, Nonpareil, Lucy and Utter's Red were not the same variety.

Mr Jewell had seen and examined the trees and fruit and believed them to be identical. Other members were of the series opinion.

On motion it was recommended for Minnesota.

Mr Jewell's motion was adopted. The hour having arrived for visiting the Asylum, the Convention adjourned to 1½ P M.

THURSDAY AFTERNOON.

from the graft. Fruit is rather tart.
Thought it would keep till Dec.
Mr Jewell had known the fruit to keep till March when picked early.

Mr Waters had trees bear in 4 yrs were struck from the fist.
In answer to inquiry it was stated that the Sops of Wine and Early Washington are the same variety.
Convention adjourned to 8:30 to-

THURSDAY MORNING.

The Convention assembled pursu-

Resolution adopted.

A resolution introduced by Mr Elliott was also passed, enjoining upon members the duty of collecting varieties of apples.

Mr Leland moved that the Society recommend to every every series.

ty recommend to every one to buy of home nurseries exclusively.

The motion was opposed by Mott, Jewell, and others.

Mr Jewell moved that it be ta-bled. Carried.

The subject of apples was called up.
Mr. Jewell moved to place the
Phoenix upon the list for trial in
favored localities. Adopted.
Mr. Jewell presented a handsome
spedling apple origination.

Topics for standing committees not being ready to report the convention proceeded to discuss the 8th topic:

The value of the different varieties of apples, pears, cherries, plums and prunes—their hardiness, productiveness, quality and season.

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The value of the different varieties of apples, pears, cherries, plums and prunes—their hardiness, productiveness, quality and prunes—their hardiness are commended for favorable locality and the value of the different varieties of apples, pears, cherries, plums and prunes—their hardiness are commended for favorable locality and the value of the different varieties of apples, pears, cherries and the value of the value

Mr Jswell moved that the thanks of the Society be tendered to the late President for the able and effi-cient manner in which he had discharged the duties of his office.— Unanimously adopted.

Mr Jewell moved a vote of thanks to the officers and teachers of the Inand 4 yrs old full of blow buds.

A motion to place on list and recommend for general cultivation and to adjournment, the president in the chair.

The minutes of the preceding meeting were read and approved.

Wyman Elliott introduced the following.

Tetofsky—Mr Leland calls it a first-class apple. Season from 1st to 15th of August; size about as large as the Hass. Tree rather a slow grower.

Mr. Jewell thought it not so large as the Hass—about the size of the Golden Russett.

The Convention assembled pursuant to the officers and teachers of the Institute for the Deaf and Dumb and the Blind, for the courtesy extended to them in the invitation to visit the Institution, and their treatment while there. He accompanied it by some remarks eulogistic of the objects of the Institution, and setting forth its claims upon the public.

Unanimously adopted.

Col Stevens offered the following resolution:

Resolved, That the State Horticultural Society, in convention assembled, do hereby tender our best thanks to the people of Faribault for the warm many which

Golden Russett.

Mr. Jewell said it should be care fully treated. Many poor trees had pose.

and adorn the homes of their fathers and mothers, who, after the hardships and perils of pioneer life, need quiet and repose.

Society, in convention assembled, do here-by tender our best thanks to the people of Faribault, for the warm manner in which they have extended the homes of their fathers and mothers, who, after the hardships and perils of pioneer life, need quiet and repose. they have extended the hospitalities of their beautiful and enterprising city to the

members of this convention, assuring them that we feel grateful for these attentions.
Unanimously adopted.
On motion of Mr Leland, conven-

tion proceeded to the discussion of

small fruits.

Mr Nutting moved that each member be allowed to take up such variety of small fruits as he chose, and speak upon it ten minutes.— Passed, with an amendment limiting

the time to five minutes.

Mr Howe moved to recommend
the early Richmond cherry for

Mr Cook moved te amend by substituting general culture.

Mr Leland's experience was that it was vain to attempt to cultivate tame cherries.

Mr Cook knew it to be perfectly

Mr Cook knew it to be perfectly hardy, and a good bearer.

Mr Nutting had had two trees; one was killed, the other grew six or seven feet high, but never bore a cherry, and had sprouted all over his yard.

Mr. Jewell said the tree was probably not early Richmond, as that never sprouted unless budded on some other stock. Believed the tree only adapted for favorable locations. Would amend that it be recommended for favorable locations,

commended for favorable locations,
Mr Harkness thought it hardy
when propagated on Morello

Mr Jewell's amendment was lost, and the original motion carried.

Mr Harris moved to recommend the Concord grape for general cultivation. He thought of all the grapes it was best adapted for general introduction. There were better grapes; he could make more money from the Delaware or Iona, but they required a care in cultivation that the great majority of farmers would not give; recommended the Delaware to every person who is willing to take the proper care of it; it is a slow grower, and is from four to six years in coming into bearing. Gave his system of training, as follows:—would buy one year old No 1 vines, in the Fall; prune back to three or four buds; cut roots back one half four buds; cut roots back one half, and plant in Spring, 8x8 feet apart, and deeper than they grow in the nursery. After the vine commences growing fill up around it till the top bud is just above the ground; prune down in November to three or four buds; next Spring allow two buds to produce branches; in the Fall cut one down to three eyes, leaving the other to produce fruit; the folthe other to produce fruit; the following Spring let one bud sprout from the lower spur, and make it grow all that it will, to serve as a fruit-producing cane the next year, while the cane produced the previous year is allowed to bear; in the Fall cut down the cane that has fruited to two or three buds and fruited to two or three buds, and thus alternate yearly thereafter.— The grape grower must in pruning invariably make calculation for one year ahead; must not suffer too much foliage, but it will not do to strip it off in summer; clusters must he readward in the shade; the sum and motion can be suffered by the sum of the strip it of the shade; the sum of the sum of the sum of the strip it of the strip it off in summer; clusters must he readward in the shade; the sum of th be produced in the shade; the sun ruins them; pinches off laterals, but not the ends of the vines. It is useless to plant in springy ground; culless to plant in springy ground; cultivation must be clean in the fore ident, Dartt.

part of the season.

Mr Leland raised Concord; laid them down in fall and covered with

On motion the subject of Plums was taken up.

A motion was made to place the Lom-

them down in fall and covered with dirt; cautioned against uncovering too early in Spring.

Mr Jewell said the Delaware often failed by reason of the manner in which it had been propagated; if one wants strong healthy plants they must always get an old wood layer; he preferred Rogers' Hybrids to the Concord. Recommended Nos. 3, 4, 15 and 19.

Mr Harris' resolution concerning the Concord was adopted.

Mr Harris moved that layered vines of the Delaware be recommended for general trial. Carried.

Mr Eliott also introduced the Newton

Mr Harris, the Executive Committee were instructed to call a meet-

chip dirt.
Mr. Leland condemned the Chermr. Leland condemned the Cherry currant. It was a poor bearer and not very hardy. Moved that the Red and White Dutch and White Grape be recommended for general cultivation. Adopted.

Mr. Leland moved to recommend Doolittle's Black Cap Raspberry for general cultivation.

Mr. Jordan moved to amend by recommending Philadelphia Clark and Doolittle.

Mr. Harkness moved to amend by substituting Philadelphia Miami Mr. Leland condemned the Cherry currant. It was a poor bearer and not very hardy. Moved that the Red and White Dutch and White Grape be recommended for general cultivation. Adopted.

Mr. Leland moved to recommend Doolittle's Black Cap Raspberry for general cultivation.

and Doolittle.

Mr. Harkness moved to amend by substituting Philadelphia Miami and Doolittle. Lost.

Mr. Mott spoke highly of a native Black Cap he had procured in the woods; was better than the Doolittle. Had fruited it eight years. Moved to amend by placing best native varieties of Black Cap at head of list. Lost.

Mr. Jordan moved to amend by adding Purple Cane. Lost.

Mr. Elliott moved to add Seneca Black Cap to list. Lost.

The question was then put on Mr.

Apricot—No. 1 and 2, and Long Yellow.

Mr. Grover, Richfield.

Peter M. Gideon, Excelsior, Minn., Excelsior plum.

Charles Waters, Springville, Wis., large red.

The Committee on Standing Committees and Topics presented their report which was accepted, and adopted, with slight amendment, and Committees appointed as follows:

Mr. President and Geutlemen:—Your committee beg leave to recommend the appointment of the following Standing Committees; a fall be to prepare a list for the consideration of the Society, of all fruits they deem worthy of cultivation.

Wyman Elliott, P. A. Jewell and J. S. Harris were appointed such committee.

Black Cap, a native Minnesota variety, be recommended for general trial.

A motion to amend by naming it the Harkness Black Cap Raspberry carried, and the original motion as amended, was adopted.

The following strawberries were then, on motion of various gentlemen, recommended for general cultivation:

Wyman Elliott, R. J. Mendenhall, and N. Washburne appointed such committee.

4th—A committee of arrangements to Superintend the annual exhibition.

J. W. Harkness, P. A. Jewell, and E. H. S. Dart appointed such committee.

The subject of warranting trees by nurserymen was brought up and discussed fully.

The practice of warranting trees is thought to practice.

THURSDAY EVENING, Jan. 19th.

