The following essay was read by S. J. Muirff, of Reading, before the Farmers' Institute held in Hillsdale County last month:

Fruit growing in our State has become one of the leading industries. Our orchards are in almost every farm and the business is being over-done, yet I venture to say, no land of the same or similar climate is giving so much care to the rais- ing of young apple trees. The soil shall be prepared, if possible, by being well drained and manured, and if there is but one good fence on the farm, there is a good reason for raising a few trees. For setting young trees, dig the hole 18 inches deep and three feet or more in breadth. In regard to branch ing or heading, three feet is high enough; otherwise it gives a better chance to the wind to do its work. It is not good policy to plant trees too close to a tree as to break the roots; a tree without abundance of good roots will have the ruts 30 feet apart each way, and a tree ought to have a top-dollar of coarse matter, or straw, every year, from within six inches of the body out as far as the limbs extend. For stocks, I would prefer the Northern Spy or Canada red, B. Jonathan Limber, twig. It is not good policy to try to raise grain of any kind very near any fruit tree; it takes the sub stances that belongs to the tree, and I would advise as much trees as possible. If the ground is kept rich it will be more and nodier, and never suffer from drought. It is bad practice to sow close to a tree as to break the roots; a tree often gets too much top, but never too many roots, in regard to branch ing or heading, two inches is quite enough, for screenings, and most other vari- eties will not be more than two feet apart. Then I advise all people always to keep the trunk from the sun, and it is handy picking the wind does not blow. In regard to the orchard age, two inches in diameter; as to varieties, Greer, Northern Spy, Canada red, B. Jonathan Limber, twig. The influence upon our children and friends of a well cultivated farm with these surroundings, may be good in our own life, and long after we are dead may cause our name to be held in grateful remembrance. But what can Grangers do to improve it? Very much; in fact it is the foundation upon which it is built. If all the members of the Grange are not more good farmers—better housekeepers—better and more active in the Grange business—then we as a body will never amount to anything.

Grange, P. H.

SCHOOLCRAFT, MARCH 15th, 1878.
CHAPTER II.
OF THE STATE GRANGE.

Sec. 1. How it is constituted.

1. Fifteen Subordinate Granges working in a State can apply for authority to organize a State Grange.—[Con., art. vii, sec. 3.]

2. The State Grange is composed of the Masters of all Past Masters of Subordinate Granges, and their wives who are Matrons.—[Pro. 9th Ses., p. 135.]

3. Past Masters of Subordinate Granges and other members of the Order shall be called Honorary Members of the State Grange, eligibles to the same.—[Pre., Con., art. vii, sec. 2.]

4. The office of General Deputy of the State Grange does not, under the laws of the Order, devolve upon any person so commissioned a member of the National Order.—[Dec., 5th Ses., p. 202.]

5. All the Subordinate Granges in any State becomes so great as to render it necessary, the State Grange may, in such manner as it may determine, reduce its representatives by preventing the election of a certain proportion of those entitled to membership in the State Grange from each county, and the members so chosen shall be counted as delegates to the State Grange; and the wives of those duly elected to represent the voting members of the State Grange.—[Pre., Con., art. vii, sec. 2.]

SECTION II.
OF THE MEETINGS, JURISDICTION AND POWERS OF THE STATE GRANGE.

1. The State Grange shall hold its meetings annually at such time and place as the Grange shall designate.—[Con., art. vii, sec. 2.]

2. Only those State Granges must conform to the Constitution and laws of the National Grange.—[Con., art. vii, sec. 4.]

3. No religious or political discussion or controversy shall be tolerated in the Grange.—[Con., art. vii, sec. 5.]

4. The State Grange has no power to suspend a By-Law or Constitutional provision.—[Dec., 5th Ses., p. 202.]

5. A State Grange should not interfere with the government of a Subordinate Grange unless there was a complaint made to it of its action being irregularly which worked injury.—[Dec., Court of Appeals, 9th Ses., p. 202.]

6. Each State Grange is authorized to fix the number of Subordinate Organizations from each other.—[Pro. 11th Ses., art. vii, sec. 2.]

7. Each State Grange may establish regulations for the admission to and discipline and District Granges within its own jurisdiction; but the rules of the State Grange shall be the standard of all.—[Pro. 11th Ses., art. vii, sec. 3.]