Mr Jewell moved that Rogers' hybrids, Nos 3, 4, 15 and 19 be also recommended for general trial.—Adopted. Mr Harris thought the Iona was doing well; much better than when Dr. Grant sent it out.

Moved if he recommended for general trial.—Adopted. Mr Harris thought the Iona was doing well; much better than when Dr. Grant sent it out.

Moved if he recommended for was withdrawn, as many objections were made to recommending any variety of the wild plum when there are so many good varieties in almost all parts of the State made to recommending any variety of the wild plum when there are so many good varieties in almost all parts of the State

Moved it be recommended for general trial when propagated by layering the old wood.

Mr. H. stated in answer to inquiry that he had fruited it three years.
Motion lost.

Mr. Jordan moved to recommend the Clinton for general cultivation.
Lost.

Mr. Harris spoke in favor of the more general cultivation of currants.
Mr. Mott had been very successfull with the currant. Recommended it highly. Mulched his with chip dirt.

Warieties in almost all parts of the State that would prove worthy of cultivation if only brought to notice. The following resolution was passed:

Resolved, That this Society recommend for general cultivation.

Mr. Elliott proposed making a list of the names of persons having choice varieties of plums and placing it on the records of the Society. A motion to this effect was carried, and the list was made can as possible, as follows:

LIST OF PERSONS HAVING CHOICE PLUMS.
S. Kenworthy, Garden City, Minn., large red.
H. W. Mendenhall, Garden City, Minn., large yellow.

rge yellow. C. P. Cook, Garden City, Minn., large purple Nathan Fisher, Beaver, Winona Co., Minn.,

Black Cap to list. Lost.

The question was then put on Mr. Jordan's first amendment and lost.

Mr. Jewell moved to amend by placing Philadelphia at the head of the list. Carried.

Mr. Leland's motion as amended was then adopted.

Mr. Harris moved that Mr. Hoag's Black Cap, a native Minnesota variety, he recommended for general.

Wyman Elliott, P. A. Jewell and J. S. Harris were appointed such committee.

2d—A Committee to present a list of useful and ornamental trees and shrubs, whose duty shall be the same as that of the first named.

C. P. Cook, M. W. Leland, and — Hoffman were appointed committee.

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then, on motion of various gentlemen, recommended for general cultivation:

Wilson's Albany, Downer's Prolific, Brooklyn Scarlet, and Green Prolific.

Mr. Harkness moved to recommend Russell's Prolific. Lost.

Mr. Brand moved to recommend the Flemish Beauty Pear for cultivation in favorable locations.

Messrs. Cook, Jewell, Waters and Harris all testified to its hardiness. Thought it as successful as the apple, and a delicious fruit.

Mr. Cook moved to amend by substituting "for general cultivation." Adopted, and motion carried as amended.

Adjourned to 7 o'clock in the evening.

The following resolution, offered by Mr. Jewell and adopted by unanimous vote, embodies the sentiment of the Convention:

Convention called to order by Vice President, Dartt.

On motion the subject of Plums was taken up.

A motion was made to place the Lombard Plum on the list for general cultivation, which was lost. This plum was con-

Committee were instructed to call a meet-

ing of the Society in the month of July

mext, if deemed expedient.

The Convention then adjourned, to meet again at such time and place as the Executive Committee may designate.

E. H. S. DARTT, Vice Pres't.

A. W. McKinstry, Rec. Sec'y. STATE HORFICULTURAL SOCIETY FIRST DAY.

MINNEAPOLIS, Jan. 9th, 1872. The annual winter meeting of the State Horticultural Society convened at Kelly's Hall, Minneapolis, at 10 o'clock, A. M.

The meeting was called to order by the President, R. J. Mendenhall. At his suggestion the exercises were opened with prayer, by Rev. Mr. Fuller, of Lake City. Col. J. H. Stevens, of Hennepin county was appointed Secretary pro tem.

On behalf of the citizens of Minneapolis, Col. Stevens delivered the following address of welcome to the delegates:

Gentlemen of the State Horticultural Society: Gentlemen of the State Horticultural Society:
In behalf of the citizens of Minneapolis I bid you a most cordial welcome. They feel highly honored and gratified that your society, in its wisdom, selected this city to hold your annual meeting. They will endeavor to make your sojourn pleasant. They ask you to gather around their firesides as valuable guests. They fully appreciate and recognize the great worth of your labor, not only to the present but to the future generations. the future generations.

Judge D. A. J. Baker, of Ramsey county, Servell, of Lake City moved that Messrs 200 M. Elliot, of Hennepin county, Hart & Burd, of Winona Brinshall and Binihall, of Ramsey be appointed a committee to bring forward topics for discussion during the session of the society. After a discussion upon the subject of appointing a committee on nomenclature, in which Messrs. Jewell, Elliot, and Judge Baker took part, the society adjourned till 2 P. M., the subject under discussion being laid over till to-morrow.

AFTERNOON SESSION.

Owing to the time consumed in arranging specimens of fruit, the meeting was not called to order until 3 o'clock, Mr. Mendenhall in the chair.

The matter of making some change in the committee on nomemclature was brought up, and some changes suggested, but the matter was again laid over until to-morrow, to await a further attendance. The committee on order of business re

ported the following

PROGRAMME:

TOPICS FOR DISCUSSION. 1st. Apples (including seedlings). Relative value of different varieties, embracing the question of hardiness, productiveness, analysis and hardiness.

quality and keeping.

2d. Site for orchard; manner of planting, mulching; time and method of pruning.

3d. Top-working, grafting, budding.

4th. Insects; injuries to trees and fruits.

5th. Pears; varieties; standard or dwarf.

6th. Cherries; varieties for cultivation.

7th. Plums; varieties; native and culti-8th. Small fruits—raspberries, blackber-

ries, strawberries, grapes, currants and gooseberries. The committee recommended that each

speaker be limited to five minutes on each question, unless by unanimous consent of the convention more time be given. Adopt-

On motion the following resolution was adopted:

Resolved, That D. A. J. Baker, of Ramsey county and Norman Buck, of Winona county, be and are hereby appointed a committee to present a memorial to the Legislature and solicit their favorable

The following memorial was prepared by the committee and accepted by the conven-

To the Honorable, the Legislature of the State

of Minnesola:
The memorial of the State Horticultural
Society in convention assembled would respectfully represent to your honorable body
that the State Horticultural Society is now
holding its annual meeting in the city of

Minneapolis, and they petition your honorable body to visit the Society while in session, on Wednesday, the 10th, or Thursday, the 11th inst., for examining the fruit

day, the 1th inst., for examining the fruit on exhibition.

The Society deem it important to add that the fruit on exhibition is all raised within this State, and as an emigrant document the Society is persuaded that it cannot fail to exert a powerful influence in inducing emigrants to make our State their future home.

If the public business is such that the members of the Legislature cannot visit the Society in a body, it is hoped that a joint committee may be appointed for that purpose. And your petitioners will ever pray.

R. J. MENDENHALL,

pray.

President State Horticultural Society. CHAS. D. MCKELLIP. Sec.

The first topic for discussion was taken up, viz: Apples, different varieties, &c., as per

Red Astrachan—Mr. Jewell, of Lake City, said: The tree is a moderate grower, very hardy, late in coming into bearing. Does not bear largely every year. Would recommend every man to plant a few trees.

Mr. P. M. Gideon, of Excelsior, had some experience with the variety. Considers it rather inferior; late bearer; fruit not perfect; would not recommend planting.

Mr. Brimhall, of Ramsey county, had grafted on Soulard tore in four warrs quite hardy; as hardy as Tameuse.

Mr. Buck, of Winona county, has some trees; would not recommend planting largely. Red Astrachan-Mr. Jewell, of Lake City.

ly.

Mr. Hart, Winona county, has a few trees; if setting an orehard would not plant as largely as of some other varieties.

Thinks it is a very good apple, however.

Mr. Grimes says it is late in coming into bearing; fine looking apples; quality second class. Hardy as fameuse in many locations as far north as Minneapolis; would

tions as far north as Minneapolis; would

tions as far north as Minneapolis; would plant sparingly.

Mr. Bates, of Rollingstone, Winona county, has a tree set same time as some Perry Russets and Tamouse, but did not bear as well as the latter.

Saps of Wine.—Mr. Freeman Smith has a few trees of this variety. Does not consider them first class.

sider them first class.

Mr. Gideon—Tree hardy as the Red Astrachan. Fruit perfect. Would recom-

mr Grideon—Tree hardy as the Ret. Astrachan. Fruit perfect. Would recommended planting.

Mr. Hoffman of Hennepin county—Tree appears perfectly bardy. Thinks it a good

Mr. Latham, spoke in favor of this vari-

ety.
Mr. Jewell, says there are a few bearing trees in southern Minnesota. Thinks the fruit better for eating than the Red Astrachan, but not so good for cooking purposes.

Mr. Truman Smith thinks it not so sprightly in flavor as the Red Astrachan.

Tetofsky.—Mr. Latham believes in the

has been in bearing.

Mr. Smith has some trees; fruit good but very tart. Tree hardy as Duchess of Old-

Mr. Hoffman considers it as hardy as any of the crabs.

Col. Stevens has trees that have borne for

Col. Stevens has trees that have borne for three years; hardy and good fruit; prolific bearer; the earliest apple.

In answer to a question, Mr. T. Smith said he has a variety he bought for early strawberry that is earlier than the Tetorsky, which has ripened as early as July 16th.

Mr. Jewell said, in his experience related to the said of the said of

in the se of hard a profullar with mirary navo; liable to be cheeked

in growth the bransplanting; or first of August Should have a

man's orchard

our years ago; has borne shears

Tree first clases;

Rev. Fuller said, in Wisconsin people are very enthusiastic over this variety where it

Mr. Bates, of Stockton, had top-grafted on a seedling tree; rapid growth was made and some fruit had been borne.

Mr. Jewell—Season, last of July or 1st of August.

Mr. Cook, of Blue Earth county, thought best to recommend or discard varieties as their qualities were brought out by discussion; would recommend the Tetofsky for general cultivation.

Mr. Gideon objected to recommending any variety, for various reasons, especially on account of foreign tree agents palming off other varieties for those recommended.

Several similar objections were made.

Golden Pippin—Mr. Gideon thinks it a good apple.

good apple.

Mr. Cook says it is good; ripens early; hardy as the Duchess.

Q. Is golden pippin and Grimes' golden pippin the same variety. Mr. Gideon said they are distinct varieties. Mr. Jewell knows but one tree in bearing in the State, which is in the grounds of Mr. Harris at La Crescent.

which is in the grounds of Mr. Harris at La Crescent.

Fall Stripe—Mr. Brimhall has 19 trees of this variety set 10 years ago; have fruited three years; fruit sells well.

Mr. Gideon—It is a good apple; succeeds well, especially on clay soil; has not done so well with it on loamy soil.

Mr. Jewell—The fall stripe or Saxton is a very satisfactory tree for either nursery or orchard. When trees become old fruit is small on account of excessive bearing when young. Very decidedly in favor of fall stripe; safe and profitable.

Perry Russet—Mr. Brimhall has trees that have been set 10 years; killed back first and second years; have borne three years; most valuable winter apple.

Mr. Goodyear, of Blue Earth county, has trees in bearing; bear large crops, nice trees end bardy.

trees in bearing; bear large crops, nice trees and hardy.

Mr. Gideon—Profitable to grow on clay

Blaisdell

Mr. Gideon—Profitable to grow on clay soil. Not successful with him.

Mr. Hoffman said trees at Mr.—, near Minneapolis, were doing well.

Mr. Buck—No fruit has values more highly. His orchard is on northern exposure; soil loam, with clay subsoil; keeps until January; late bearers

Mr. Bates has one tree 15 years old that produced 13 bushels of of fruit, sold for \$2 per bushel in Winona. Would recommend it.

Fall Orange—Mr. Truman Smith has a tree that bore so heavily that it broke down. Mr. Brimhall considers it one of the best varieties in the State,

Duchess of Oldenburg—This acknowledged hardy variety was discussed at considerable length. Its objectionable features are that it is too sour; will not keep; dealers do not like to buy much of a stock at a time. It was thought best not to reject it just yet.

Ben Davis—Mr. Smith—A good apple; one of the best; bears in four years from the graft; good keeper.

Convention adjourned till 7 o'clock.

Convention adjourned till 7 o'clock.

EVENING SESSION

Called to order at 7 o'clock.
Discussion of the Ben. Davis was con-

tinued.

Mr. Jewell—A good variety; does not grow as large with us as it does further south; quality second good; keeps until April and May, and even till June; would recommend for planting largely; bears early.

Mr. T. Smith does not mulch or protect any way in winter; clean cultivation as good as mulching.

Mr. Bates—Had apples in four years from graft; valuable winter apple; raised largely in Winona county.

Golden Russell—Mr. Latham—Trees seven and eight years old in Excelsior have the past season never killed down.

Mr. Brimhall does not consider it as hardy as fameuse or red astrachan.

It has not done as well with Mr. Truman Smith as some other varieties.

Mr. Jewell thinks there are 500 trees of English Golden Russetts in Minnesota.

Thinks it as hardy as any tree we have; no fruit that keeps better; as good quality as

Mr. Jewell thinks there are 500 trees of English Golden Russetts in Minnesota. Thinks it as hardy as any tree we have; no fruit that keeps better; as good quality as the Ben. Davis. It is sometimes confounded with American Golden Russett; subject to blight, especially in southern Minnesota and in northern Iowa it is discarded al-

most entirely. Aside from blight it is an indispensible variety.

Funeuse—Mr. Truman Smith has trees twelve years old; borne crop five years; fit to eat in October; can be kept till April. If confined to one variety would choose the Fameuse; no apple retails so well in St. Paul

Vendome—Was called up, but no one present knew anything about it.

Summer Pearmain—Mr. Hart thinks it one of the very best applies.

Mr. Stubbs has a tree that bore heavily, but quite a different apple from Mr. Hart's specimen.

specimen.

Mr. Bates—Quite hardy; as much so as any variety he has in his nursery.

Early Red—Mr. Smith—Medium size; spreading tree; dark wood.

Blue Pearmain—Mr. Gideon has trees ten years old; hardy as Duchess; does not grow as rapidly or bear as early, but bears profusely; good keeper; will keep till spring; no apple safe to olant; bore fruit for him at seven years old.

Mr. Buck says it is very hardy; bears heavily; good keeper; would recommend planting largely.

Westfield Seek-No-Further—Mr. Smith thinks it a good apple.

thinks it a good apple.

Mr. Lekard says it is his favorite fruit; trees tender when young; apt to blight; will do well along the Mississippi, among

Mr. Bates has had good success with it in nursery; should be planted in sheltered locations.

Haas—Mr. Smith has sold the Haas fruit

Haas—Mr. Smith has sold the Haas fruit grown in Minnesota, and has trees growing; second rate desert apple, but first-class for cooking; sells well.

Mr. Brimhall had trees bearing at seven years; valuable variety for this climate.

Mr. Latham knows of many Haas trees; will kill back a little of the last year's year's growth but not enough to injure the tree.

year's growth but not enough to injure the tree.

Mr. Jewell says it is a strong grower; points of limbs kill, but does no injury to the tree, as is the case with some other varieties; bears early; second grade in quality; showy; markets as good fruit as Ben. Davis; no winter variety any better.

Mr. Jewell said the Haas and the Horse apples are entirely different.

Northern Spy - Large and handsome specimens were presented by Mr. Trummer Smith.

Specimens were presented by Mr. Truman Smith.

Mr. Leland says it is not as hardy as Haas or Duchess, but more so than the Talman Sweet. Very late bearer; his trees were planted 14 to 17 years before they have much; would not recommend for all parts of this State; tall grower; not suitable for the prairies; should be planted in sheltered locations, where they would be protected from the wind.

old communed bearing

from the wind.

Mr. Leland said they bore heavily; considered them good fruit. There was a difficulty in gathering the fruit, and they were poor for shipping, on account of bruising scale.

easily.

Mr. Latham wanted to hear about the Plumb cider apple.

W. E. Brighall said that he had trees 10 years old that had fruited 3 years—fair eating apple—a good tart. The specimens shown were large. One tree he gathered this goil was heavy clay.

ing apple—a good tart. The specimens shown were large. One tree he gathered 8 bushels from. His soil was heavy clay, with a south-east exposure.

Mr. Latham said he considered them the most hardy of any standard apple grown in his section. The Dutchess had been badly injured standing by them. They bore well. They rarely rot, and healed over from hail bruises. Better eating than the Dutchess, and as good cooking. Advised that they be raised.

Mr. Bates inquired what age before bearing.

Mr. Latham named a gentleman whose trees were 10 years old and had fruited four

Mr. Gideon had some trees that bore at about the same age. The fruit with him

about the same age. The fruit with him was inferior.

Ar. Brimball reports that his experience showed them very good cooking.

Ar. Harris wanted to know what the characteristics were of a good cooking apple. He thought a good one was one that cooked tender and that hadd as good fravor after cooking as one eaten out of hand.

Mr. Smith wanted to hear from the Tallman sweet. He found that by combining crab with the Tallman they made good sauce. One of his trees had borne four years and was ten years old. They were not an entirely hardy tree. The fruit kept well, and he thought the tree worthy of cultivation.

Mr. Gideon had never fruited any; he had some, but did not speak highly of them.

Mr. Hoffman reports years forwardly and

them.
Mr. Hoffman reports very favorably on

this apple.

Mr. Harris' wife could not keep house without them. He raised 40 barrels last year. Three years ago he thought them the hardiest he had. Two years ago the

bark split, but he lost none. He saved bark split, but he lost none. He saved them by earthing them up as far as frozen, and they made a good growth the same year. It is a profuse bearer, and is as good as anything the farmer could plant. Thought that every farmer should plant them. Was strongly in favor of it. He had another that looked like it, which he thought sweeter and richer, and would keep till July.