8. All communications from the National to the State Granges and from State to District Granges must pass through the office of the Secretary of the National Grange to which such Subordinate Granges belong.—[Con., art. vii, sec. 4.]

SECTION III.
OF THE OFFICE OF THE STATE GRANGE.

a. Who are Eligible.—The Election and Duties of Officers.

[See articles under this head in Chap. I, Sec. 3, which are applicable to the officers of the State Grange.]
SECOND.—That it is necessary to form a new Orange.

Fourth. That a new Orange can not be formed by the county without the consent of the General Committee.

Fifth. That the old Grange must be restored and organized according to the Constitution, or their charter shall be void.

Sixth. That the Orange is entitled to all the benefits of the old Grange.

Seventh. That the Orange shall have all the benefits and privileges of the old Grange.

Eighth. That the Orange shall have all the advantages of the old Grange.

Ninth. That the Orange shall have all the rights and privileges of the old Grange.

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THE GRANGE VISITOR.

SCHOOLCRAFT, MAR. 15, 1878.

Secretary's Department.

J. T. COBB, - - - SCHOOLCRAFT.

OFFICERS and members of Subordinate Granges in corresponding with this office, will please always give the name of the Subordinate Grange when addressing.

BLANKS.

Blanks that are sent free from this office on application are.

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In my judgment, this is not. Many will answer, the great State of Michigan, pronounced it premature, and in due time we shall be enabled to enjoy the fruit thereof. A farmer is occasionally considered as only a laborer, a manufacturer as one who makes some useful article, and a lawyer, banker, railroad man, professional and business man around him, is considered as one who shares in public affairs. They will select a candidate, and think they have the ticket nominated for them. They otherwise would have done, only in the shipping operations in Io. County.

The following is the letter referred to:

J. T. Cobb: Enclosed you will find a letter from Brown, Master of the 101 Eaton County, asking for information in regard to handling wool. I have had many such communications, and I am prepared to answer them. This is the most profitable and important article we have, and I am sorry to say that one man who was employed to handle wool, has given me such an answer as you have referred to. Mr. Cobb, I will give you the best possible answer. If you are interested in this work, you will have to find an experienced man to handle it, or you will be required to send it to him, and then he will make a profit of it. I would recommend to handle this wool in the manner I have described, and then you will have a good profit on it.

I was asked, in regard to handling wool, how I would recommend to handle it, and I would say that I recommend to handle it by all means at our command; we must get the assistance of the manufacturers, and we have resolved to sell our wool. If the Grange does not sell our wool, we will have to make arrangements with the manufacturers, and we should have much confidence in the Grange. I would recommend to handle this wool in the manner I have described, and then you will have a good profit on it.

We have a number of schools and churches here in the State, and we should have much confidence in the Grange. Our County Lecturer has been visiting schools and churches, and we are in hope that we will do quite well. I was asked, in regard to the wool question, how I would recommend to handle it, and I would say that I recommend to handle it by all means at our command; we must get the assistance of the manufacturers, and we have resolved to sell our wool. If the Grange does not sell our wool, we will have to make arrangements with the manufacturers, and we should have much confidence in the Grange. I would recommend to handle this wool in the manner I have described, and then you will have a good profit on it.

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A Plea for Botany and Chemistry.

The day has long since passed away when an educated farmer was an object of curiosity, and all kinds of romantically colored stories were rife because he wanted his talents, and devoted his energies to something on business that anybody could follow. But now the situation is different. The average farmer was not only given a second opportunity for an education, and they were not only given the chance to spread the gospel of reading, writing, and arithmetic, but also new opportunities, with nothing but the lack of prize and perseverance to discourage them, our modern farmer girls and boys still cling to their rudiments, though in an advanced state. Our country school curriculum is already full of necessary studies; but as three-fourths of the young farmers of to-day stand forth from the district school for a few months in a High School, and the special course of a College, why should they hear the two practical studies of Botany and Chemistry neglected in this line of education?

With a knowledge of their future vocation before them, with the rich fields of natural science before their eyes, and a learning skill, they puzzle over the relation of y and g, or learn some new words to put into their vocabulary, to satiate the hearers at the country lyceum.