Mr. Bates did not take any stock in the Tallman sweet. He had lost many trees and thought that soon they would all be gone.

gone.
Mr. Jewell thought its record not good.
In northern Iowa many trees were killed
by bark rust. It however meets with some
success. Thought there was a better sweet

appler—Mr. Stubbs had six trees and three of them lived and three did not; he thought them very good, but what he called the winter sweet he thought better.

Mr. Cook thought in some localities they would do well. Thought them slow in coming to maturity; thought them not a success in all localities.

Mr. Hart wanted to hear from the yellow belle flower.

success in all localities.

Mr. Hart wanted to hear from the yellow belle flower.

Mr. Dart spoke favorably of it.
Mr. Jewell thought on rich soils it was one of the best trees grown, but could not recommend it for general cultivation.

It was concluded that Utter's Bed, the Lucy and the Winona Chief were identical. Some claimed otherwise.

Mr. Bates was glad the question was brought up. He was not so certain about their being the same. Lucy and Winona Chief are not the same he thought. He wanted the matter sifted.

Mr. N. Harris had been on a committee to investigate the subject. He said you will see great difference in apples that grow on the same tree. Localities affected the same apple. He was persuaded that the tree were the Utter's Red. The trees were not perfectly hardy, but were a good tree.

Mr. Jewell felt no doubt about their identity. Had been of that opinion for two years. He cited many cases that went to prove them the same. They were identical probably with the Cooper.

One gentleman desired to know the distinction between species and varieties. The question being one that would call out considerable discussion it was thought proper to defer consideration on the subject until a future time.

On motion of Mr. Harris that part of the

to defer consideration on the subject until a future time.

On motion of Mr. Harris that part of the former action, which made 10 a. m. and 2 p. m. the hours of meeting, was recinded and 9 a. m. and 1 p. m. named in place of those hours. On motion it was resolved that an invitation to be present at the meeting to-morrow be extended to the citizens of Minneapolis.

The meeting then adjourned till 9 o'clock Wednesday morning.

SECOND DAY.

JANUARY 10th, 1872.

Convention called to order at 10 o'clock by the President.

The President then proceeded to deliver the annual address.

Gentlemen of the State Horticultural Society: When that worthy old veteran in horticulture, and one who has at heart the best interest of Minnesota—Col. the best interest of Minnesota—Col. John H. Stevens I mean—made the announcement, through the morning papers, that I would address you at this time, I felt then, and still feel, that some one else might better fill the place. But from his years and long service in the field, it seemed that it was his to command, my business to obey. And now, in doing so, I shall endeavor to be as brief as the occasion and object of our meeting will permit.

and object of our meeting will permit.

Since your last meeting another year, with its sunshine and shadows, has with its sunshine and shadows, has passed away—a year joyous and happy to many, and of grief and sorrow to some. Yet to most of those engaged in horticulture in this, the North Star State, the past year has been one of bright promise. Let us render unto God, the giver of every good and perfect gift, heartfelt gratitude for this, as well as for all other blessings he has so bountifully bestowed upon us. bountifully bestowed upon us.

Your labors during the past year have been crowned with more than ordinary success, even greater, for your most sanguine hopes have been more than realized. You have seen the blossoms

mr. Stevens thinks sandy soil and eited instances tursting impatisfactory tree

tween Varieties

of May ripen into golden russet and red-cheeked fruit in autumn. Allow me to congratulate you on the favorable auspices under which we have met, gathered as we now are, from the different sections of the State to hold this our annual and at the same time our gathered as we now are, from ferent sections of the State to hold this our annual and at the same time, our winter meeting. The season of the year is very opportune. The storm-king winter reigns without. It is a fit time for us to meet and compare notes, exchange experiences, relate to each other he failures as well as the successes that have attended our labors, to impart the nodus operandi of our work in our shosen field. Doubtless many subjects will be presented for discussion about which there will be various opinions, and while I would recommend earnestness in the expression of our views, it behooves us to let our frankness be tempered with that charity that is not puffed up. puffed up.

puffed up.

In our discussions we should take into consideration the various qualities of soil which surround our respective homes, and report our progress in the various matters so interesting and so necessary in the propagation of fruit and trees. Nor can we afford to neglect, in our deliberations, to discuss the best methods of cultivations of the most beautiful gift of heaven, the flowers and the plants which bear them, the absence of which, around our dwellings, gives our homes a dreary, cheer-

absence of which, around our dwellings, gives our homes a dreary, cheerless and uninvitug appearance.

Horticulturists are more dependent upon their associates who are engaged in the noble calling, than almost any other class of people. Theirs is a progressive life. New discoveries in the horticultural world are of daily occurrence, experiment upon experiment is rence; experiment upon experiment is constantly being made; new things and constantly being made; new things and new theories are constantly coming to the surface. What a boundless field opens before the devoted and enterprising student in horliculture. Nor should our light be hid under a bushel, for what we know and what we have learned by hard and costly experience, we have no right, as good citizens of this great and growing State, to keep within our own breasts, but we should herald it forth with tongue and pen, and let our homes, our surroundings, and let our homes, our surroundings, our orchards, shade trees, flowers, and

our orchards, shade trees, flowers, and our lawns, blaze forth so brightly that any passer-by may know that no sordid selfishness reigns within.

Gentlemen of the State Horticultural Society, you should feel proud of your past years' efforts and success. The darkness that surrounded, and the heavy clouds that hung over your ear-lier efforts, have been dispelled.

lier efforts, have been dispelled.

Perhaps it would be premature to say that it is an established fact that Minnesota will be a great fruit-growing State yet. We are warranted from the experience of the past three years, in declaring that such is our betief, at least, in regard to the apple and small fruits. The experience of the past ten years is a sufficient guarantee. We have accomplished much. We have much yet to overcome; perhaps, however, not more than all new countries have had to contend with, although, in some respects it seems that ours is a some respects it seems that ours is a peculiar soil, climate and exposure, and will require a cultivation peculiar to our State.

In what part of the world do we find the soil area of the standard or heat and

such soil, such extremes of heat and cold, such winds, and where such cold, such winds, and where such droughts as we most always have pending the flowering and fruiting of that most delicate of all fruits, the strawberry? These subjects and the best method to overcome the difficulties, should claim your closest attention. No New England mode of managing fruit trees will appear here, nor can fruit trees will answer here, nor can we adopt the Middle State method, nor we adopt the Middle State method, nor yet that of Ohio or Indiana. We stand almost alone, though Western Wisconsin and Northern Iowa, perhaps, have similar difficulties to contend with. And, indeed, I think I would recommend the organization of a Northwestern Fruitgrowers' Association, to include Minnesota, Iowa and Wisconsin. I present this because I have had

trees and flowers will of course be contrees and flowers will only trees and tre their money you want.

We should have a comintroduce it. We should have a committee on Nomenciature, a large and intelligent one. And then at our fairs, all fruits entered for competition should be named. If there are seedlings, and the originator does not wish to give the originator does not wish to give an apple juicy and mellow. You will them names, he must submit them to do it. You are now in the bud and

only of the conglomerate. It should have that of the bright and pointed crystal, and I invite your undivided atthings into line. We also require a full code of laws to govern us at our annual and other fairs, and while they are laws, let them be firmly adminisof what was required by the Society We must smart for our ignorance with these laws. We must post ourselves up on what is necessary to enter and con-tend for the prize, and if we do not conform to these very just requirements let us hear no whining. While I am a strong advocate of mercy, I think it should be accompanied by its twin sister, justice. I have dwelt at length on this subject, for the reason that we so frequently hear complaints after fairs, such as this: "Why, if I had only known that, I could have got the premium on my grapes, or Duchess, or beets," or "I do not think the committee were fair." tee were fair."

And there is another thing that I want, most especially, to call your attention to, and in the language or the mother of Solomon, "don't say me How often do you hear of the failure of fruit trees. They die, they freeze, they thaw, the dry weather affeets them. In the language of President Hobbins, of the Wisconsin State Horticultural Society, "I have thought much of the remedy." He says further, "My own opinion is that a radical change might be made in this respect with great profit to all concerned, the legitimate sellers and buyers of fruit trees. And I would suggest this, the planting of such trees only as we know will grow an edible fruit in any and all the settled parts of this State. It is in vain to try the indiscriminate purchasing and planting of trees now everywhere observable in this North-west by any less radical means. Tree Tree peddiers and agents, and eastern horticultural and agricultural journals are doing more damage to our horticultural interest than can easily be believed. except by those acquainted with the

Our climate has to bear a great deal of blume for the mischief to our orchards, gardens, and vineyards, which in reality is solely attributable to the misdirections of outside writers and the cupidity and dishonesty of outside nurserymen did not for if the nurserymen did not clearly should not receive State aid. As

connected with the propagation of fruit scribe for and read our own agricul-

world know that it is fruit you are de-sirous of giving them, and not simply pal, who attempts to palm off any tree, Another subject presses itself upon my mind, and I hardly known how to introduce it. We should have a grown

them names, he must submit them to the committee on Nomenclature, and a description of the fruit with its name should be recorded in a book kept for this process by the committee this purpose by the committee.