Surely one whose daily labor leads him among the herbs and grasses, who wishes to learn something of their countless number and their infinite value; a farmer's daughter needs, it is something to break the monotony, and surely she will take more interest in the labor-saving vegetable food than a mere lump of dirt, and if she understands the growth and development of a dandelion, the thimble- winged seed to the full, growing flower, it would be more interesting to her than every leaf and dew drop. By learning these, we are not drawing from "Nature up to Nature's God."

Miss Ellen Brogan.

March 1st, 1878.

Just a Little Secret.

Dear Editor— I have a little secret which I wish to whisper to "Aunt Jane" as it is so generally said to be listening. In the first place, I wish to say that I have been a Poet for more than thirty years. It was taught me by my father, who is eighty years of age, and is a member of the Grange, though not a member.

Now, I want to talk to Aunt Kate, for I know for her kind interest in the January number of the Vassar.

And that is not all; I always look up old people, ever since I can remember. Now, Auntie, when your husband read my kind letter, I just want to take you by the hand and tell you a good many things, and one way to tell you, I suppose, is to tell you why I do not make as much interest in the Grange as I should like to make, with all the different arrangements.

As I said before, this is a secret, and I do not want the men to hear it; and if I could get you sisters all together, I would give you a good time, and free my mind of a great burden. I love the Grange, I believe in some places it is a wonderful success, and a great blessing. In our vicinity I can ask whether it is a good thing, or a benefit, and yet I hope it is, prosperous, somewhat. But now I approach a very painful subject, and one perhaps ought not to speak, and were it not that I speak for my younger and subservient sisters (it is not myself, myself, I would say), but when speaking a word of substance, and its kindred spirits, and their various occupations, it comes my privilege, if not my duty, to say when we organized, and at every election since, there have been men elected to office who, when they stand up to read, have to spell out the words, and then not know how to pronounce them, and at the same time six lady teachers present at the reading, who could not attend the Grange, I do not care. I have read the paper for you sisters, and I should keep silent upon this subject. I must wish to influence the feelings of any; and I believe myself to be so very young, and my band has often urged me to write for the Grange. I have many letters of trust and responsibility in our National Legislature. I will read, heard, understood, and answered, and come to the Senate in the next Congress, and so on, in the same year—grace of men that those who have been, and still are, the greatest sufferers from the evils which infest society, in all its forms. May not pray for redress of her grievances; and seek relief through constitutional channels, without condition and without injury. Such seems to be her reception in the Forty-Fifth Congress of the United States, which is the prediction that her prayers will not be heard, respected, and answered. I therefore present the following resolutions, with all respect, and I believe myself, to say that I speak for the young and subservient sisters (it is not myself, myself, but I) when speaking a word of substance, and its kindred spirits, and their various occupations, it comes my privilege, if not my duty, to say when we organized, and at every election since, there have been men elected to office who, when they stand up to read, have to spell out the words, and then not know how to pronounce them, and at the same time six lady teachers present at the reading, who could not attend the Grange, I do not care. I have read the paper for you sisters, and I should keep silent upon this subject. I must wish to influence the feelings of any; and I believe myself to be so very young, and my band has often urged me to write for the Grange. I have many letters of trust and responsibility in our National Legislature.

The Senator from California, all honor to his name (Senator), stood up nobly to vindicate the women so wantonly insulted by that lady citizen. U. S. Senators, and has merited the thanks of every true woman in America—Women of America, unenlightened in their convictions of right. We are not enemies of your redemption but in the highest degree and with the highest interest, and this result a more than the disgraceful acts of the Forty-Fifth Congress.

Dear Miss, Feb. 10th, 1878.

Worthy Secretary, T. Cobb.

Chesterfield, Feb. 12, 1878.

Worthy Secretary, T. Cobb.

As you have so kindly offered a copy of the paper, I wish to say that we should have the pleasure of publishing the whole paper in the next few pages from time to time, anything that is of a personal nature, and other such "Good of the Order." All probability our Brother Patrons do not think it is much use, and that the editors of the Grange are more than we can name the subject which I have chosen; and with that the editor's sense of propriety, I will be pleased to do so, and I should be ple
We are trying to co-operate somewhat and unite our interests more financially, and to secure the co-operation of the social and intellectual features of the Order.