It is high time that our work in the the heat and burden of the day field and hall should be systematized. Should reap the reward of your Thus far it has had the characteristic labor, and my belief is, that if you will make a united effort, our own people may be supplied with trees by our own nurserymen, and this will be soon find that you cannot supply the ention to the necessity of bringing the best weapon that can be used against these unscrupulous bark lice gentlemen that periodically infest our State. You may say I am too severe. are laws, let them be firmly administered; if wrong, make them right at your next annual masting. If a knowledge that there are many nonext annual meeting. If any one ble and honest horticulturists that visit has anything that he thinks is particularly nice and better than any one else, and wishes to enter the arena, it is his own fault if he is ter the arena, it is his own fault if he is and unsuspecting people are subjected to, for if they did their duty they would see that their own State societies frowned down the exportation of trees into any State, the adaptability of which might be questionable.

Let us educate the people. Let us give them fruit. If a crab, let it so be understood. You can guarantee that it will live. Then if the Duchess, Femeuse, Red Astrachan, Wealthy, Bates, Woodward, Perkins, or anybody's else seedling has or does prove worthy of cultivation, you can recommend to your customers to buy tnese, and if you have not deceived them before, they will buy again, and, in the language of Dr. Warder, "We will educate our people in hor-ticulture. Give them such fruit as you know will grow, and they soon will want more and better fruit."

lar course to be followed in the dis-cussion of the various subjects that will of necessity present themselves. Do this in your own good order and time. It is quite true that the proceedings of this Society should be spread broad-cast over the land, so that the people may know the progress made in our particular line. In view of this I would recommend that a petition be presented to our Legislature now in session, for a small annual appropriation to be used in the printing of our proceedings in pamphlet form. Also, for the establishment and maintenance of experimental gardens, in different parts of the State. I doubt not but the land would be freely donated in the differ-ent sections. We also want the appropriation to cover an amount that we could offer annually as premiums on the best fruit grown in the State. I long more damage to our horticultural nterest than can easily be believed, except by those acquainted with the ease."

Our climate has to bear a great deal our craimly do the same, it is should certainly do the same.

some correspondence with the Wis- send out these borers and bark lice an inducement for emigration, the fact | consin State Horticultural Society on gentlemen, it would certainly be impossible for them to invade us.

There are many subjects that should Our own people, I mean the masses our whole combined agricultural rethe subject.

There are many subjects that should receive your best attention at this who want to grow fruit for their own meeting. Such as are immediately use, do not to a sufficient extent, subgard to those who are seeking new homes from the fruit-growing parts of

ple of this State as worthy of cultivation; and while on this subject, allow me to suggest that you do not make the list too long. Be careful and let the world know that it is fruit you are demendations bestow a from the members of the National Society, as well as the press, must be extremely gratifying to every Minnesotian. His report will form an interesting part of the records of this meeting. The Treasurer's re-

port shows a small balance in hands.

We cannot easily estimate the good already accomplished. There is a large field for its continued usefulness. During the past few years much at en tion has been given to the vineyard. Grapes of very many varieties, som of a semi-hardy character, have been in troduced with the most flattering re-

There is a growing appreciation by our people for choice plants, rare flowers, and ornamental shrubbery. It is with pleasure that we notice a fond-

demand, unless you add greatly to your nursery stock.

It is to be regretted that some system as not been adopted by State authority, or that some premium list has not been offered, to encourage the planting of trees in the prairie districts of the

It is only a question of time when tree clanting will be encouraged by law. Our elder sister, Iowa, has such a law, which is simply this: Every acre of forest trees planted releases taxation for en years on one hundred dollars' valuation, and for each acre of fruit trees planted tax is exempted on fifty dollars' valuation for five years—and in proportion for shade trees and hedges along the public highways. There is now in that State maple forests from which su-gar is made, where fifteen years ago there was nothing but prairie grass and

Let us reap advantages from the experience of our Iowa friends. Many of us are looking forward to the time when each school-house will have its gardener, and also to the time when some of the branches of horticulture will be taught in our public institutions of learning. Many of the Western ant more and better fruit." of learning. Many of the Western I shall not recommend any particu- States are full of experiments. This is one which will sooner or later be made and if ours should lead off in the movement, it will not be the first time we have inaugurated, in advance of other States, improvements of a judicious character.

What the Society should have most at heart is the best interest of the peo-ple of the State. Our efforts in horticulture are being acknowledged all through the country. We see it in the formation of country societies, the crowds that attend our fairs, the eager ess with which people listen to any discussion on the subject of fruit-growing. Now let the Legislature lend us a helping hand. Let it make an annual appropriation of a small amount, to publish our transactions, carry on our experimental gardens, and offer liberal

as a science, men of all classes and The Alexander apple was next taken up. grades have engaged in it. As a general thing their standard of morality has been equal to that of those follow-

and we commence to refrace our steps, we admire the beauty of the mosses and ferns, thence we come up to the more useful grasses and plants, cultivating the herbaceous and shrubby plants, and still on until now we have reached the trees, and standing under the monarch of the forest, the giant the monarch of the forest than a dozen Tetofsky; but thinks the latter is good.

Mr. Jewell says it is not as hardy as the Duchess; is not an early bearer: took spectrumens from Lake City to the Americanican Pomological Society at Richmoud, Va.; no fruit trees.

Mr Gideon's trees do equally well on all sorts of exposures; southwest slope as good as any in his opinion, the only objection being on account of sunburn, which he would prevent by heading low, and protect from wind by close planting.

Mr. Harris tinks the matter of exposures; southwest slope as good.

Mr. Jewell says it is not as hardy as the Duchess; is not an early bearer: took spectimens from Lake City to the Americanican Pomological Society at Richmoud, Va.; no fruit there of the same class equal to his sorts of exposures; southwest slope as any in his opinion, the only objection being on account of sunburn, which he would prevent by heading low, and protect from wind by close planting.

Ought not all these things, given to in us divine wisdom, to bring out and develop the best and highest attributes of our nature?

Duchess is only 2 weeks, result and ty make it sell well.

St. Lawrence—Mr. Stubbs says, as a fall apple it is about equal to any variety he knows of in our State, better than Duchess; and always size tree hardy, slow grower;

President for his able and intelligent address.

was continued.

county, said it is a hardy and valuable tree; never knew it to kill; fruit not large but good.

Mr. T. M. Smith has seen the fruit grown in one State and has sold it; it sells well.

Mr. Gideen has seen original Pewaukee

Mr. Gideen has seen original Pewaukee

Mr. Gideen has seen original Pewaukee

Mr. Harris, of La Crescent, has no bearing trees, although he has them ten years old. Thrifty grower and appear very

Mr. Jewell says it is a profuse bearer on clay soil; on prairie soil in Wisconsin it does not do very well. Bark bursts around the crown. There are many trees in Minnesota; they are subject to fire-blight; has known it in bearing in Minnesota for five

On motion of T. M. Smith the tollowing resolution was adopted:

That we extend an invitation to the Presidents of the different railroads of Min. nesota to visit this meeting and examine the fruits on exhibition, and see whether they are not worthy to be considered good immigration arguments.

Mr. P. A. Jewell, of committee on resolutions, respecting the death of Jas-W. Harkness, presented the following, which were adopted:

Whereas, It has pleased our Heavenly Father, since our last annual winter session, to remove from the scenes of this life,

Mr. Brimhall said it is a hardy tree; fruit coarse; not a good keeper; apt to drop from the tree; sells well, on account of its

the monarch of the forest, the giant specimens in size or appearance; season sequoia, we are astounded at its mag-continues about 6 weeks, while that of the Duchess is only 2 weeks; its size and beau-

and as large size; tree hardy, slow grower;

A resolution of thanks was voted to the President for his able and intelligent adiress.

The discussion of the varieties of apples was continued.

Sovet Pear—Mr. Cook, of Blue Earth

Sovet Pear—Mr. Cook, of Blue Earth

Mr. Gideen has seen original Fewaukee tree in Wisconsin; very hardy; has no bearing trees of his own, but his young trees are doing well; less subject to blight than any. ther out of 50 varieties.

Mr. Jewell has a dozen trees saved from 50 purchased in Wisconsin; thinks it will prove hardy with us; wood is late in maturing in the fall; would not compare it with the Duchess; quality second rate. with the Duchess; quality second rate.
Mr. Hoffman spoke of some seedlings that
have been before the society for two or
three years and have not been named. Mr.
T. M. Smith moved that all varieties to be
named be placed in the hands of the committee on nomenclature. Carried. mittee on nomenclature. Carried.

The following committee on nomenclature was appointed:

P. A. Jewell, Lake City. J. S. Harris, La Crescent. P. M. Gideon, Excelsior. E. H. S. Dartt, Owatonus. Truman M. Smith, St. Paul.

The committee to be continued ad interim Adjourned till I P. M.

AFTERNOON SESSION called to order at 1:30.

The second topic was taken up, viz: ing lies in grafting semi-hardy varieties on hardy stocks, and by so doing fruit can be

VOVENDA A A A A A A A

the Horiculturist so preyed upon by insects as in Minnesota. Plant, flower and fruit have each their entomological enemy. Vegetable, shrub and tree is trimmed, cut and bored by individuals of the many myrtids of insects that away on till winter sets in. And with a view that our people may have some knowledge of what they have to contend with—that they may know their friends from their enemics—I would suggest that you also look toward the appointment of a Stake entomologist at an early day. And thus also should receive legislative aid.

And now gentlemen, in concluding my remarks, it is my painful duty to allude to the loss the Society has met with in the death of its late Corresponding my remarks, it is my painful duty to allude to the loss the Society has met with in the death of its late Corresponding my remarks, it is my painful duty to allude to the loss the Society has met with in the death of its late Corresponding suggests where the subsoil, the vicissitudes of temperature are least than on the face of all discouragements, for the case of fired were developed those elements of strong self-reliance, for earnest and maintoin and respect. Resolved, That in the career of our deathers are of our organization; and that we estend to wait, and the care of strong self-reliance, for earnest and mintoin and respect. Resolved, That in the care of our deathers are of strong self-reliance, for earnest and mintoin and respect. Resolved, That in the career of our deathers are of our organization; and that the care of participant of the care of the care of the care of the latter the days are hotter and the nights are older. Trees always injure most on the many virtues.

Resolved, That in the care of our deathers of strong self-reliance, for earnest and mintoin and respect. Resolved to the cause of fruit-growing and the deather of the face of the care of th

las been equal to that of those following other callings. But shall we not here pause and ask ourselves he question, Is this sufficient? Does it not become those who make a profession of developing the beautiful of the vegetable world, to possess higher at daim at nobler ideas than those who have to do only with inanimate things.

We are placed in close contact with Nature's sweetest smiles, and it is our privilege to reach toward he great fields beyond our vision adorned with animation and beauty equal to those through which we take our Caily rambles.

But when the miscroscope fails us, and we commence to refrace our steps, we admire the beauty of the mosses we admire the beauty of the mosses of the same of the state of Northern filmois.

Mr. Gideon has young trees that appear perfectly hardy; does well in Wisconsin; and not apt to break when heavily loaded with fruit; fruit selfs well. Does better in Northern Wisconsin than in the south part of that State or Northern filmois.

Mr. T. Smith has one tree planted 10 years; not as hardy as Talman Sweet or Fameuse; has just come into bearing; the trained of Nature and be assured she has fields beyond our vision adorned with animation and beauty equal to those through which we take our Caily rambles.

But when the tree; sells well, on account of its id.

Mr. Gideon has young trees that appear perfectly hardy; does well in Wisconsin; and not apt to break when heavily loaded with fruit; fruit selfs well. Does better in Northern Wisconsin than in the south part of that there was no doubt that an elevated location is best for an orchard, but it is difficult to obtain on every man's fam. Where land is all low it is difficult to obtain on every man's fam. Where land is all low it is difficult to obtain on every man's fam. Where land is all low it is difficult to obtain on every man's fam. Where land is all low it is difficult to obtain one very man's fam. Where land is all low it is difficult to obtain one very man's fam. Where land is all low it is difficult to obtain o

Mr. Harris thinks the matter of exposure is not as important as most people think. His best trees are on a southern slope. There is, however, a difficulty from sunburn and bursting of bark when the trees are young, which can be obviated by mulching and other protection until large enough to jurnish their own protection by shading of limbs and fallen leaves. Would not select high knolls for orchard on account of bard winds and lack of moisture. In his hard winds and lack of moisture. In his opinion forest trees are more thrifty on northern slopes because not so much run northern slopes because not so much run northern slopes because not so much run northern slopes and northern slopes are not so much run northern slopes and northern slopes are not so much run northern slopes because not so much run northern slopes are not slopes are not so much run northern slopes are not slopes are not so much run northern slopes are not s over by fires. Apples will grow any place where the water does stand within two feet

of the surface.

Mr. L. M. Ford could not endorse what Mr. Harris said except, with the craos.
Mr. Brand had always heard that north-

rn slope was best for fruit trees, but has et to see an orchard with such exposure qual to those planted on land that inclines the south or southeast. Prefers high and and dry soil.

Mr. Ford had not seen anything but crab

apples grown on sandy land.

Mr. Jewell cited a case whee large quantities of Duchess, Golden Russett and other arge apples are grown on very sandy soil, and presented specimens. Mr. Nutting thinks the benefits of north

Mr. Nutting thinks the benefits of north exposure are moisture and the protection afforded by snow, the place of which can be supplied by mulching well.

Mr. Stubbs would prepare the ground for planting by digging holes a year before, and would put top soil in the bottom of the the holes and clay on top.

Mr. Hart thinks his fruit is most hand-seme that grows on southern slape.

Mr. Hart thinks his fruit is most handseme that grows on southern slope.

The third topic—top-working, grafting
and budding was taken up.

Mr. Dartt thinks that some varieties of
fruit may be successfully top-worked on
the crab stocks; would not recommend
digging up crabs until it had been tried.

Mr. Jewell says the advantage of top-working lies in grafting semi-hardy varieties on

Mr. Bates had fine success with Baldwins and Early Harvest grafted on the top of a hardy seedling tree.

Mr. Brimhall endorses Mr. Jewell's views; had grafted several kinds on Soulard stocks four years ago, with clons taken from bearing trees; fruited second year. Does not think Soulard as desirable to bud on as Fameuse and some other varieties.

Ouestion—Is a clon made hardier by

Question—Is a cion made hardier by grafting on a hardy stock?

Brimhall—It is.

Gideon—Hardiest trees mature wood

Gideon—Hardiest trees mature wood earliest, and if tender kinds are worked on they mature sooner on account of stoppage of the flow of sap. Prefers Soulard to any other crab for stook for top-working.

Dartt—Some kinds bear better when top-worked, and by turning the sap to fruit buds prevents rapid and excessive growth and increased hardiness. Has known crabs to be injured by bursting of bark, but otherwise thinks the stock valuable for top-working.

Harris endorses Jewell's remarks; would

Harris endorses Jewell's remarks; would not have tree planters buy crab stock to top work.

4th topic—Insects, Injuries to Trees and

Fruit.

Jeweil has been much annoyed by a large gray beetle on Duchess trees, which sometimes entirely girdle the new growth; they disappear about the 1st of June; knows no way of destroying but by catching; makes its appearance mostly on oak ground.

Mr. Kenworthy has had trouble in getting rid of leaf lice; has syringed with a decoction of tobacco, which did not do the work perfectly.

work perfectly.

work periectly.

Dartt thought the beetles could only be prevented by hunting cut and destroying. There is an apple tree borer which works in the limbs which it takes great pains to

Mr. Jewell had used \$40 worth or fine cut tobacco for leaf lice. Followed Kenworthy's course.

Brimhall says that a wash made of three pounds of sal soda to a pailful of rain water will kill leaf lice; apply with a rag. Col. Stevens had no success with salsoda cure, Grimes thinks much depends upon the

Grimes thinks much depends upon the season of applying these remedies; two years ago he found great numbers of hee on his willows; he cut down the willows and washed his infected fruit trees with soap suds, and has not been troubled since. Howe thinks whale oil soap is an effectual remedy for leaf lice; apply on first indications of their presence; he used three ounces of whale oil soap to a pailfull of water.

Harris has found whale oil soap effectual; says carbolic acid, if strong, kills trees.

Gideon thinks hornets and yellow-jackets eat leaf lice; his treatment for borers is to

bind ashes around the parts affected.

Mendenhall says there are 1600 kinds of leaf lice and 400 kinds of curculio. Ants

leaf lice and 400 kinds of curculto. Ants do not eat lice, as is supposed by some.

Jewell described a moth trap which he had seen, and thought it a good thing. It is made of three or four shingles, which are cut out in the middle in crescent form on both sides, and fastened together by a screw, which also serves to tasten the trap to the tree. The moths hide in the crevices of the trap, and are killed by rubbing the shingles together.

shingles together.

Dart—Bands of hay are often fastened

Dart—Bands of hay are often fastened around trees to trap moths.

The next topic—Pears was taken up.
This subject was pretty thoroughly discussed by members from all parts of the State, and the prevailing opinion with all, except Mr. Ford, that pears can be grown successfully in our State. Several varieties are already doing well. The Flemish Beauty appears to be doing the best of any variety thus far.

At the conclusion of the discussion of

At the conclusion of the discussion of pears Mr. D. A. J. Baker moved that a committee, consisting of Truman M. Smith, Wyman Elliott, and Norman Buck, collect the statistics of apples imported into the State, and amount paid for the same, and report at this meeting.

Adjourned till 7 p. m. EVENING SESSION.

Mr. Harris stated that at the last session of the society a committee was appointed to select varieties of fruits for recommendation to growers of this State.

He then presented the following report which was accepted

Your committee on fruits beg leave to make the following report which they deem worthy of cultivation, for the consideration of the Society:

Apples—Duchess of Oldenburg, Red Astrachan, Haas, Saxton, St. Lawrence, Price's Sweet, Alexander, Ben Davis and Famence.

Fameuse.

Crabs—Soulard, Siberian Apples, Transcendent and Aiken's Winter.

Pears—Flemish Beauty and Buffum.

Plums—German Prince and best native.

Cherries—Early Richmond and Morello.

Grapes—Concord, Delaware. Salem,

Iona, Isabella and Ontario.

Currants—Red Dutch and White Dutch.

Raspberries—Doolittle, Miami, Philadel
phia and Purple Cane.