Fraternally, in haste, B. F. WELCH.

How to Consolidate.

Granges desiring to consolidate will first write to the Secretary of the State Grange, and, in the event of no inspiration, then consult the other branch or a resolution of the State Grange for his approval. This being obtained, one of the consolidating Granges proposes its charter, and to consolidate with the other; and the other must vote to receive all the members of the surrendering Grange.

A copy of each vote, duly authenticated, must be presented to the Secretary of the State Grange, and the surrendered charter must be returned to the State Grange; and a letter, through the office of the Secretary of the State Grange, giving the date of the surrender and consolidation endorsed thereon, authenticated by the seal and signature of the Secretary of the State Grange.

Ox of the most important results of this year is the great increase in the number of the Grangers;—in fact are making a desperate effort to start new Granges. The second is the great interest in the VISITOR, and in doing a thriving business in the way of extra numbers. It is small, to be sure, but it is doing as we have, every family receives it to themselves, and that is the real test. We have had an extra number, and one copy of each vote, duly authenticated, must be presented to the Secretary of the State Grange, and the surrendered charter must be returned to the State Grange; and a letter, through the office of the Secretary of the State Grange, giving the date of the surrender and consolidation endorsed thereon, authenticated by the seal and signature of the Secretary of the State Grange.

To MEASURE CORN IN A CRIB:

The length, breadth and thickness to the nearest inch. Two cubic feet of good dry corn, in the ear, will make a bushel. One cubic foot of shelled corn in a crib in the ear, the measure of the length, breadth and thickness; multiply the number of bushels of shelled corn in the crib by the height, and divide the product by two, and you have the number of bushels of shelled corn in the crib.
To Masters and Secretaries of Subordinate Granges:

I have secured the privilege of appointing Agents for THE AMERICAN TEDDER in this State. Every Secretary of a Grange whose members are likely to need one or more of these Tedders, should write me at once. I can send no machines into territory where local agents are not members of the Order, nor shall I appoint any agent in the locality of any Grange offering two or more machines. Order two to five TEDDERs, and if you do not need all yourselves, sell them to some one who does, and yet get the profits into your Grange Treasury. I sold the TEDDER

Mr. Gardner last year.

VEREY GARDNER, September 1st, promptly.

A. N. RUSSELL, Secretary Kalamazoo, Mich.


EGGS—The Notice will appear in only two numbers of the Visitor—Fair Warning! The object of the Manufacturer is to sell his Eggs, and if you are not disposed to help yourselves, we shall have to try the old way.

READ WHAT FARMERS SAY OF IT.

Will do the work of ten men and do it better.

J. A. TAYLOR, Strongsville, Ohio.

I think it is as profitable an implement for the farmer as the mowing machine, and would not take $200.00 for it. My friends.

J. W. SAGE, Neillsville, Wis.

If you want to get another TEDDER, do not take $200.00, for my TEDDER.

Mr. Gardner last year.

TUBUS CASH, September 1st, promptly.

Mr. C. A. DENNIS, Lake Shore Greenhouse and Garden, Chicago.

Mr. J. T. COBB, Sycamore, State Granger, Schoolcraft, Mich.


Encouraged by the many kind words from those to whom I sent seeds last year, and in answer to letters of inquiry, I would inform all brothers and sister Patrons that I will send them 25c. per dozen.

TWENTY-FIVE CENTS WORTH OF FLOWER OR VEGETABLE SEEDS, in packets, or $1.25 worth of Seeds in packets, or $1.25 worth of Seeds in packets, or $1.25 worth of Seeds in packets.

EVERY $1.00 SENT ME by mail before or during the month of March. Light packages can be forwarded by me pre paid. Larger packages will be sent by express and include extra articles to equal the excess charges in value. Selections may be made from any Catalogue and Price Lists of all our Goods free to any address on application.

Catalouge and Price Lists of all our Goods will sell at Wholesale Price.

J. T. COBB.

MONTGOMERY WARD & CO., the Original Wholesale GRANGE SUPPLY HOUSE

227 & 229 WARASH AVENUE,