Strawberries—Wilson and Downer's Pro
lific.

It was moved that that varieties married in the list be taken up in their order and discussed and a rea general gultiration Harris thought the business of the meeting would be incomplete unless we decided on and seconned some vanities for sulling if not

more than three, so that new comers in the State could know where to begin.

Mr. Gideon objected to the society recommending any varieties.

Mr. Baker also objected because the im-

putation would be cast upon the society of

partiality.

Other members discussed the propriety of recommendation for and against, and the society finally laid the report upon the table by a duantmous vote.

Mr. Harris personally explained that he did not sell trees—he was a market gardener and florist, and he desired it understood that he would not reap a dollar's benefit from the recommendation of one or another variety.

Mr. Harris offered the following:

Resolved, That every member of this Society be requested to make a written statement in brief of his experience in truit growing in Minnesota, with the names of the varieties that have proved the best in his locality, and forward the same to the Recording Secretary to be filed for the use of the Society.

This resolution elicited some discussion, and the resolution was adopted after being amended by striking out "experiences" and making the report to consist of the success of each with different varieties.

Mr. Edward Ely, of Winona county, then read an essay on the first efforts at fruitgrowing in his locality.

Being appointed by the fall meeting of the State Horticultural Society to write a sketch of the fruit growing of Winona county, I submit the following as a very brief outline of a subject which is of no little importance to the future of Minuscrete future of Minnesota.

I believe that it is generally conceded that up to the present time Winona county has raised a larger quantity, if not a better quality of fruit than any county in the State. Mr. John Shaw has the honor of planting the first apple seeds in Winona county or southern Minnesota. In the fall of 1851 Mr. Shaw of Exeter, Penobscot county, Maine, determined to remove to the

any kind ever planted in Southern Minnesota if we except what was done by some Indian trader. Mr. Shaw also brought with him sixty grafts of the colicest varieties of apples. These of course he could not use. He only lived to see the seed come up. In about sixty days he died from exposure incident to a new country. He was buried among the victims of that season of mortality. While dying he by a verbal will requested that the little growing trees be divided among the members of the Association, and a committee was appointed

This was the beginning of fruit growing in Winona county. The little spot where the seed was planted was surrounded by a rude fence and the trees grew up for several years without much When large enough they were transplanted to nearly all the farms in the neighborhood. They have now been bearing fruit for several years, each year increasing in quantity, so that many families have hundreds of bushels of apples to sell or to convert into cider. Some of the best trees are bearing from 15 to 20 bushels each. Those in the orchard of Mrs. Mary E. Campbell produce on an average eight bushels to each tree. Among these are several most valuable seedling varieties; one which I think was named the Old Settler is very large. Grafts from many of these trees are much sought for wherever known. The apples taken together are preferred, for cooking and for general family use, to any that can be found in our markets. It would be impossible to estimate with any degree of certainty the number of bushels raised from all the seedling trees, from the nursery of Mr. Shaw, in the year 1871. Some of the largest single orchards are bearing from 400 to 600 bushels each. The aggregate number of bushels cannot be less than five or six thousand. The trees are found on nearly every farm in the Valley of the Rollingstone, and on many farms far out on the prairies. In all cases the trees are bearing very much in proportion to the intelligent care they receive. One of the most valuable results coming from the pioneer labor of Mr. Shaw is that it easily settled the fruit quesis that it easily settled the fruit ques-tion, proving beyond controversy, by actual sight, that apples would grow in great abundance in Minnesota. Many a man, after looking at the orchards in the Valley of the Rollingstone and being convinced by his own eye sight, went back to his farm determined to make a second trial and adding works to his second trial, and adding works to his faith he is now receiving the reward of his labor. The above brief sketch is but a single branch of the fruit question

in Winona county.

Very early the pioneer farmer was visited by the almost innumerable agents

west. Before leaving he gave out word to his neighbors that he wished to take with him a quantity of apple seeds. As the result of this notice he obtained 10 or 12 quarts of clear seed, made up in them. Then not even the soil or alimate or 12 quarts of clear seed, made up in small quantities from his many neighbors. Mr. Shaw first stopped in Galena, Ill., to spend the winter. At this place he became acquainted with some of the members of the Town and Village Association, whose destination was lage Association, whose destination was Minnesota City at the mouth of the Rollingstone, 6 miles above the present best they could. The roots were eaten city of Winona.

Mr. Shaw joined the Association by the gopher or the tree was scalded by the burning sun without protection. and was among the first of the main body to reach the place of destination.

Again, there is no question but the wild, unsubdued nature of the virgin soil is body to reach the place of destination. After finding the ground which was assigned him by a drawing which had been made in the city of New York, the head quarters of the Association, his first work was to plant the apple seeds. This he did by selecting an place in the timber and breaking the sod with a spade, he planted seed, then cut away the timber to give them the full light and heat of the sun. It is perhaps a historical fact worth noting perhaps a historical fact worth noting that these seeds were the first seeds of any kind ever planted in Southern Minds and the seeds of times a year and where they must be dwarfed and stunted by growing among the grain. Many times the farmer with the grain. Many times the farmer with the grain. Many times the farmer with the grain.

rided among the members of the Association, and a committee was appointed to see that his last request was carried out.

Top haspbernes pay.

In conclusion I would say that Winona county is no lacker for fruit of all kinds than other counties in the State out.

ing from 10 to a hundred would go far up into the hundreds.

The first man to raise grafted fruit in Winona county, and perhaps in the State, was Rev. Benjamin Evans, Rector of the Episcopal Church at the little village of Stockton, in the Rollingstone Valley. Mr. Evans was one of the early settlers. He was a man of fine taste and culture and his early efforts gave great encouragemen to the fruit grower of Winona county. We learn that Mr. Evans is now in feeble health and will soon pass away and the friends of horticulture of Minnesota, deem it due to him that his name in this connection, should be placed on the records

nection, should be placed on the records been set out and properly care for. of our Society.

The best, though not the largest orchard in Winona county is one planted and cared for by Robert Cully now dead. Ten years ago he obtained by accident 100 trees from the city of Rochester, marked extra. These he set out with great care in one of the small valleys near the city of Winona. The apples proved what the trees were marked extra, the very best and most approved varieties and they were much improved in size and flavor and shape by the soil and climate of Minnesota. The bearing capacity of this orchard has increased from year to year till last year they gathered 300 bushels of apples worth \$2,00 a bushel, on ground but little more than an acre. This is only one of the many young orchards in the immediate vicinity of Winona. As a marker of reference and for the truth of these statements I refer the reader to the Hon. C. F. Buck, who gathered from a few trees 200 bushels, several of the trees filled five barrels each. Norman Buck, Esq., 200; George W. Clark, 250; Orin Clark, 200; Mrs. Mary A. Campbell, 600; Wm.

R. Stewart, 400; Lauran Thomas, 600;

These two last named live 9 miles from Winona, one on the ridge and one in the valley. M. K. Drew, 200 bushels in the city of Winona on the sand. H. D. Huff had a large show of the best fruit. Mr. S. Bates, 300 bushels, who also has one of the largest young nurserys in the State, where he has all the approved varieties of the last trees. Last, though not least, John Hart, whose premiums at the Minneapolis fair and at the State fair, amounted to more than 100 dollars.

I shall be pardoned in this connection if I relate a little incident concerning Mr. Hart which exhibits his early dewotion to fruit growing. Some thirteen years ago on the day that he voted to give the Railroad 5,000,000 loan. A friend called on him to go and vote after the voting was done. The friend asked the voting was done. him to go and take a glass of beer. Mr Hart refused the beer, in place of it he took a couple of apples and like a good man he took them home to eat in the evening with his wife. This done they planted the seeds from the cores, from these seeds he raised eight fine apples trees, five of which are still living, and from these trees he obtained the same premiums of this last year.

and so on to the end of the whole list of towns of our state. It may not be out of place to give a few of the mames of the early settlers of Winona county who have made the nursery of apples a splendid success. It would make a long list to name those whose orchards yielded more than a hundred bushels each in the year 1871, and those raising from 10 to a hundred would go far up into the hundreds.

The first man to raise grafted fruit in

At the conclusion a vote of thanks was rendered to Mr. Ely, and the essay ordered punted with the proceedings of the so-

ciety
On motion, Messrs. Loring, Buck,
Smith, Mendenhall and Baker, were appointed to meet the committee from the Legislature to come up to the Society to

Mr. Gideon was then called upon, and read an essay which was directed against fast horses at in general, and agains hory all agricultural fairs in franticular The lapay was placed in by there as they deem bes

The President organised the subject wet with some districting the State, which subject wet with some discussion and was friently laid report the table, Cherries - This subject was next brought Mr. Cook stated that a Mr. Myers, mean Sh Peter, had brought cherry trees from Germany which are dring well find are his bearing. The frithis of a dark ellor, fine flavor, with a small fit. Carly Richmond and Carnation Cherries, which are all doing well The election of officers next took place, resulting, as follows:

President-R. J. Mendenhall, Minne-

appolis.

Vice Presidents—E. H. S. Dartt, Owatonna; M. W. Lealand, Rochester,
Cor. Secretary—J. S. Harris, La Crescent, pro ten, Rec. Secretary—A. W. McKinstry, Turt-

Ass't Secretary-3. D. McKellip, Fa

Treasurer - Wyman Rlliot, Minneapolis. The Society then adjourned until 9: o'clock Thursday morning.

JANUARY 11th, 1872. Called to order at 9:30. Opened with prayer by Rev. G. W. Fuller.

A committee consisting of Messrs. Jewell, Mendenhall and Stevens were appointed to draft a new constitution and by-laws.

Thanks were voted to Mr. Gideon for his essay, read last evening, and the committee on publication were instructed to have it published or such portions of it as they may deem proper.

Thanks were voted to the Minnesota State Agricultural society for \$50 given to this Society for premiums awarded for best varieties of fruit exhibited at the State Fair.

Mr. Jewell was called upon to make a report as delegate from this Society to the American Pomological Society at Richmond, Va., last September. Mr. Jewell said that owing to ill health and pressure of other matters that he was unable to prepare a full report in writing, but would do so at his earliest convenience. On motion time was granted him.

[It is proper to state here that Mr. Jewell took to the American Pomological Society of Minnesota, grown truit of both grafted varieties and seedlings, some sixty different

varieties of Pears.

It was there remarked by all who examined the specimens that there | J. Brainard. was no fruit on exhibition equal to it inbeauty, soundness, quality and flavor.]

Mr. Wyman Elliott, the Treasurer, made his report, which was as follows:

Receipts, including the amount on hand at the beginning of the

54.32 Balance in Treasury At the suggestion of Mr. Hart the subject of crab apples was taken ap.

Mr. Brimhall inquired whether cider can be made of transcendant crabs; he says they are good for drying and for sauce.

Mr. Elliott made ten gallons of cider, but it was not good; sours too soon, and has the crab apple taste; would not recommend raising for cider.

Mr. Gideon would throw away all crabs

mend raising for cider.

Mr. Gideon would throw away all crabs except the Soulard, and one or two others of the best winter varieties.

Mr. Howe thought the Society should Mr. Howe thought the seedlings; he had seen 250 to 300 different kinds at the State Fair, and some 25 varieties were as good, in his opinion, as any of the named varieties there exhibited.

Committee on publication made their re-

We recommend that a committee of seven be appointed by this Society to visit the Legislature and procure the publishing, in book form, of all the proceeding of the Society, from its organization to the present

We also recommend the appointment of J. W. Stevens to compile the same.

The report was adopted, and a committee appointed, as follows: D. A. J. Baker, Chas. Hoag, Nooman Buck, Levi Nutting, C. M. Loring, Truman Smith and Horace

It was voted to send specimens of the fruit on exhibition to the capitol at St. Paul, to be there placed on exhibition.

Discussion of crabs was again taken up. Mr. Jewell thinks the Transcendent a very good variety. The Hislop, though a "thing of beauty is" certainly not "a joy forever," as it is so mealy and dry, and will

not keep any length of time; would plant very sparingly. The Soulard will "keep forever," but is not good as a desert apple, but makes good sauce cooked with Talman Sweet; would plant few where standard apples will grow Transcendent is not a cider crab, but makes fair champagne cider if put up in bottles and kept for a year. In his opinion the Orange crab is the best.

Mr. Harris said, every one should plant a few crabs. Has not had good success in making cider from Transcendents; his favorites are Aiken's Winter and Quaker Beauty; condemns Hislops, but would plant a few where Standards will not succeed well.

All the use Mr. Kenworthy has for crabs is for stocks for top-working, for which they are well adapted.

Truman Smith would not advocate plant-

ing largely; the reason good eider cannot be made from Transcendants is because the

weather is too warm in their season. Good vinegar can be made from the cider, such vinegar made by him brought the highest

Mr. Harrs says it requires two years to make vinegar, and cannot be done successfully with a factory.

Mr. Brand thinks that crabs should be

Mr. Brand thinks that crabs should be planted to some extent in the frontier set-tlements and in localities where apples do not succeed. They bear early and profusely. In setting an orchard he would plant one crab tree in every twenty-five, and would plant Transcendents along the roadside, outside of his orchard if he could afford it. They make a good protec-tion for an orchard.

Orange crabs stand first as a dessert ap-ple, and are profitable for marketing; Meader's Russet and Meader's winter are dso good-better than Transcendent and

Hislop.
On motion the discussion of small fruits. and grapes was dispensed with

On motion Mr. Truman Smith was appointed to prepare an essay on grapes, to be published with these proceedings.

At 11:30 the Legislative committee ar- Rock elm makes a handsome tree, and rived and after a short address of welcome grows rapidly if properly planted and by the President the committee appointed cared for. Box alder is subject to borers, last year visited the orchards in various but is a handsome tree and can be trimmed parts of the State made a report, which re- into any shape. Soft maple has its admiport set forth that the committee had not rers on account of its very rapid growth, been able to make their tour of observation as extended as they wish, but had been able to obtain the following facts:

fruit were found. The report was adopted.

islature to appropriate \$1,000 annually for them unhealthy. People mistake in setthe benefit of the Society to enable it to ting large trees. A small, thrifty tree earry on its operations successfully.

mens of fruit on exhibition.

and the convention was again called to or- any time of year. Very early in the der at 1:30, and adjourned at 2:30, till 7 spring is as good as any time, if not the o'clock this evening

EVENING SESSION.

menclature, submitted quite a lengthy re- ure. The ground should be mulched import on names and brief description of va-mediately after setting. Norway Spruce rious seedlings.

Considerable discussion followed in regard to the propriety of affixing names to the numerous seedling varieties originated in the State.

The report was referred back to the comchoice seedlings, and report at some future held in Minneapolis the last of June or mittee with instructions to give names to

Mr. Buck took the floor and spoke of the of topics for discussion at the next meetfifteen years experience of Mr. Hart, a ing, which were adoptedy fruit grower of Winona county, returning to Minneapolis and Hennepin county his thanks for the first recognition of his services by the generous premium awarded to him by the Agricultural and Mechanical Fair held here last fall,

On motion the chair appointed a committee of three consisting of Messrs. Harris, Dartt and Hoag, with instructions to report an order of business for next meeting, such order of business to be made known within sixty days through the Farmer's

Col. Stevens moved that the next meeting of this Society be in Minneapolis, and that it be the last of June or first of July

Gen. Nutting hoped the motion would prevail, as he thought there was not so good a place on the round globe as this for such a meeting.

It was determined to hold the summer meeting in this city and the fixing of the day was left to a committee consisting of Messrs. Baker, Loring, Bates, Nutting and Elliot.

A committee appointed to ascertain the amount of fruit imported into the State during the year 1871, made a partial report, which gave the amount of green apples imported at 100,000 barrels, at an average cost to the consumers of \$4 per barrel, making a total cost of \$400,000. Further time was given the committee to make a complete report, embracing all kinds of fruit, both green and dried.

The subject of shade trees and evergreens was discussed at some length.

In the matter of shade trees the prevailing sentiment seemed to be in favor of hard maple and Rock elm, the only objection to the former being on account of its slow growth. It was said that if set in the fall it makes a much more rapid growth .-

besides being a handsome tree, but is very much troubled with borers and with the There are 89 varieties of grafted fruit of which the names are known, and about 30 varieties that the names are not known, besides hundreds of seedlings, some of which are of superior quality. The trees are generally healthy and bearing finely.

A number of varieties of pears are growing, and some of them doing remarkably well; one or two very good seedlings of this fruit were found.

splitting of the limbs. Hackberry was well spoken of by one or two persons. Mr. Brand has seen the American Chestnut 15 years old and bearing, and is of the opinion that it will do well with us. Others also spoke well of this tree. Black walnut is a good tree and bears in six years.

The best time to set deciduous trees is splitting of the limbs. Hackberry was

in the fall or early spring. The tops of A resolution was passed asking the Leg- trees should not be cut off, as it makes will soon overtake one that is so large that Adjourned at 12:30, and the Legislative it must have the top cut off when it is set, committee proceeded to examine the speci- and the former will grow into the handsomest and most healthy tree.

Refreshments were served in the hall, With care evergreens can be set almost best. August is a good time, and in May, also, when the buds begin to burst. The Mr. Harris, from the committee on no- roots should be carefully kept from exposis probably the best evergreen for shade, the Arbor Vitse for a hedge. As a timber tree the Larch is valuable.

> At the close this discussion some resolutions of thanks were voted, and another meeting of the Society appointed to be early in July. Mr. Brand presented a list

Jet - Forest Tree Culture, and the varieties to be planted. 2nd - Evergreens The best varieties for timber shelter, hedging and orna ment, Their culture to 3rd - Hedging. What to use and cultures 4th - Orchard Cultivation, Princing to 5th - Orcharding for profits 6th - The Raspberry Cultivation, mar Keting, Varieties to Splant, to 7th - The Strawberry Varieties, Caltivation, marketing the 8th - Insects injurious to fruit their hab ito; How to destroy to 9th - Pears - Culture, soil, translies 10th - Cherries. 11th - To beautify our homes, harticul turally considered On motion the President was instructed to appoint a persons to write



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